LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101919\
Data File : BM023285.D
Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.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	6.822	646	652	664	rBV	1052933	1851187	3.60%	0.339%
2	6.992	674	681	689	rBV	907904	1471568	2.86%	0.269%
3	7.187	707	714	724	rVB	1252522	1975860	3.84%	0.361%
4	7.651	786	793	802	rBV	2029130	3180659	6.18%	0.582%
5	8.357	906	913	920	rBV	1072651	1708136	3.32%	0.312%
6	8.798	978	988	1000	rBV	1132994	1886596	3.67%	0.345%
7	9.516	1103	1110	1120	rBV	885405	1446421	2.81%	0.265%
8	10.057	1193	1202	1210	rBV	1475912	2471284	4.80%	0.452%
9	10.433	1257	1266	1272	rBV	2588504	4350962	8.45%	0.796%
10	10.563	1282	1288	1303	rVV	860814	1540611	2.99%	0.282%
11	13.716	1818	1824	1828	rVV	2407079	3463773	6.73%	0.634%
12	13.757	1828	1831	1838	rVB	999776	1379935	2.68%	0.252%
13	13.986	1863	1870	1874	rBV	3097335	5100294	9.91%	0.933%
14	14.298	1916	1923	1930	rBV	3866584	5611573	10.90%	1.026%
15	14.492	1950	1956	1963	rBV	554281	829893	1.61%	0.152%
16	15.292	2085	2092	2098	rBV	3872598	5480913	10.65%	1.003%
17	15.410	2107	2112	2120	rVV	563410	817151	1.59%	0.149%
18	15.792	2171	2177	2186	rVB	232200	491032	0.95%	0.090%
19	16.698	2326	2331	2339	rVB	1462301	2085983	4.05%	0.382%
20	16.856	2352	2358	2364	rVB	669119	985162	1.91%	0.180%
21	17.045	2384	2390	2393	rVV2	4367557	6653011	12.93%	1.217%
22	17.086	2393	2397	2402	rVV	15369459	21755607	42.28%	3.979%
23	17.139	2402	2406	2410	rVV	4060783	6459050	12.55%	1.181%
24	17.174	2410	2412	2418	rVV	3189075	3667127	7.13%	0.671%
25	17.233	2418	2422	2429	rVB3	231896	409581	0.80%	0.075%
26	17.439	2448	2457	2462	rBV	2028185	3216655	6.25%	0.588%
27	17.568	2475	2479	2483	rVV2	412144	645638	1.25%	0.118%
28	17.621	2484	2488	2497	rVB3	492145	827981	1.61%	0.151%
29	17.727	2499	2506	2509	rVV2	200274	385819	0.75%	0.071%
30	17.839	2521	2525	2529	rVV	280721	416188	0.81%	0.076%
31	17.921	2529	2539	2542	rVV	2055069	3271563	6.36%	0.598%
32	17.968	2542	2547	2555	rVV	3563017	5469821	10.63%	1.001%
33	18.045	2555	2560	2565	rVV	923195	1502482	2.92%	0.275%
34	18.109	2565	2571	2575	rVV3	2267198	4128279	8.02%	0.755%

LSC Area Percent Report

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Data File : BM023285.D
Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Title : SVOA CALIBRATION

35	18.151	2575	2578	2583	rVB	1331412	1798288	3.49%	0.329%
36	18.221	2586	2590	2594	rBV3	177929	373400	0.73%	0.068%
37	18.262	2594	2597	2602	rVB2	322416	451233	0.88%	0.083%
38	18.421	2620	2624	2627	rVV	2203794	2978879	5.79%	0.545%
39	18.462	2627	2631	2638	rVB	3139530	4391047	8.53%	0.803%
40	18.674	2659	2667	2671	rBV4	564940	924687	1.80%	0.169%
41	18.721	2671	2675	2679	rVV	478003	668949	1.30%	0.122%
42	18.762	2679	2682	2687	rVB2	570001	711194	1.38%	0.130%
43	18.845	2689	2696	2701	rBV	1740024	2723995	5.29%	0.498%
44	18.909	2701	2707	2709	rVV2	622928	1193041	2.32%	0.218%
45	18.939	2709	2712	2715	rVV	529382	739948	1.44%	0.135%
46	18.980	2715	2719	2728	rVB2	2710940	4104086	7.98%	0.751%
47	19.115	2734	2742	2747	rVB2	34624108	51460334	100.00%	9.413%
48	19.180	2749	2753	2755	rVV	383130	529177	1.03%	0.097%
49	19.203	2755	2757	2762	rVB3	534345	715928	1.39%	0.131%
50	19.256	2762	2766	2770	rVB	932292	1124268	2.18%	0.206%
51	19.309	2770	2775	2778	rBV	793357	1329507	2.58%	0.243%
52	19.350	2778	2782	2787	rVB	1195154	1718409	3.34%	0.314%
53	19.445	2792	2798	2799	rBV	10629316	13625672	26.48%	2.492%
54	19.474	2799	2803	2810	rVB	30323933	43598616	84.72%	7.975%
55	19.545	2810	2815	2822	rVB2	1449372	2458660	4.78%	0.450%
56	19.650	2827	2833	2838	rBV	2260992	2942637	5.72%	0.538%
57	19.703	2838	2842	2849	rVB2	1084428	1868709	3.63%	0.342%
58	19.803	2851	2859	2863	rBV3	2028501	5299718	10.30%	0.969%
59	19.845	2863	2866	2870	rVB	819565	981158	1.91%	0.179%
60	19.933	2876	2881	2884	rBV3	1561058	2781572	5.41%	0.509%
61	20.021	2893	2896	2900	rBV5	207255	365670	0.71%	0.067%
62	20.068	2901	2904	2907	rVB3	299168	357701	0.70%	0.065%
63	20.121	2907	2913	2918	rBV2	3091545	5379877	10.45%	0.984%
64	20.162	2918	2920	2924	rVV2	567716	743492	1.44%	0.136%
65	20.209	2924	2928	2933	rVB	568772	823949	1.60%	0.151%
66	20.262	2933	2937	2941	rBV	1321467	1708302	3.32%	0.312%
67	20.309	2941	2945	2950	rBV2	1439805	2154964	4.19%	0.394%
68	20.527	2978	2982	2985	rBV3	729550	1217069	2.37%	0.223%
69	20.715	3009	3014	3020	rVB	5896069	7447138	14.47%	1.362%
70	20.774	3021	3024	3027	rBV4	246905	378671	0.74%	0.069%
71	20.874	3035	3041	3045	rBV2	3134413	6202372	12.05%	1.134%

LSC Area Percent Report

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Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Title : SVOA CALIBRATION

72	20.921	3045	3049	3052	rVV	3207612	4289353	8.34%	0.785%
73	20.974	3052	3058	3061	rVV2	3411357	7927604	15.41%	1.450%
74	21.009	3061	3064	3073	rVB	4897743	6794492	13.20%	1.243%
75	21.121	3079	3083	3091	rVB3	711458	1353612	2.63%	0.248%
76	21.227	3091	3101	3106	rBV3	23047476	43176123	83.90%	7.897%
77	21.274	3106	3109	3119	rVB	18627777	24419131	47.45%	4.467%
78	21.391	3125	3129	3132	rBV	923634	1423765	2.77%	0.260%
79	21.433	3133	3136	3138	rVV2	920117	1326011	2.58%	0.243%
80	21.486	3142	3145	3150	rVB3	1390654	2109590	4.10%	0.386%
81	21.539	3150	3154	3160	rBV2	2841783	4409483	8.57%	0.807%
82	21.591	3160	3163	3167	rBV3	777855	976747	1.90%	0.179%
83	21.727	3183	3186	3189	rBV	772913	958065	1.86%	0.175%
84	21.780	3191	3195	3199	rVB	3193849	4296923	8.35%	0.786%
85	21.833	3200	3204	3212	rBV3	1763909	3192631	6.20%	0.584%
86	21.974	3224	3228	3231	rBV2	1139121	1643647	3.19%	0.301%
87	22.074	3242	3245	3254	rVB3	1112081	1880641	3.65%	0.344%
88	22.244	3270	3274	3279	rBV2	904103	1631254	3.17%	0.298%
89	22.521	3317	3321	3335	rVB3	1521354	4200271	8.16%	0.768%
90	22.791	3359	3367	3371	rBV2	15852630	36304239	70.55%	6.641%
91	22.950	3389	3394	3404	rVB	2722195	4399173	8.55%	0.805%
92	23.080	3412	3416	3428	rBV3	1176076	3597857	6.99%	0.658%
93	23.256	3440	3446	3451	rBV	7976879	15192658	29.52%	2.779%
94	23.303	3451	3454	3457	rVV	3208543	5202977	10.11%	0.952%
95	23.350	3457	3462	3471	rVB	12953255	23268615	45.22%	4.256%
96	23.444	3472	3478	3482	rBV	4210463	8019574	15.58%	1.467%
97	23.491	3482	3486	3494	rVB2	4087030	7873010	15.30%	1.440%
98	24.032	3574	3578	3583	rVB	1001619	1657290	3.22%	0.303%
99	25.662	3845	3855	3865	rVB	7994984	23364435	45.40%	4.274%
100	26.338	3961	3970	3985	rVB	5314230	16608545	32.27%	3.038%

