LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

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_M\METHODS\SOM02.2-EPA-BM080415.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	6.722	680	686	695	rVB	118026	183265	1.20%	0.121%
2	6.863	705	710	718	rBB	89284	133557	0.87%	0.088%
3	7.057	738	743	750	rBV	123039	195017	1.27%	0.128%
4	7.522	816	822	830	rBB	521393	807505	5.27%	0.531%
5	8.257	941	947	955	rBV	143165	220313	1.44%	0.145%
6	8.686	1014	1020	1030	rBB	107795	172458	1.12%	0.113%
7	9.410	1137	1143	1149	rBB	90829	143691	0.94%	0.095%
8	9.957	1230	1236	1244	rBV	137042	229335	1.50%	0.151%
9	10.316	1290	1297	1302	rBV	641659	1076200	7.02%	0.708%
10	10.363	1302	1305	1312	rVB	193142	286209	1.87%	0.188%
11	13.616	1853	1858	1862	rVV	225108	298357	1.95%	0.196%
12	13.892	1899	1905	1908	rBV	255706	418036	2.73%	0.275%
13	13.921	1908	1910	1922	rVB	257526	330253	2.15%	0.217%
14	14.204	1949	1958	1964	rBV2	857636	1298365	8.47%	0.854%
15	14.268	1964	1969	1977	rVV	569246	818872	5.34%	0.539%
16	14.604	2020	2026	2035	rVV	226945	331703	2.16%	0.218%
17	15.204	2118	2128	2132	rVV	319027	453633	2.96%	0.298%
18	15.257	2132	2137	2148	rVB	485269	693000	4.52%	0.456%
19	15.698	2208	2212	2220	rVV	82472	159349	1.04%	0.105%
20	15.939	2241	2253	2260	rVB5	62115	125451	0.82%	0.083%
21	16.262	2296	2308	2313	rBV4	80621	199946	1.30%	0.132%
22	16.621	2364	2369	2375	rVB	168357	238104	1.55%	0.157%
23	16.709	2375	2384	2388	rVV2	112495	211126	1.38%	0.139%
24	16.774	2388	2395	2405	rVB	270091	427460	2.79%	0.281%
25	16.962	2420	2427	2430	rBV	929726	1430614	9.33%	0.941%
26	17.015	2430	2436	2440	rVV	5180717	7287183	47.53%	4.793%
27	17.062	2440	2444	2446	rVV	406077	553174	3.61%	0.364%
28	17.098	2446	2450	2455	rVV	1222068	1601752	10.45%	1.054%
29	17.374	2492	2497	2506	rVB	485390	710942	4.64%	0.468%
30	17.474	2511	2514	2521	rVB3	93790	127778	0.83%	0.084%
31	17.539	2521	2525	2534	rVB4	122280	209626	1.37%	0.138%
32	17.680	2545	2549	2557	rVB	71453	135568	0.88%	0.089%
33	17.833	2566	2575	2579	rBV	464738	707573	4.61%	0.465%
34	17.886	2579	2584	2588	rVB	682162	911561	5.94%	0.600%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

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_M\METHODS\SOM02.2-EPA-BM080415.M
Title : SVOA CALIBRATION

35	17.962	2593	2597	2603	rVB	221202	321976	2.10%	0.212%
36	18.033	2603	2609	2613	rBV3	990523	1664303	10.85%	1.095%
37	18.068	2613	2615	2623	rVB	315039	362781	2.37%	0.239%
38	18.339	2656	2661	2666	rVV	450526	622444	4.06%	0.409%
39	18.398	2666	2671	2678	rVB	315882	464582	3.03%	0.306%
40	18.586	2695	2703	2708	rBV2	133856	248537	1.62%	0.163%
41	18.639	2708	2712	2715	rVV	124888	164697	1.07%	0.108%
42	18.680	2715	2719	2723	rVB3	93274	137462	0.90%	0.090%
43	18.762	2728	2733	2738	rBV	256374	473185	3.09%	0.311%
44	18.827	2738	2744	2747	rVV3	138588	258145	1.68%	0.170%
45	18.921	2753	2760	2765	rBV2	296774	565579	3.69%	0.372%
46	19.051	2773	2782	2786	rBV	9179948	13945618	90.95%	9.173%
47	19.133	2793	2796	2801	rVB	151836	199019	1.30%	0.131%
48	19.186	2801	2805	2809	rBV	141851	183532	1.20%	0.121%
49	19.280	2810	2821	2825	rBV	380140	742690	4.84%	0.489%
50	19.415	2832	2844	2850	rBV	7915745	15333309	100.00%	10.086%
51	19.468	2850	2853	2860	rVB2	351879	523469	3.41%	0.344%
52	19.580	2866	2872	2878	rBV	446214	614485	4.01%	0.404%
53	19.645	2878	2883	2889	rVB	306111	459308	3.00%	0.302%
54	19.721	2890	2896	2897	rBV	419491	592966	3.87%	0.390%
55	19.786	2903	2907	2910	rBV	199818	235106	1.53%	0.155%
56	19.862	2915	2920	2922	rBV3	374996	631966	4.12%	0.416%
57	19.903	2922	2927	2931	rVB	1301621	1871684	12.21%	1.231%
58	20.003	2939	2944	2947	rBV	1127295	1451824	9.47%	0.955%
59	20.056	2947	2953	2956	rVV2	618103	1044317	6.81%	0.687%
60	20.092	2956	2959	2963	rVB	450367	538211	3.51%	0.354%
61	20.133	2963	2966	2972	rVB2	118575	149529	0.98%	0.098%
62	20.197	2973	2977	2981	rBV	365639	484732	3.16%	0.319%
63	20.245	2981	2985	2989	rVB	436665	539012	3.52%	0.355%
64	20.527	3029	3033	3036	rVB2	191071	255261	1.66%	0.168%
65	20.609	3043	3047	3051	rBV2	185279	328810	2.14%	0.216%
66	20.656	3051	3055	3060	rVB	538944	735336	4.80%	0.484%
67	20.815	3077	3082	3085	rBV2	1057916	1423096	9.28%	0.936%
68	20.850	3085	3088	3092	rVV	844338	1029528	6.71%	0.677%
69	20.892	3092	3095	3100	rVV2	811812	1320882	8.61%	0.869%
70	20.956	3103	3106	3112	rVB	650046	830184	5.41%	0.546%
71	21.056	3116	3123	3131	rBV	350937	814593	5.31%	0.536%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

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_M\METHODS\SOM02.2-EPA-BM080415.M
Title : SVOA CALIBRATION

72	21.168	3132	3142	3147	rBV2	6436145	12705152	82.86%	8.357%
73	21.221	3147	3151	3155	rVB	5587157	7177285	46.81%	4.721%
74	21.292	3160	3163	3165	rBV2	157407	173471	1.13%	0.114%
75	21.327	3165	3169	3175	rVV	1299539	1727516	11.27%	1.136%
76	21.386	3175	3179	3182	rVV3	386936	630549	4.11%	0.415%
77	21.439	3185	3188	3191	rVV	484095	573108	3.74%	0.377%
78	21.486	3191	3196	3200	rVV2	746147	1193293	7.78%	0.785%
79	21.533	3200	3204	3208	rVB3	187743	270212	1.76%	0.178%
80	21.656	3221	3225	3228	rBV	358177	493422	3.22%	0.325%
81	21.709	3228	3234	3238	rVV	839623	1537910	10.03%	1.012%
82	21.762	3240	3243	3248	rVV	459839	662883	4.32%	0.436%
83	21.827	3251	3254	3257	rVV2	293694	408327	2.66%	0.269%
84	21.862	3257	3260	3264	rVV2	422752	640684	4.18%	0.421%
85	21.909	3264	3268	3270	rVV	609626	924120	6.03%	0.608%
86	21.939	3270	3273	3278	rVV	668424	932837	6.08%	0.614%
87	21.997	3278	3283	3287	rVB2	401887	620845	4.05%	0.408%
88	22.191	3312	3316	3320	rBV4	391401	622182	4.06%	0.409%
89	22.468	3358	3363	3367	rBV2	430543	717162	4.68%	0.472%
90	22.733	3398	3408	3412	rBV	4726877	11943807	77.89%	7.857%
91	22.809	3418	3421	3427	rVB2	233097	428409	2.79%	0.282%
92	22.880	3428	3433	3438	rBV	960158	1427727	9.31%	0.939%
93	23.009	3451	3455	3462	rBV2	232023	521229	3.40%	0.343%
94	23.191	3478	3486	3491	rBV	2607441	5287958	34.49%	3.478%
95	23.297	3495	3504	3509	rVB	4085264	8391728	54.73%	5.520%
96	23.374	3511	3517	3521	rBV	1045688	1980287	12.91%	1.303%
97	23.421	3521	3525	3532	rVB	1530072	2664703	17.38%	1.753%
98	24.215	3656	3660	3672	rVB2	378917	840847	5.48%	0.553%
99	25.603	3884	3896	3903	rVB2	1984388	6393760	41.70%	4.206%
100	26.291	4001	4013	4027	rVB	1516722	5443819	35.50%	3.581%

Sum of corrected areas: 152024366

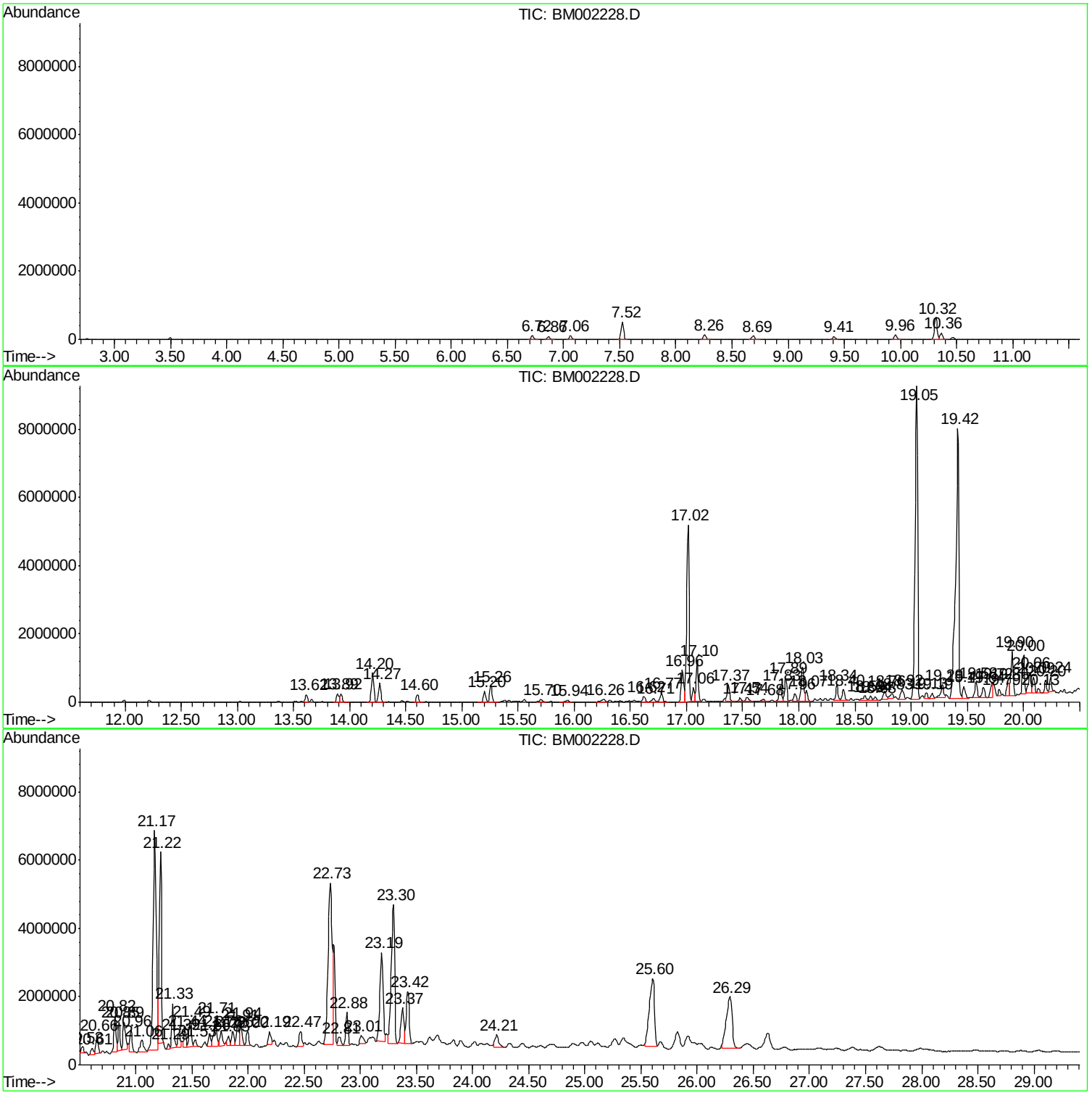
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

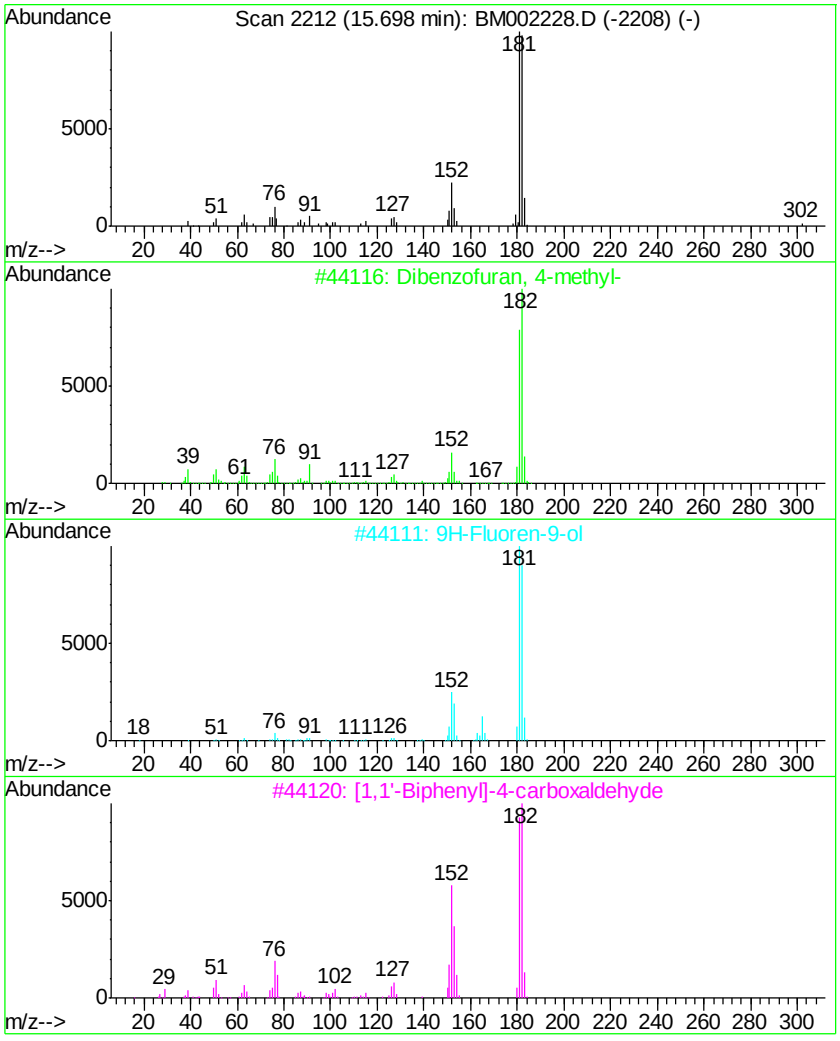
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

