LSC Area Percent Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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	3.055	32	37	42	rBV	12420	23494	2.33%	0.160%
2	8.043	880	886	893	rBV	59413	101501	10.07%	0.693%
3	10.858	1358	1365	1371	rBV	85865	157425	15.62%	1.075%
4	14.001	1893	1900	1905	rBV4	14102	24156	2.40%	0.165%
5	14.683	2006	2016	2022	rBV2	147511	242271	24.04%	1.655%
6	14.741	2022	2026	2033	rVB	17273	27493	2.73%	0.188%
7	15.076	2075	2083	2091	rVV3	17502	28445	2.82%	0.194%
8	15.670	2180	2184	2189	rVV	18698	28746	2.85%	0.196%
9	15.728	2189	2194	2202	rVB	30368	50115	4.97%	0.342%
10	16.398	2304	2308	2315	rVB4	17361	30290	3.01%	0.207%
11	16.727	2353	2364	2369	rBV4	19865	52055	5.16%	0.356%
12	16.780	2369	2373	2378	rVB2	16477	25545	2.53%	0.175%
13	16.951	2394	2402	2406	rBV4	10146	23394	2.32%	0.160%
14	17.080	2419	2424	2430	rBV2	21710	35843	3.56%	0.245%
15	17.156	2430	2437	2443	rBV6	17639	28236	2.80%	0.193%
16	17.244	2448	2452	2461	rVB	33957	52469	5.21%	0.358%
17	17.426	2476	2483	2487	rBV2	197276	317038	31.46%	2.166%
18	17.473	2487	2491	2496	rVB	394828	587266	58.27%	4.012%
19	17.526	2496	2500	2503	rBV	22128	30199	3.00%	0.206%
20	17.562	2503	2506	2510	rVB	41649	55830	5.54%	0.381%
21	17.620	2510	2516	2520	rVB2	17623	31435	3.12%	0.215%
22	17.832	2545	2552	2559	rBV2	29100	61623	6.11%	0.421%
23	18.008	2577	2582	2589	rVB	50865	79579	7.90%	0.544%
24	18.149	2601	2606	2614	rVB	32966	63807	6.33%	0.436%
25	18.302	2626	2632	2636	rBV	145444	225545	22.38%	1.541%
26	18.349	2636	2640	2646	rVB	183741	280691	27.85%	1.917%
27	18.431	2646	2654	2659	rBV3	26236	52811	5.24%	0.361%
28	18.496	2659	2665	2669	rBV3	143635	289356	28.71%	1.977%
29	18.531	2669	2671	2676	rVB	105824	135151	13.41%	0.923%
30	18.696	2695	2699	2704	rVB2	28013	38221	3.79%	0.261%
31	18.795	2711	2716	2720	rBV2	87275	126595	12.56%	0.865%
32	18.848	2720	2725	2734	rVB	99802	176338	17.50%	1.205%
33	18.960	2740	2744	2749	rVB4	14324	29265	2.90%	0.200%
34	19.042	2749	2758	2762	rBV4	61100	125134	12.42%	0.855%

LSC Area Percent Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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	19.089	2762	2766	2770	rBV	76963	98679	9.79%	0.674%
36	19.130	2770	2773	2778	rVB2	62267	83069	8.24%	0.567%
37	19.213	2781	2787	2792	rBV	185745	295473	29.32%	2.018%
38	19.265	2792	2796	2801	rBV3	51714	98081	9.73%	0.670%
39	19.301	2801	2802	2806	rVB2	48859	47768	4.74%	0.326%
40	19.360	2806	2812	2817	rBV4	65621	153203	15.20%	1.047%
41	19.483	2826	2833	2838	rBV	569942	841069	83.45%	5.745%
42	19.536	2838	2842	2845	rBV2	43848	61349	6.09%	0.419%
43	19.571	2845	2848	2853	rVB2	36956	51606	5.12%	0.353%
44	19.677	2862	2866	2869	rBV3	22136	29277	2.90%	0.200%
45	19.718	2869	2873	2876	rBV3	37613	53412	5.30%	0.365%
46	19.812	2883	2889	2890	rBV2	112546	160691	15.94%	1.098%
47	19.841	2890	2894	2901	rVB	663312	1007877	100.00%	6.885%
48	19.912	2901	2906	2912	rVB	104606	153653	15.25%	1.050%
49	19.994	2912	2920	2922	rBV3	31473	74510	7.39%	0.509%
50	20.023	2922	2925	2929	rVB3	46979	65487	6.50%	0.447%
51	20.076	2929	2934	2940	rVB3	46677	91105	9.04%	0.622%
52	20.170	2942	2950	2956	rBV5	86495	236374	23.45%	1.615%
53	20.253	2957	2964	2967	rBV6	21569	44295	4.39%	0.303%
54	20.329	2967	2977	2983	rVB	139180	334038	33.14%	2.282%
55	20.429	2990	2994	2998	rBV	81623	108030	10.72%	0.738%
56	20.493	2999	3005	3008	rBV2	133418	191177	18.97%	1.306%
57	20.629	3024	3028	3032	rBV	117906	162621	16.14%	1.111%
58	20.676	3032	3036	3039	rBV	85513	100778	10.00%	0.688%
59	20.787	3048	3055	3062	rBV6	26377	66308	6.58%	0.453%
60	20.881	3067	3071	3074	rBV3	59690	80548	7.99%	0.550%
61	20.922	3075	3078	3081	rBV5	22719	31362	3.11%	0.214%
62	21.058	3095	3101	3103	rBV6	21919	45323	4.50%	0.310%
63	21.099	3103	3108	3114	rVB2	83008	145513	14.44%	0.994%
64	21.193	3120	3124	3129	rVB	36568	52120	5.17%	0.356%
65	21.281	3130	3139	3143	rBV3	113632	253012	25.10%	1.728%
66	21.322	3143	3146	3150	rVB	69697	93415	9.27%	0.638%
67	21.375	3150	3155	3159	rBV2	50989	93202	9.25%	0.637%
68	21.434	3162	3165	3173	rVB	53307	91665	9.09%	0.626%
69	21.563	3184	3187	3192	rVB3	23156	35223	3.49%	0.241%
70	21.692	3202	3209	3215	rBV2	358508	942352	93.50%	6.437%
71	21.751	3215	3219	3230	rVB	315759	543378	53.91%	3.712%

LSC Area Percent Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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	21.851	3231	3236	3241	rVB5	35990	63483	6.30%	0.434%
73	21.904	3241	3245	3249	rBV	34286	56383	5.59%	0.385%
74	21.980	3253	3258	3267	rBV9	33654	99989	9.92%	0.683%
75	22.121	3277	3282	3287	rBV4	30894	57726	5.73%	0.394%
76	22.180	3287	3292	3297	rVV4	29493	53547	5.31%	0.366%
77	22.356	3317	3322	3327	rBV3	25992	50704	5.03%	0.346%
78	22.432	3327	3335	3341	rVV2	101753	256160	25.42%	1.750%
79	22.509	3344	3348	3355	rVB2	62781	114408	11.35%	0.782%
80	22.714	3378	3383	3387	rBV3	46799	87984	8.73%	0.601%
81	22.855	3400	3407	3413	rBV3	38215	89712	8.90%	0.613%
82	23.290	3478	3481	3487	rBV	14654	25381	2.52%	0.173%
83	23.378	3492	3496	3505	rVB2	32302	70205	6.97%	0.480%
84	23.549	3520	3525	3532	rVB7	20884	54204	5.38%	0.370%
85	23.931	3580	3590	3597	rBV	165558	576500	57.20%	3.938%
86	24.183	3627	3633	3641	rVB	30414	71204	7.06%	0.486%
87	24.383	3664	3667	3683	rVB9	13751	38360	3.81%	0.262%
88	24.653	3703	3713	3724	rBV	115799	341970	33.93%	2.336%
89	24.800	3731	3738	3750	rVB	155315	455438	45.19%	3.111%
90	24.959	3752	3765	3772	rVV2	129161	408309	40.51%	2.789%
91	25.029	3774	3777	3793	rVB4	41575	144314	14.32%	0.986%
92	25.734	3893	3897	3906	rVB3	18266	45852	4.55%	0.313%
93	25.828	3907	3913	3921	rVB3	19126	50581	5.02%	0.346%
94	26.034	3939	3948	3958	rVB8	19601	74061	7.35%	0.506%
95	26.146	3961	3967	3972	rBV5	12324	32226	3.20%	0.220%
96	26.363	3994	4004	4011	rBV4	20001	67570	6.70%	0.462%
97	28.684	4386	4399	4413	rVB3	58917	276726	27.46%	1.890%
98	29.301	4495	4504	4517	rBV5	15471	62990	6.25%	0.430%
99	29.853	4583	4598	4611	rBV4	49995	234469	23.26%	1.602%
100	30.464	4695	4702	4704	rBV8	10725	24104	2.39%	0.165%

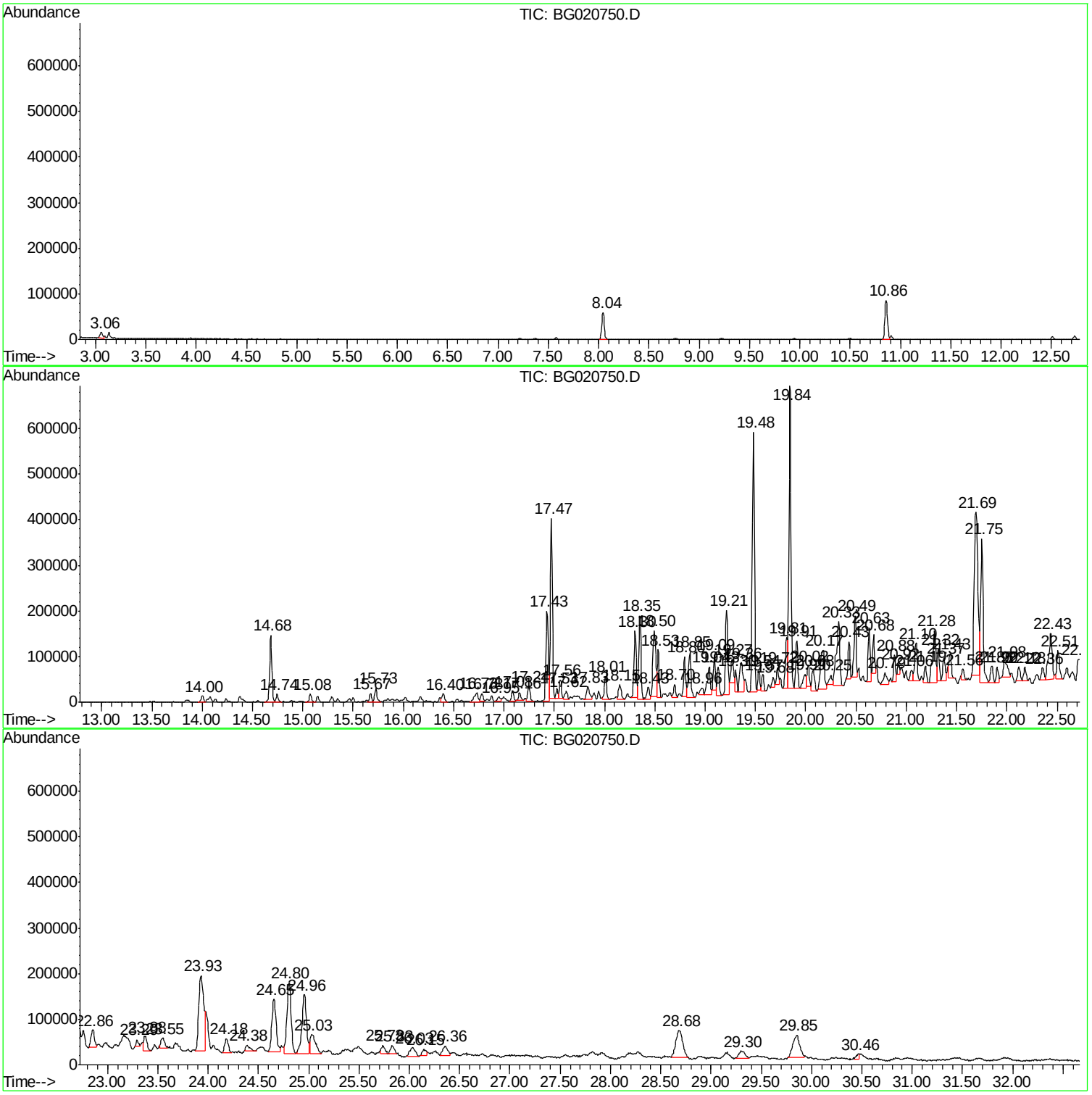
Sum of corrected areas: 14638965

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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



Library Search Compound Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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

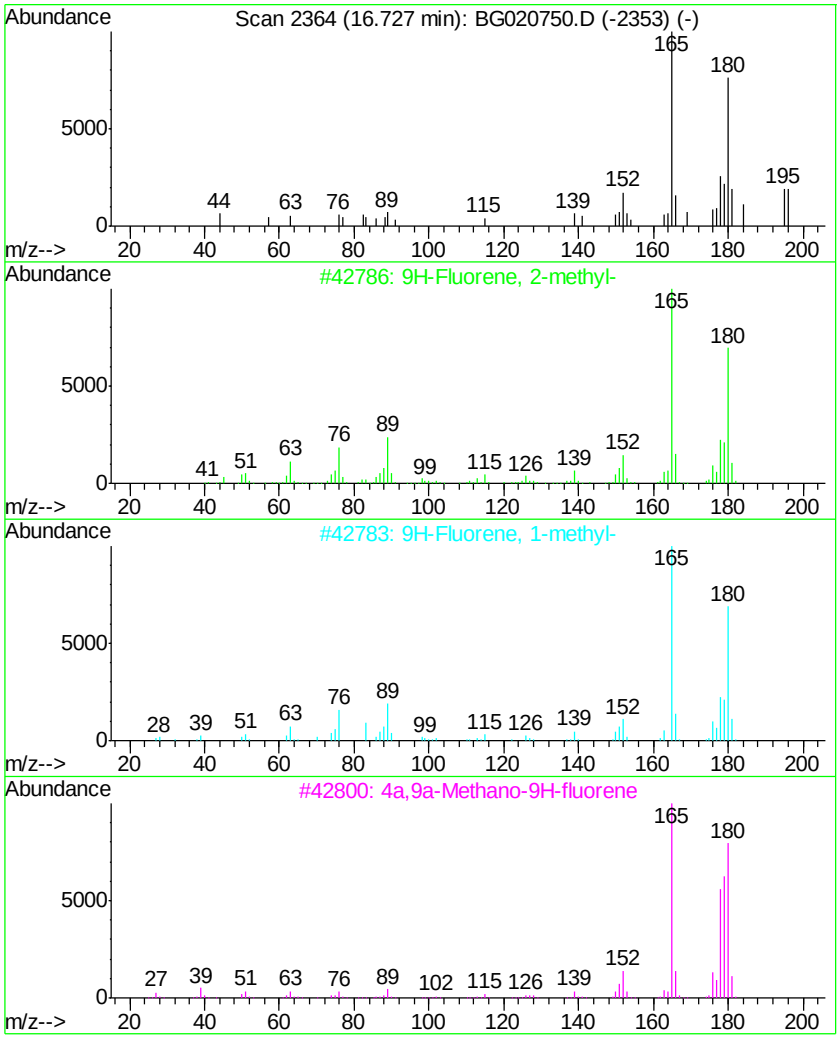
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

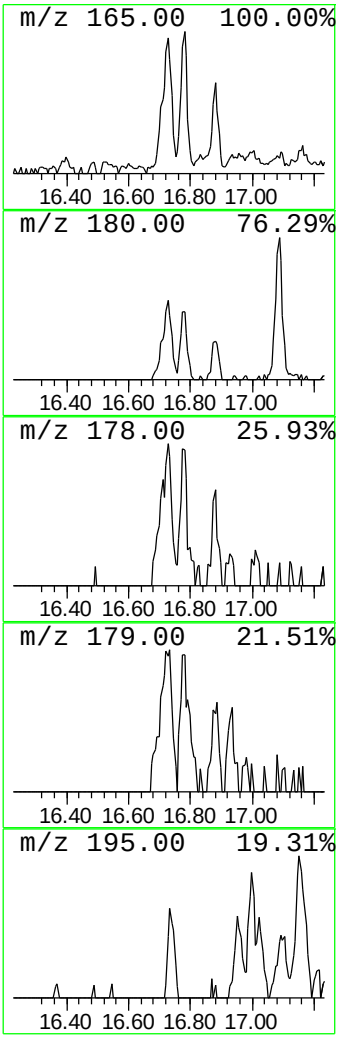
****

Peak Number 2 9H-Fluorene, 2-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	3.28 ng/ul	52055	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	89
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89
3	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	83
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	76
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	76





Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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