Sum of corrected areas: 546707828

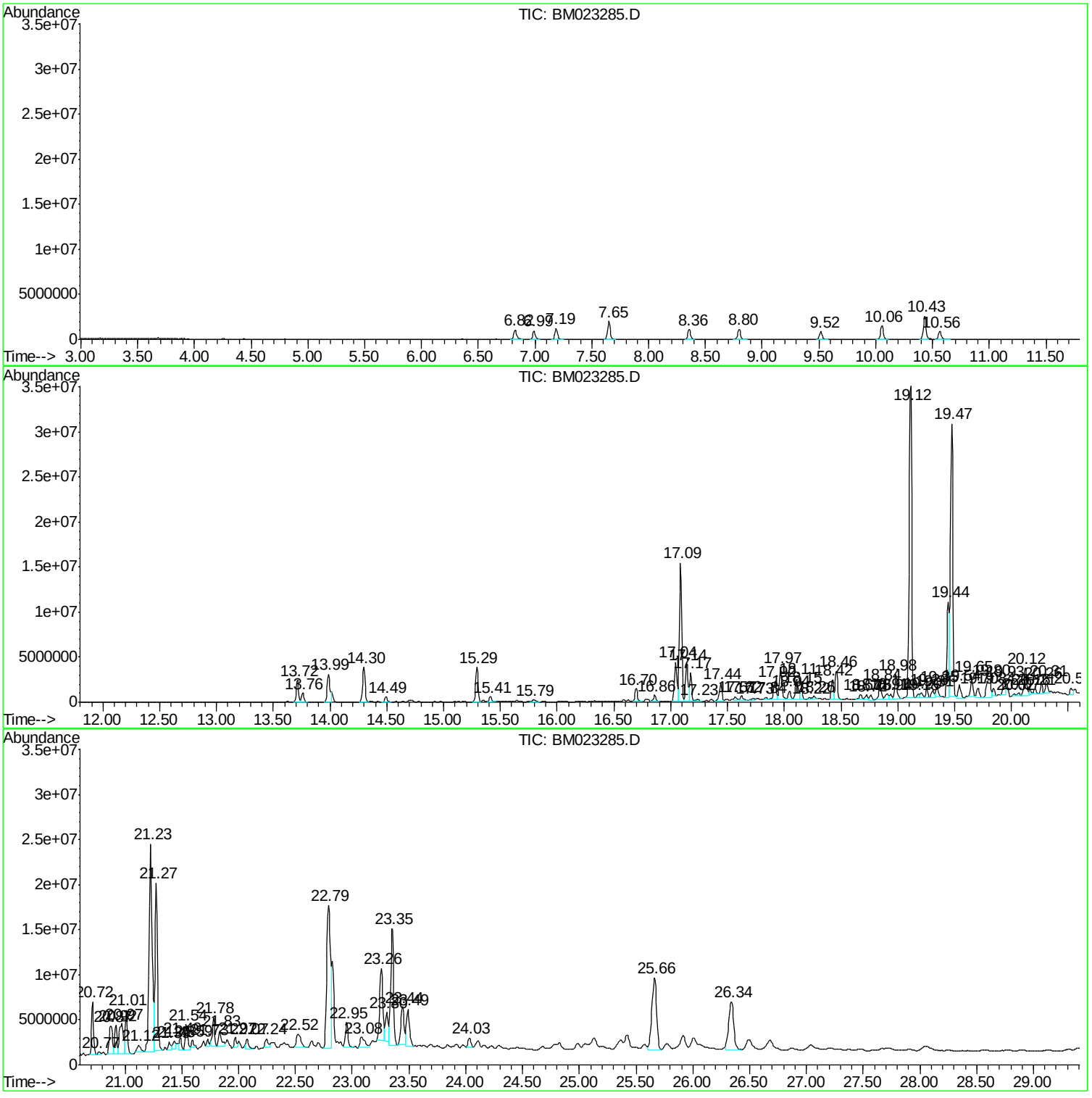
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101919\
Data File : BM023285.D
Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101919\
Data File : BM023285.D
Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

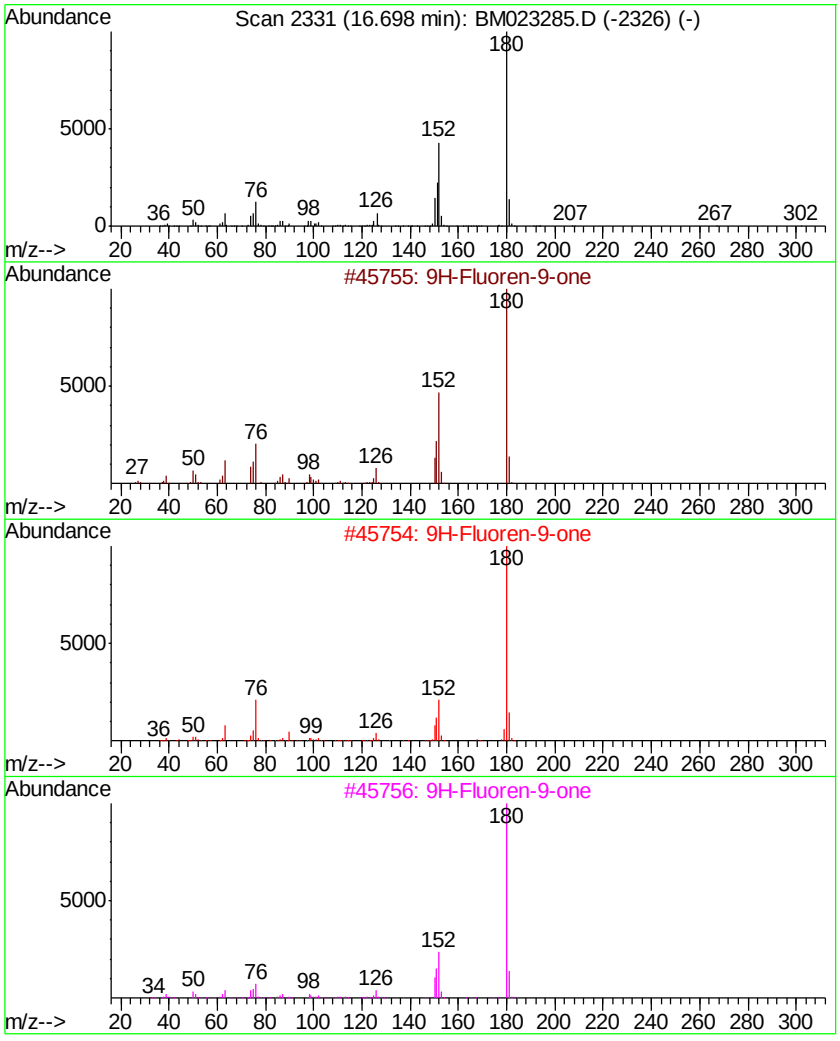
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

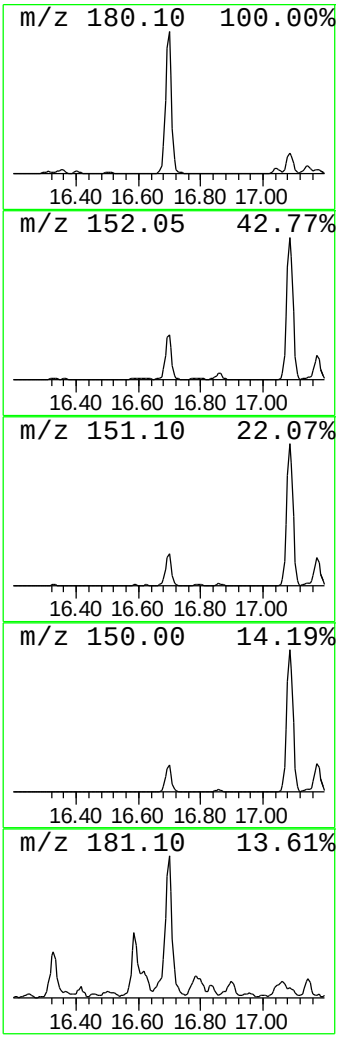
****

Peak Number 1 9H-Fluoren-9-one Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	6.27 ng/ul	2085980	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101919\
Data File : BM023285.D
Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