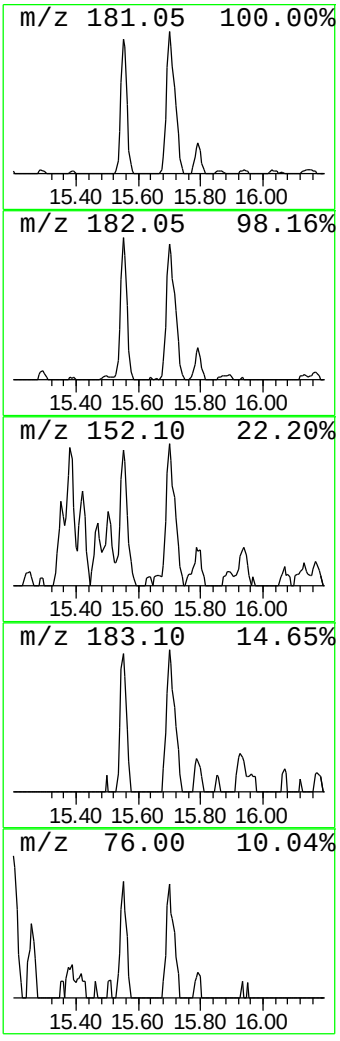
****

Peak Number 1 Dibenzofuran, 4-methyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.70	2.23 ng/ul	159349	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	72
5	Pyrido[2,3-d]indole, 6-methyl-	182	C12H10N2	108349-67-3	72





Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

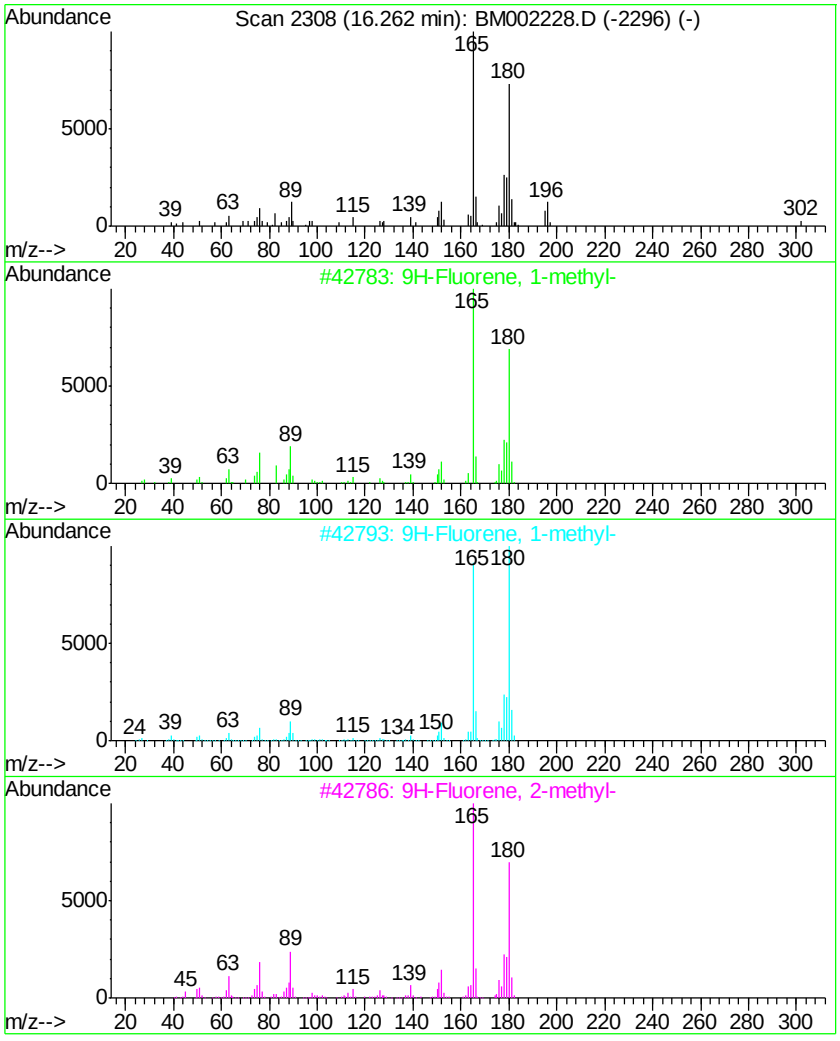
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

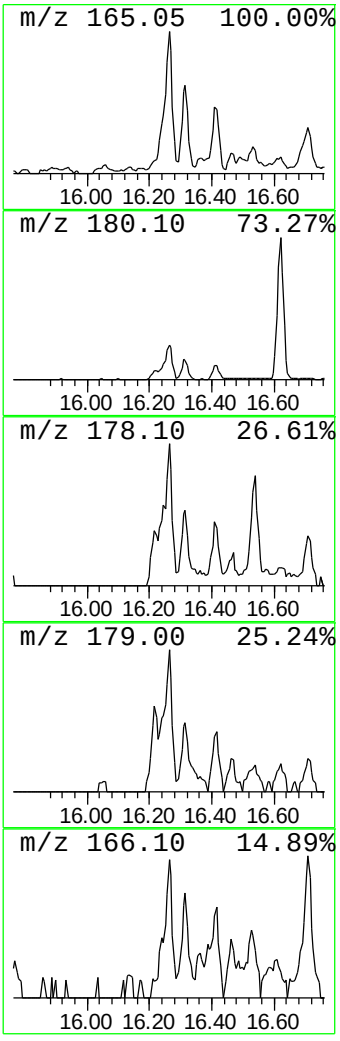
****

Peak Number 2 9H-Fluorene, 1-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.26	2.80 ng/ul	199946	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	94
5	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94





Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

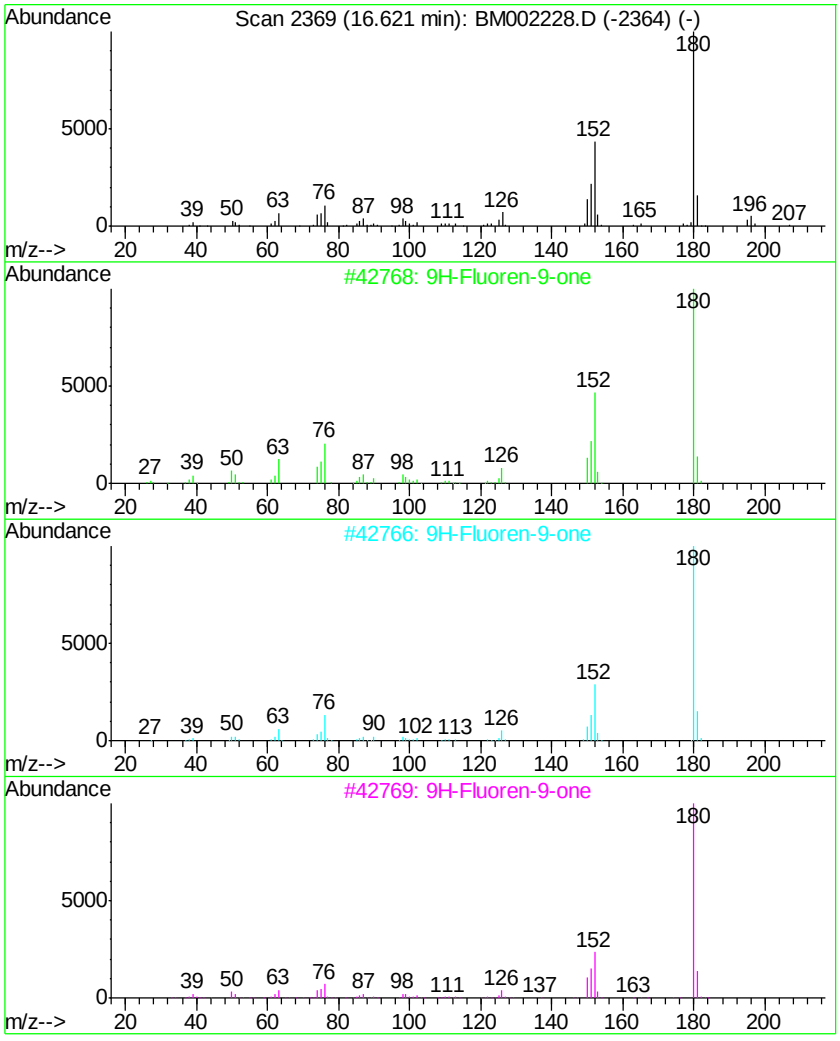
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

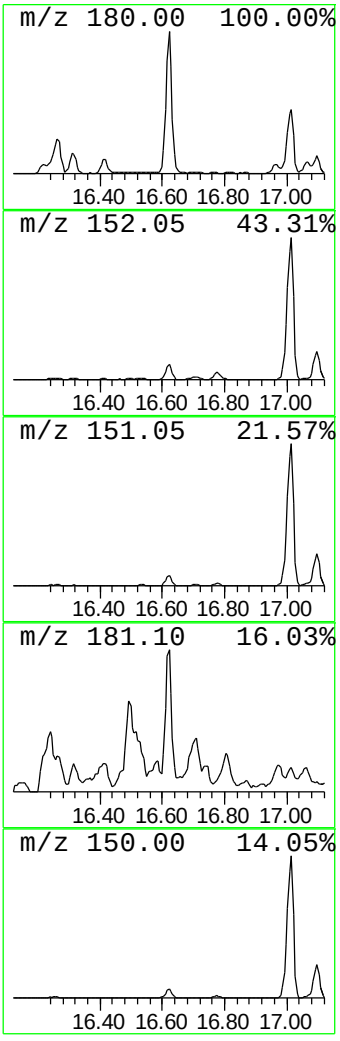
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.62	3.33 ng/ul	238104	Phenanthrene-d10	16.96

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	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	72





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

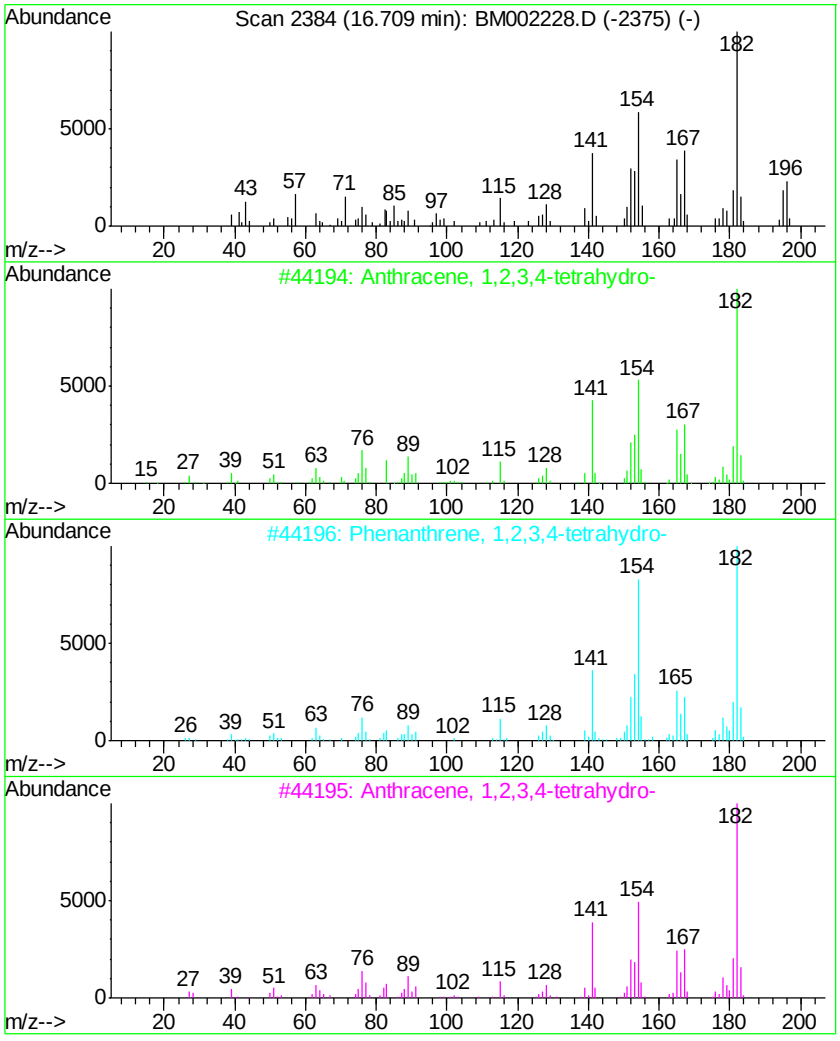
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

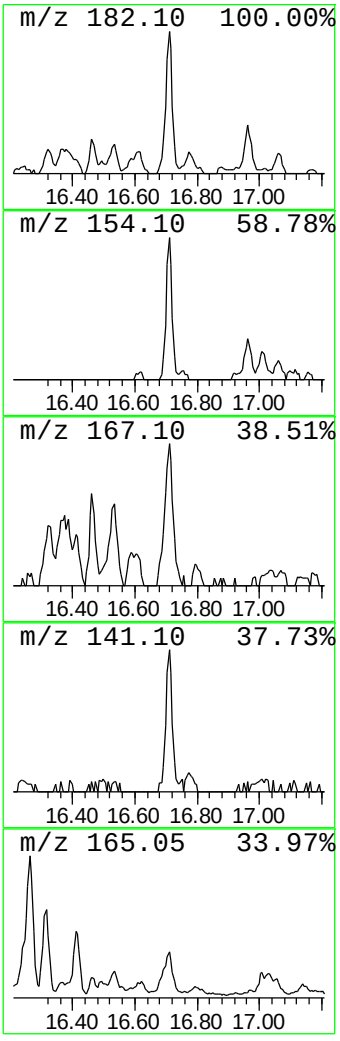
****

Peak Number 4 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.71	2.95 ng/ul	211126	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	96
2	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	95
3	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	90
4	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	70
5	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	60





Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

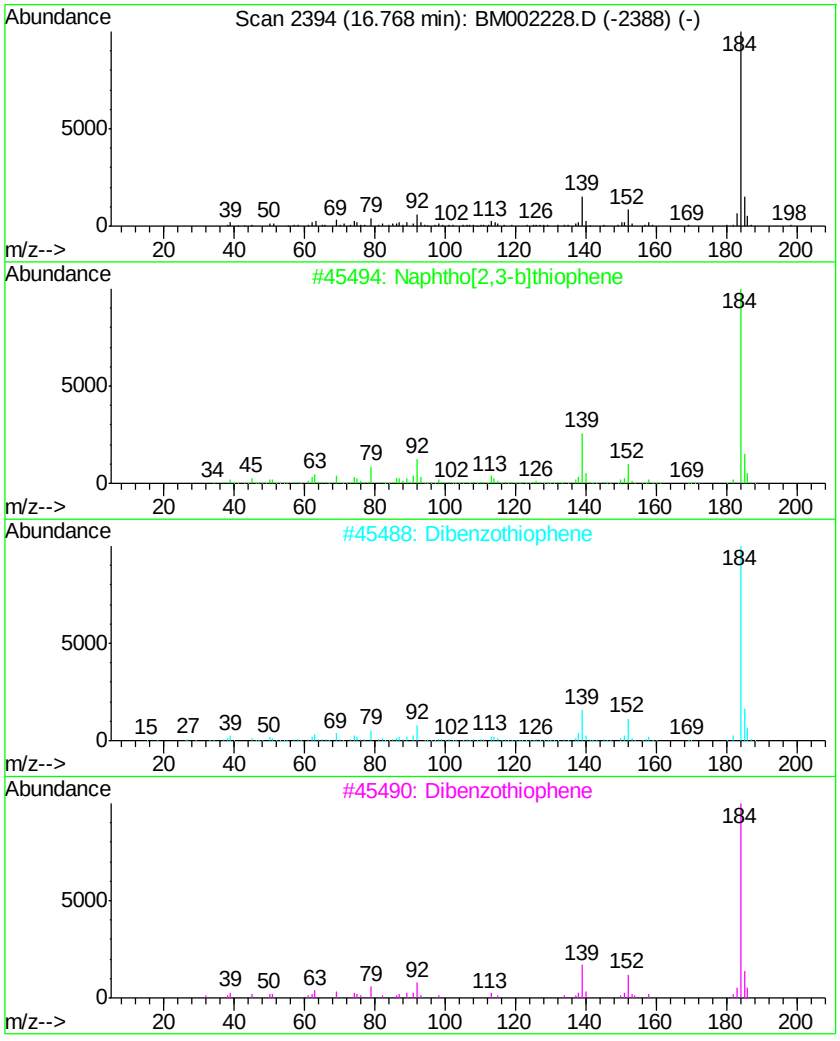
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

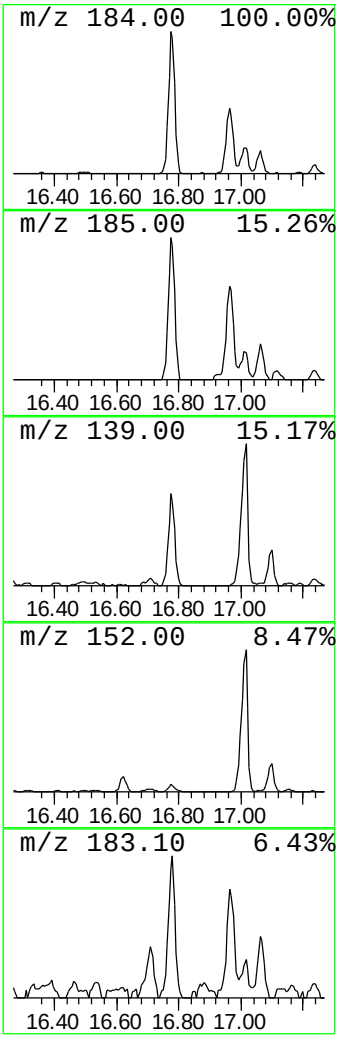
****

Peak Number 5 Naphtho[2,3-b]thiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.77	5.98 ng/ul	427460	Phenanthrene-d10	16.96

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





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Operator : TP/UM
Sample : G3095-11RE
Misc :
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Instrument : BNA_M
ClientSampleId : C01S2RE

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Quant Title : SVOA CALIBRATION

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

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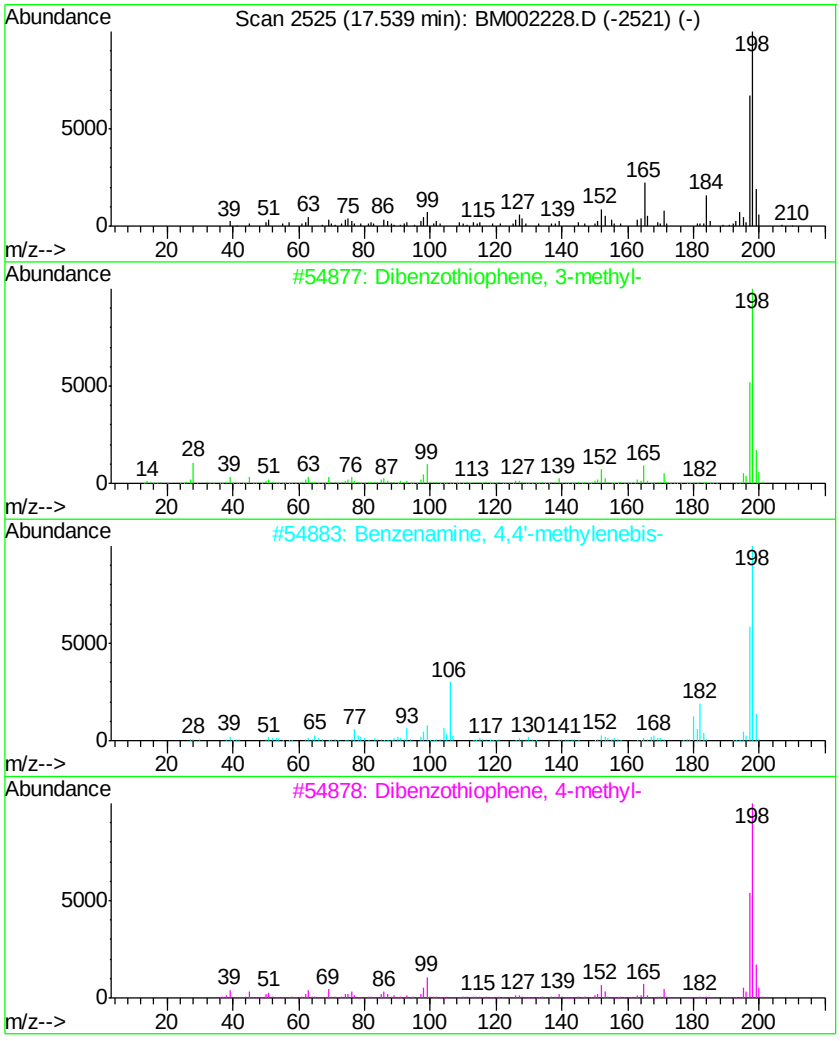
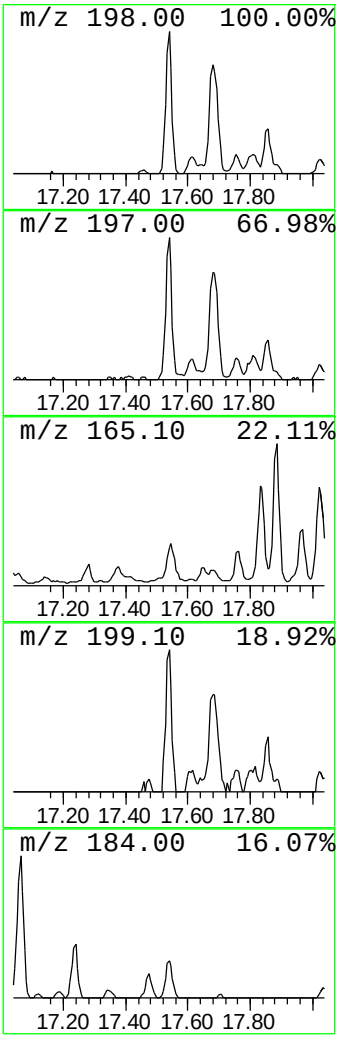
Peak Number 6 Dibenzothiophene, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.54	2.93 ng/ul	209626	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	90
2	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	68
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	64
4	Thioxanthene	198	C13H10S	000261-31-4	64
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	64





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ClientSampleId : C01S2RE

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Quant Title : SVOA CALIBRATION

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

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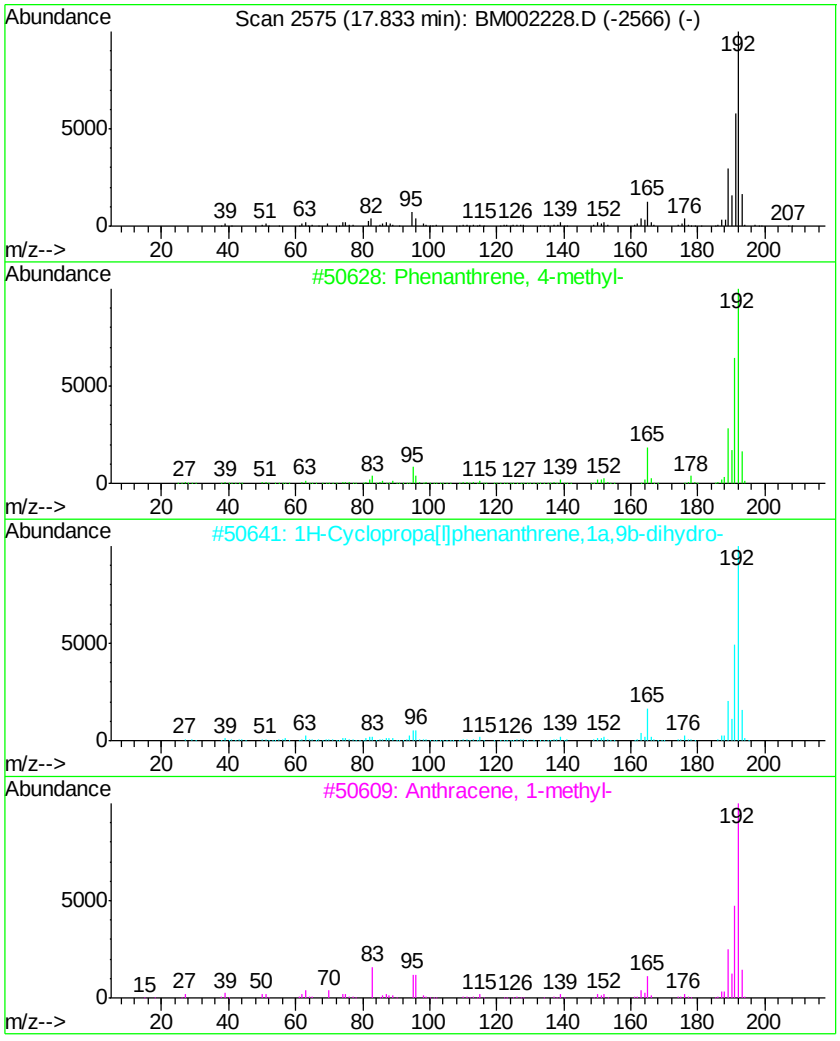
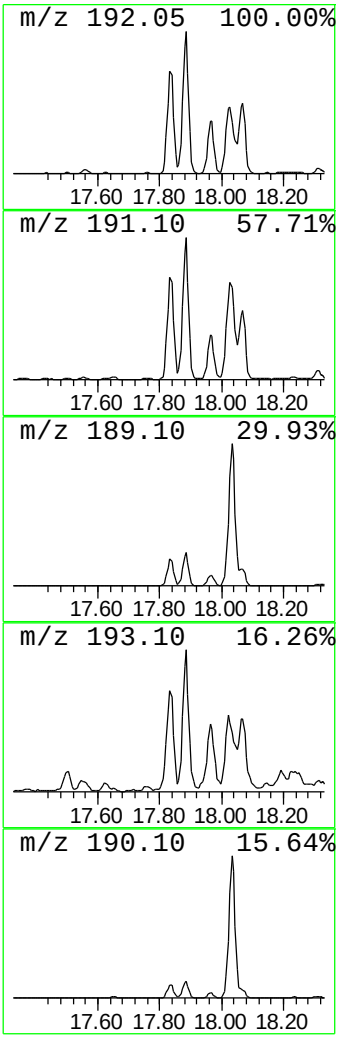
Peak Number 7 Phenanthrene, 4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	9.89 ng/ul	707573	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





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Quant Title : SVOA CALIBRATION

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

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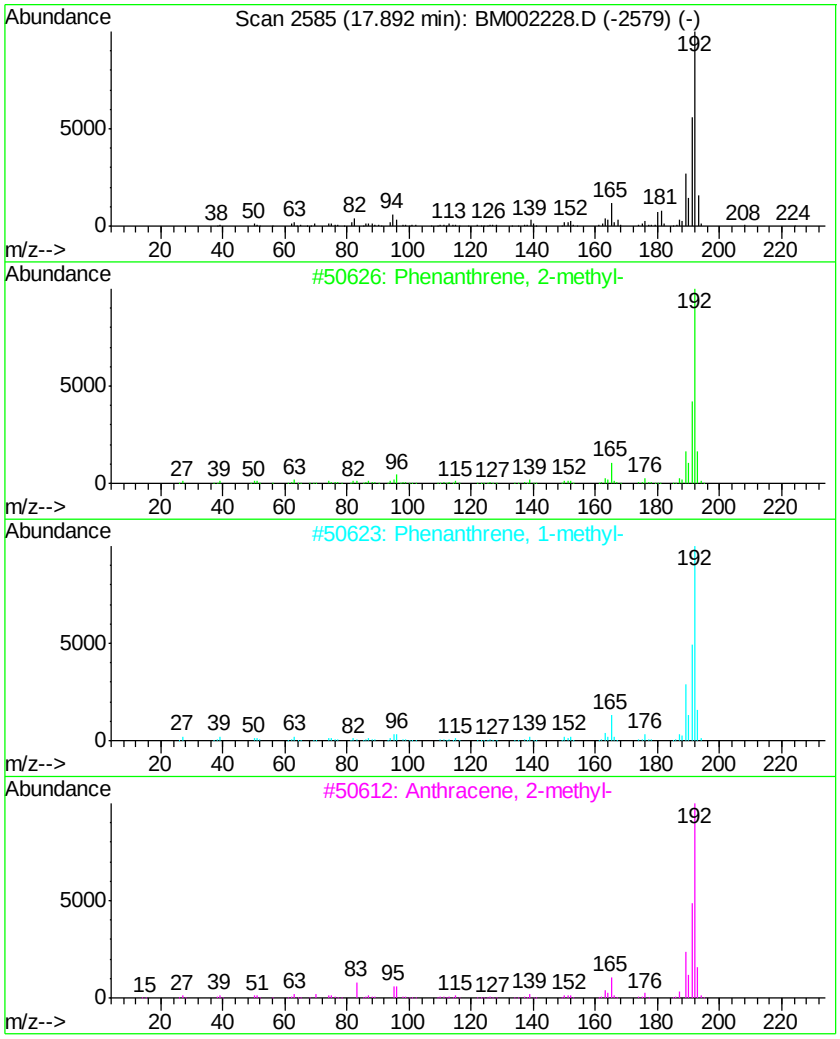
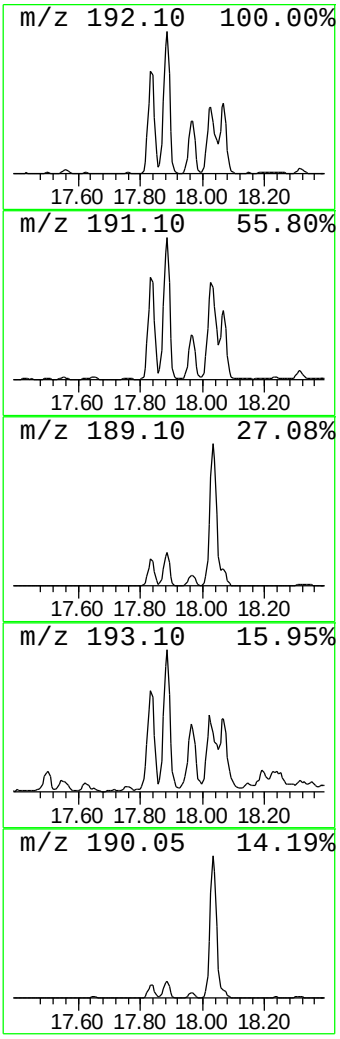
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.89	12.74 ng/ul	911561	Phenanthrene-d10	16.96