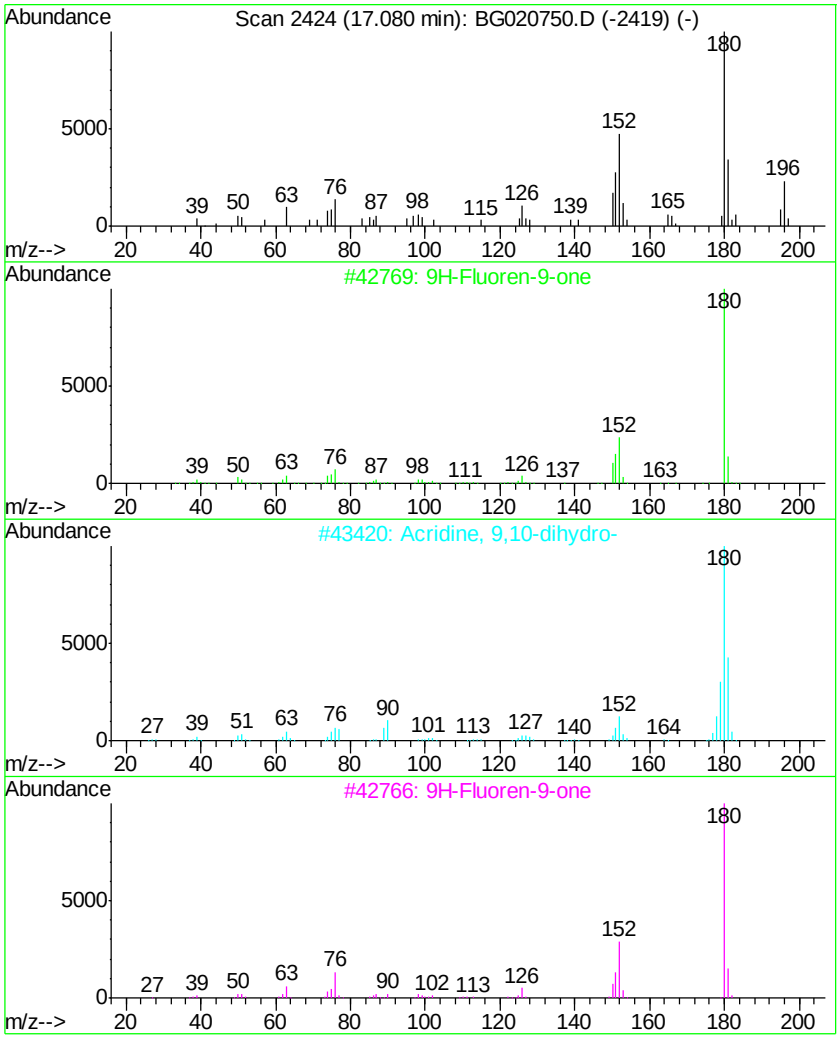
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

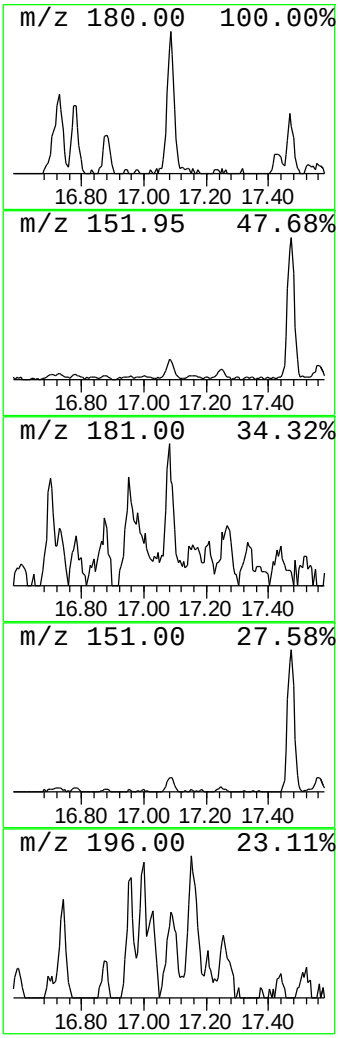
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.08	2.26 ng/ul	35843	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	Acridine, 9,10-dihydro-	181	C13H11N	000092-81-9	87
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87





Library Search Compound Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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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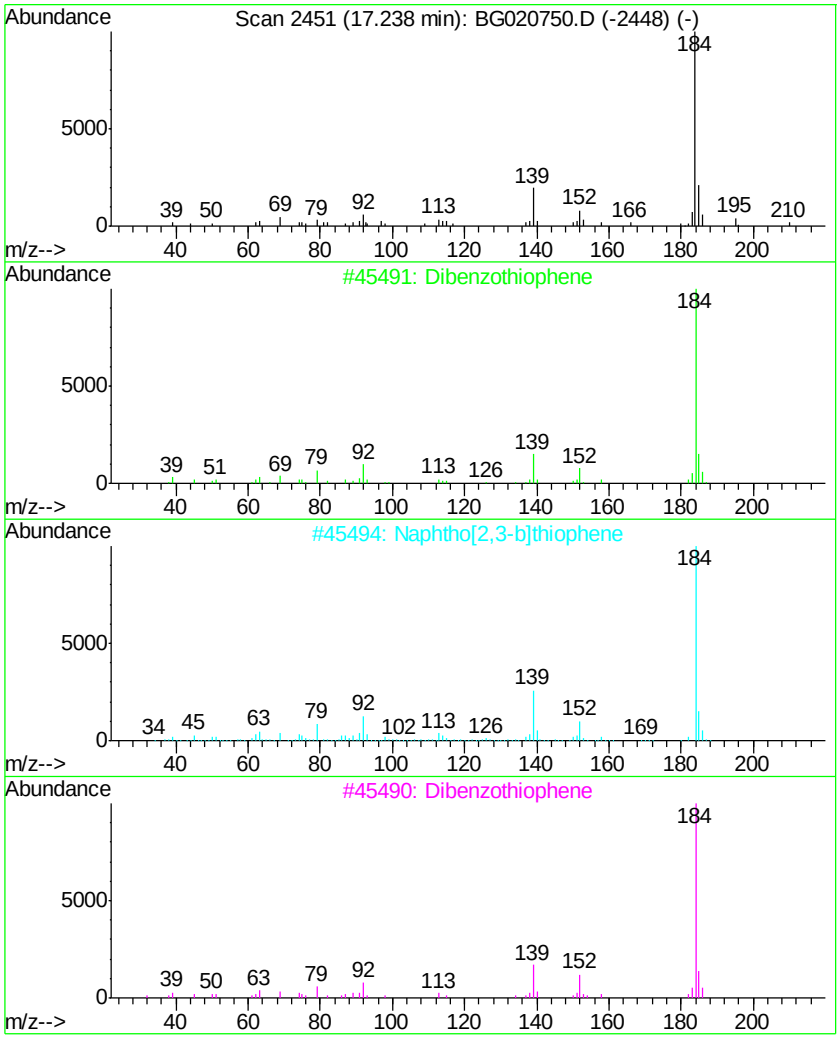
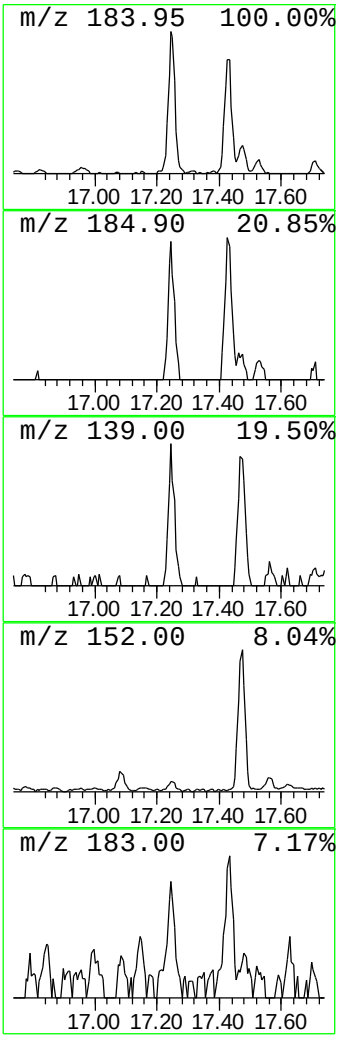
Peak Number 4 Dibenzothiophene Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.24	3.31 ng/ul	52469	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	93
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	91
3	Dibenzothiophene	184	C12H8S	000132-65-0	87
4	Dibenzothiophene	184	C12H8S	000132-65-0	83
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	83





Library Search Compound Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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

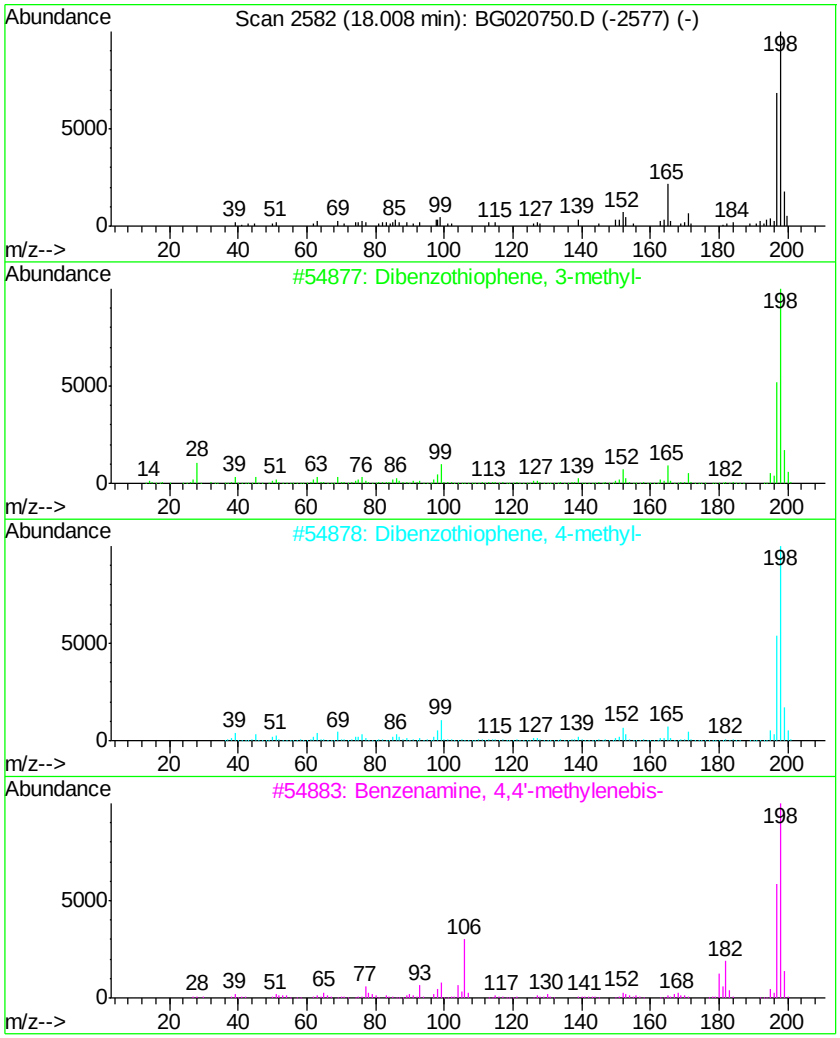
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

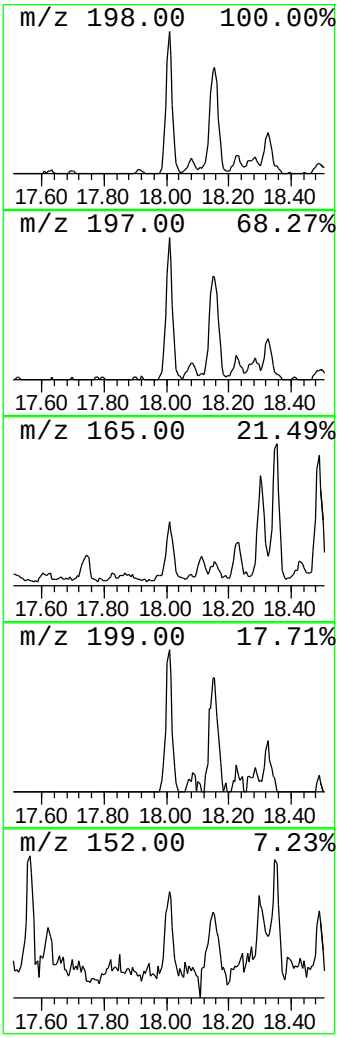
****

Peak Number 5 Dibenzothiophene, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.01	5.02 ng/ul	79579	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	81
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	74
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	64
4	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	64
5	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	59





Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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

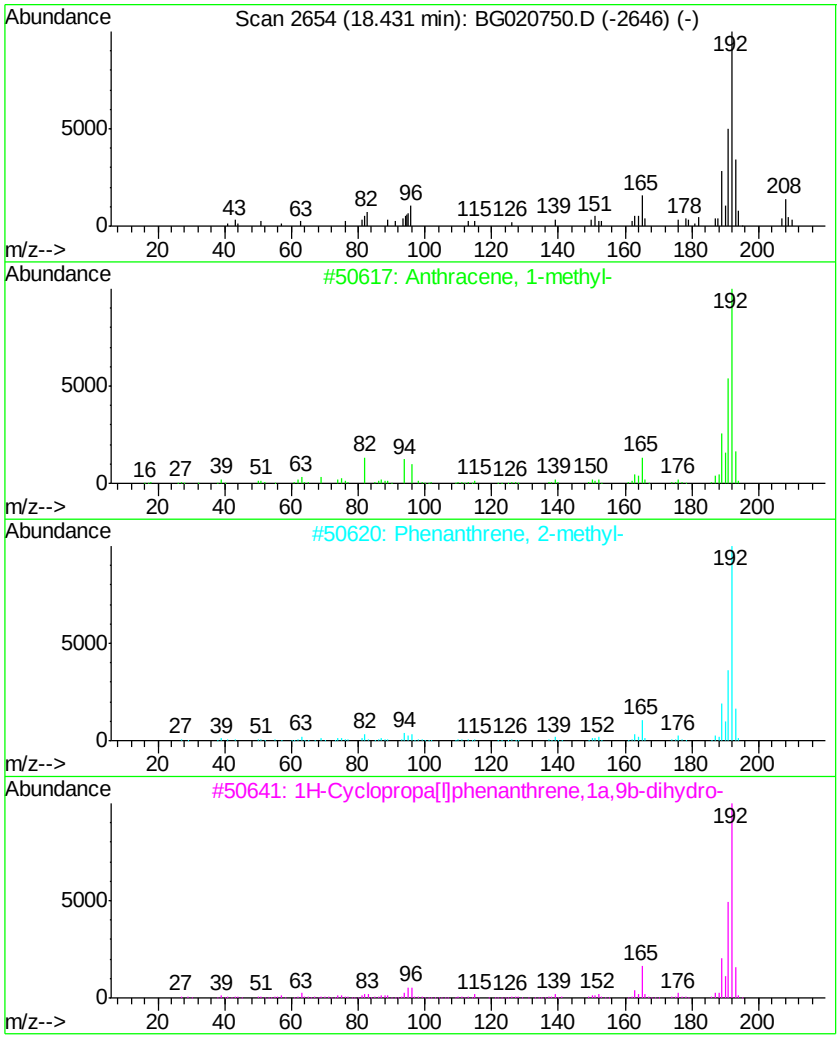
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

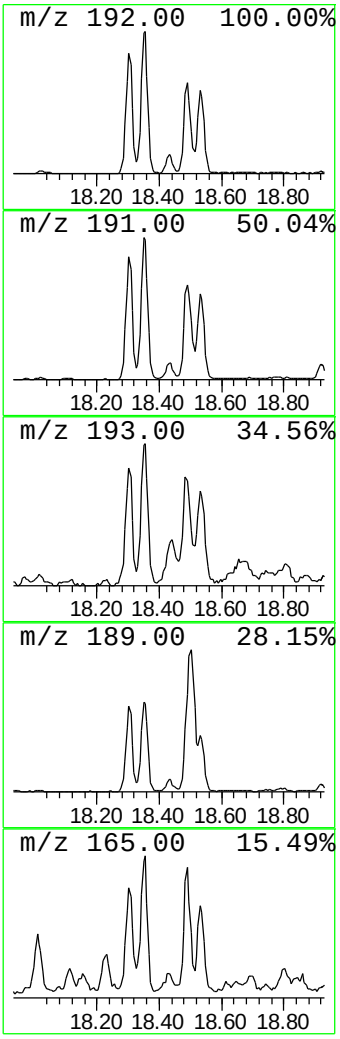
****

Peak Number 9 Anthracene, 1-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	3.33 ng/ul	52811	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	89