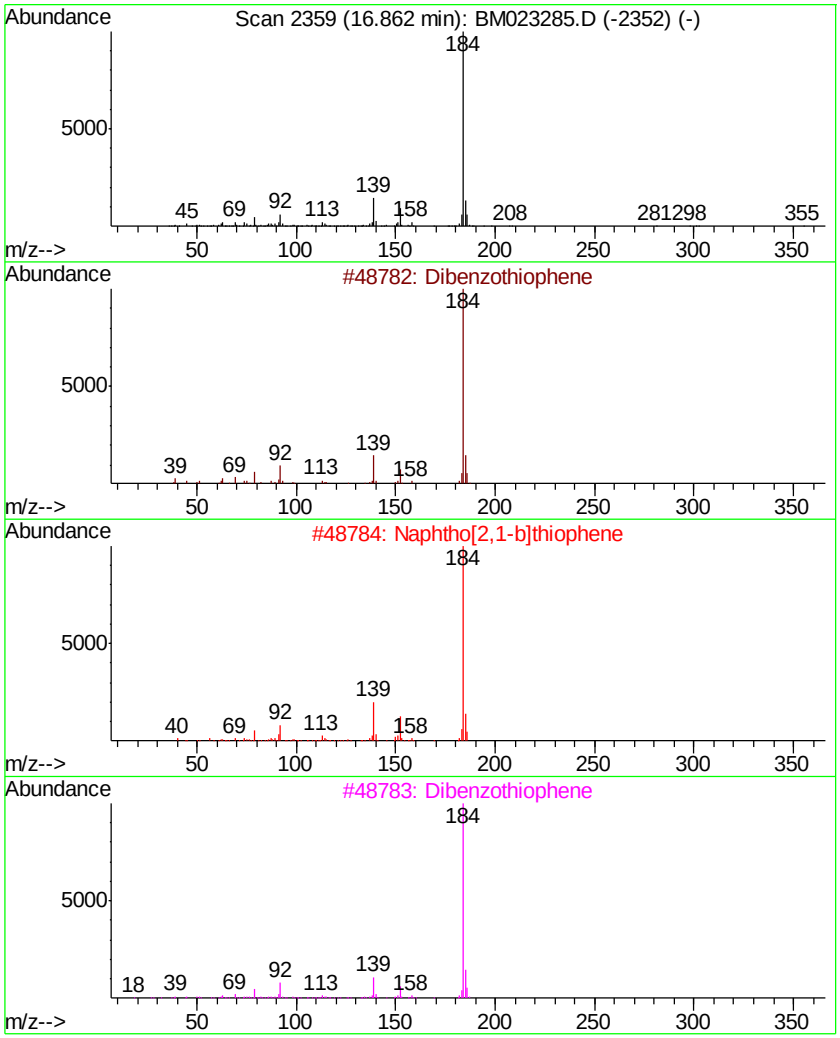
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

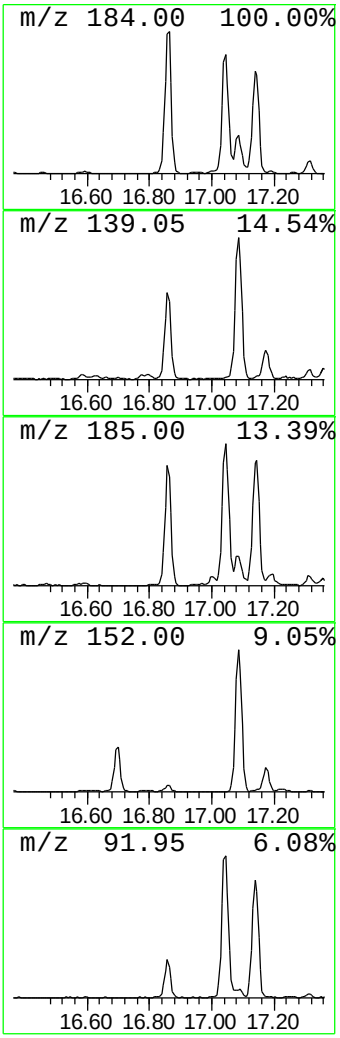
****

Peak Number 2 Dibenzothiophene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.86	2.96 ng/ul	985162	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
3	Dibenzothiophene	184	C12H8S	000132-65-0	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101919\
Data File : BM023285.D
Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

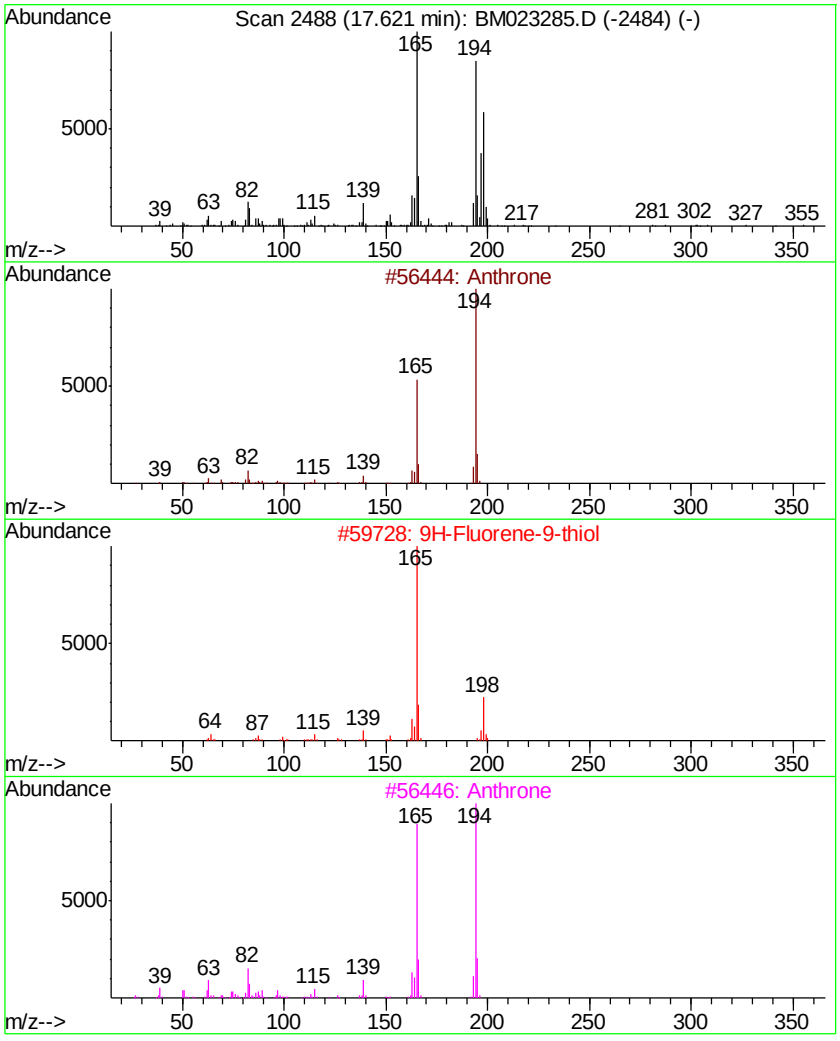
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

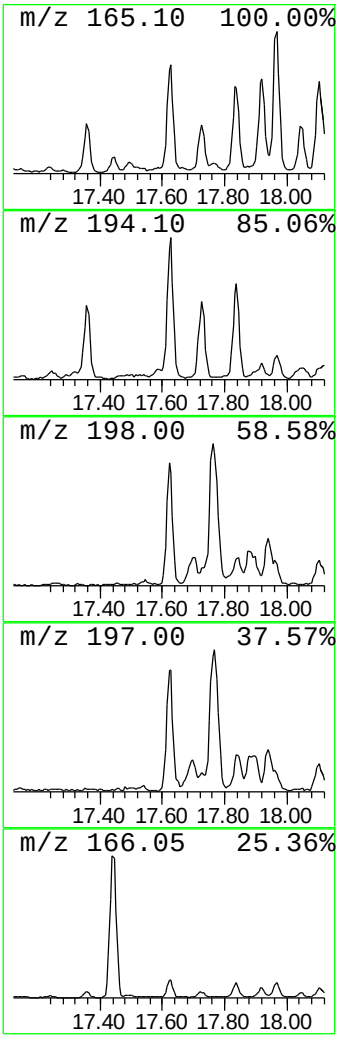
****

Peak Number 3 Anthrone Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.62	2.49 ng/ul	827981	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthrone	194	C14H10O	000090-44-8	93
2	9H-Fluorene-9-thiol	198	C13H10S	019552-08-0	90
3	Anthrone	194	C14H10O	000090-44-8	86
4	Anthrone	194	C14H10O	000090-44-8	76
5	3-Phenanthrol	194	C14H10O	000605-87-8	70





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101919\
Data File : BM023285.D
Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

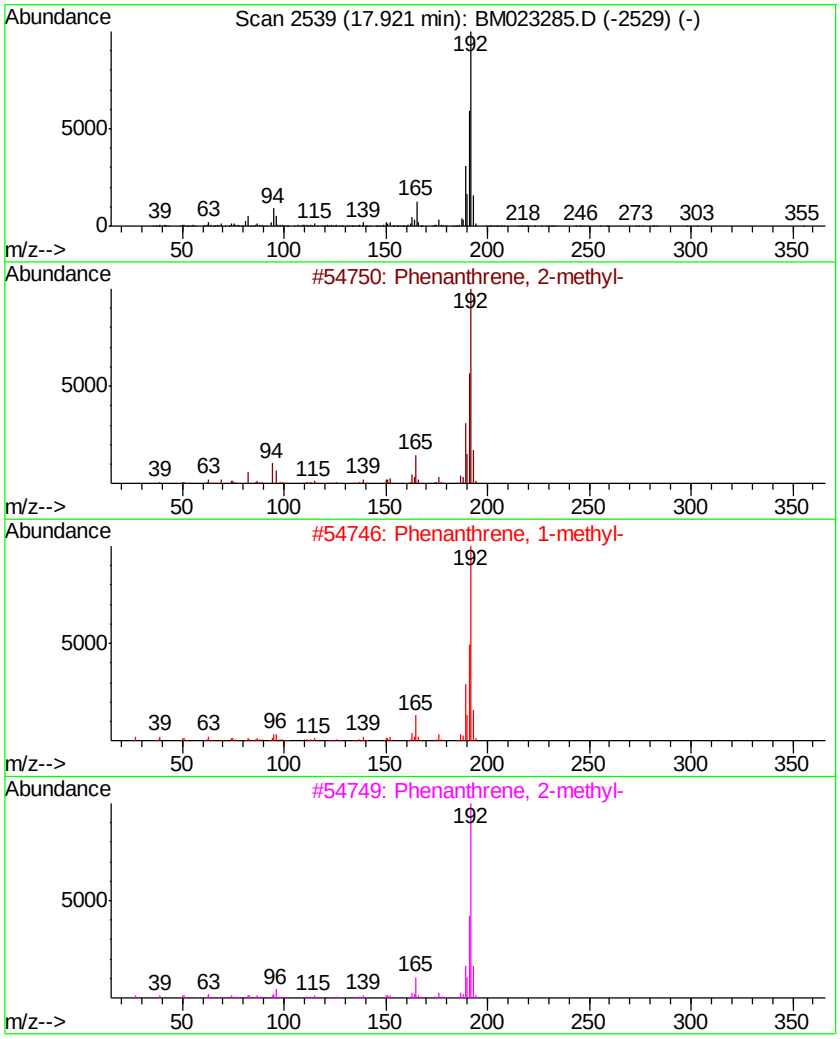
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