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





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ClientSampleId : C01S2RE

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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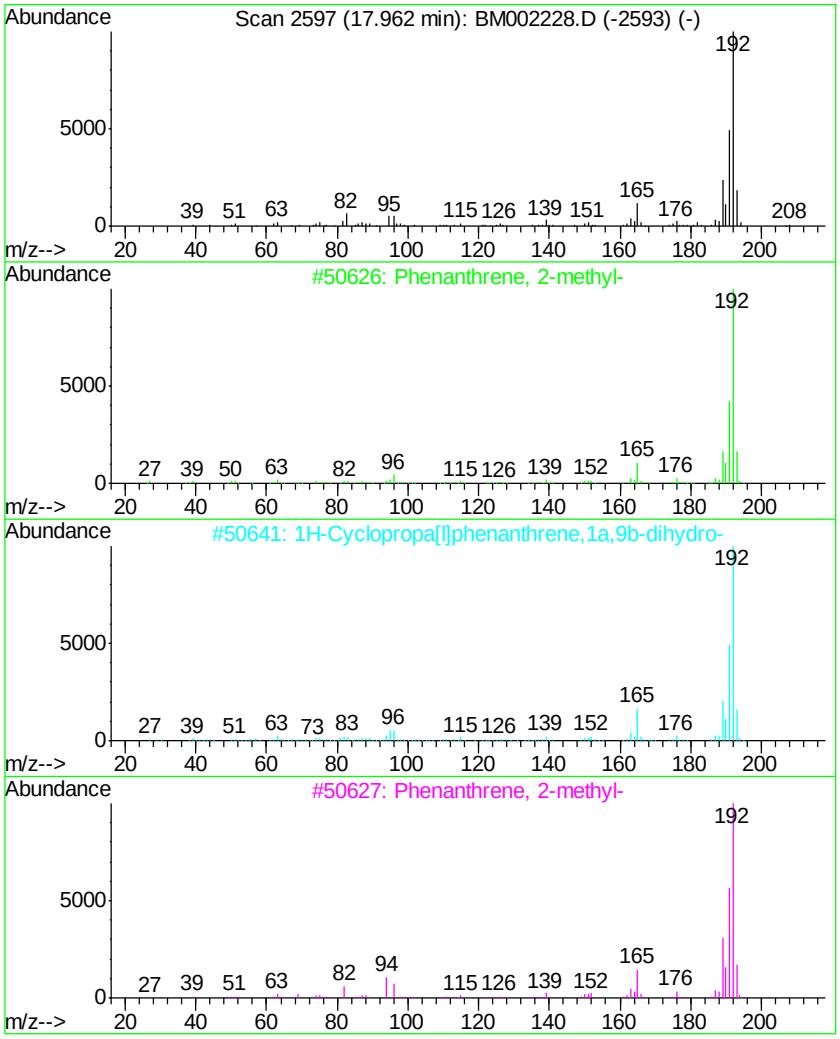
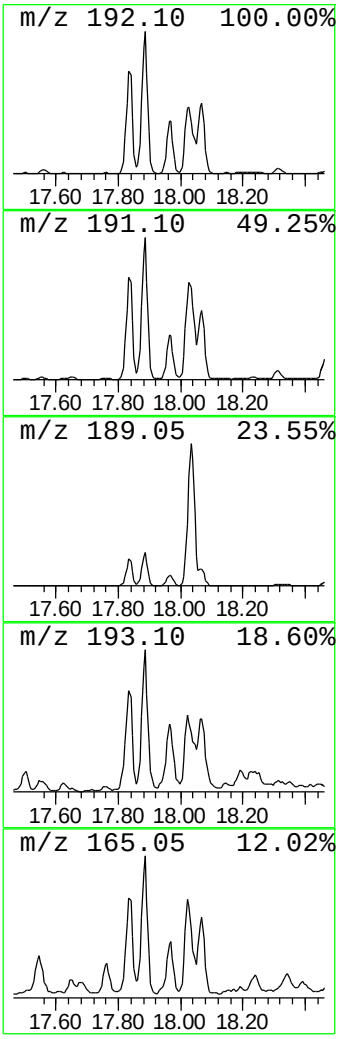
Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.96	4.50 ng/ul	321976	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





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Quant Title : SVOA CALIBRATION

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

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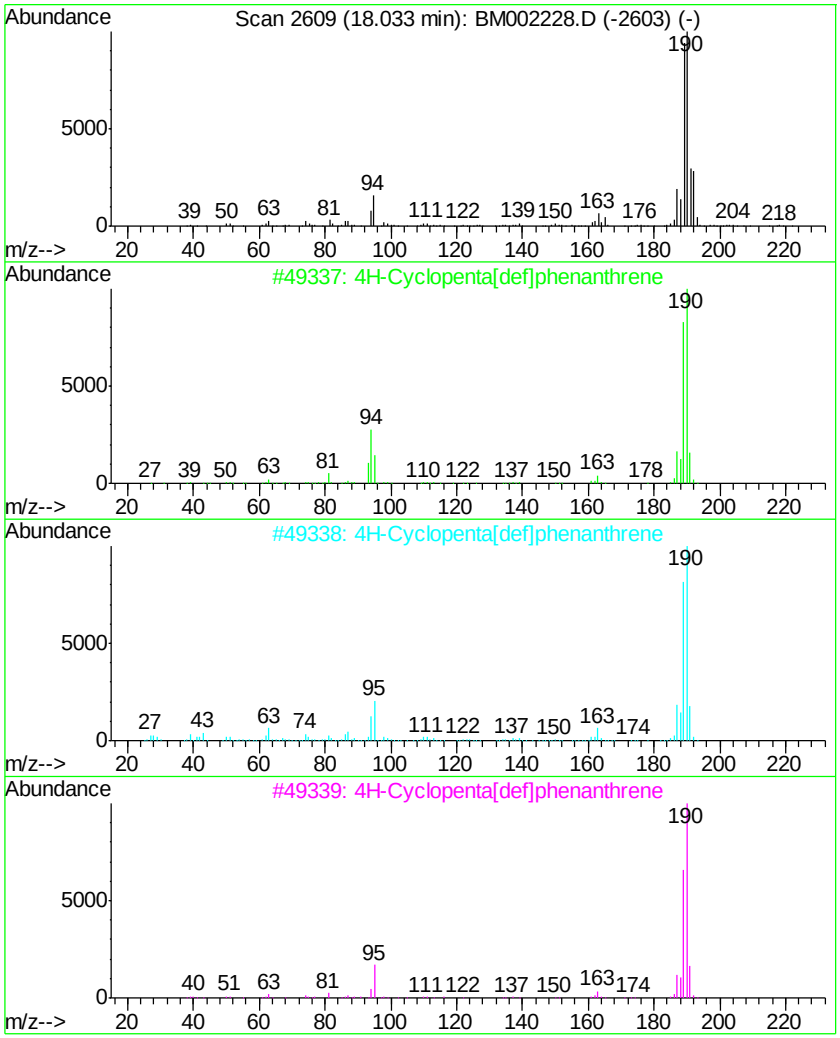
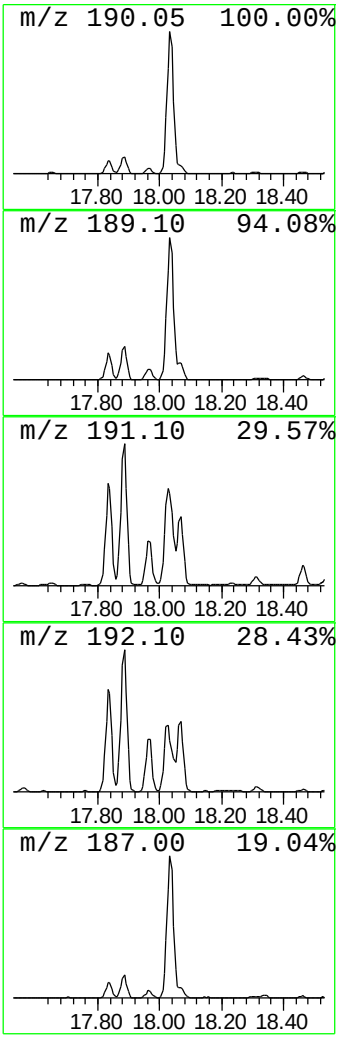
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.03	23.27 ng/ul	1664300	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45





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Misc :
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Instrument : BNA_M
ClientSampleId : C01S2RE

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Quant Title : SVOA CALIBRATION

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

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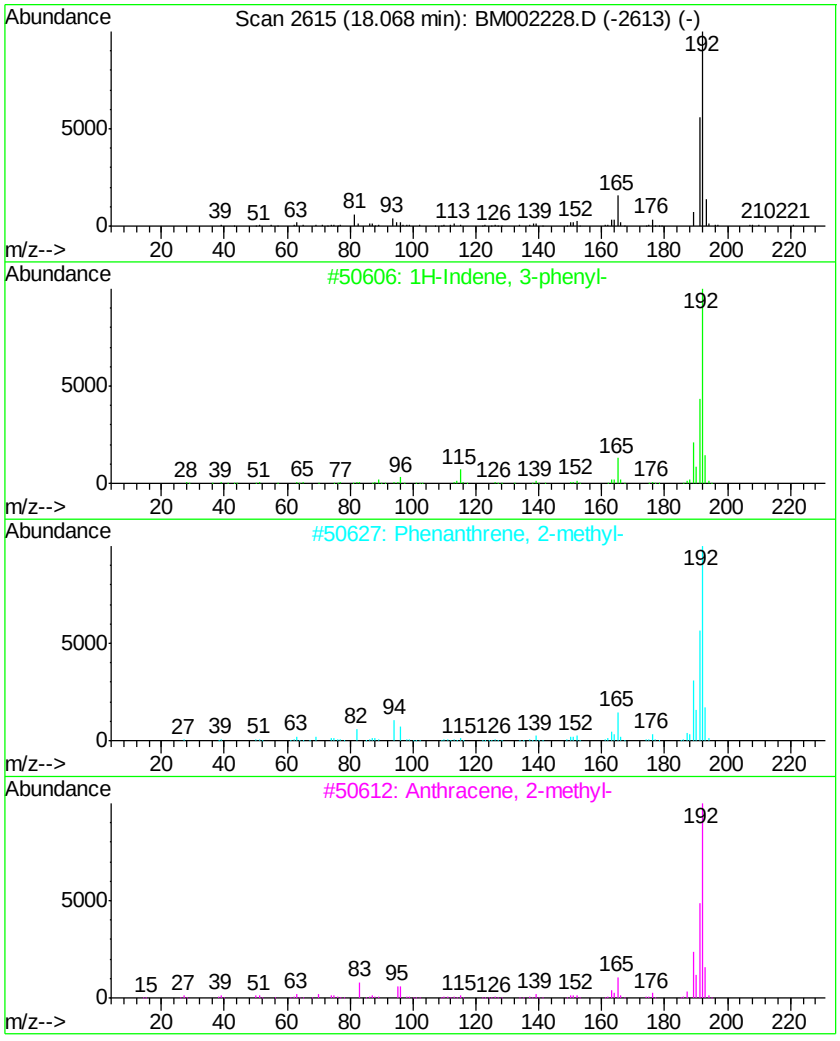
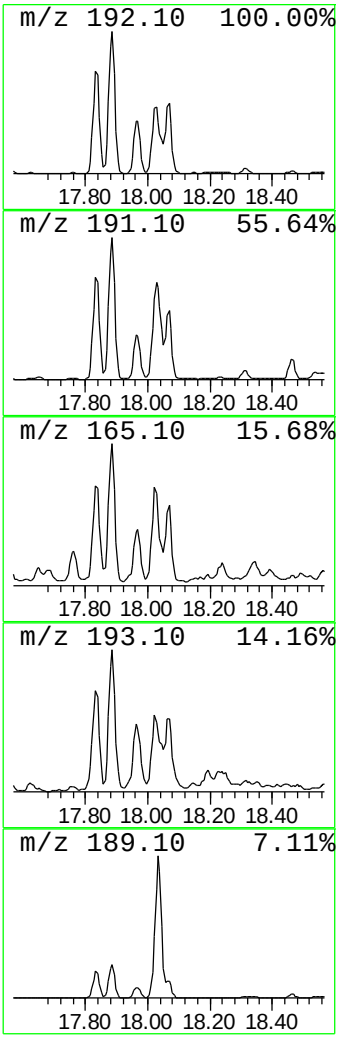
Peak Number 11 1H-Indene, 3-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.07	5.07 ng/ul	362781	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	90
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90





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ClientSampleId : C01S2RE

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Quant Title : SVOA CALIBRATION