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Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
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Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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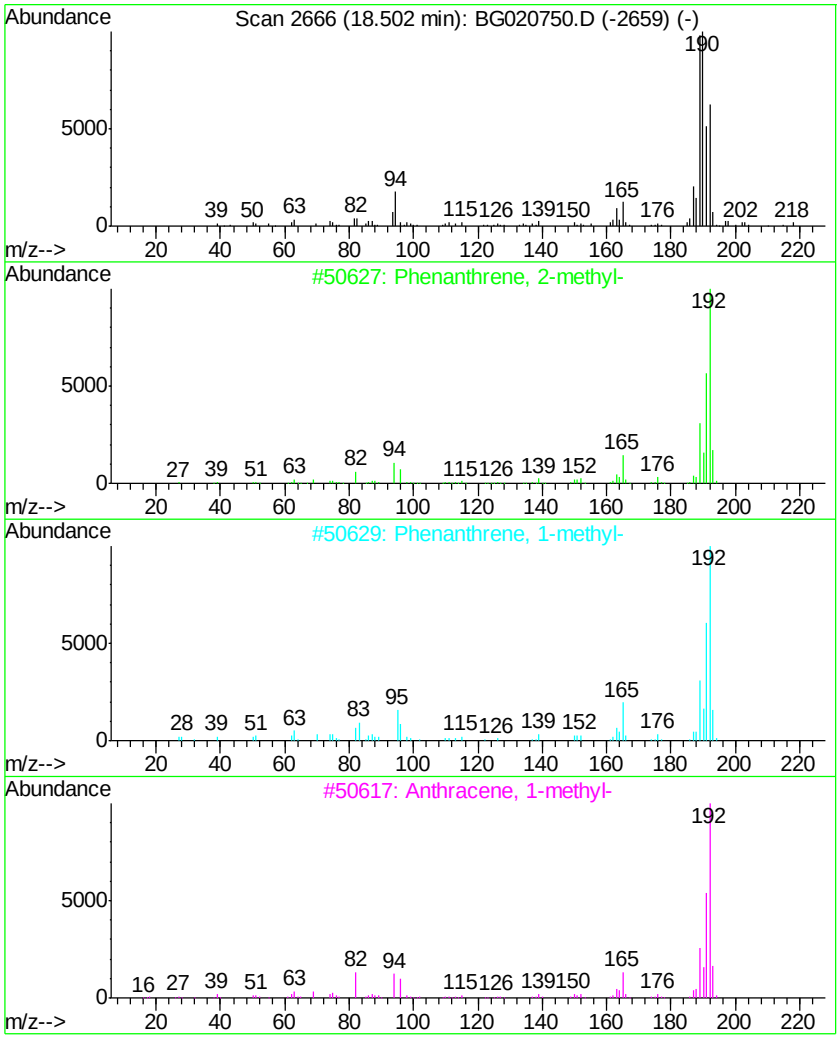
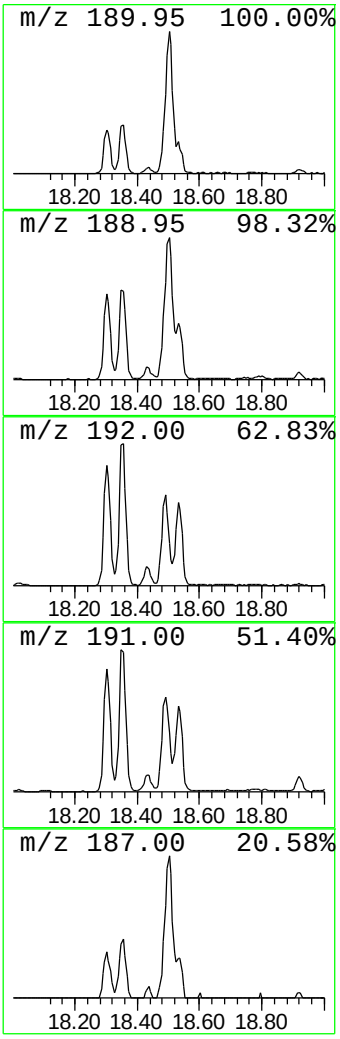
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.50	18.25 ng/ul	289356	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	50
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	41
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	38
5	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	38





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Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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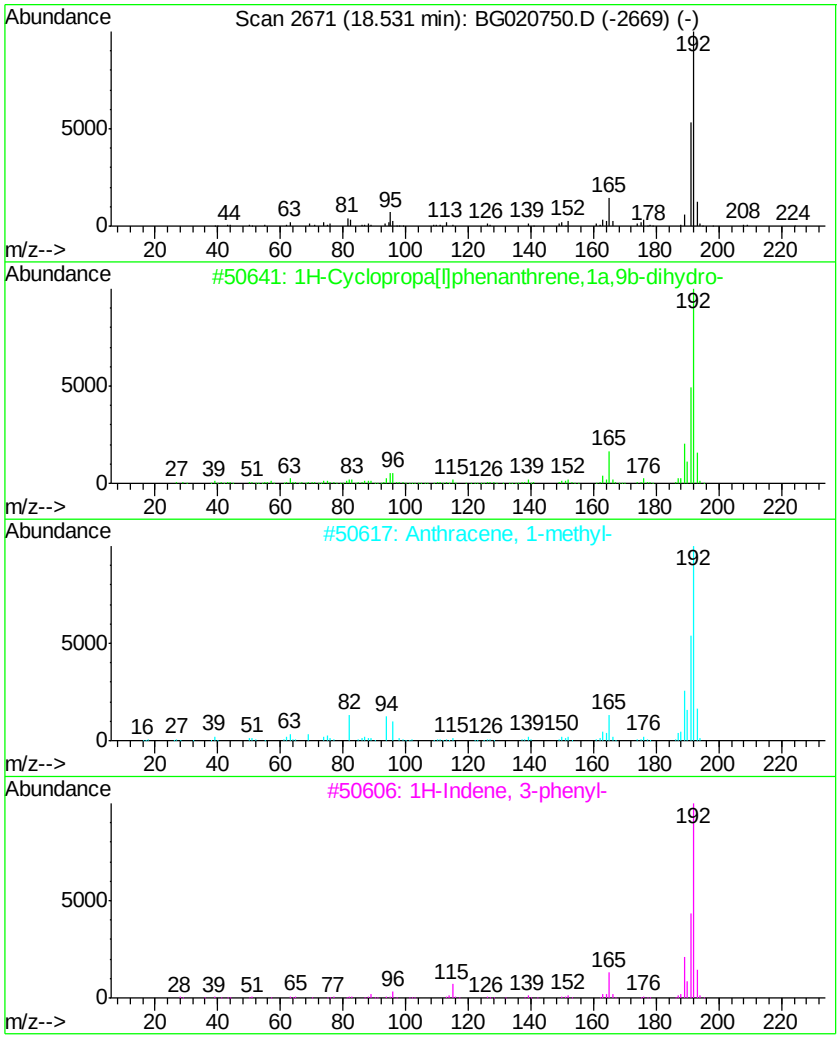
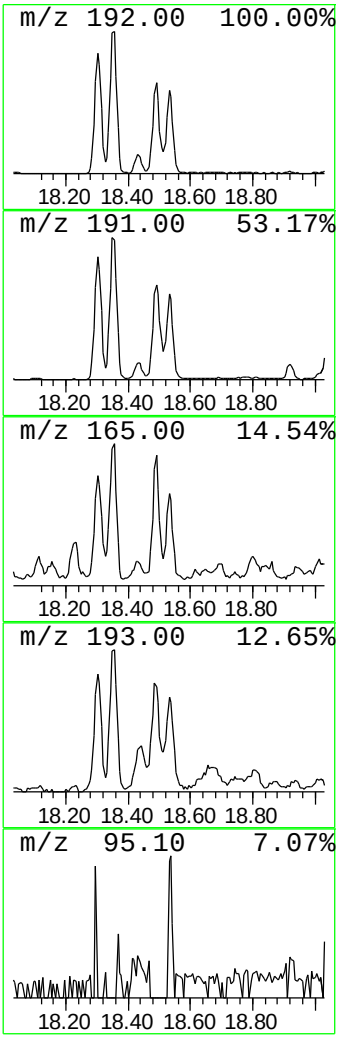
Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	8.53 ng/ul	135151	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
3	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	90
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





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Misc :
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Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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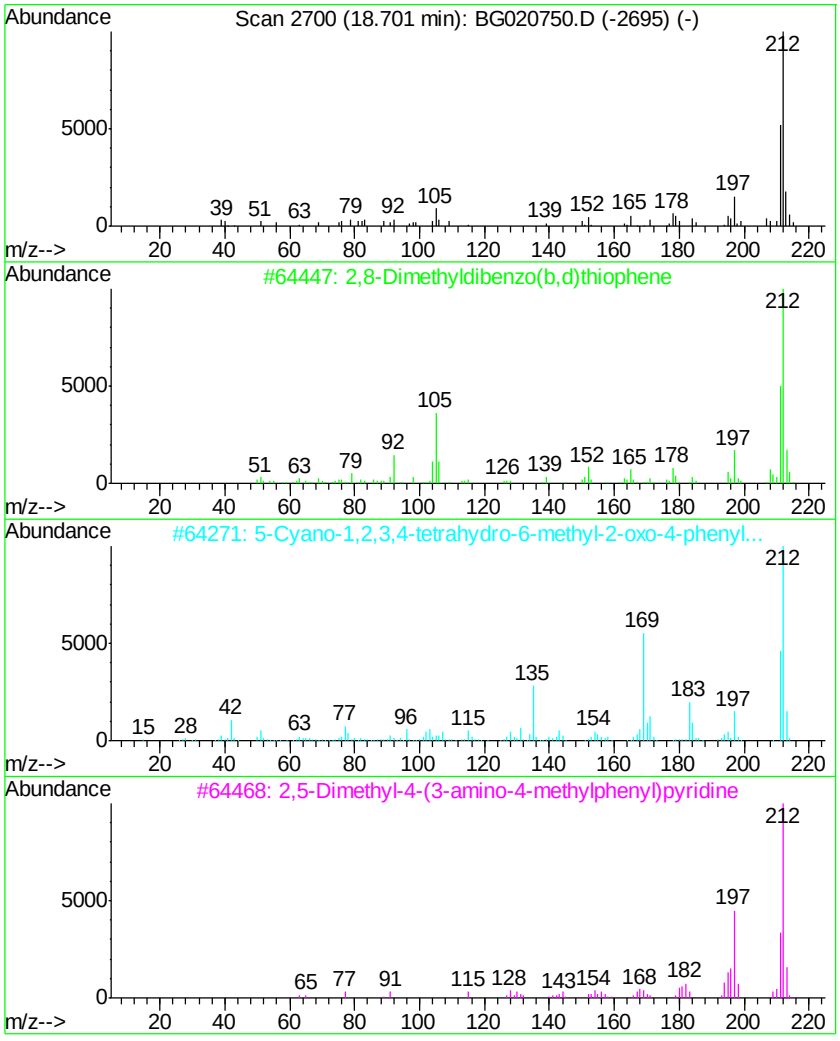
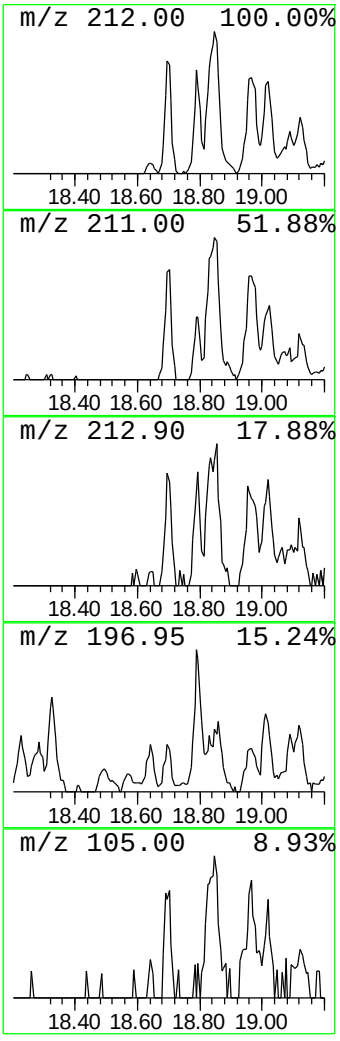
Peak Number 12 2,8-Dimethyldibenzo(b,d)thi... Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	2.41 ng/ul	38221	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	5-Cyano-1,2,3,4-tetrahydro-6-met...	212	C13H12N2O	027036-92-6	78
3	2,5-Dimethyl-4-(3-amino-4-methyl...	212	C14H16N2	071153-33-8	64
4	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	64
5	9H-Xanthene-9-thione	212	C13H8OS	000492-21-7	50





Library Search Compound Report

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Sample : H1101-12 10X
Misc :
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Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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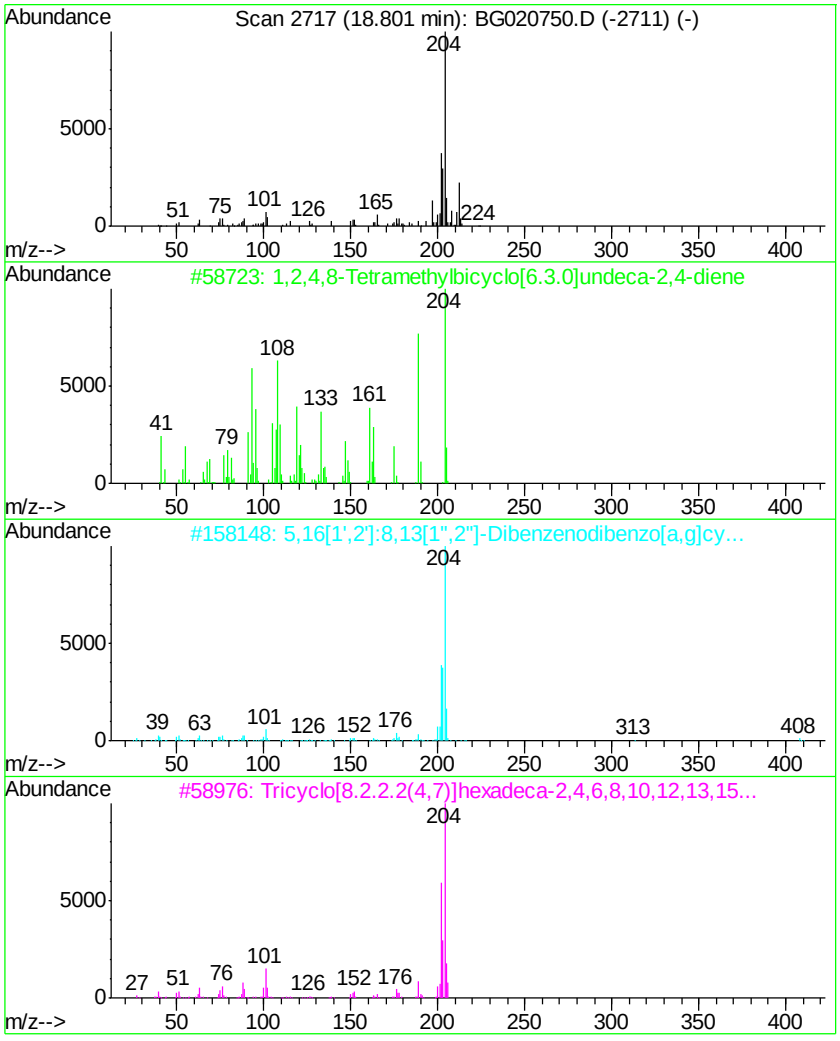
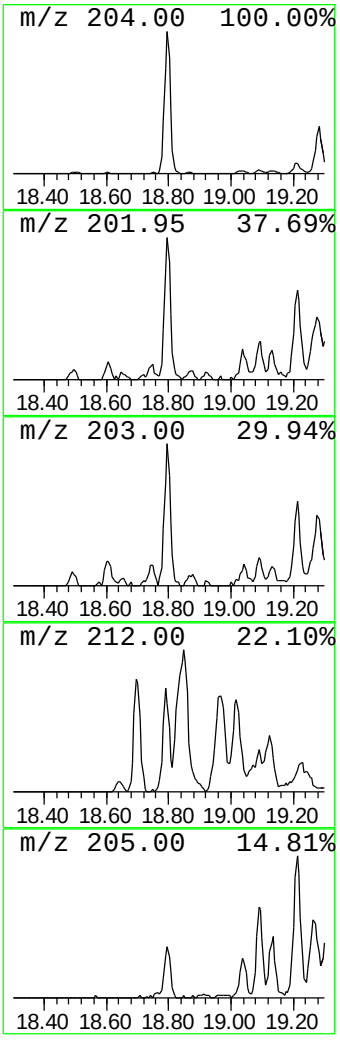
Peak Number 13 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	7.99 ng/ul	126595	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	62
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	60
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55