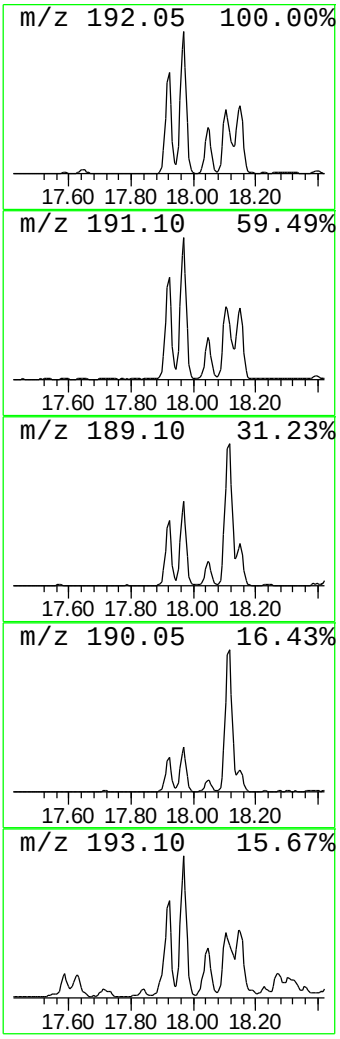
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.92	9.83 ng/ul	3271560	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101919\
Data File : BM023285.D
Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

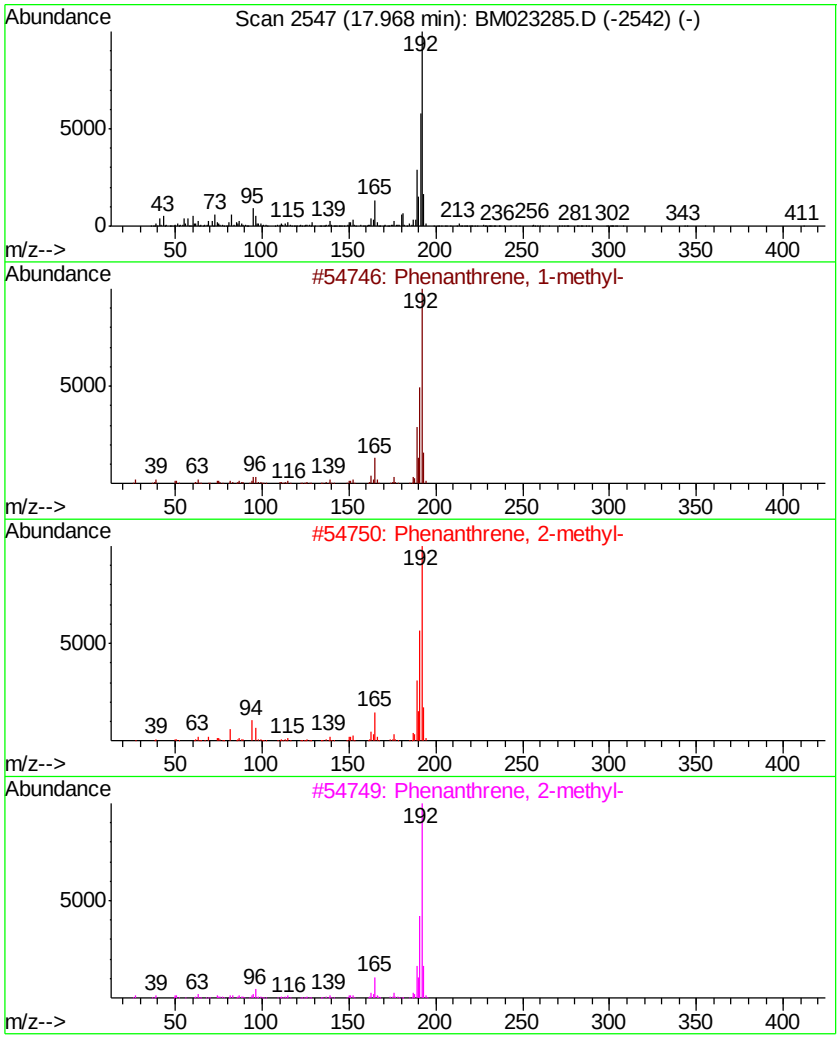
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

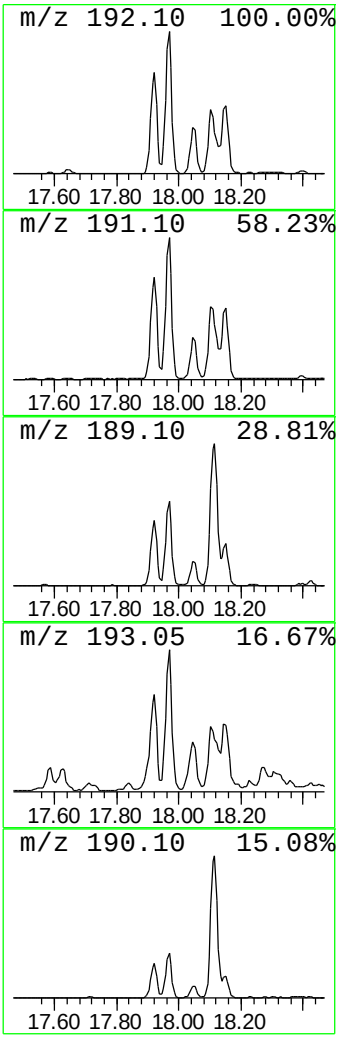
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.97	16.44 ng/ul	5469820	Phenanthrene-d10	17.04

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





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Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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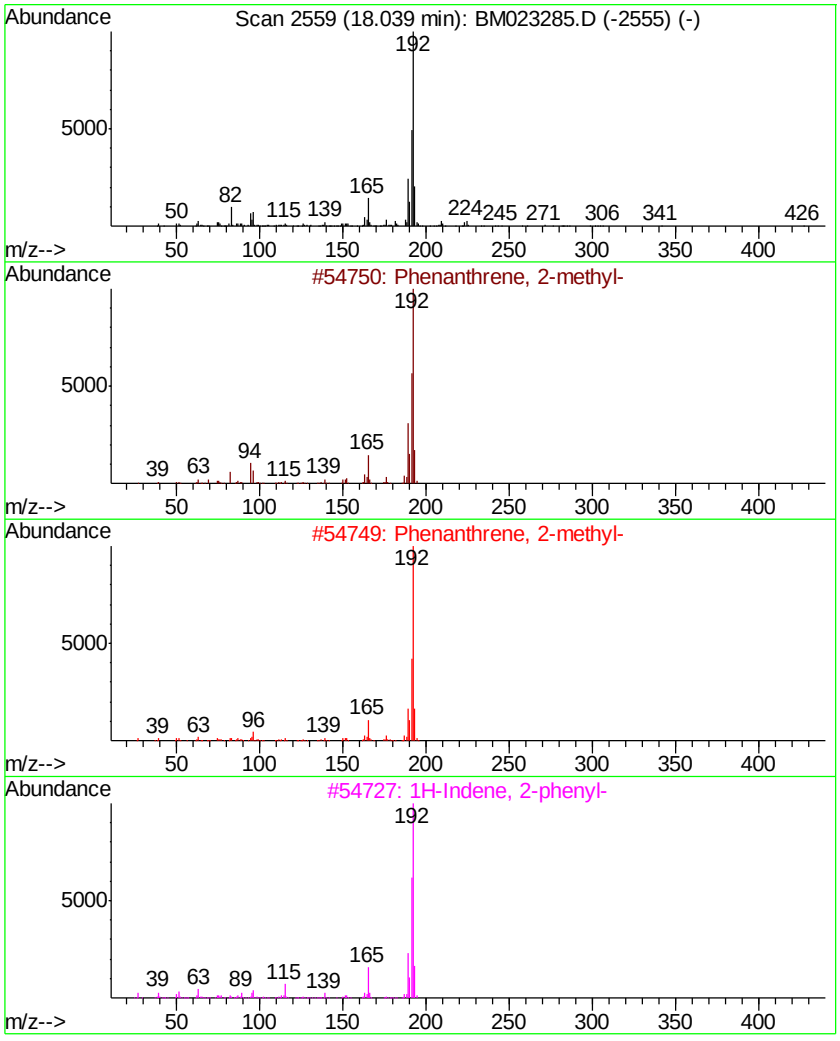
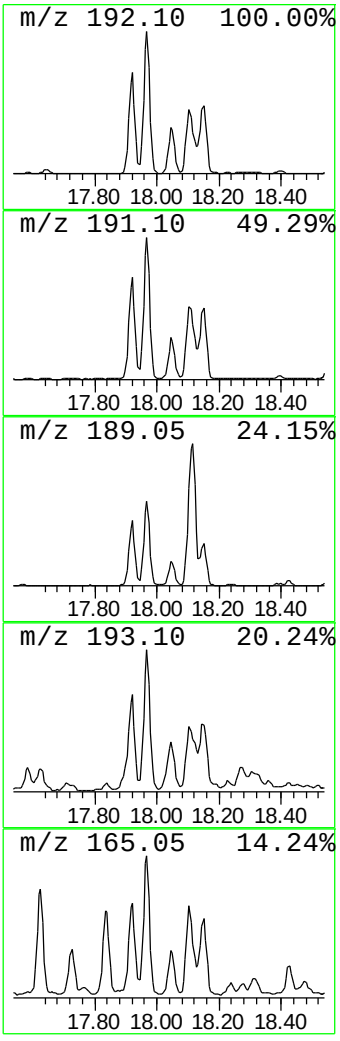
Peak Number 6 1H-Indene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.04	4.52 ng/ul	1502480	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94