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

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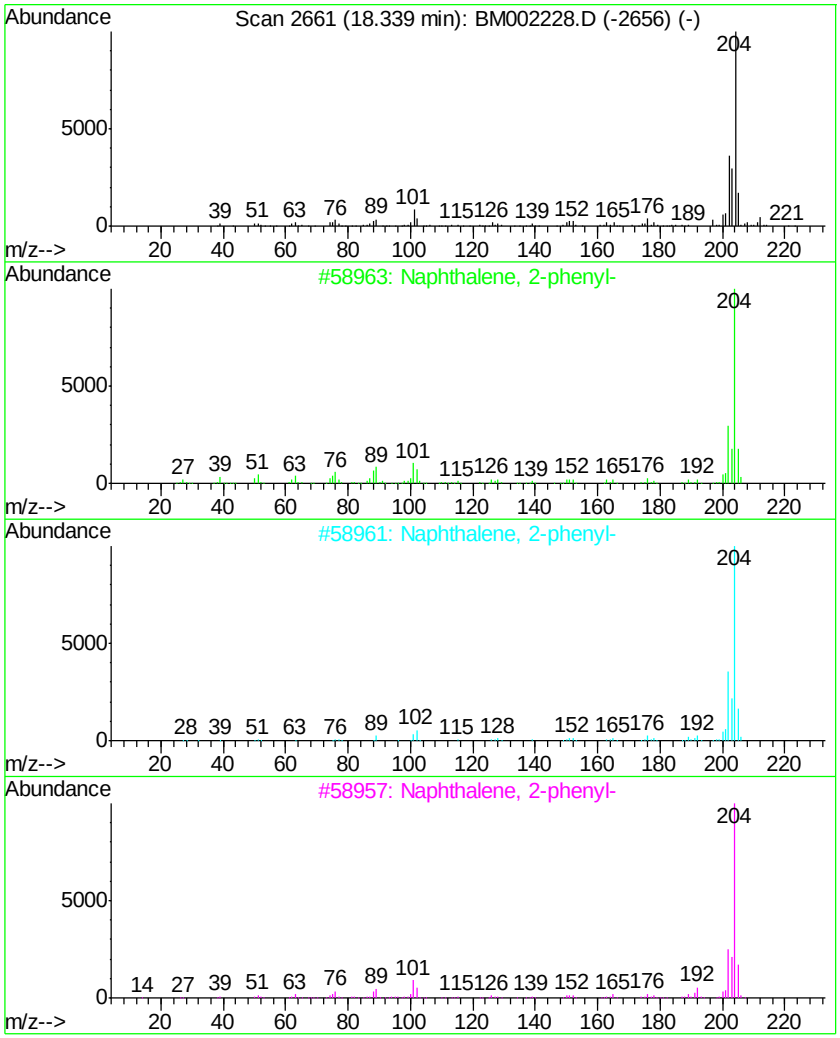
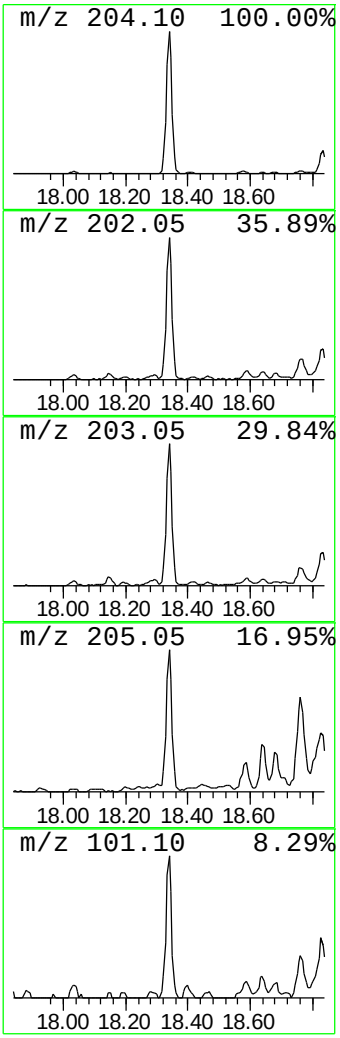
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	8.70 ng/ul	622444	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	74
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	68
5	2-Phenylnaphthalene	204	C16H12	035465-71-5	64





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Quant Title : SVOA CALIBRATION

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

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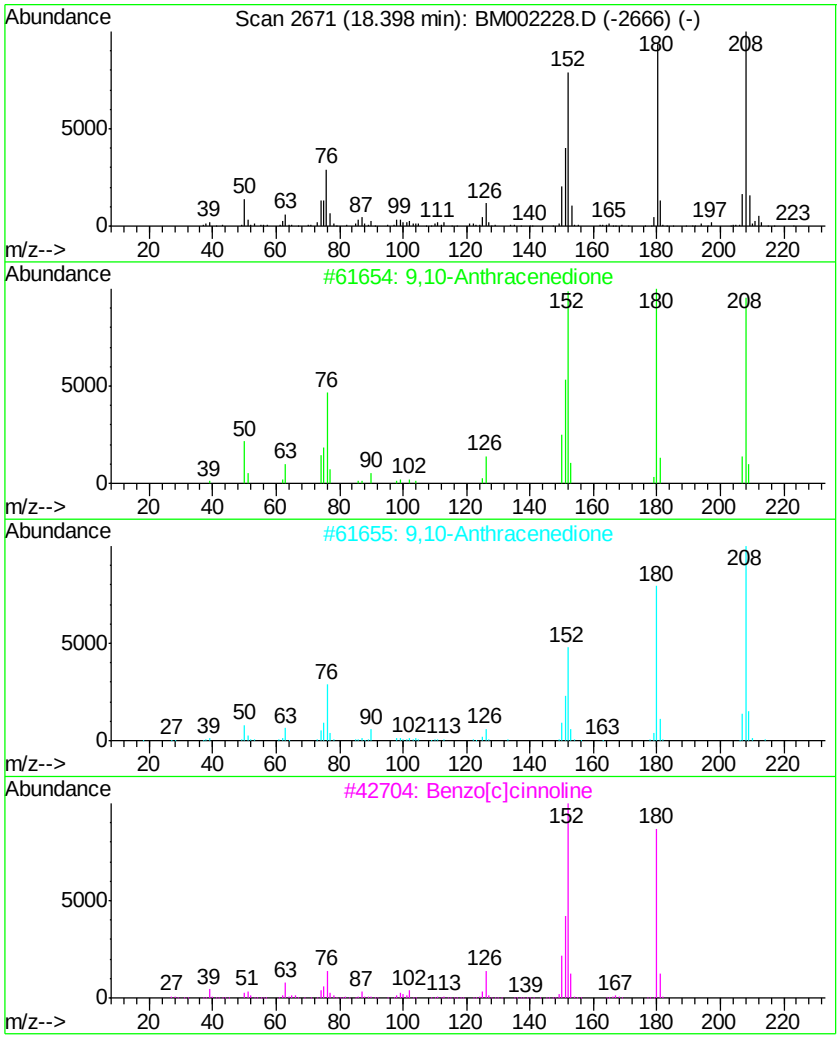
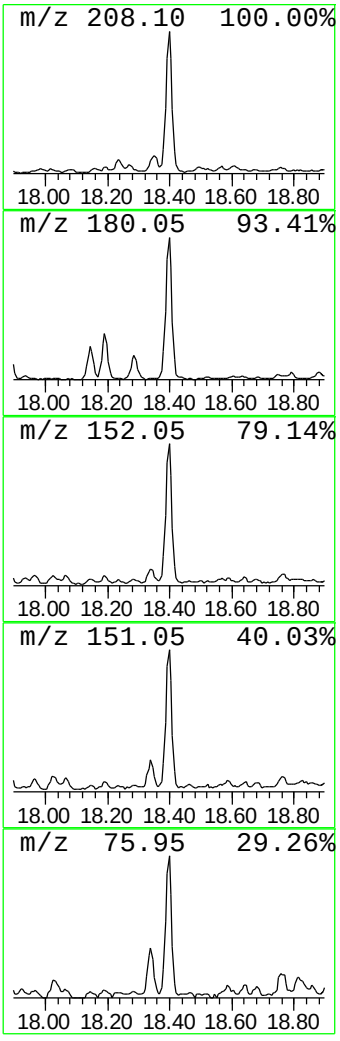
Peak Number 13 9,10-Anthracenedione Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	6.49 ng/ul	464582	Phenanthrene-d10	16.96

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	97
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	96
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86





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Quant Title : SVOA CALIBRATION

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

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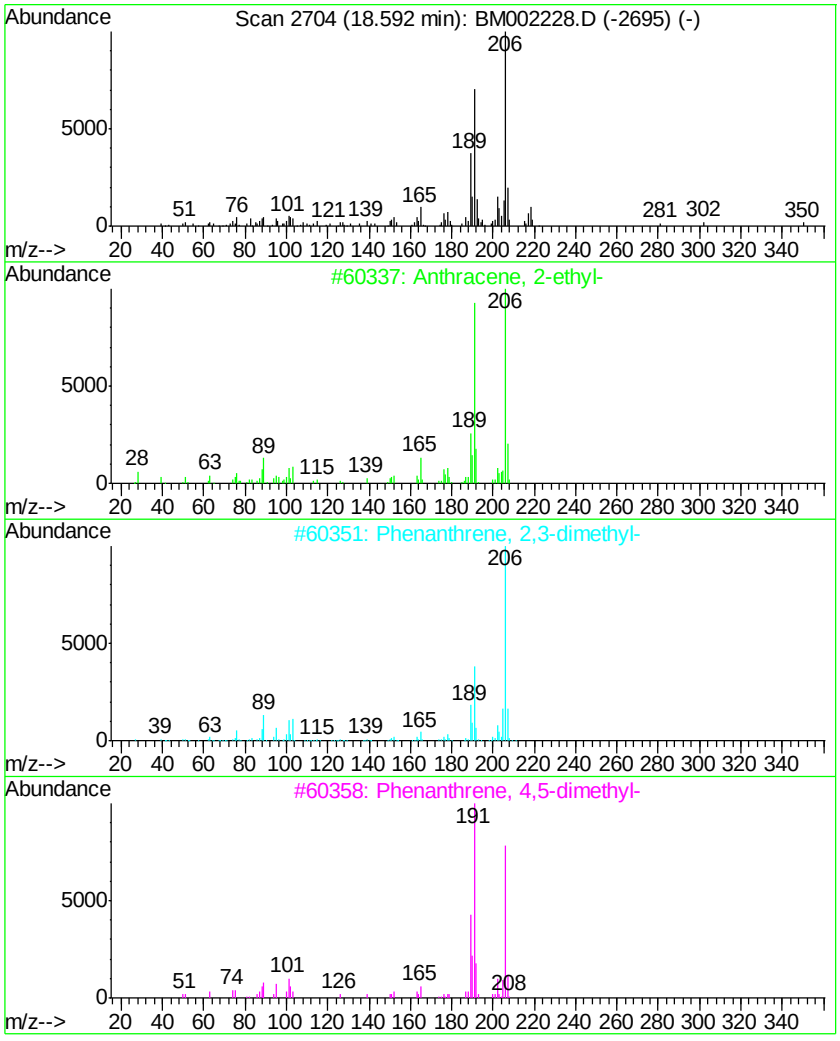
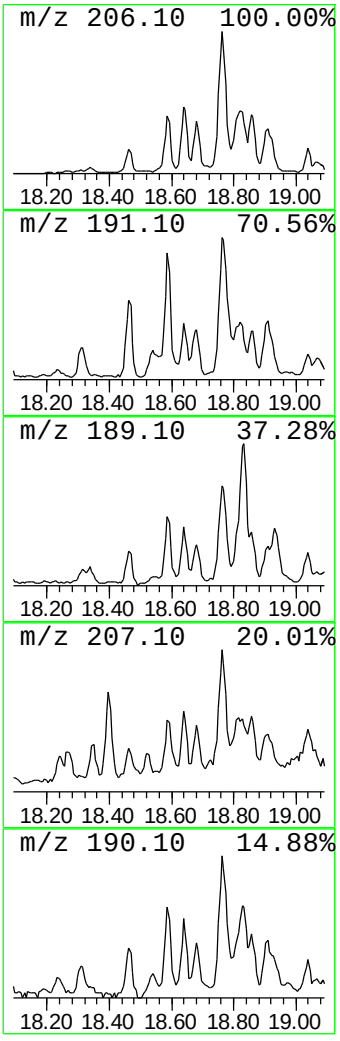
Peak Number 14 Anthracene, 2-ethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	3.47 ng/ul	248537	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	94
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	91
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	91





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Quant Title : SVOA CALIBRATION