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Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
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Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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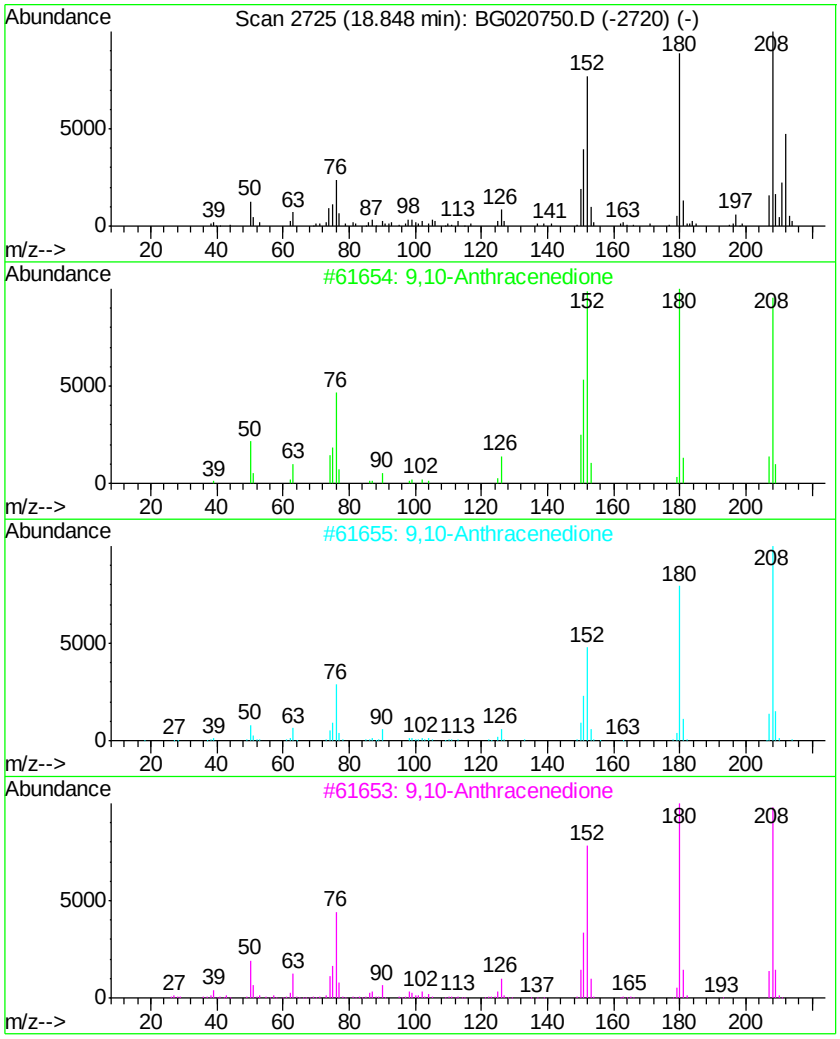
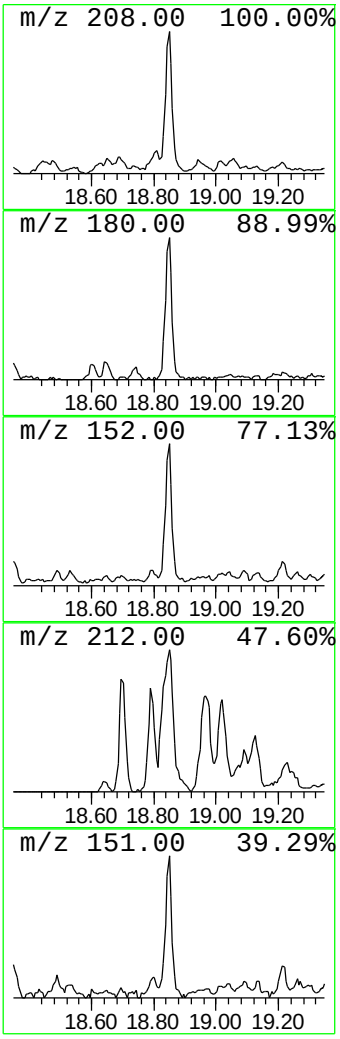
Peak Number 14 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	11.12 ng/ul	176338	Phenanthrene-d10	17.43

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	90
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	64





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Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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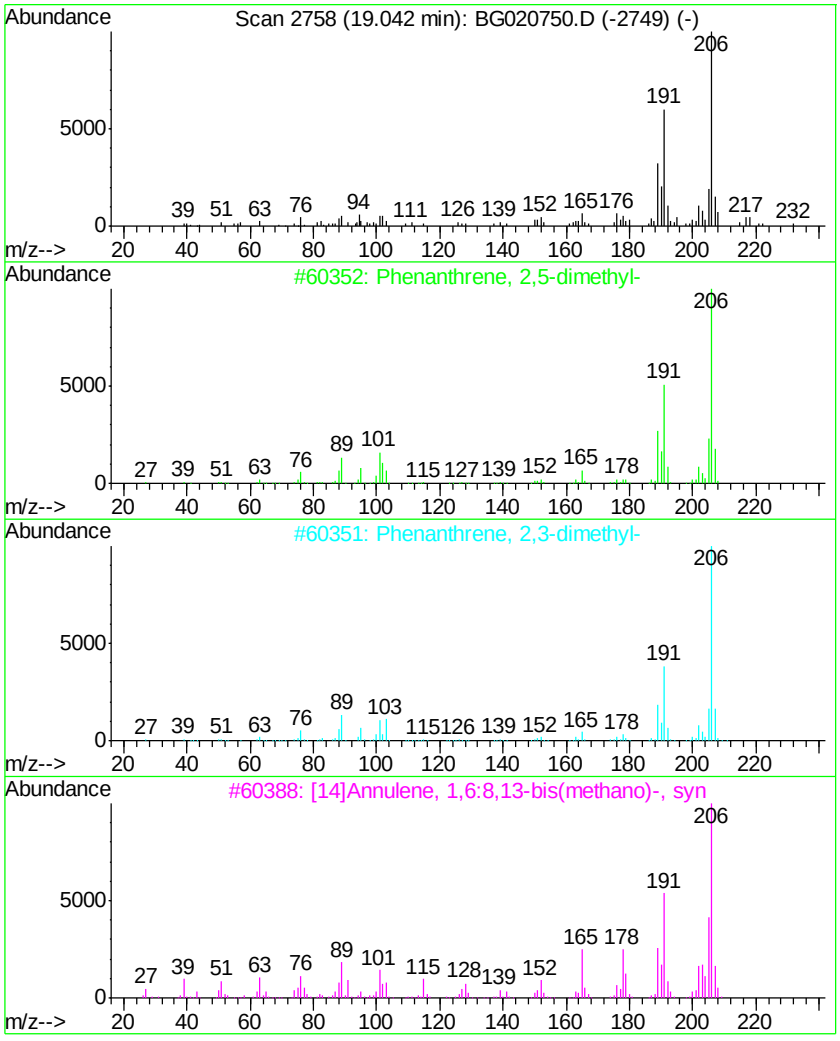
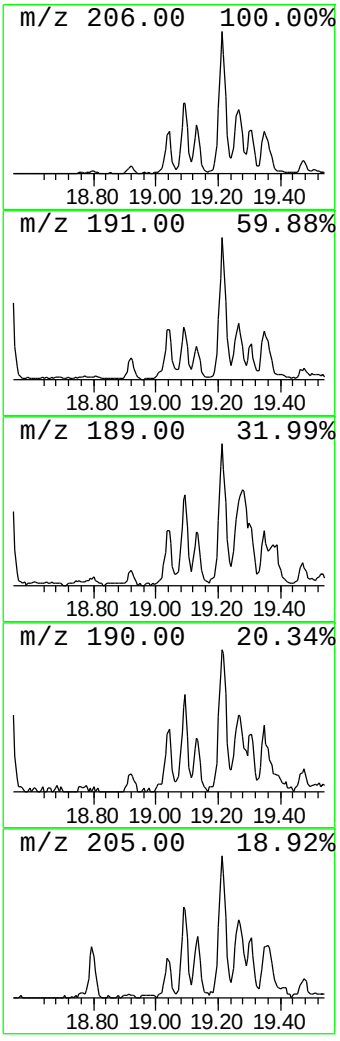
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.04	7.89 ng/ul	125134	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
3	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	83
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83
5	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	74





Library Search Compound Report

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Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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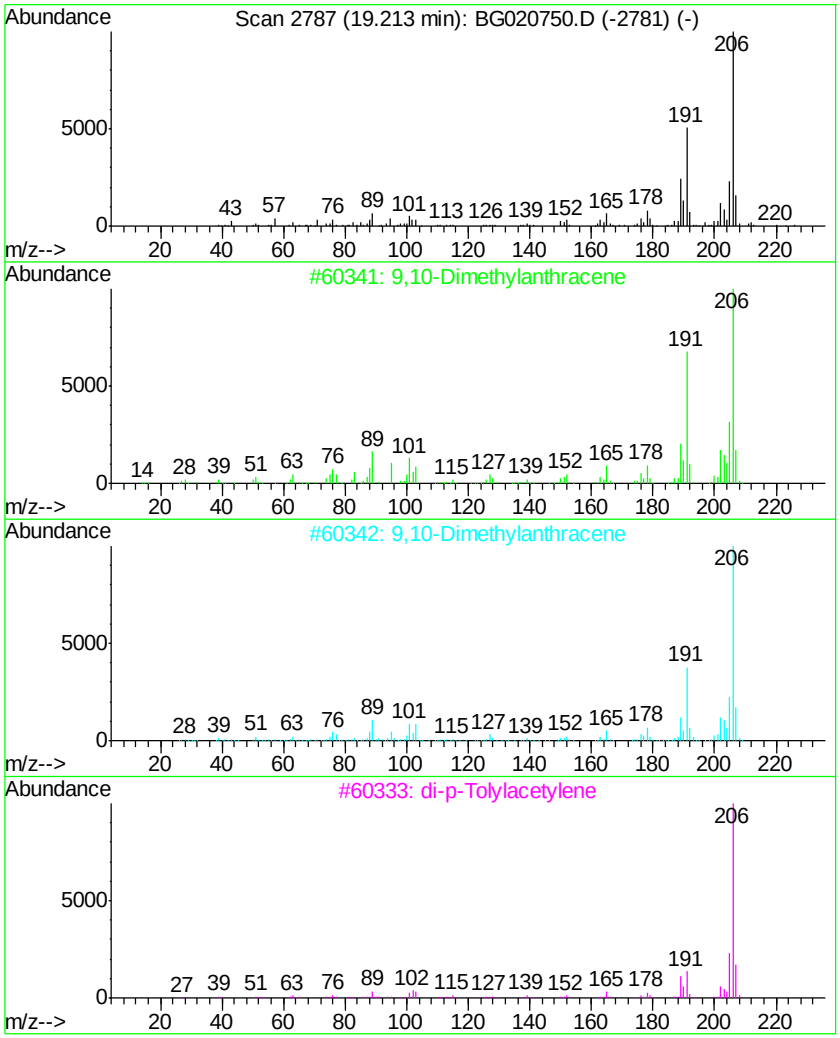
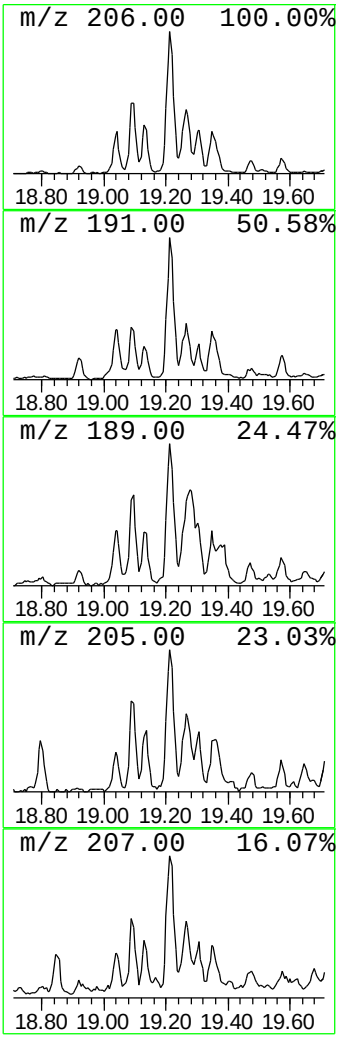
Peak Number 18 9,10-Dimethylanthracene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.21	18.64 ng/ul	295473	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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Sample : H1101-12 10X
Misc :
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Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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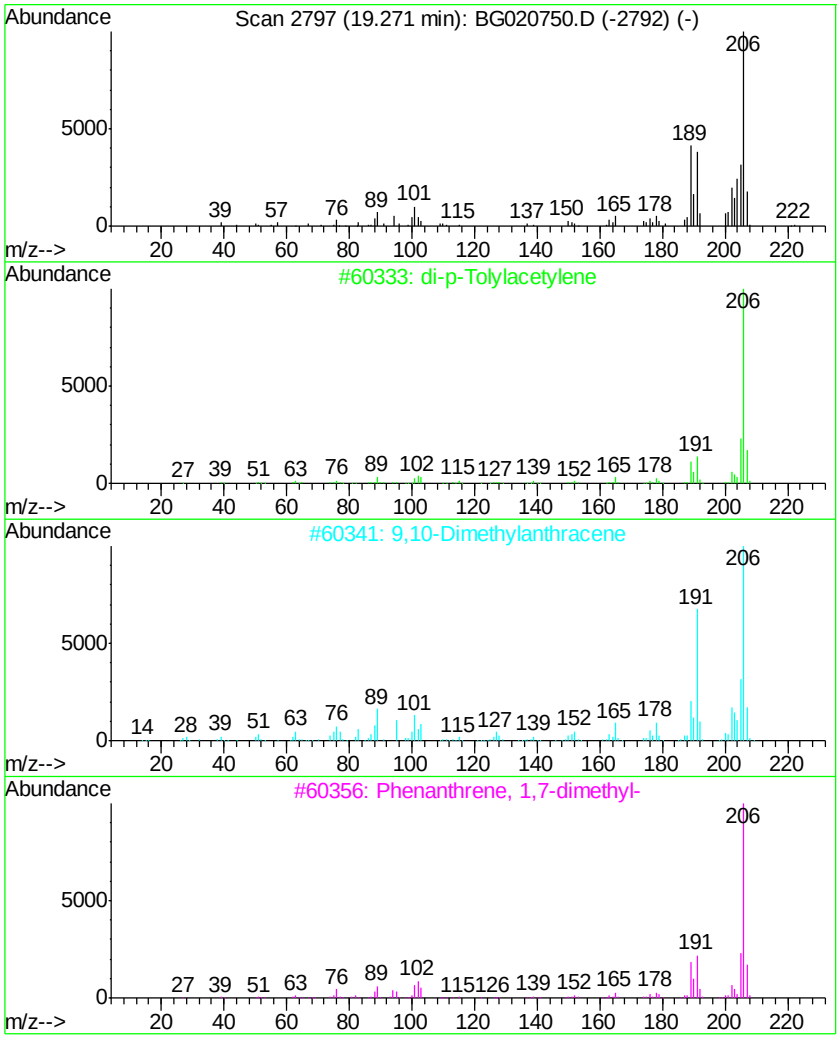
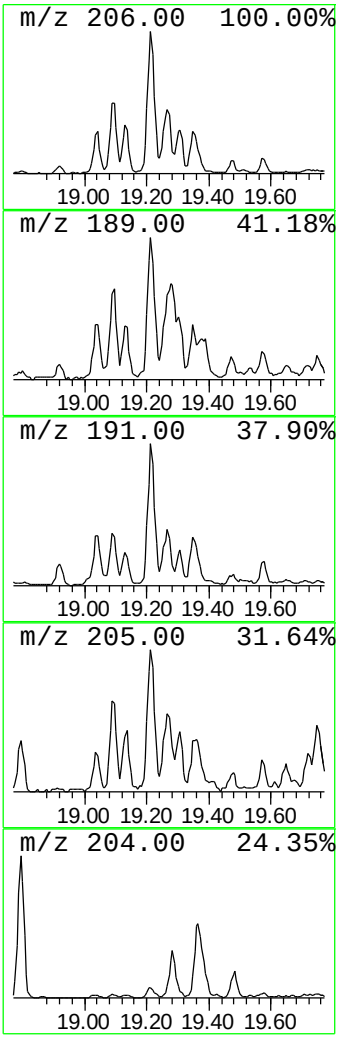
Peak Number 19 di-p-Tolylacetylene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.27	6.19 ng/ul	98081	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	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Sample : H1101-12 10X
Misc :
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Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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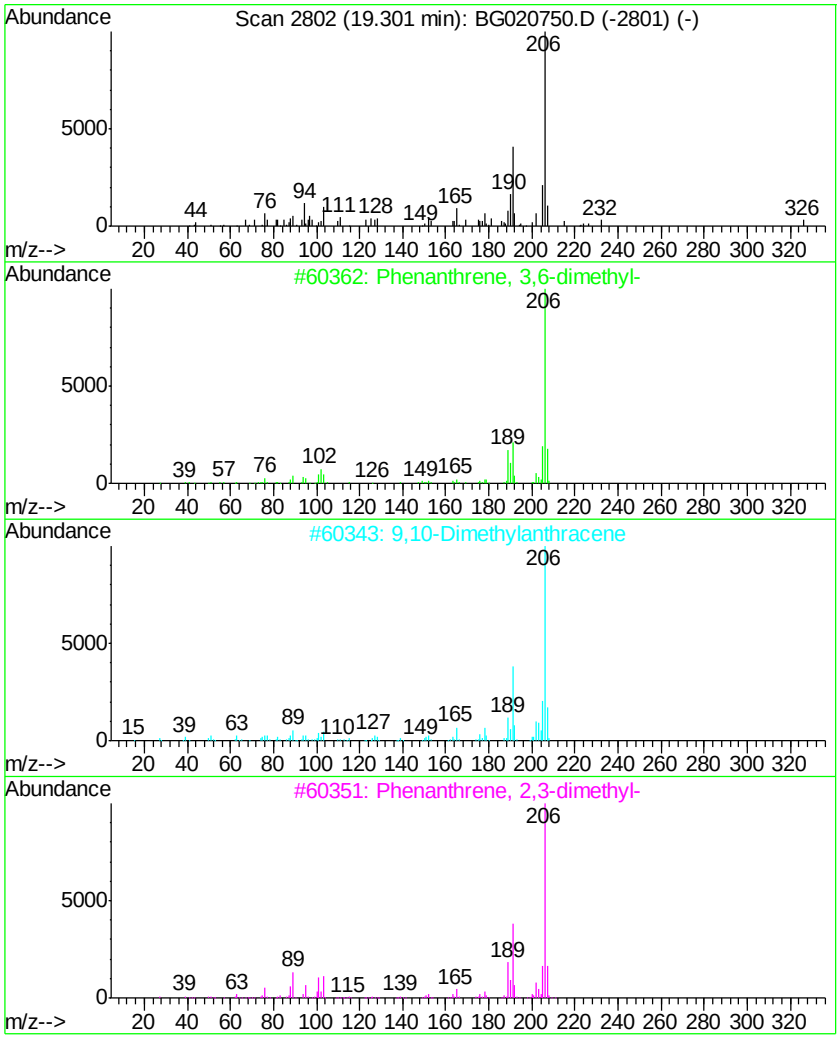
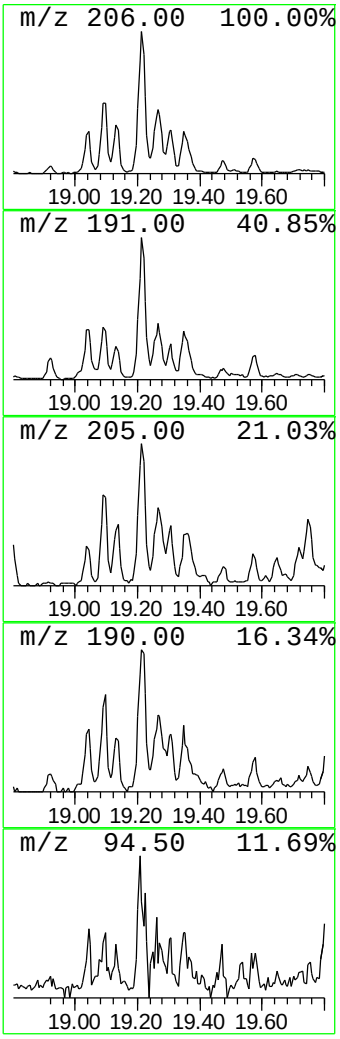
Peak Number 20 Phenanthrene, 3,6-dimethyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.30	3.01 ng/ul	47768	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	64
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	64
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	64
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	59
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	59