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ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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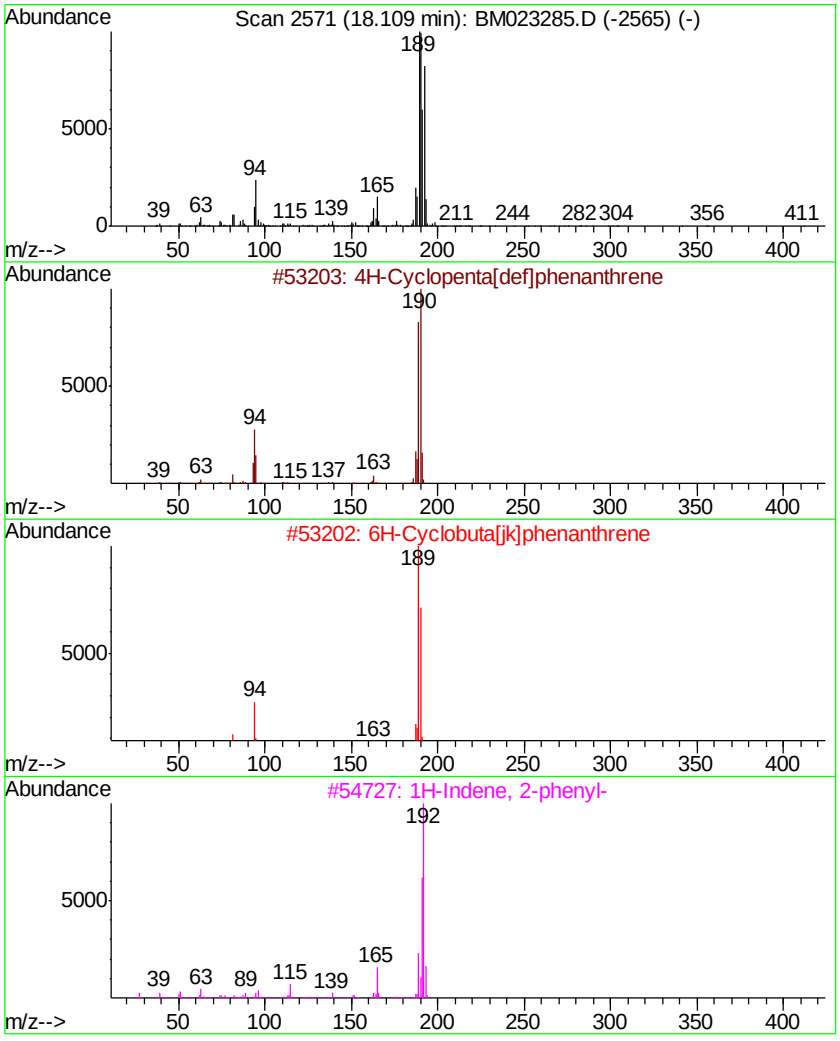
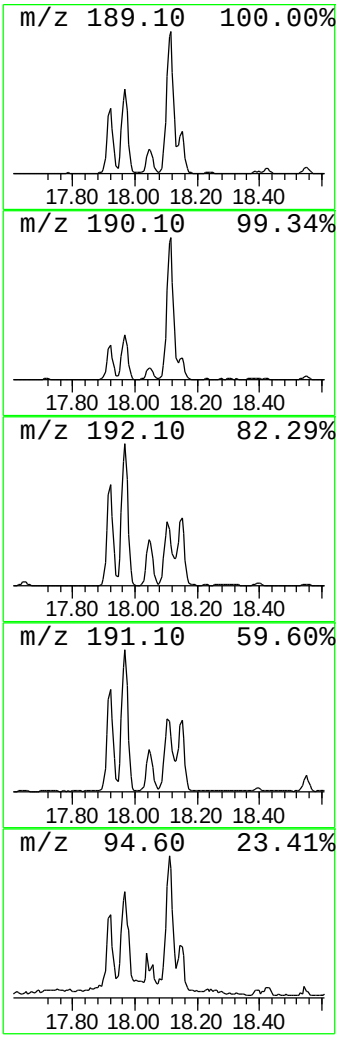
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.11	12.41 ng/ul	4128280	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	42
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	42





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ALS Vial : 6 Sample Multiplier: 1

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ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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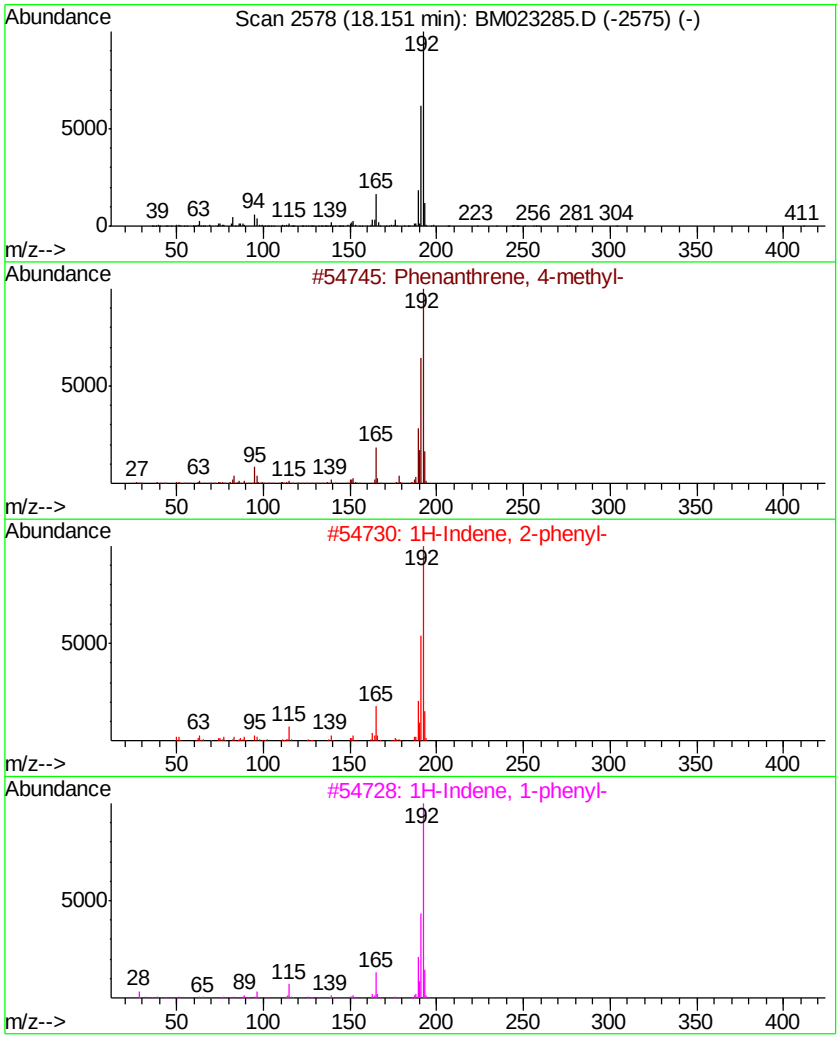
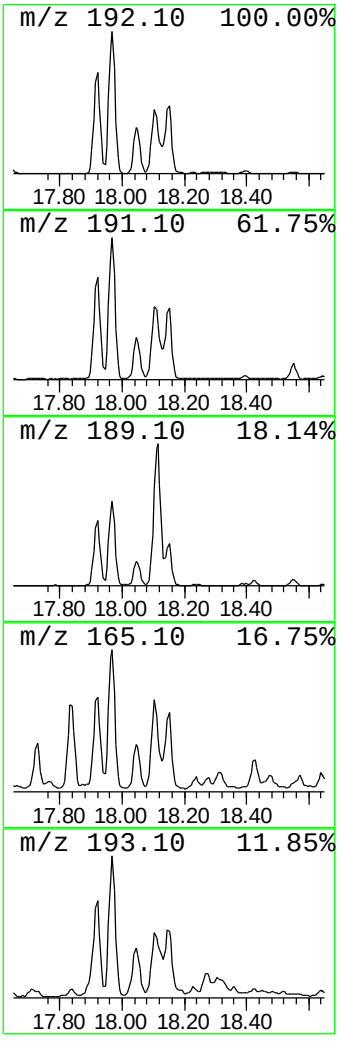
Peak Number 8 Phenanthrene, 4-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	5.41 ng/ul	1798290	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83
3	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	74
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	74
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	74