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

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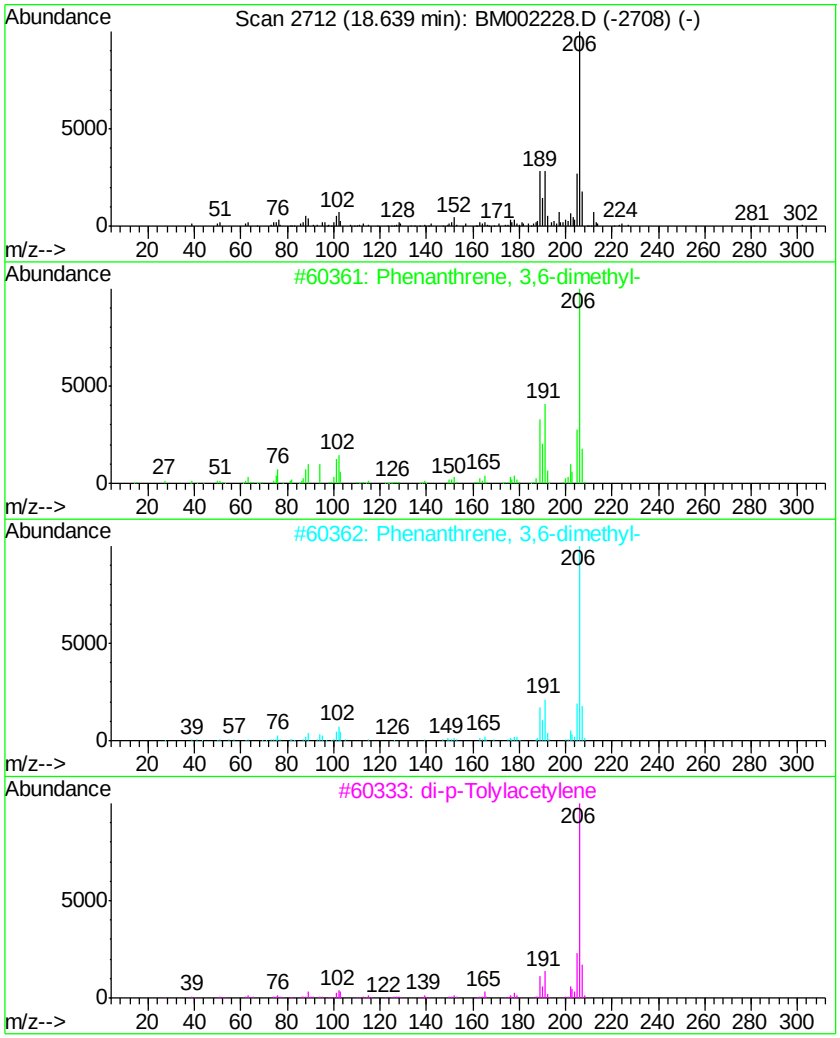
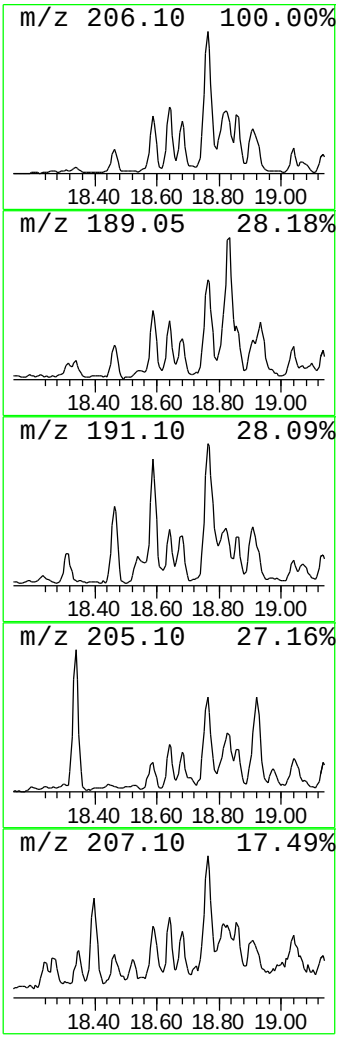
Peak Number 15 Phenanthrene, 3,6-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.64	2.30 ng/ul	164697	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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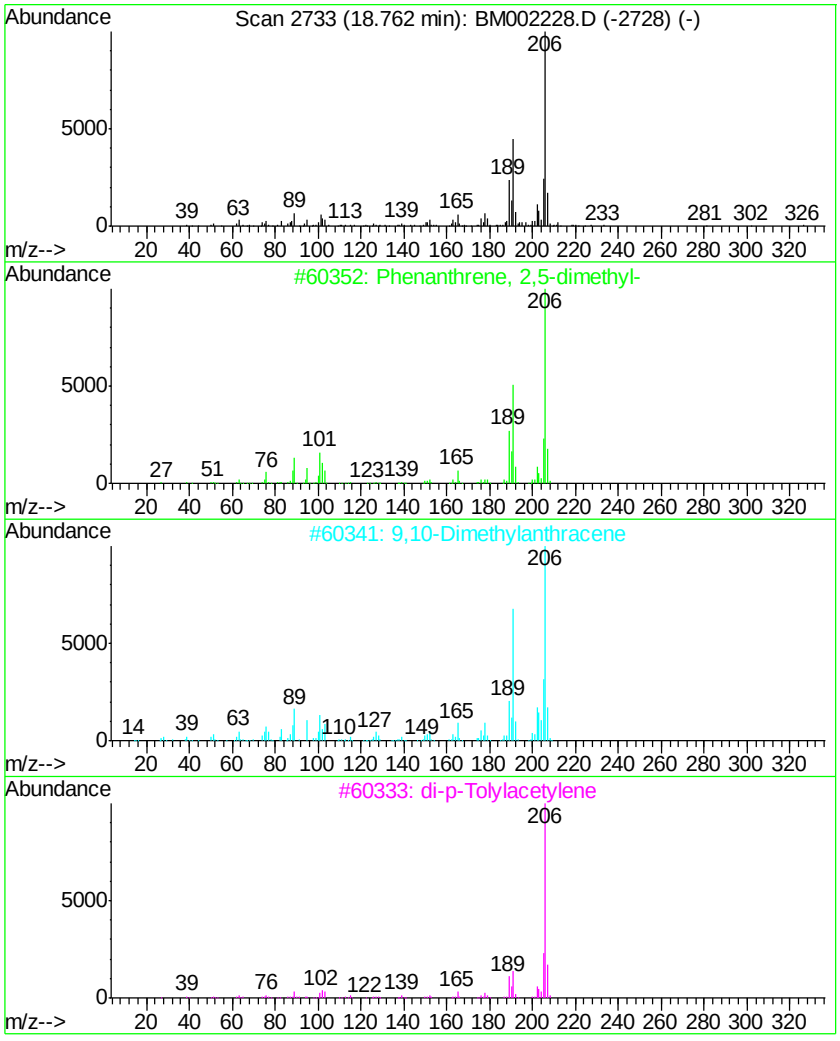
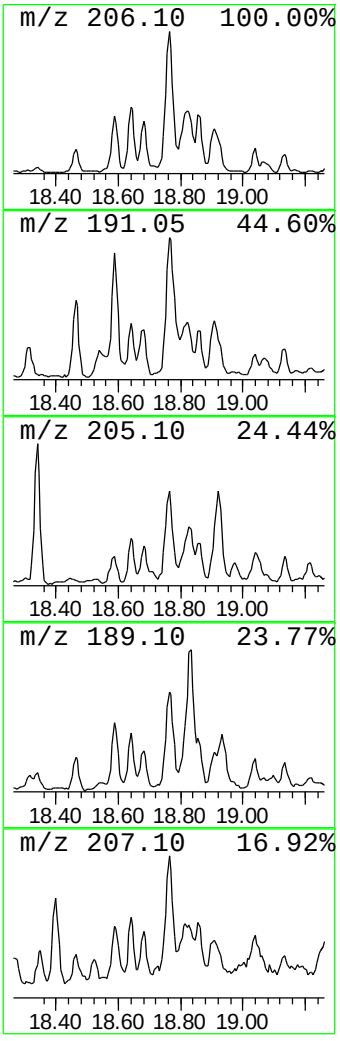
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.76	6.62 ng/ul	473185	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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Quant Title : SVOA CALIBRATION

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

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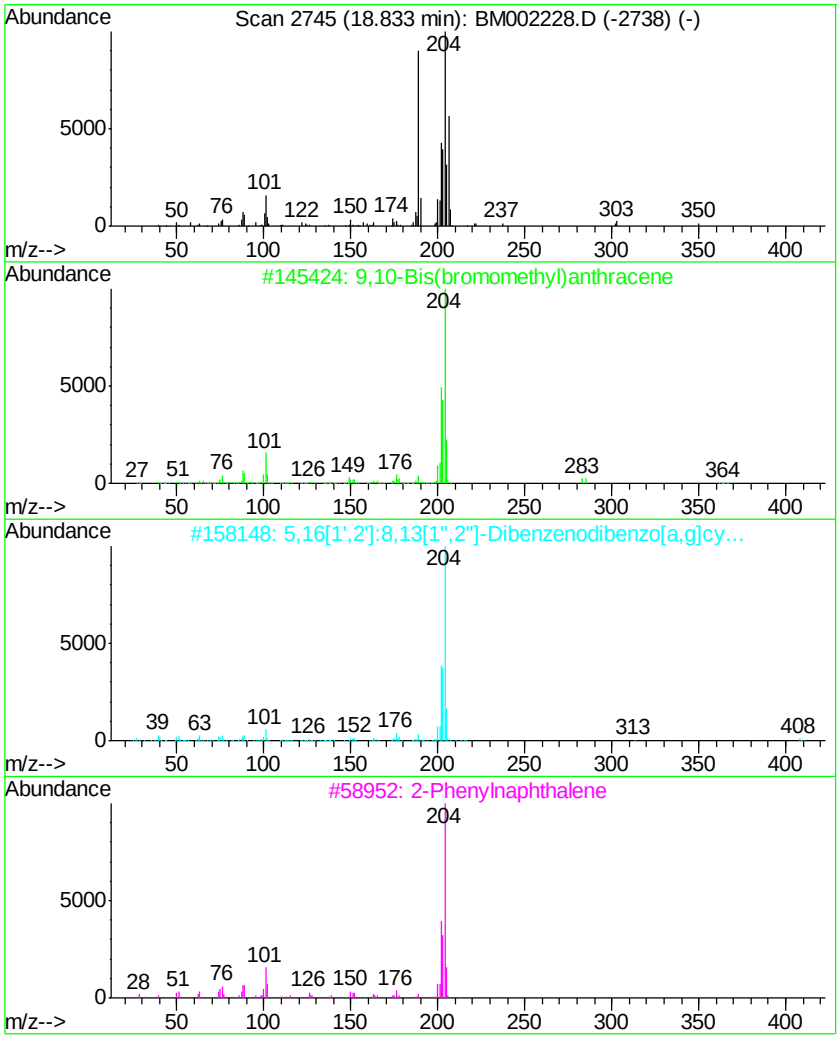
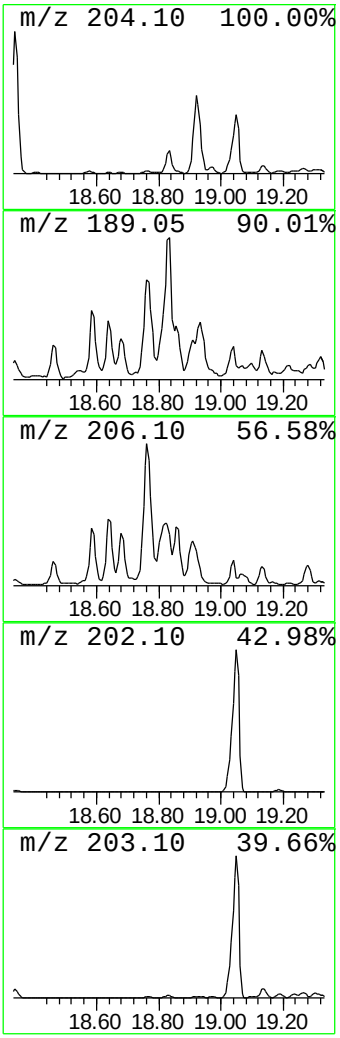
Peak Number 17 unknown-01 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.83	3.61 ng/ul	258145	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	46
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	38
3	2-Phenylnaphthalene	204	C16H12	035465-71-5	30
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	25
5	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	25





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Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

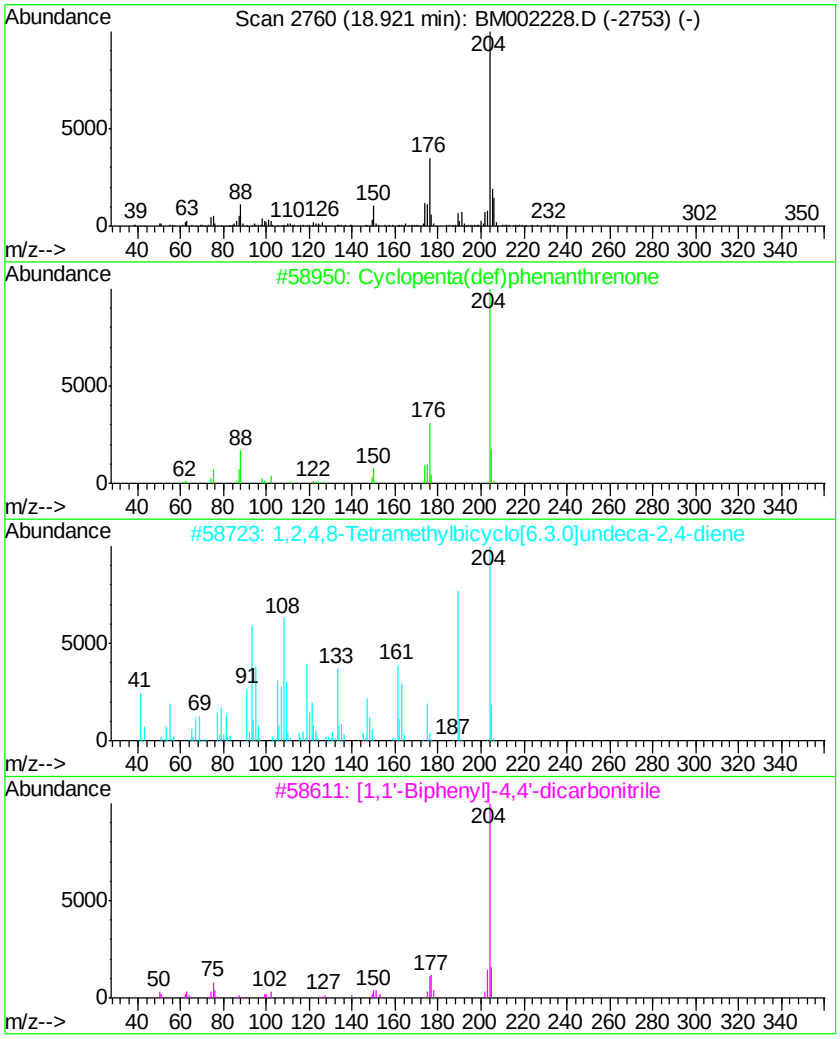
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

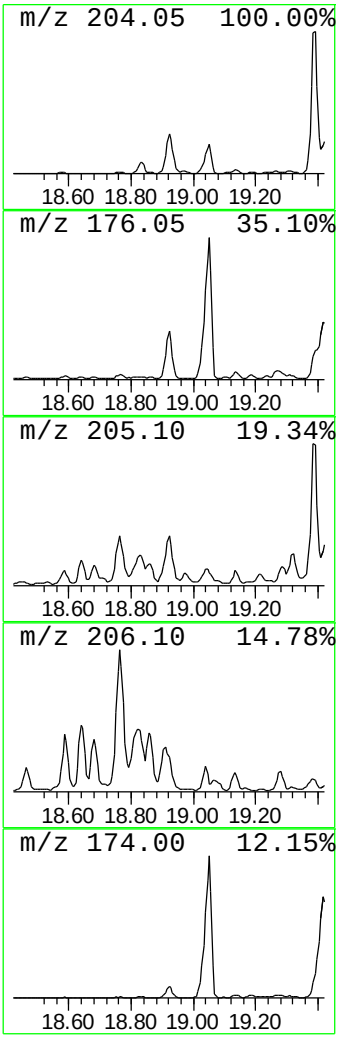
****

Peak Number 18 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	7.91 ng/ul	565579	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	90
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
5	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	47





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Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

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

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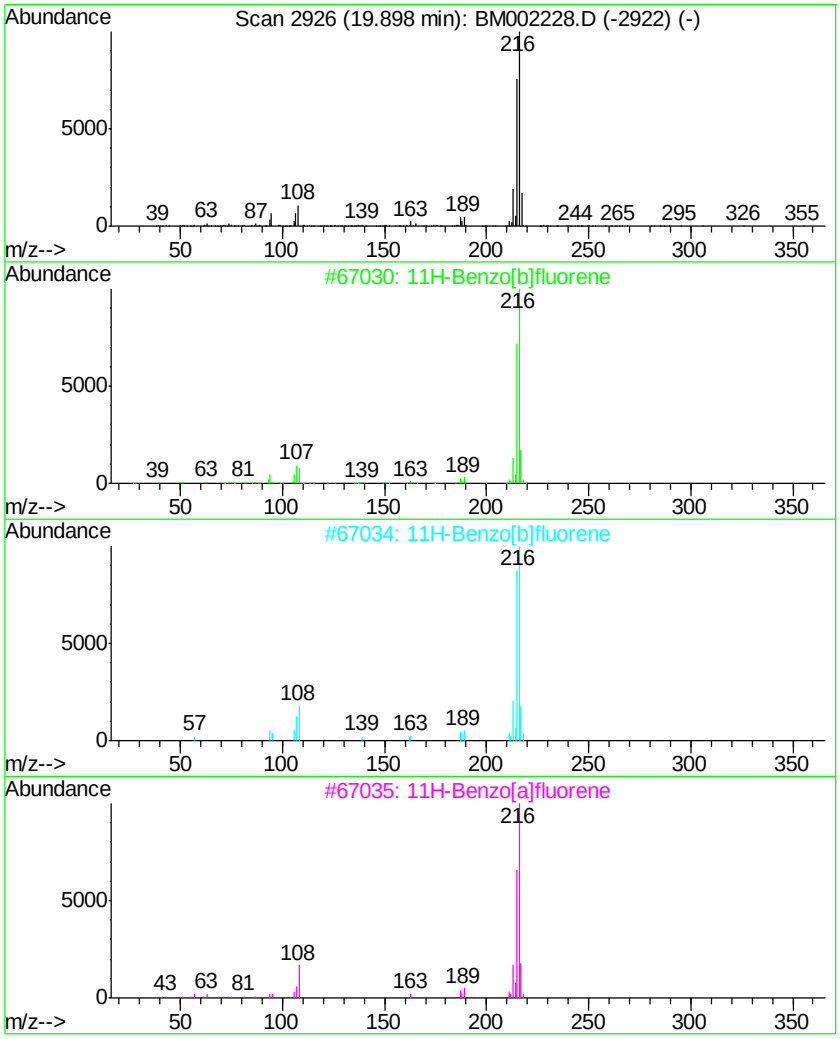
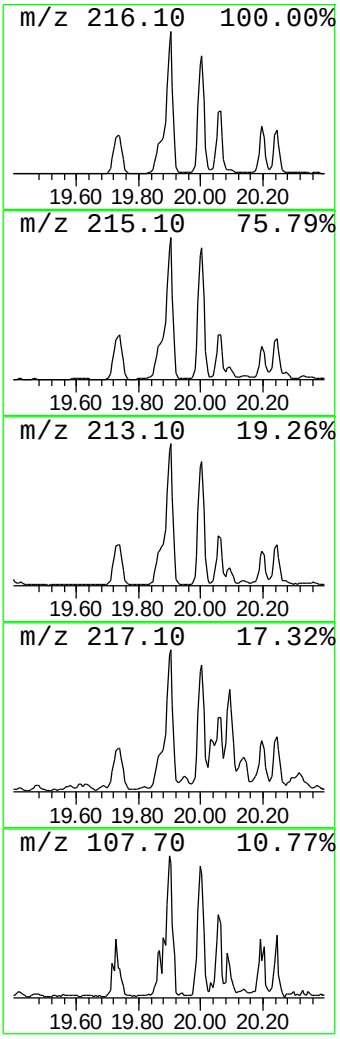
Peak Number 19 11H-Benzo[b]fluorene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.90	2.95 ng/ul	1871680	Chrysene-d12	21.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90