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Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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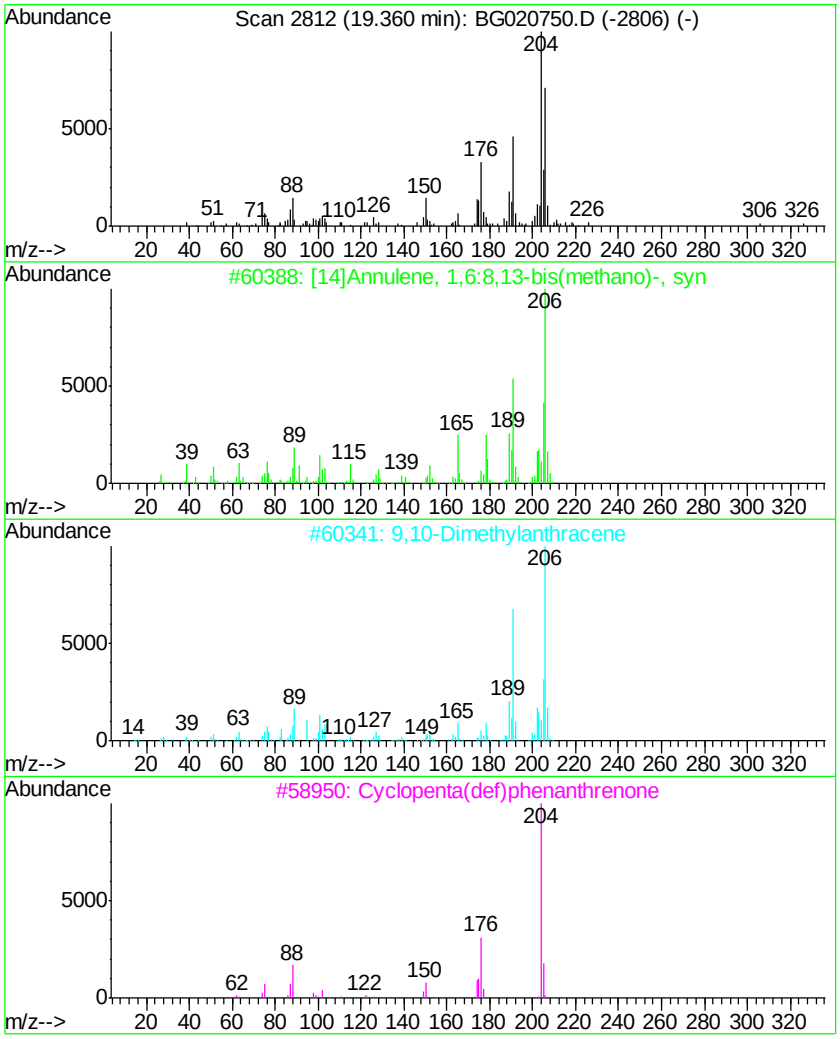
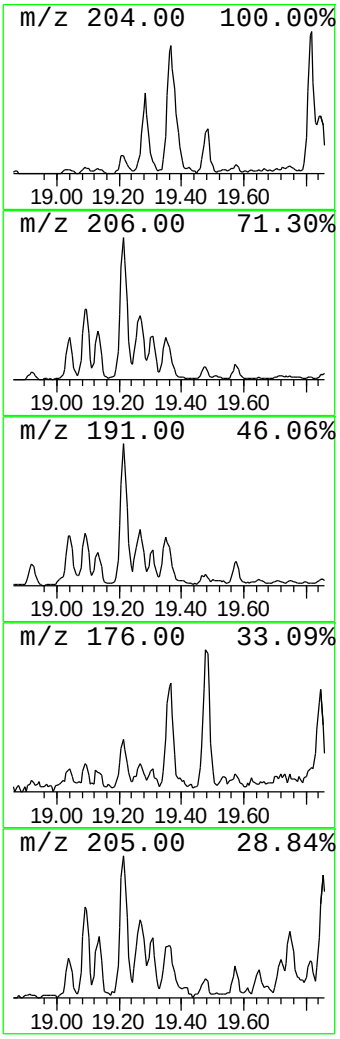
Peak Number 21 [14]Annulene, 1,6:8,13-bis(... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.36	9.66 ng/ul	153203	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	50
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	50
3	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	46
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	45
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	43





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ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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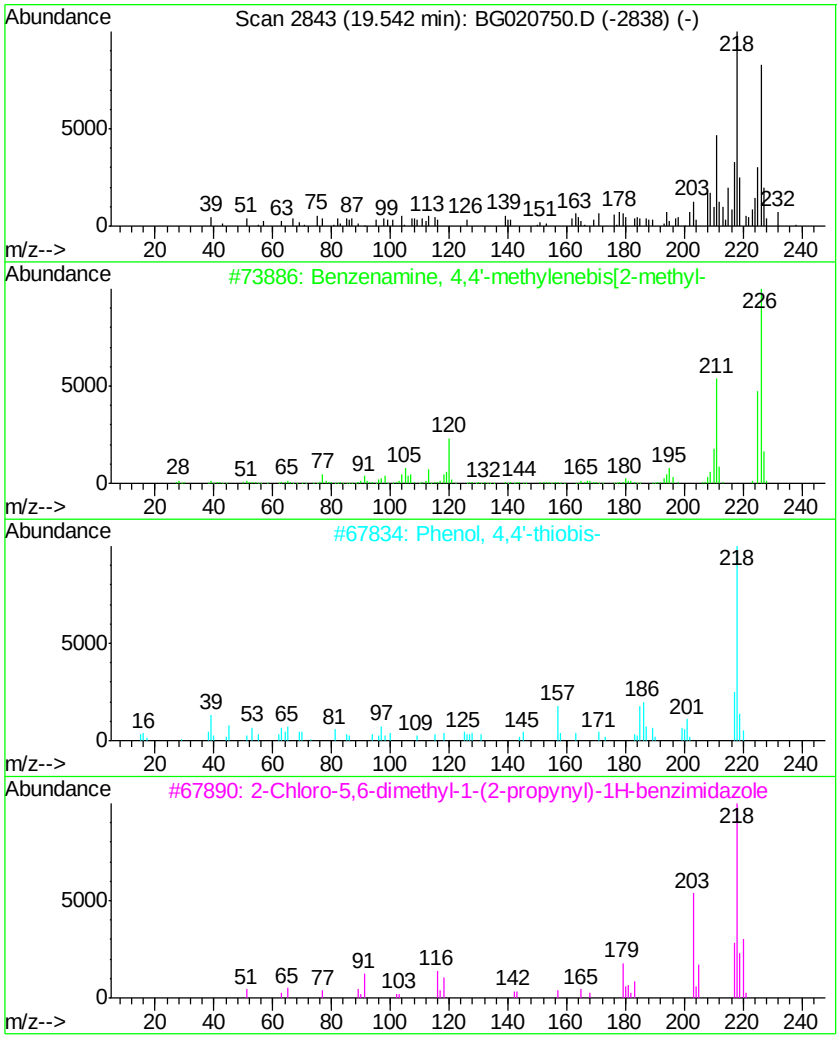
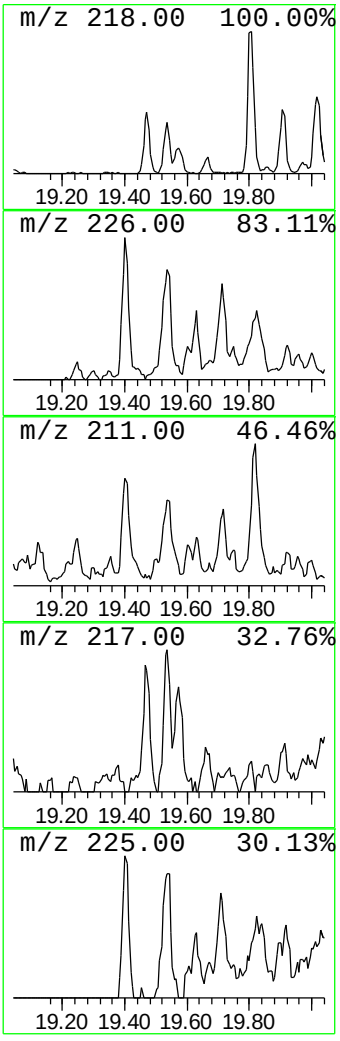
Peak Number 22 unknown-01 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.54	3.87 ng/ul	61349	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 4,4'-methylenebis[2...	226	C15H18N2	000838-88-0	38
2	Phenol, 4,4'-thiobis-	218	C12H10O2S	002664-63-3	38
3	2-Chloro-5,6-dimethyl-1-(2-propy...	218	C12H11ClN2	080276-20-6	35
4	1H-Benzo[a]perimidine	218	C15H10N2	000200-42-0	35
5	1-Hydroxypyrene	218	C16H10O	005315-79-7	35





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Sample : H1101-12 10X
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ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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TIC Integration Parameters: LSCINT.P

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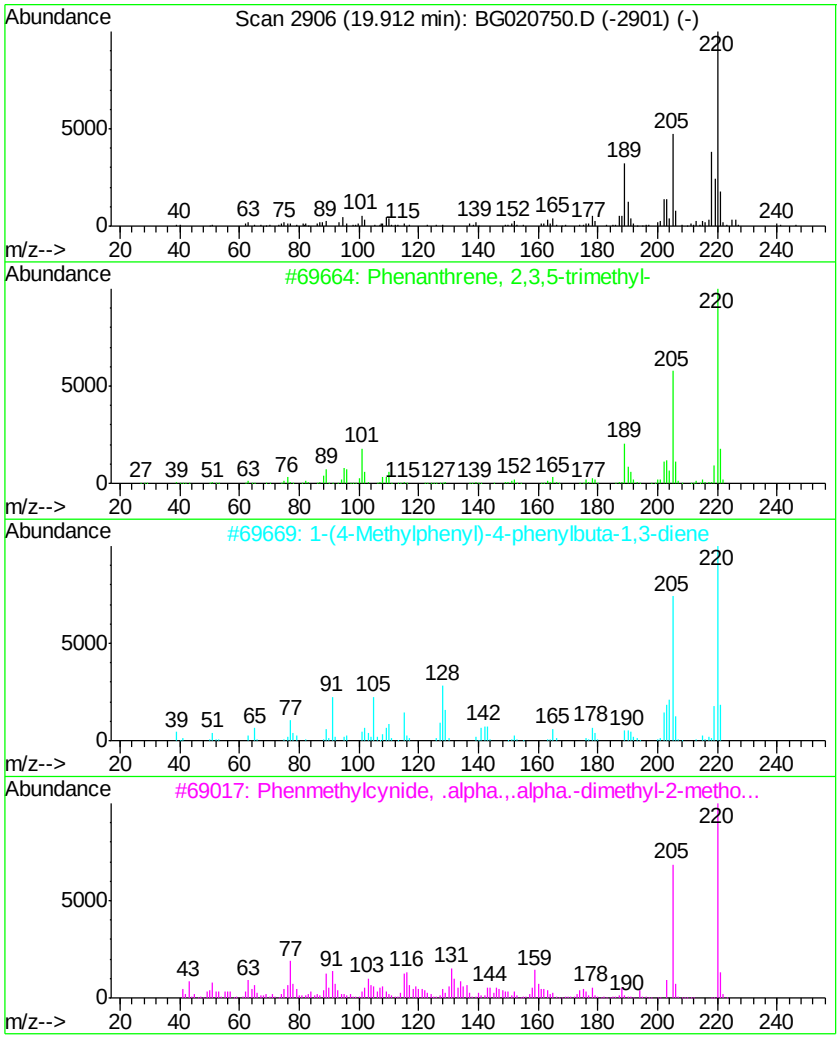
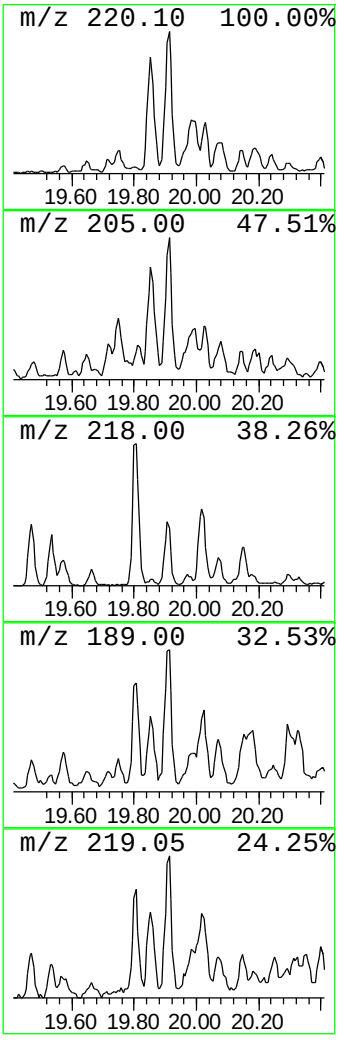
Peak Number 23 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.91	3.26 ng/ul	153653	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	86
2	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	53
3	Phenmethylcynide, .alpha.,.alpha...	220	C11H12N2O3	1000128-94-6	53
4	10-Methylanthracene-9-carboxalde...	220	C16H12O	007072-00-6	49
5	Benzo[b]dihydropyran, 6-hydroxy-...	220	C14H20O2	050442-70-1	43