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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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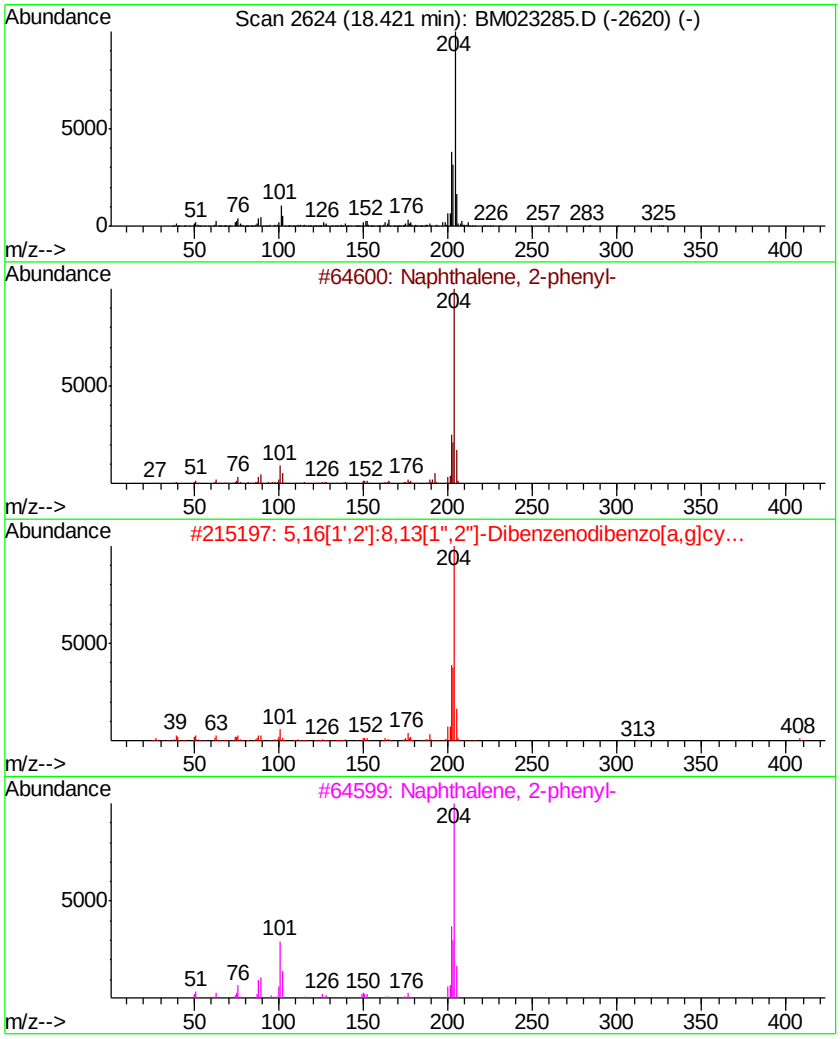
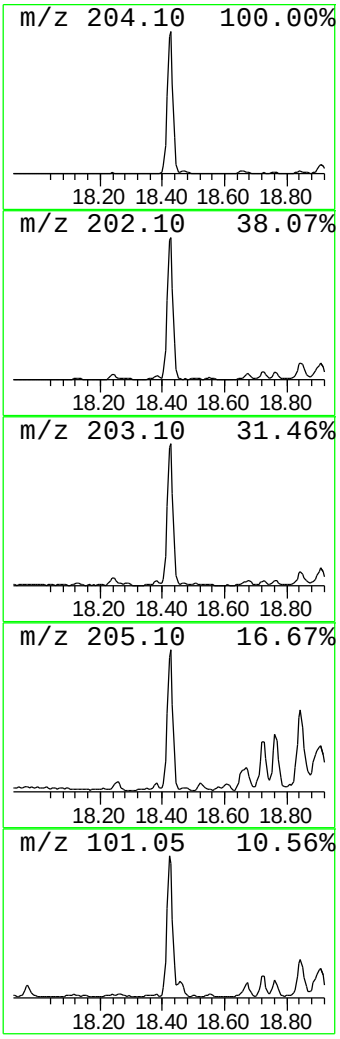
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.42	8.95 ng/ul	2978880	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	62





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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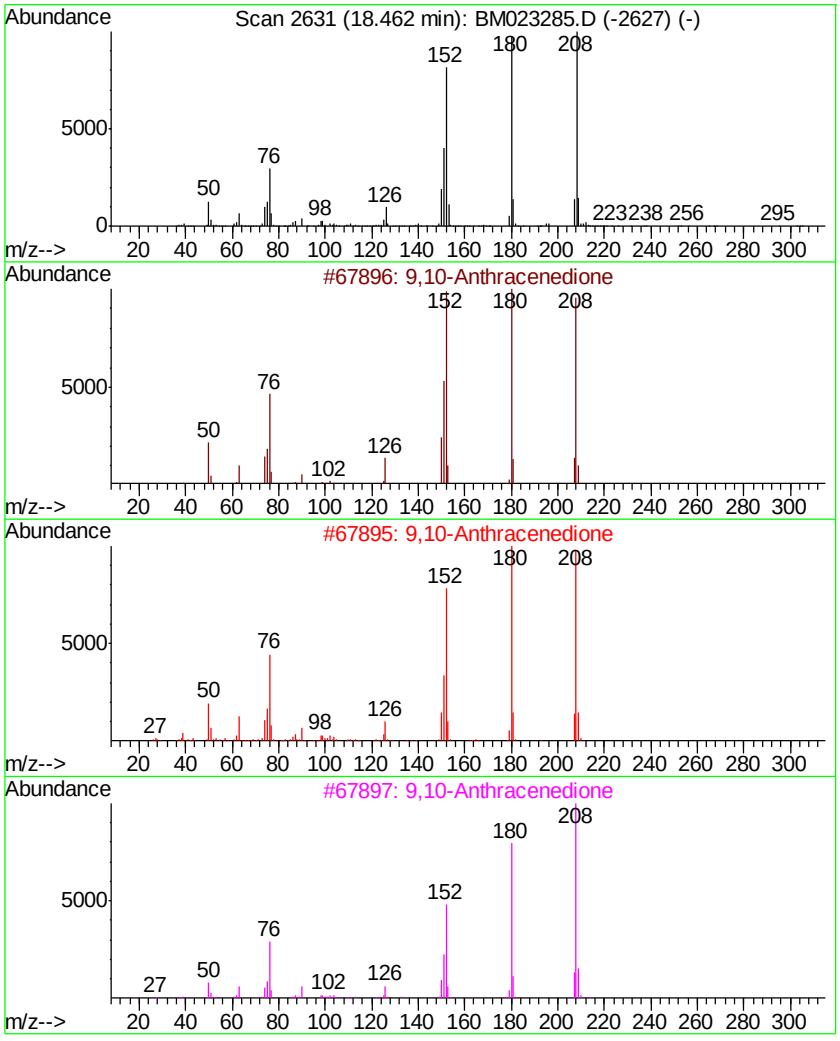
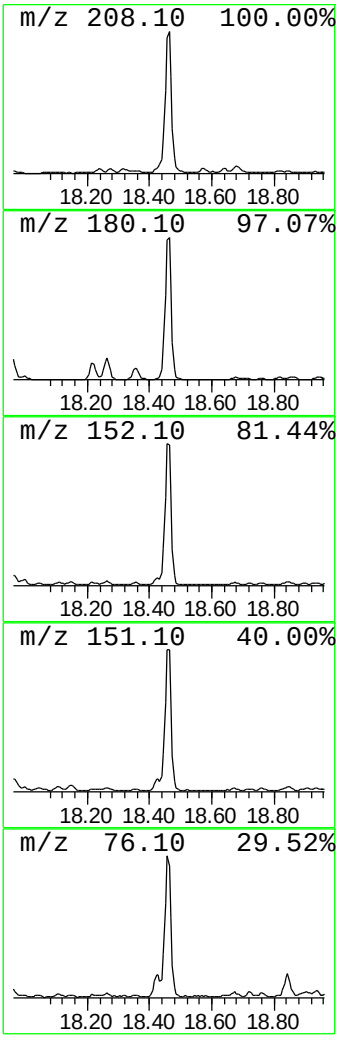
Peak Number 10 9,10-Anthracenedione Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.46	13.20 ng/ul	4391050	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60