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Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

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

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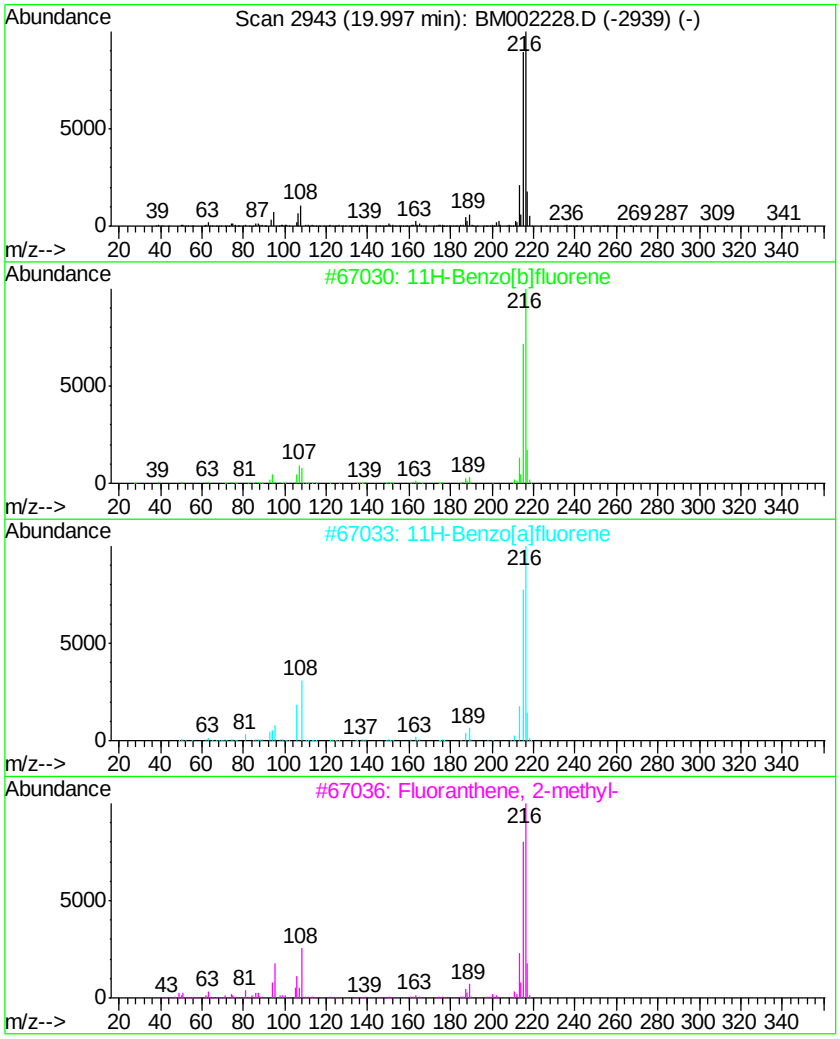
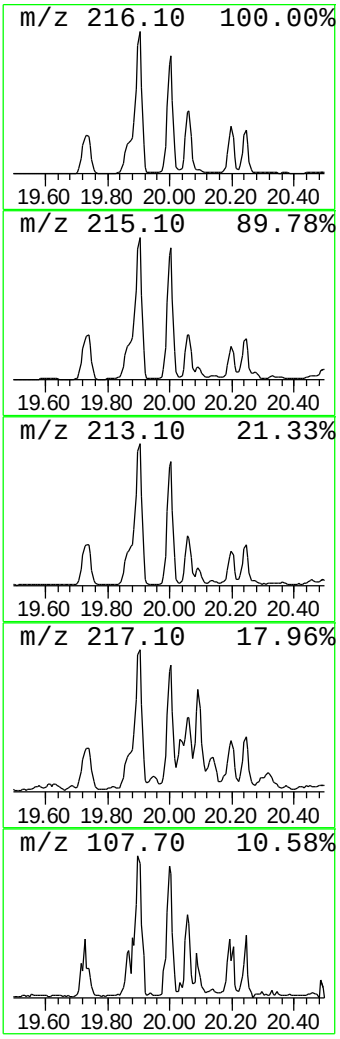
Peak Number 20 11H-Benzo[a]fluorene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.00	2.29 ng/ul	1451820	Chrysene-d12	21.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76





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Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

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

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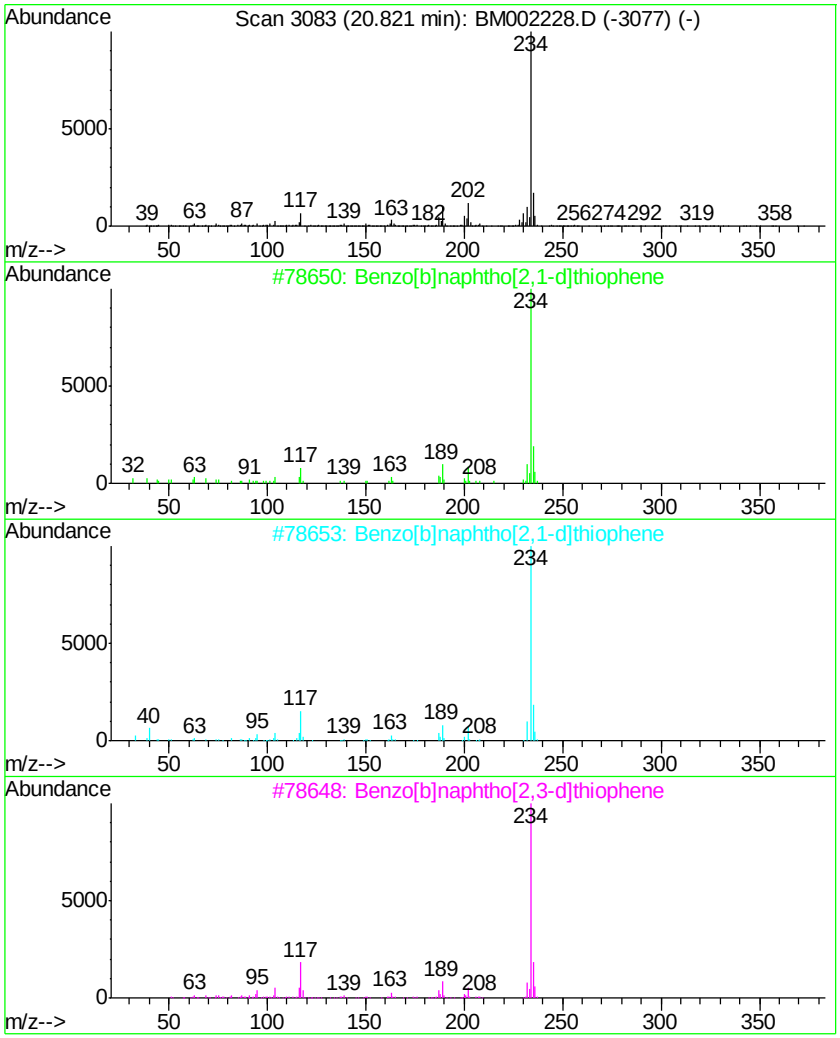
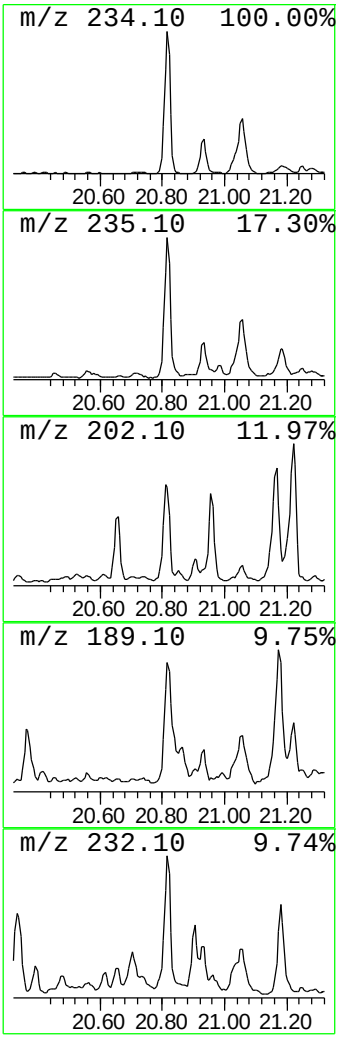
Peak Number 21 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.82	2.24 ng/ul	1423100	Chrysene-d12	21.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	90
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	87
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	87
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	87





Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

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

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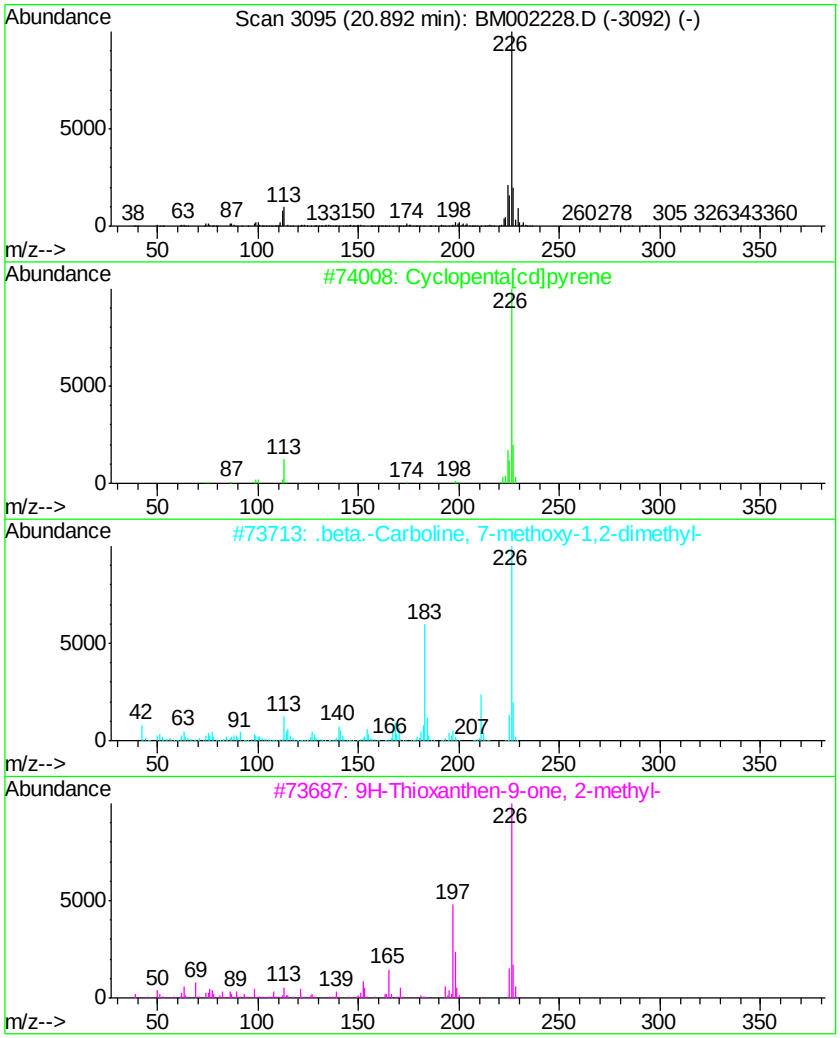
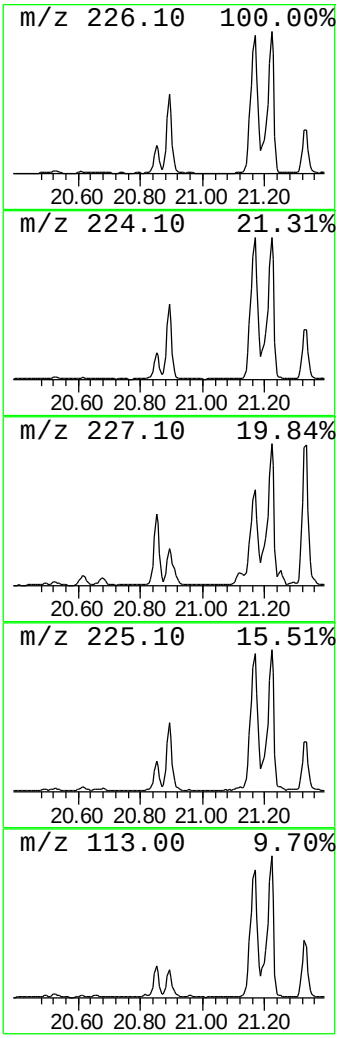
Peak Number 22 Cyclopenta[cd]pyrene Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.89	2.08 ng/ul	1320880	Chrysene-d12	21.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	70
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	58
3	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	53
4	2,2'-Oxydibenzaldehyde	226	C14H10O3	049590-51-4	50
5	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	42





Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

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

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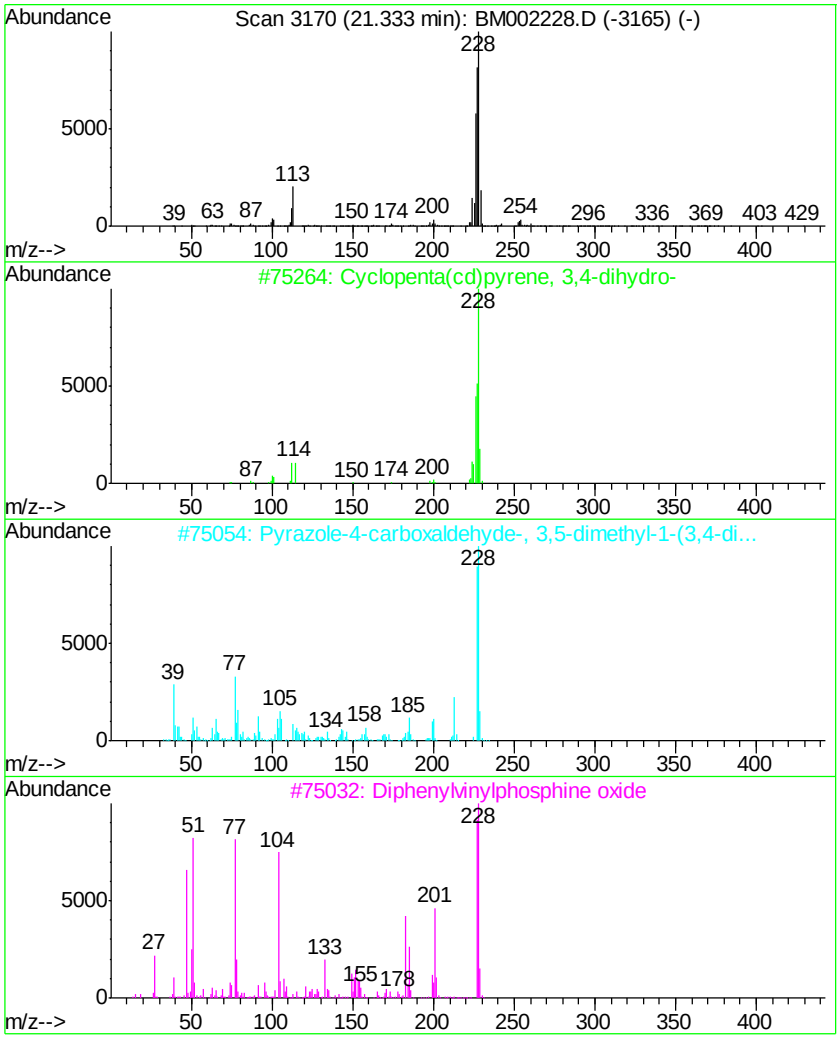
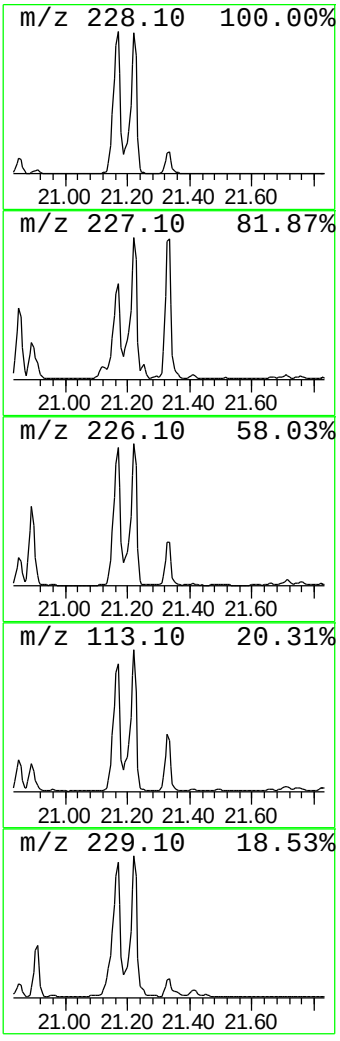
Peak Number 23 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.33	2.72 ng/ul	1727520	Chrysene-d12	21.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	90
2	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
3	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	47
4	Triphenylene	228	C18H12	000217-59-4	46
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	45





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\
Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

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

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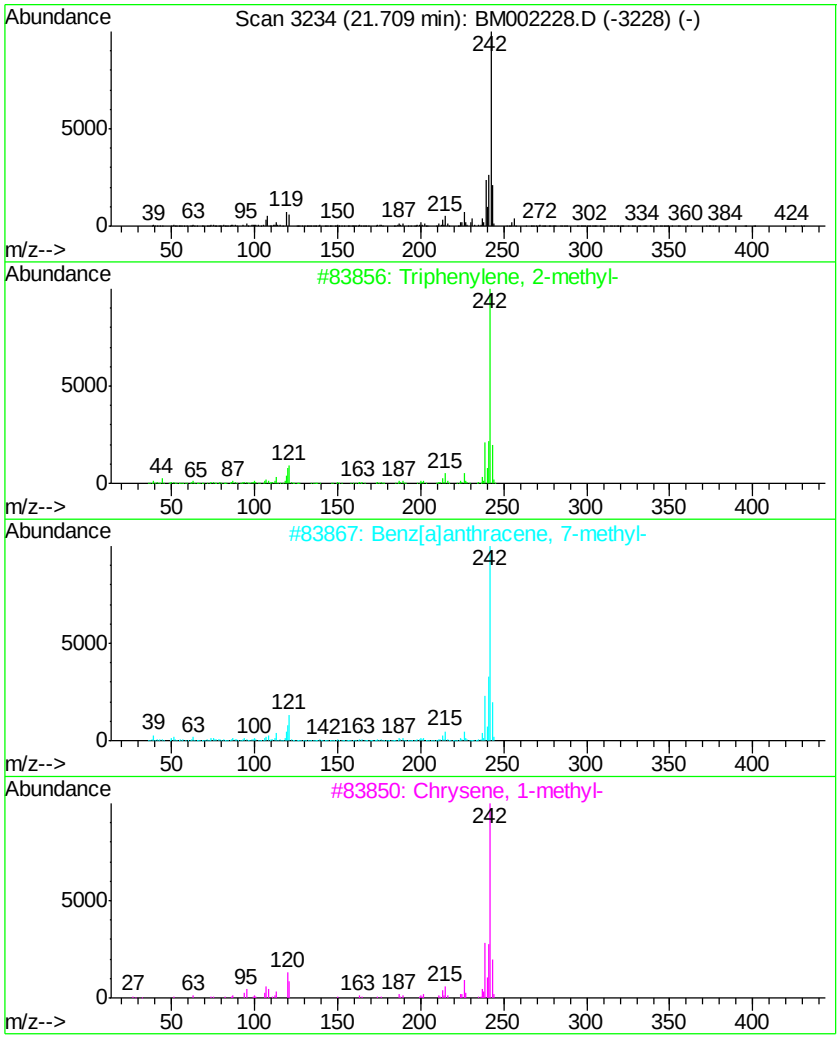
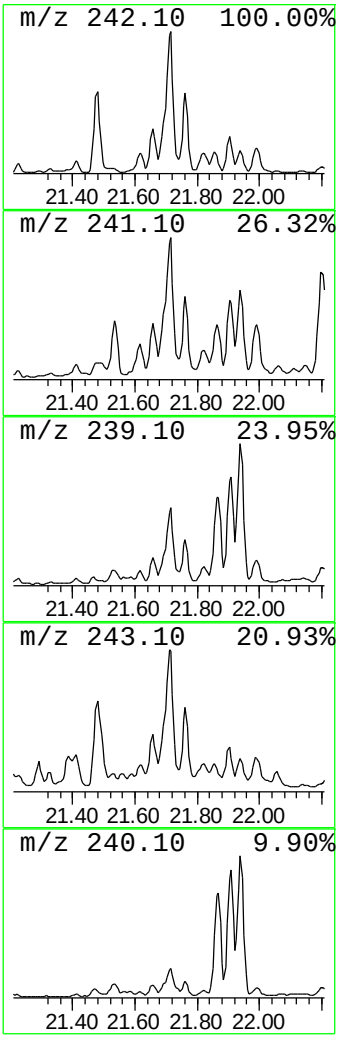
Peak Number 24 Triphenylene, 2-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.71	2.42 ng/ul	1537910	Chrysene-d12	21.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
3	Chrysene, 1-methyl-	242	C19H14	003351-28-8	94
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
5	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	93





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Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

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

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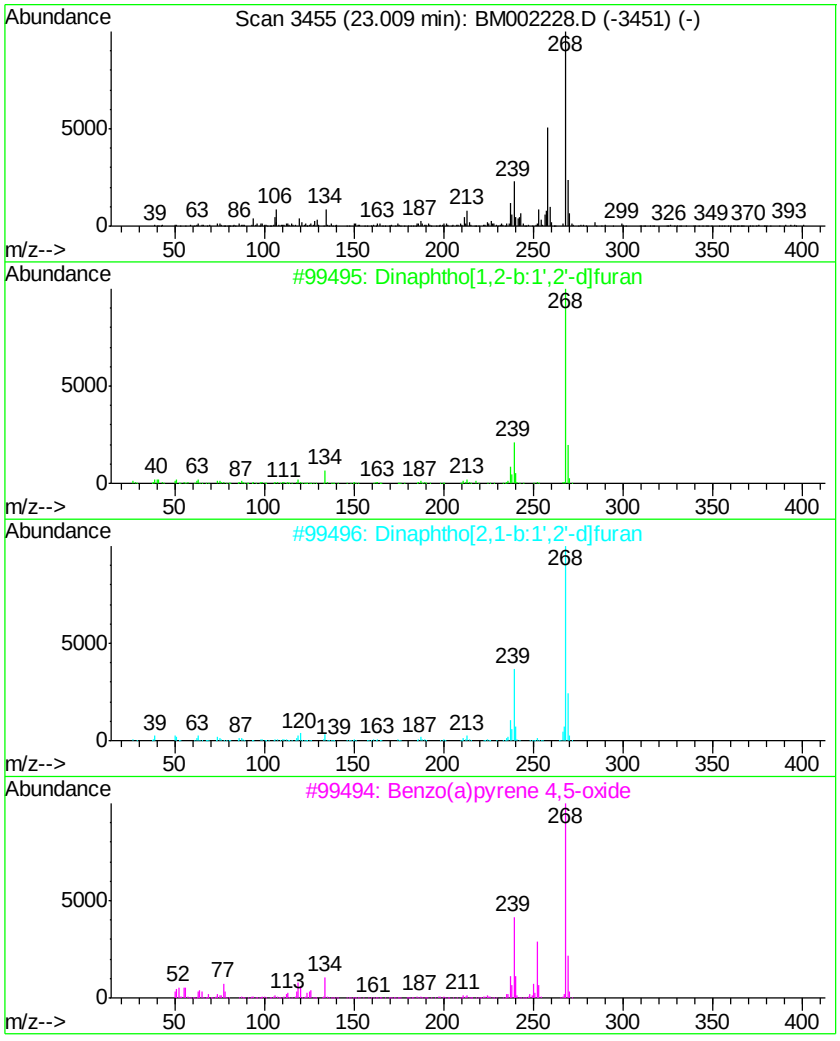
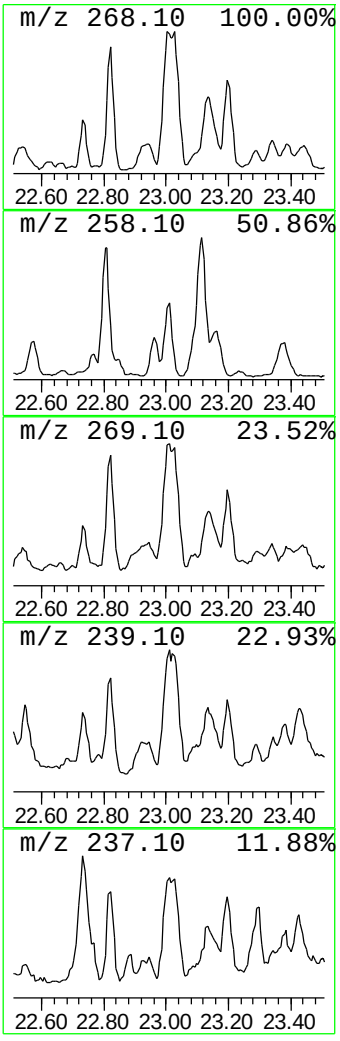
Peak Number 27 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.01	5.26 ng/ul	521229	Perylene-d12	23.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	70
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	62
3	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	52
4	4H-Dibenz[a,kl]anthracene, 5,6-d...	268	C21H16	007198-87-0	43
5	trans-3'-Methyl-4-(methylthio)ch...	268	C17H16OS	131316-14-8	43





Tentatively Identified Compound (LSC) summary

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Data File : BM002228.D
Acq On : 05 Aug 2015 02:20
Operator : TP/UM
Sample : G3095-11RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01S2RE

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dibenzofuran, 4-m...	15.70	2.2	ng/ul	159349	4	16.96	1430610	20.0
9H-Fluorene, 1-me...	16.26	2.8	ng/ul	199946	4	16.96	1430610	20.0
9H-Fluoren-9-one	16.62	3.3	ng/ul	238104	4	16.96	1430610	20.0
Anthracene, 1,2,3...	16.71	3.0	ng/ul	211126	4	16.96	1430610	20.0
Naphtho[2,3-b]thi...	16.77	6.0	ng/ul	427460	4	16.96	1430610	20.0
Dibenzothiophene,...	17.54	2.9	ng/ul	209626	4	16.96	1430610	20.0
Phenanthrene, 4-m...	17.83	9.9	ng/ul	707573	4	16.96	1430610	20.0
Phenanthrene, 2-m...	17.89	12.7	ng/ul	911561	4	16.96	1430610	20.0
1H-Cyclopropa[l]p...	17.96	4.5	ng/ul	321976	4	16.96	1430610	20.0
4H-Cyclopenta[def...	18.03	23.3	ng/ul	1664300	4	16.96	1430610	20.0
1H-Indene, 3-phenyl-	18.07	5.1	ng/ul	362781	4	16.96	1430610	20.0
Naphthalene, 2-ph...	18.34	8.7	ng/ul	622444	4	16.96	1430610	20.0
9,10-Anthracenedione	18.40	6.5	ng/ul	464582	4	16.96	1430610	20.0
Anthracene, 2-ethyl-	18.59	3.5	ng/ul	248537	4	16.96	1430610	20.0
Phenanthrene, 3,6...	18.64	2.3	ng/ul	164697	4	16.96	1430610	20.0
Phenanthrene, 2,5...	18.76	6.6	ng/ul	473185	4	16.96	1430610	20.0
unknown-01	18.83	3.6	ng/ul	258145	4	16.96	1430610	20.0
Cyclopenta(def)ph...	18.92	7.9	ng/ul	565579	4	16.96	1430610	20.0
11H-Benzo[b]fluorene	19.90	3.0	ng/ul	1871680	5	21.18	12705200	20.0
11H-Benzo[a]fluorene	20.00	2.3	ng/ul	1451820	5	21.18	12705200	20.0
Benzo[b]naphtho[2...	20.82	2.2	ng/ul	1423100	5	21.18	12705200	20.0
Cyclopenta[cd]pyrene	20.89	2.1	ng/ul	1320880	5	21.18	12705200	20.0
Cyclopenta(cd)pyr...	21.33	2.7	ng/ul	1727520	5	21.18	12705200	20.0
Triphenylene, 2-m...	21.71	2.4	ng/ul	1537910	5	21.18	12705200	20.0
Dinaphtho[1,2-b:1...	23.01	5.3	ng/ul	521229	6	23.37	1980290	20.0