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Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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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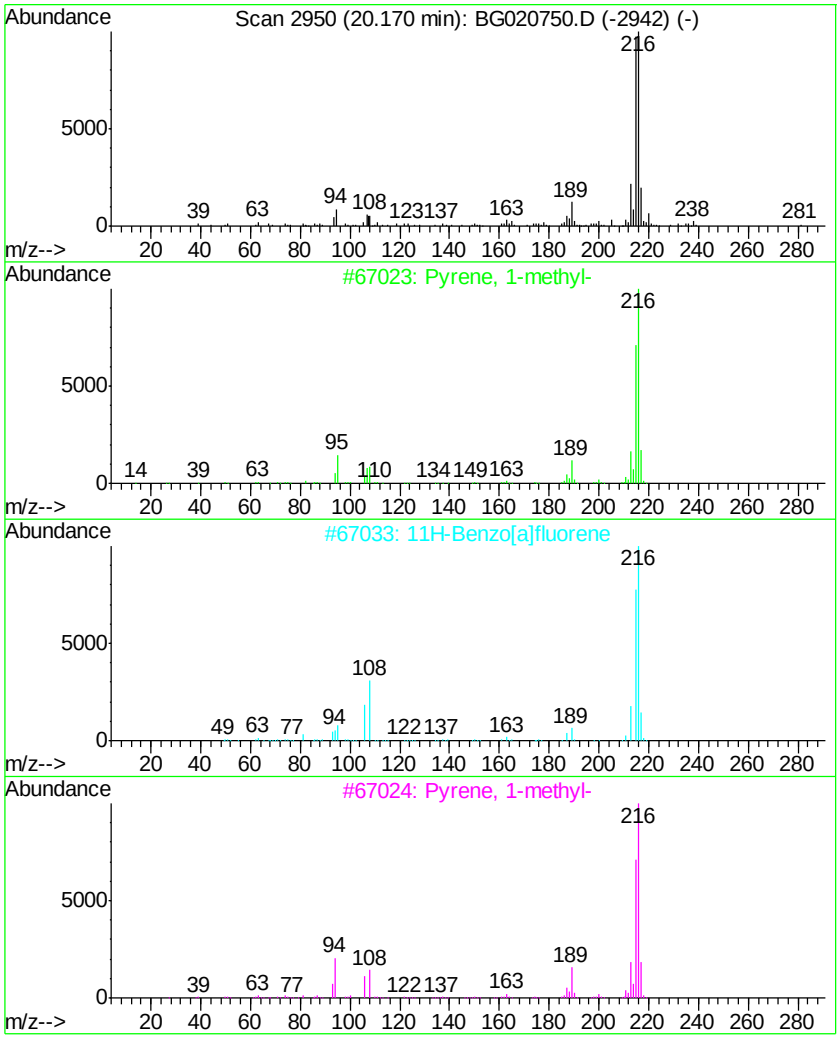
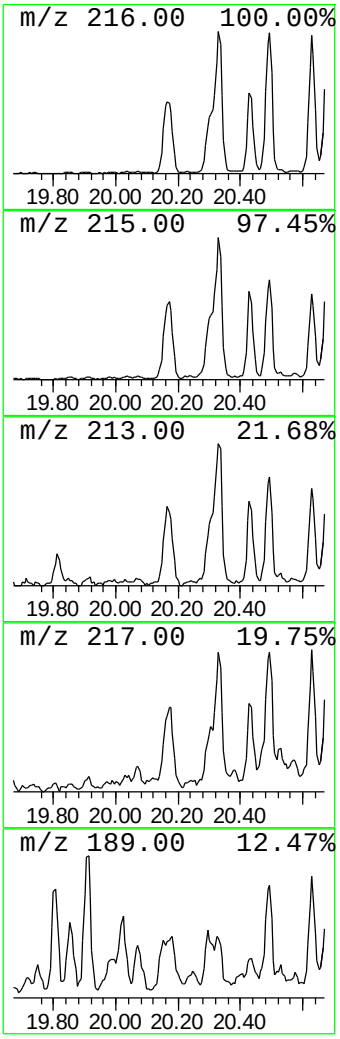
Peak Number 24 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.17	5.02 ng/ul	236374	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	89





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Misc :
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Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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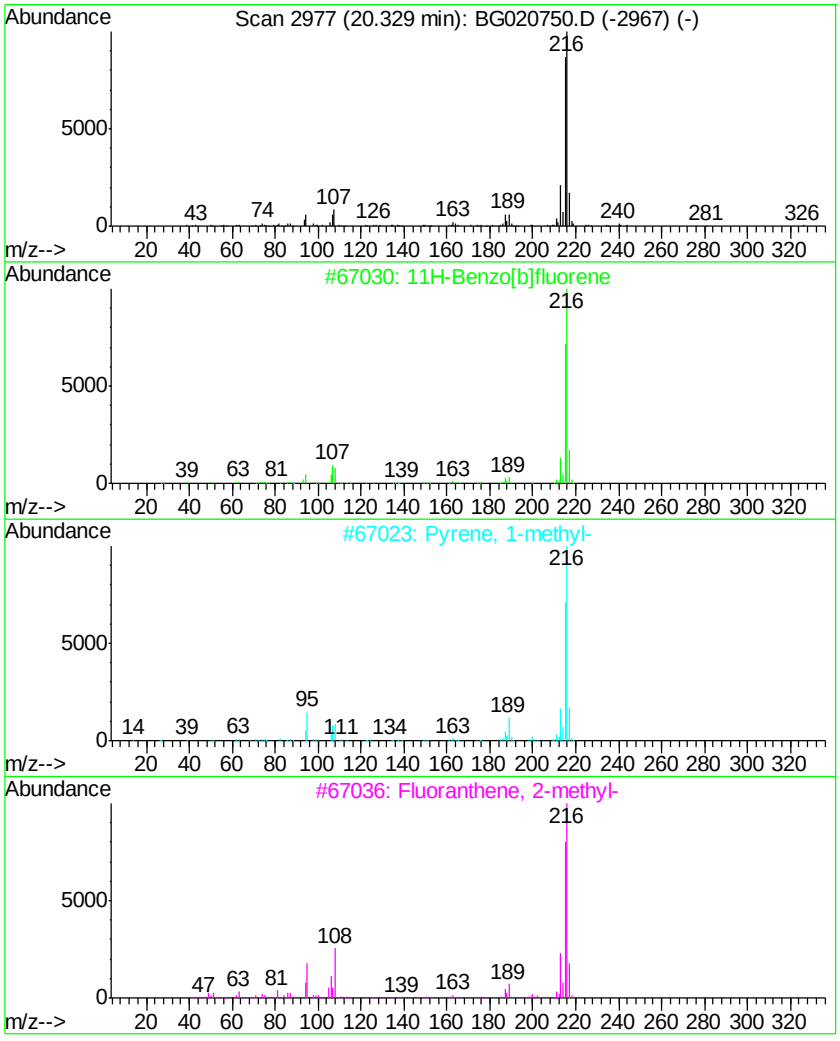
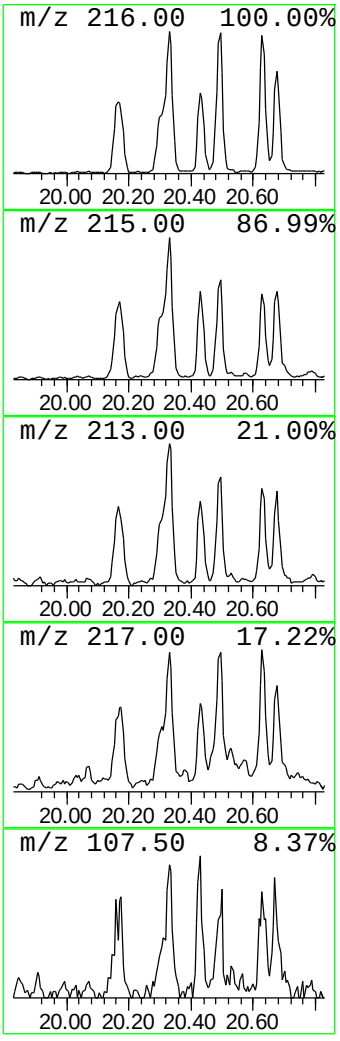
Peak Number 25 11H-Benzo[b]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.33	7.09 ng/ul	334038	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	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87





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Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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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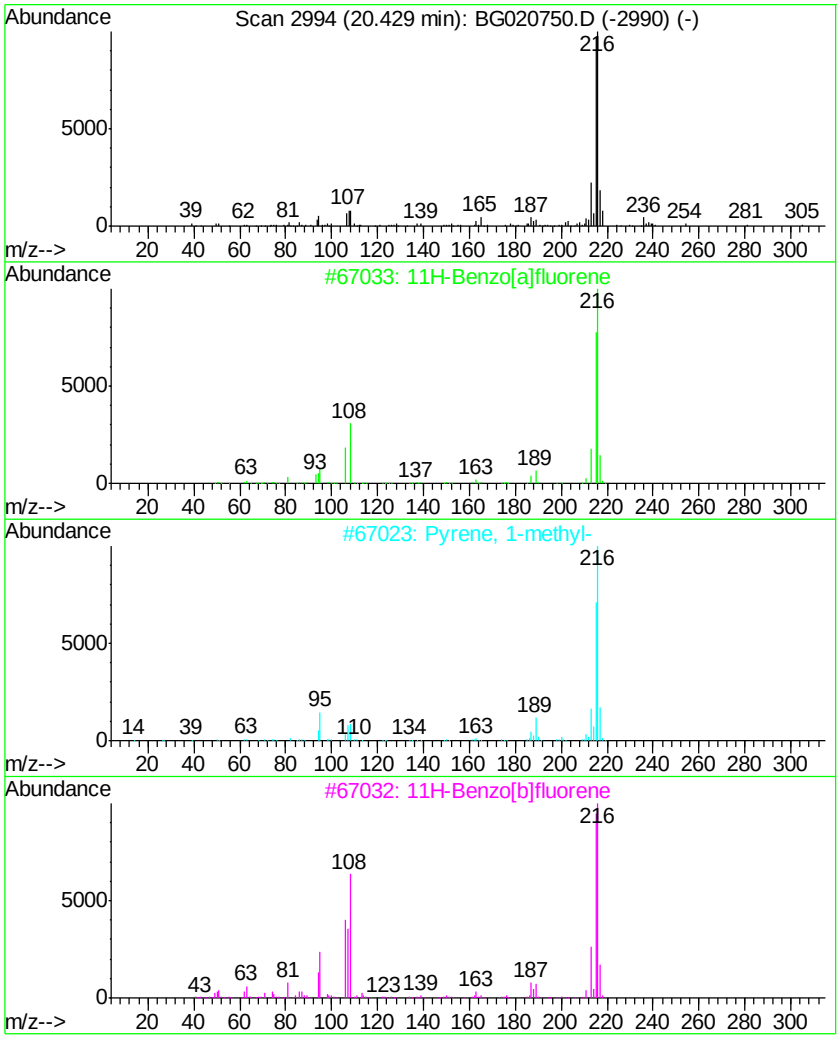
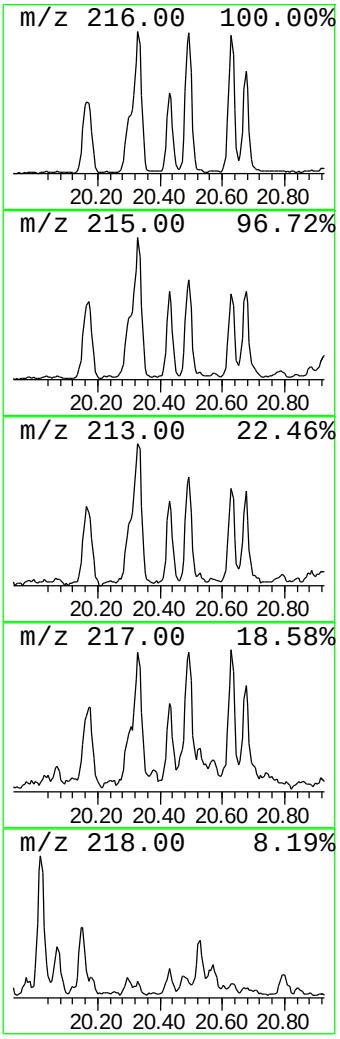
Peak Number 26 11H-Benzo[a]fluorene Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.43	2.29 ng/ul	108030	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	74





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Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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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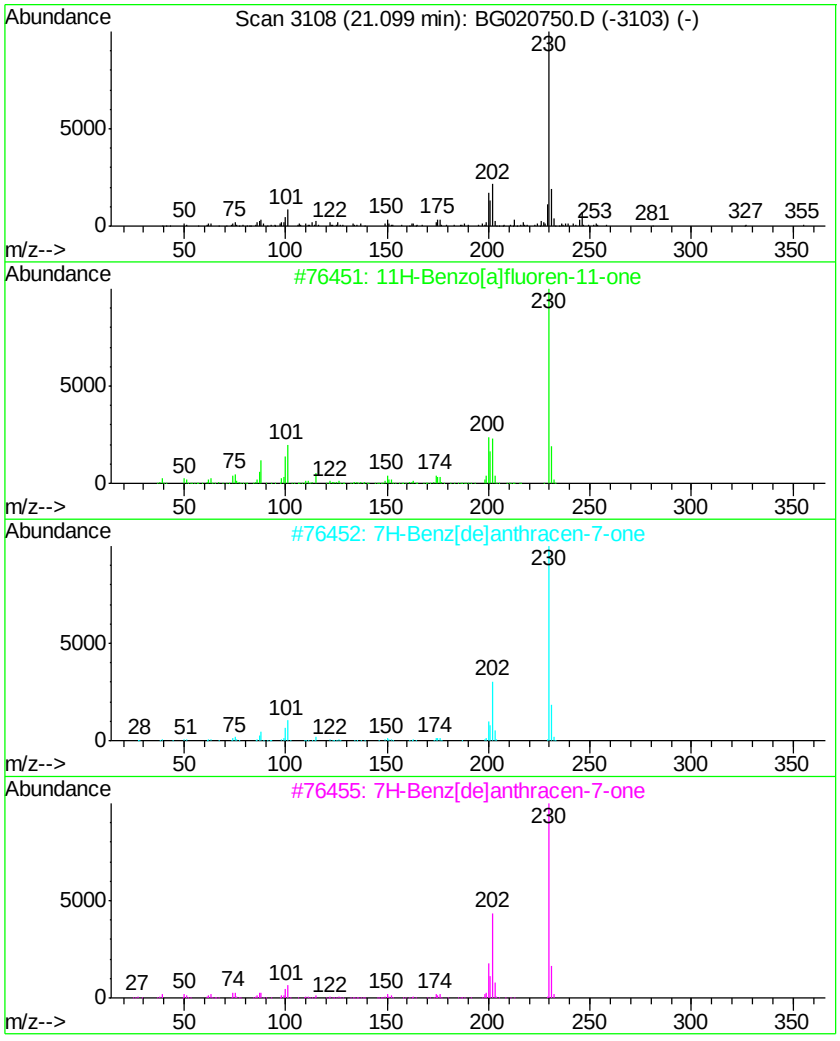
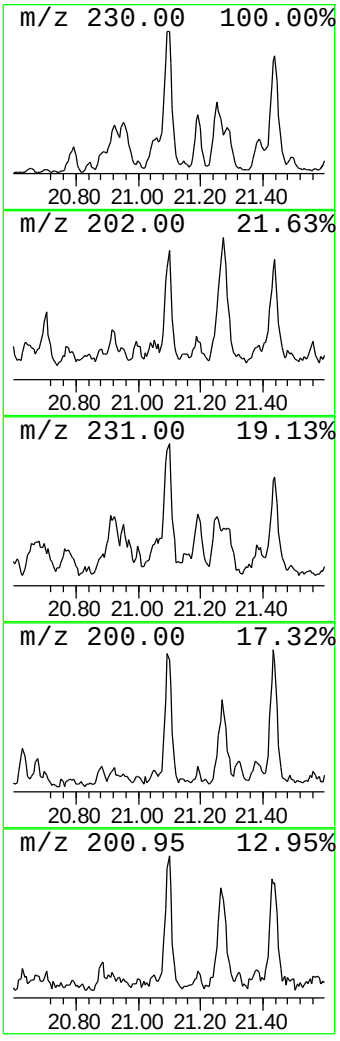
Peak Number 30 11H-Benzo[a]fluoren-11-one Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.10	3.09 ng/ul	145513	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	83
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	76
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64
5	p-Terphenyl	230	C18H14	000092-94-4	59