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Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Phenanthrene, 4,5-dimethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.67	2.78 ng/ul	924687	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
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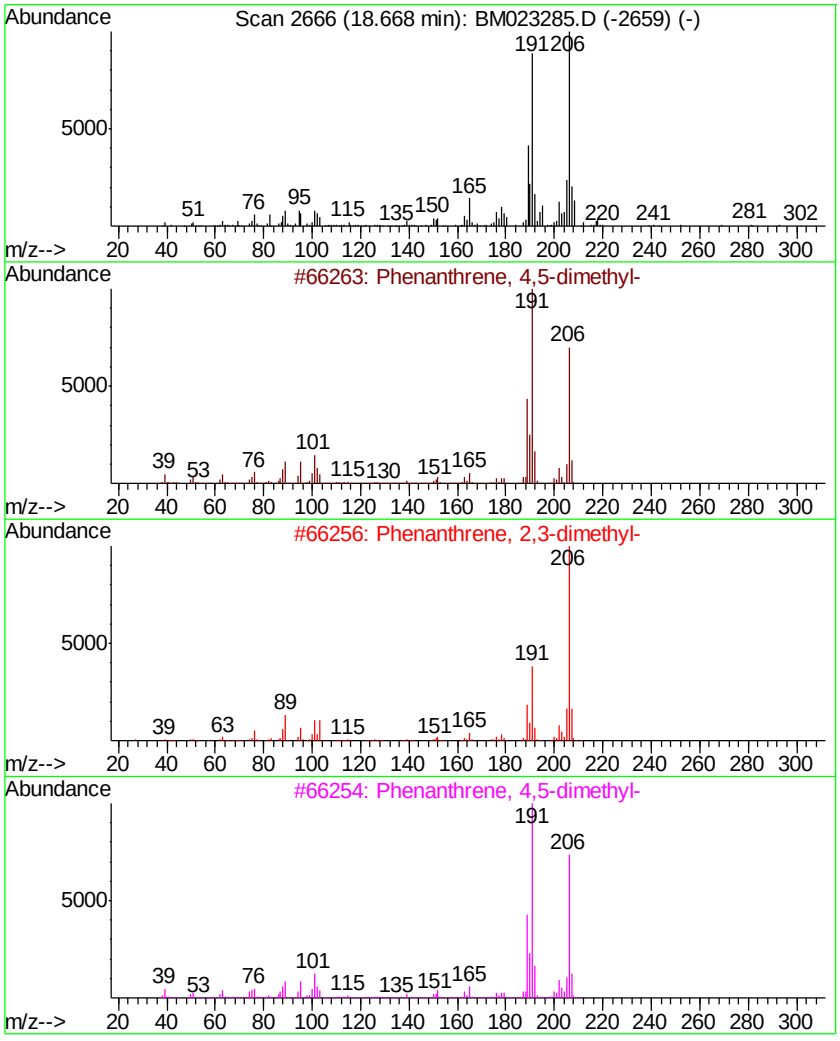

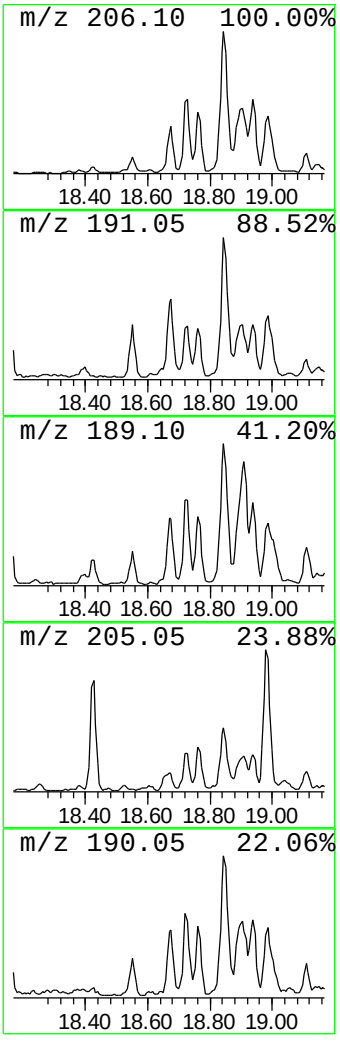

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Sample : K5378-04
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ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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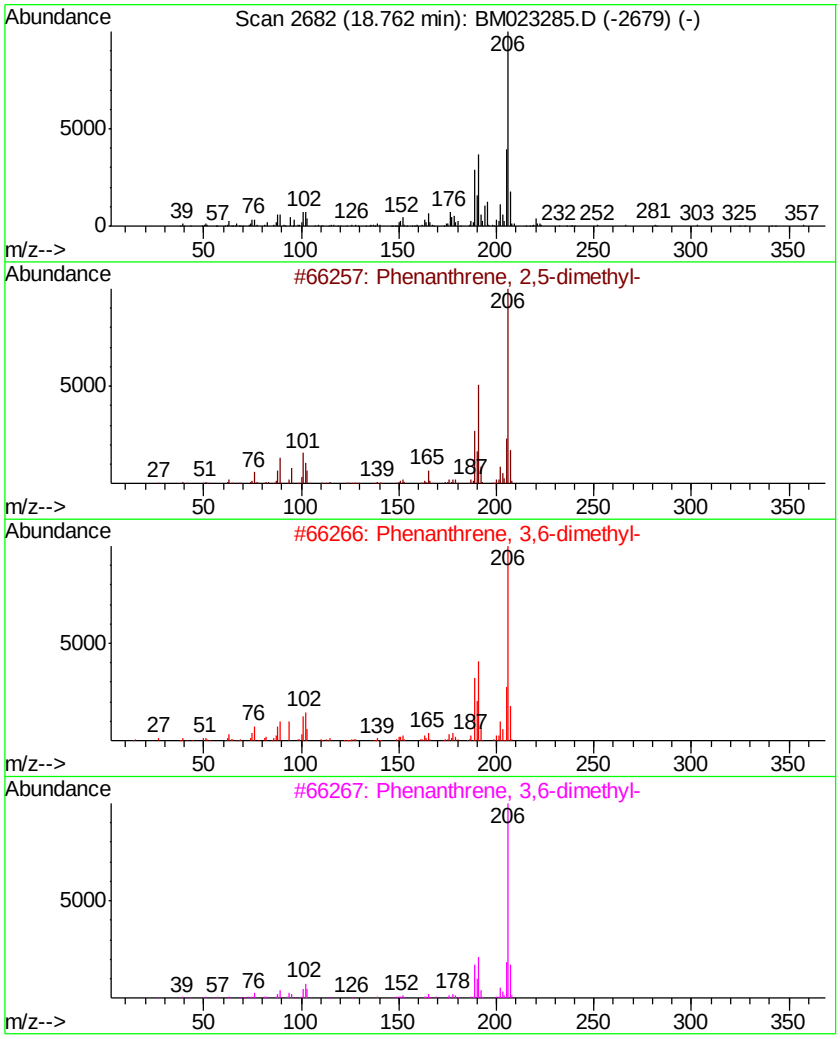
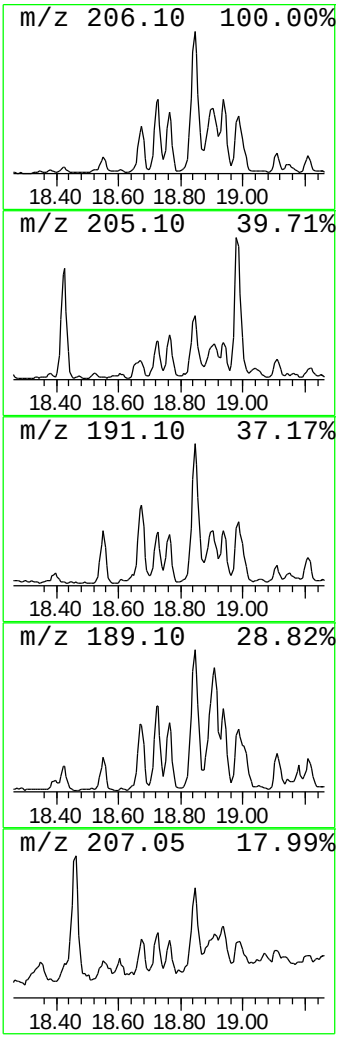
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.76	2.14 ng/ul	711194	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	89