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Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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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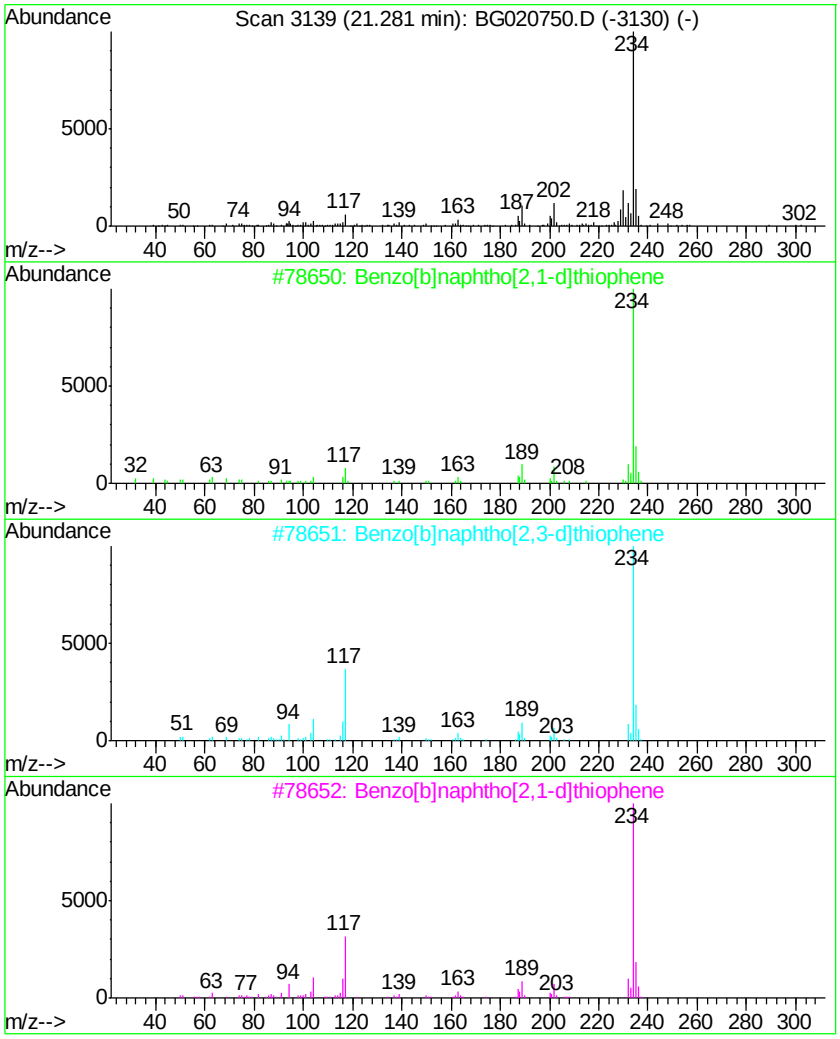
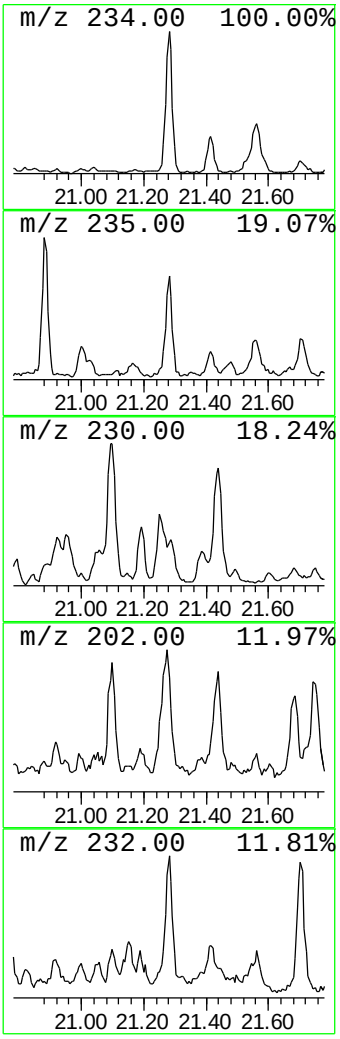
Peak Number 31 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.28	5.37 ng/ul	253012	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	93
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	90
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	90
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	87
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	87





Library Search Compound Report

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Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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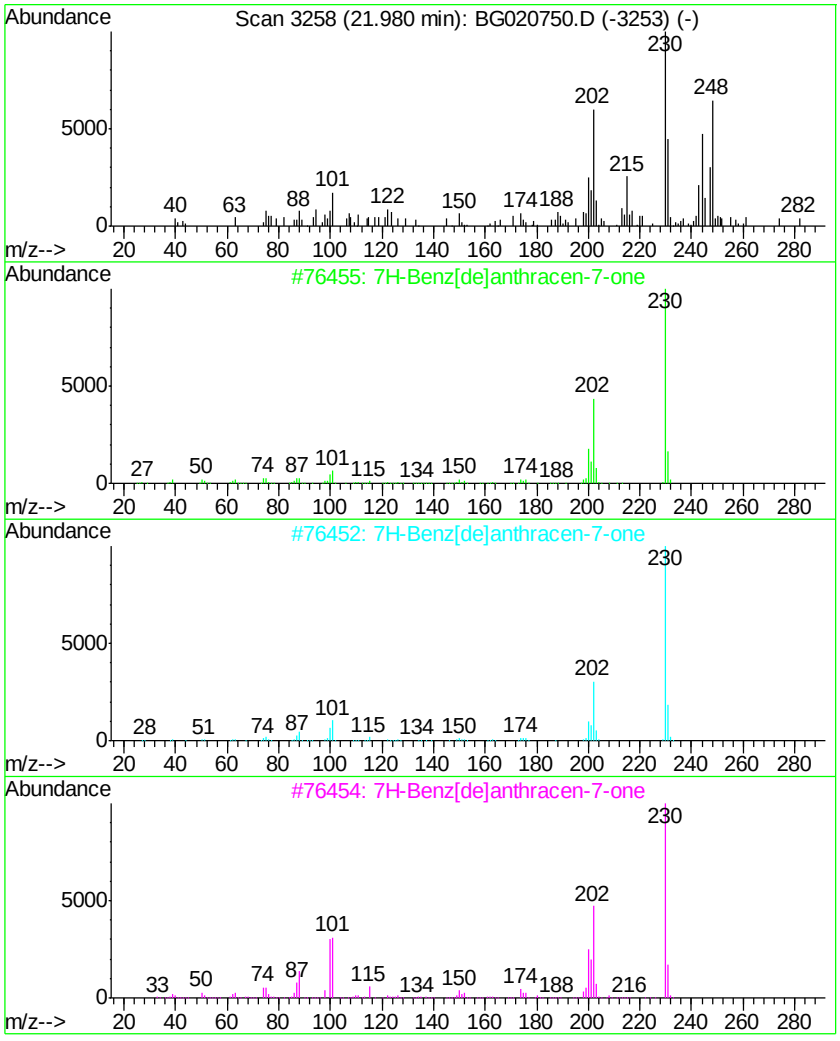
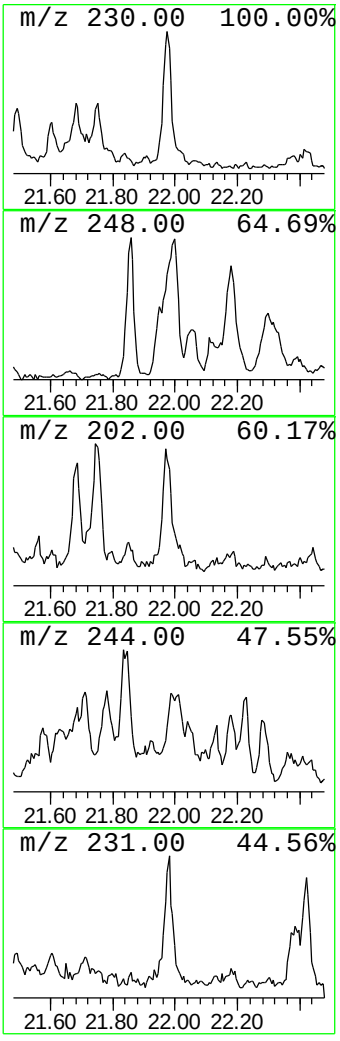
Peak Number 32 7H-Benz[de]anthracen-7-one Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.98	2.12 ng/ul	99989	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	62
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	60
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	46
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	41
5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	30





Library Search Compound Report

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Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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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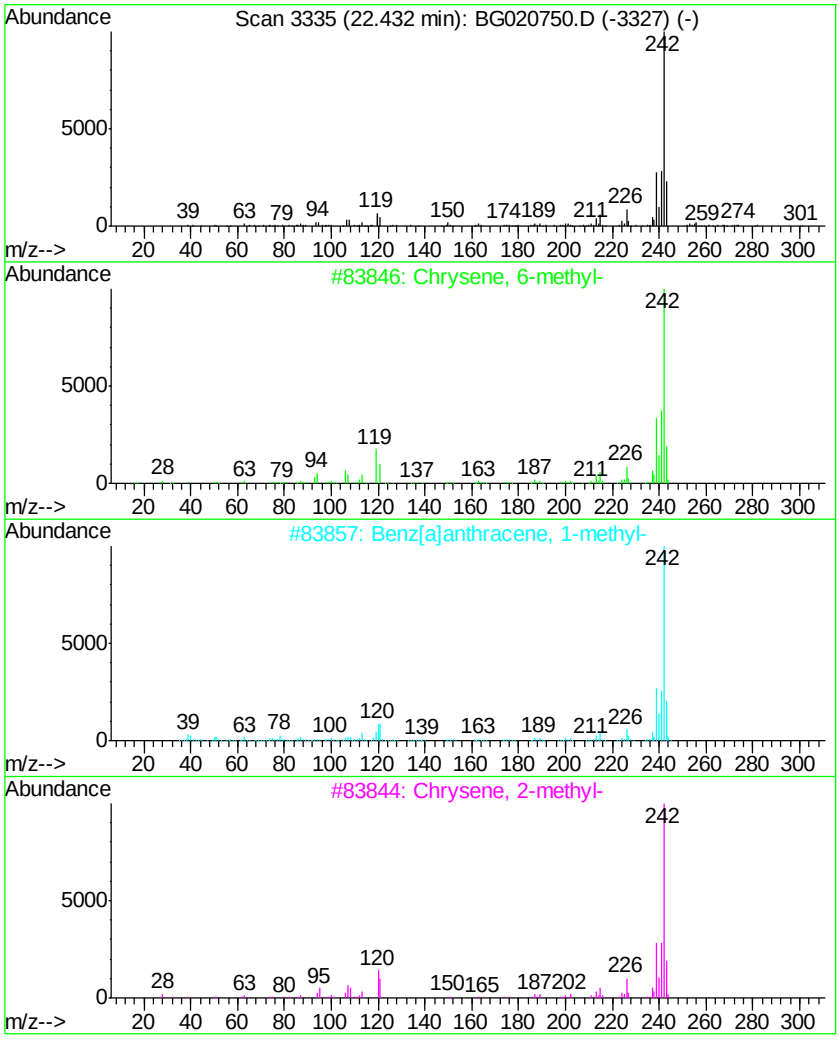
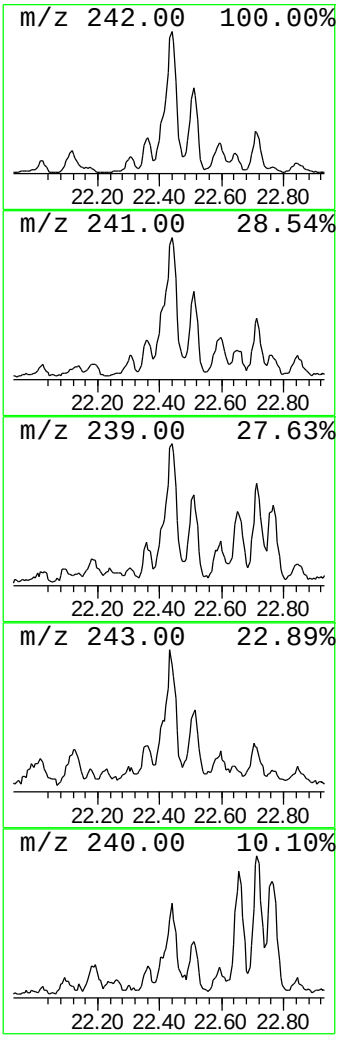
Peak Number 33 Chrysene, 6-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.43	5.44 ng/ul	256160	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 6-methyl-	242	C19H14	001705-85-7	93
2	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	93
3	Chrysene, 2-methyl-	242	C19H14	003351-32-4	91
4	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	91
5	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	91





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Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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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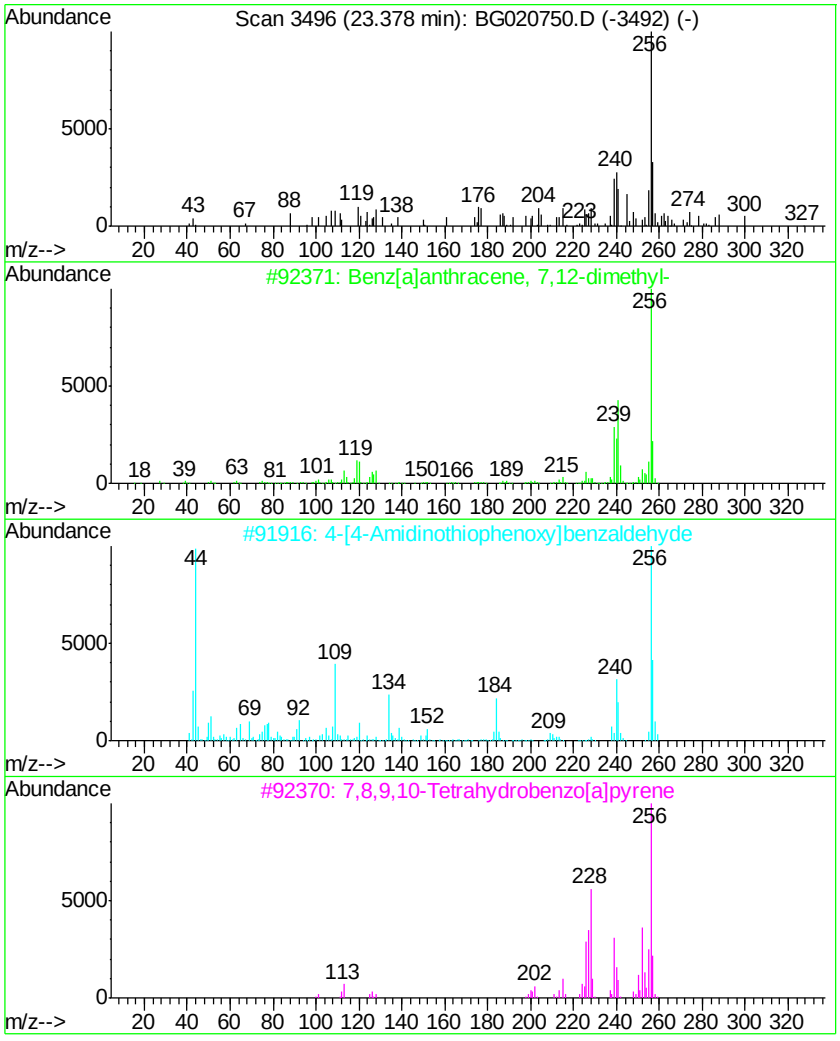
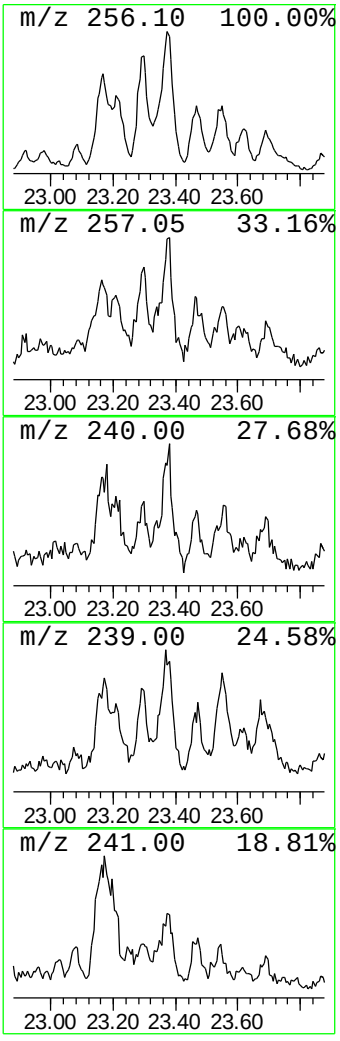
Peak Number 35 Benz[a]anthracene, 7,12-dim... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.38	3.44 ng/ul	70205	Perylene-d12	24.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	64
2	4-[4-Amidinothiophenoxy]benzalde...	256	C14H12N2OS	1000212-31-3	53
3	7,8,9,10-Tetrahydrobenzo[a]pyrene	256	C20H16	017750-93-5	50
4	Benzene, 1,1',1''-(1-ethenyl-2-y...	256	C20H16	000058-72-0	47
5	Benz[a]anthracene, 1,12-dimethyl-	256	C20H16	000313-74-6	47





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Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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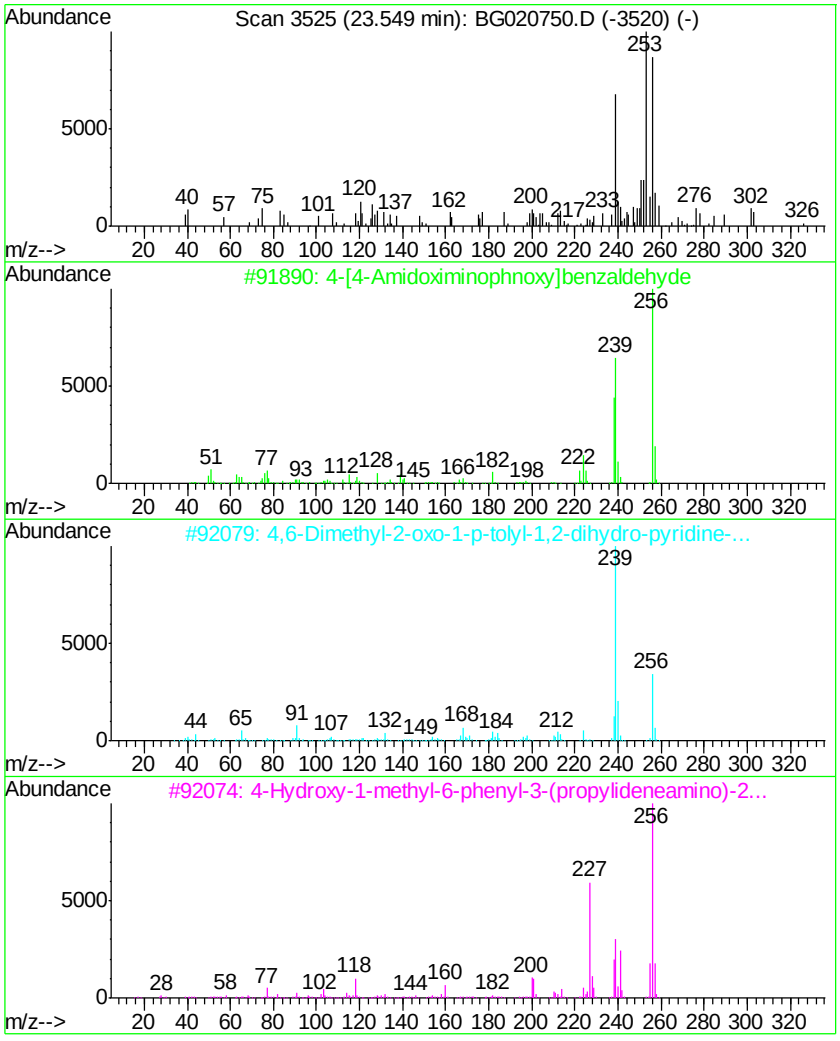
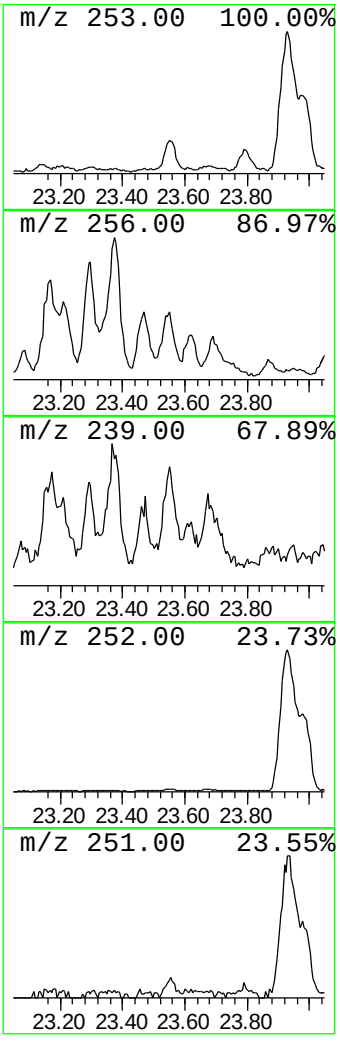
Peak Number 36 unknown-02 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.55	2.66 ng/ul	54204	Perylene-d12	24.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-[4-Amidoximinophnoxy]benzaldehyde	256	C14H12N2O3	1000212-42-7	30
2	4,6-Dimethyl-2-oxo-1-p-tolyl-1,2...	256	C15H16N2O2	024518-23-8	27
3	4-Hydroxy-1-methyl-6-phenyl-3-(p...	256	C15H16N2O2	1000239-66-9	25
4	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	22
5	[2](1,4)Naphthaleno[2](2,6)pyraz...	256	C18H12N2	100762-12-7	18





Library Search Compound Report

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ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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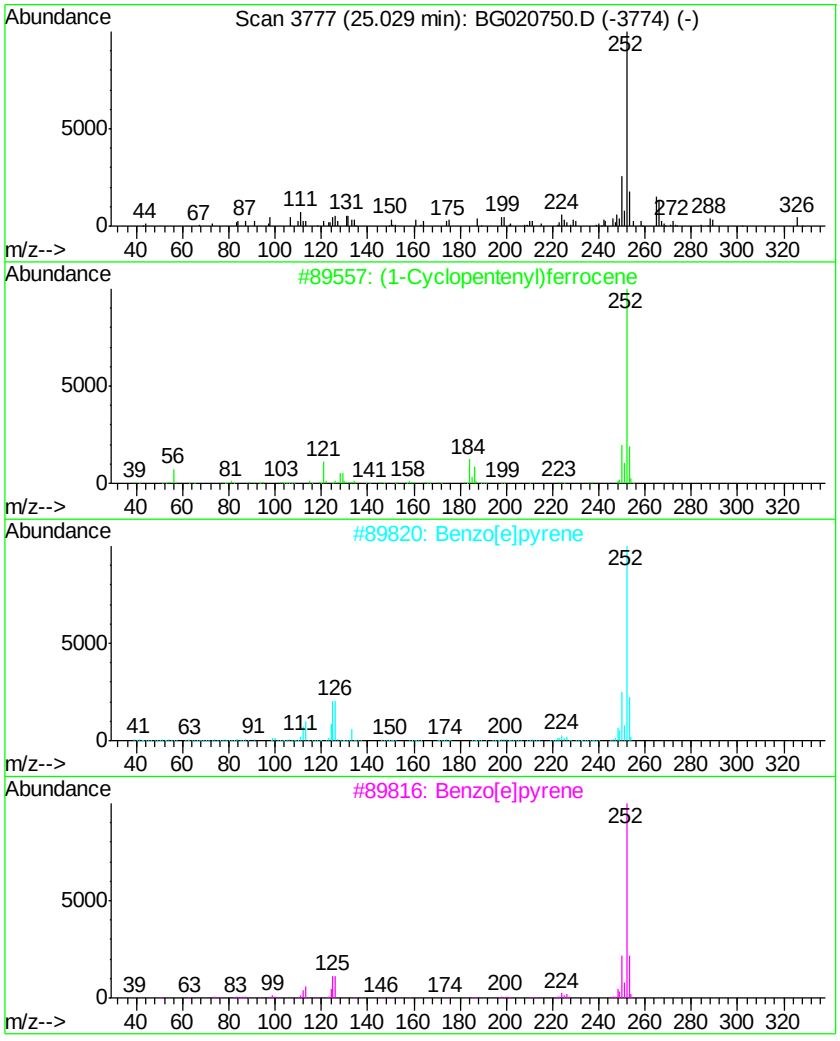
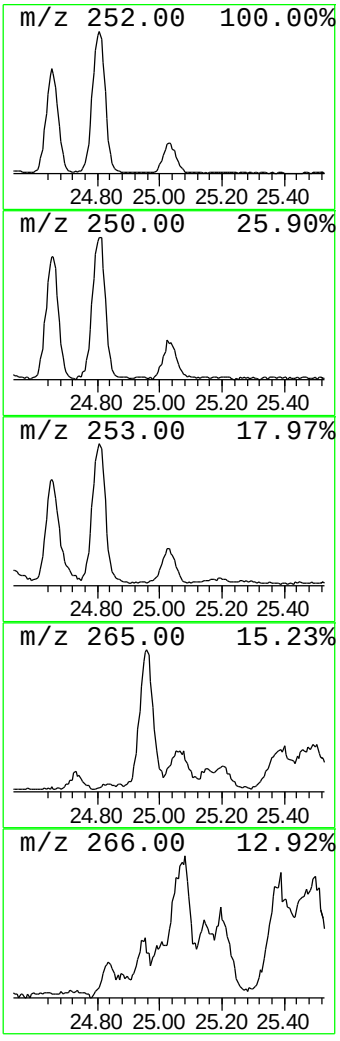
Peak Number 39 (1-Cyclopentenyl)ferrocene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.03	7.07 ng/ul	144314	Perylene-d12	24.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1-Cyclopentenyl)ferrocene	252	C15H16Fe	012260-67-2	59
2	Benzo[e]pyrene	252	C20H12	000192-97-2	58
3	Benzo[e]pyrene	252	C20H12	000192-97-2	58
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	58
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	58





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Sample : H1101-12 10X
Misc :
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Instrument : BNA_G
ClientSampleId : BC9F3

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Quant Title : SVOA CALIBRATION

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

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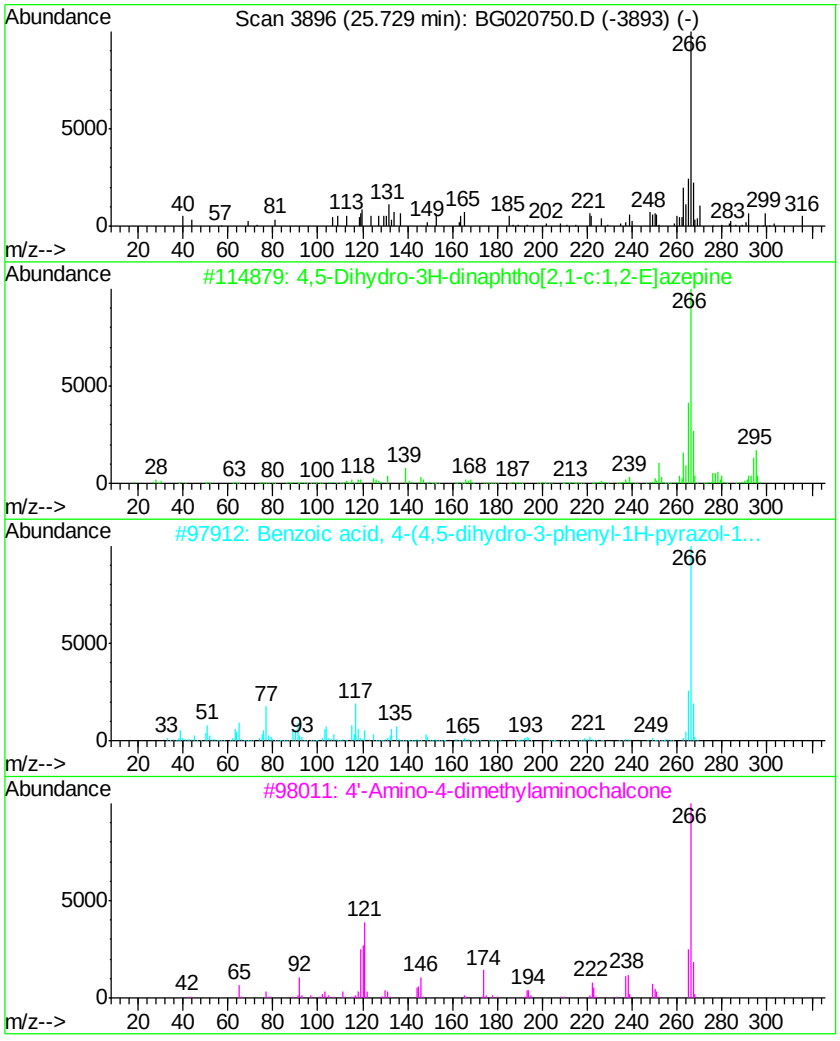
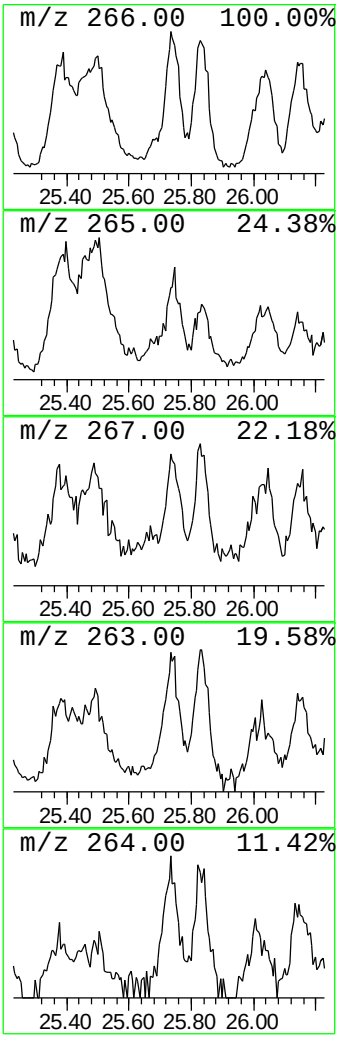
Peak Number 40 4,5-Dihydro-3H-dinaphtho[2,... Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.73	2.25 ng/ul	45852	Perylene-d12	24.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	58
2	Benzoic acid, 4-(4,5-dihydro-3-p...	266	C16H14N2O2	026192-74-5	53
3	4'-Amino-4-dimethylaminochalcone	266	C17H18N2O	025870-72-8	50
4	6-Ethylphenazine-1-carboxylic ac...	266	C16H14N2O2	261351-38-6	50
5	Indole, 3-methyl-2-(4-methyl-3-n...	266	C16H14N2O2	311765-55-6	50





Tentatively Identified Compound (LSC) summary

Data Path : V:\HPCHEM1\BNA_G\Data\BG011516\
Data File : BG020750.D
Acq On : 15 Jan 2016 13:24
Operator : SJ/IZ
Sample : H1101-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F3

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
9H-Fluorene, 2-me...	16.73	3.3	ng/ul	52055	4	17.43	317038	20.0
9H-Fluoren-9-one	17.08	2.3	ng/ul	35843	4	17.43	317038	20.0
Dibenzothiophene	17.24	3.3	ng/ul	52469	4	17.43	317038	20.0
Dibenzothiophene,...	18.01	5.0	ng/ul	79579	4	17.43	317038	20.0
Anthracene, 1-met...	18.43	3.3	ng/ul	52811	4	17.43	317038	20.0
Phenanthrene, 2-m...	18.50	18.3	ng/ul	289356	4	17.43	317038	20.0
1H-Cyclopropa[l]p...	18.53	8.5	ng/ul	135151	4	17.43	317038	20.0
2,8-Dimethyldiben...	18.70	2.4	ng/ul	38221	4	17.43	317038	20.0
1,2,4,8-Tetrameth...	18.80	8.0	ng/ul	126595	4	17.43	317038	20.0
9,10-Anthracenedione	18.85	11.1	ng/ul	176338	4	17.43	317038	20.0
Phenanthrene, 2,5...	19.04	7.9	ng/ul	125134	4	17.43	317038	20.0
9,10-Dimethylanth...	19.21	18.6	ng/ul	295473	4	17.43	317038	20.0
di-p-Tolylacetylene	19.27	6.2	ng/ul	98081	4	17.43	317038	20.0
Phenanthrene, 3,6...	19.30	3.0	ng/ul	47768	4	17.43	317038	20.0
[14]Annulene, 1,6...	19.36	9.7	ng/ul	153203	4	17.43	317038	20.0
unknown-01	19.54	3.9	ng/ul	61349	4	17.43	317038	20.0
Phenanthrene, 2,3...	19.91	3.3	ng/ul	153653	5	21.70	942352	20.0
Pyrene, 1-methyl-	20.17	5.0	ng/ul	236374	5	21.70	942352	20.0
11H-Benzo[b]fluorene	20.33	7.1	ng/ul	334038	5	21.70	942352	20.0
11H-Benzo[a]fluorene	20.43	2.3	ng/ul	108030	5	21.70	942352	20.0
11H-Benzo[a]fluor...	21.10	3.1	ng/ul	145513	5	21.70	942352	20.0
Benzo[b]naphtho[2...	21.28	5.4	ng/ul	253012	5	21.70	942352	20.0
7H-Benz[de]anthra...	21.98	2.1	ng/ul	99989	5	21.70	942352	20.0
Chrysene, 6-methyl-	22.43	5.4	ng/ul	256160	5	21.70	942352	20.0
Benz[a]anthracene...	23.38	3.4	ng/ul	70205	6	24.96	408309	20.0
unknown-02	23.55	2.7	ng/ul	54204	6	24.96	408309	20.0
(1-Cyclopentenyl)...	25.03	7.1	ng/ul	144314	6	24.96	408309	20.0
4,5-Dihydro-3H-di...	25.73	2.3	ng/ul	45852	6	24.96	408309	20.0