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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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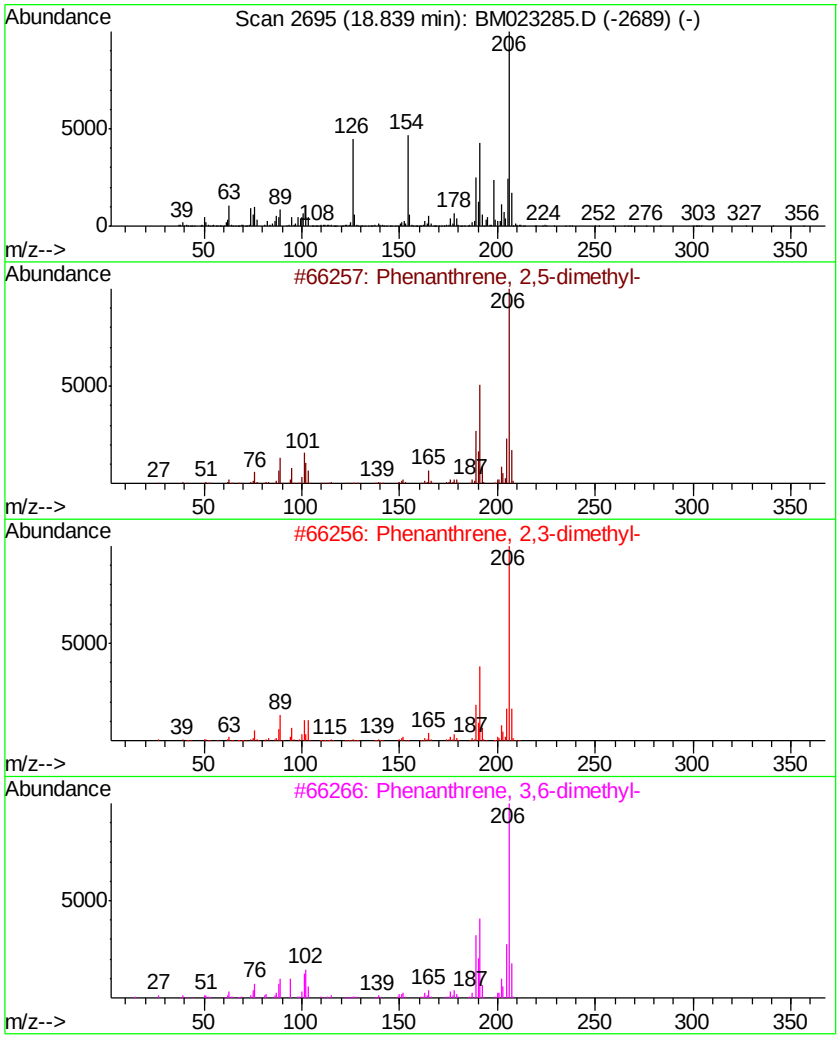
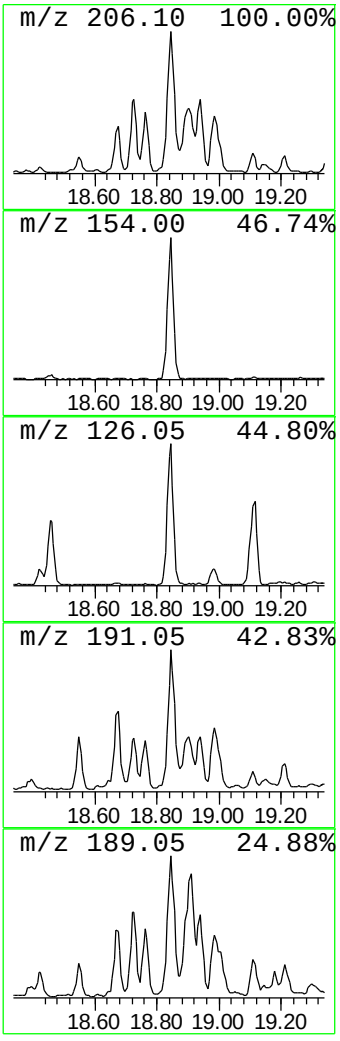
Peak Number 14 Phenanthrene, 3,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.84	8.19 ng/ul	2724000	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	78
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	78
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	70
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	70
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	70





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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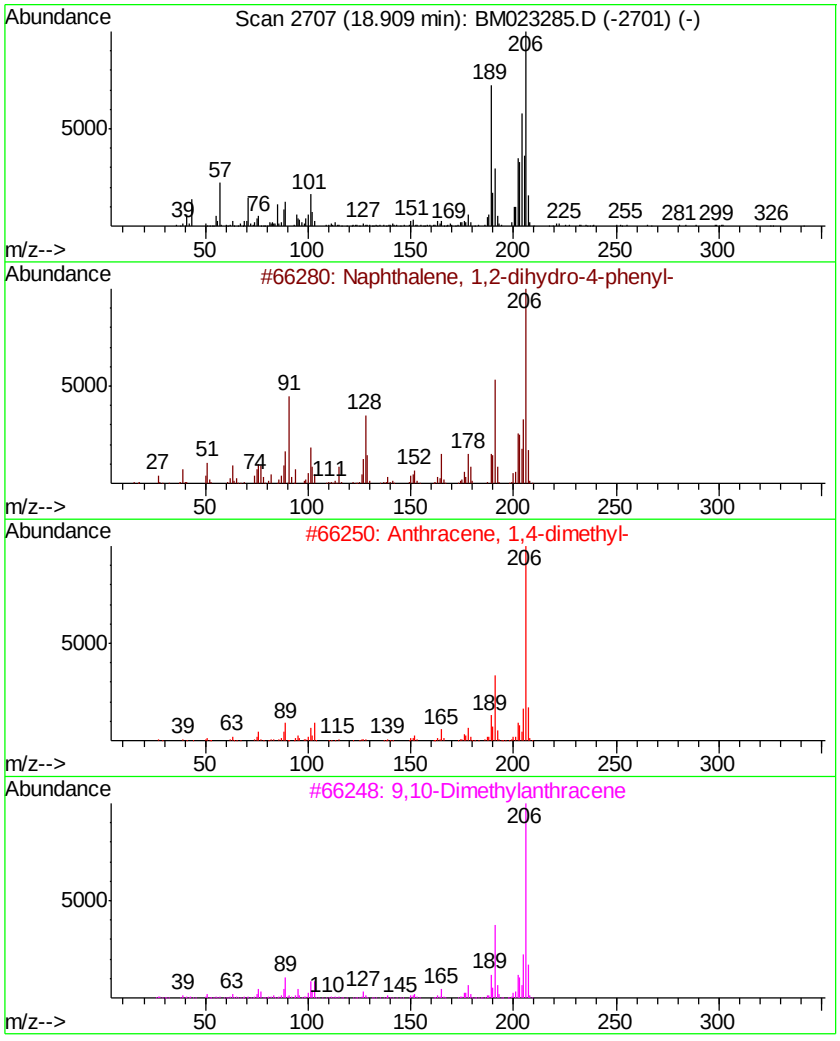
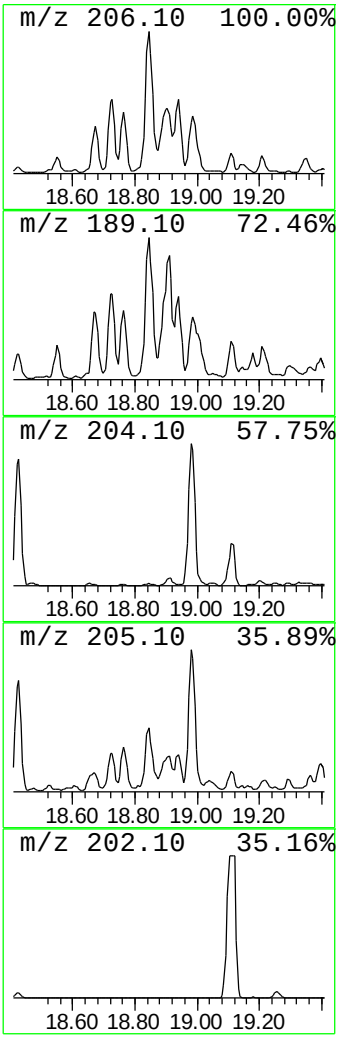
Peak Number 15 Naphthalene, 1,2-dihydro-4-... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.91	3.59 ng/ul	1193040	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	50
2	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	50
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	45
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	43
5	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	43





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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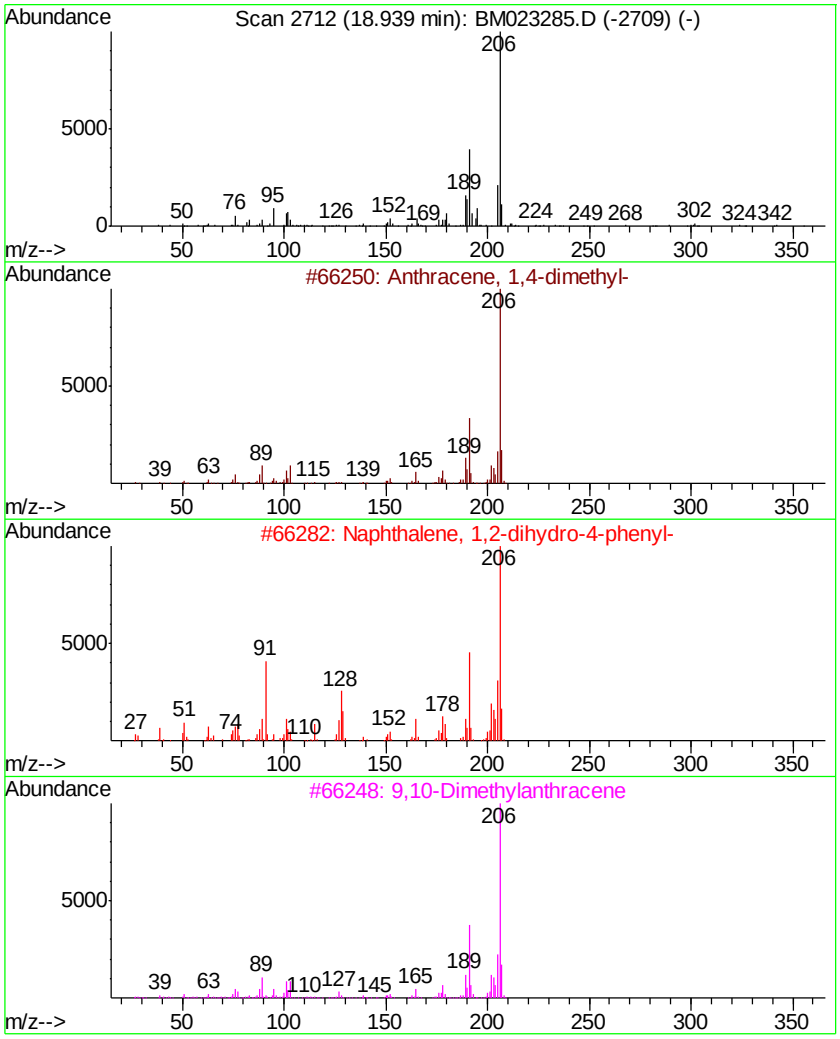
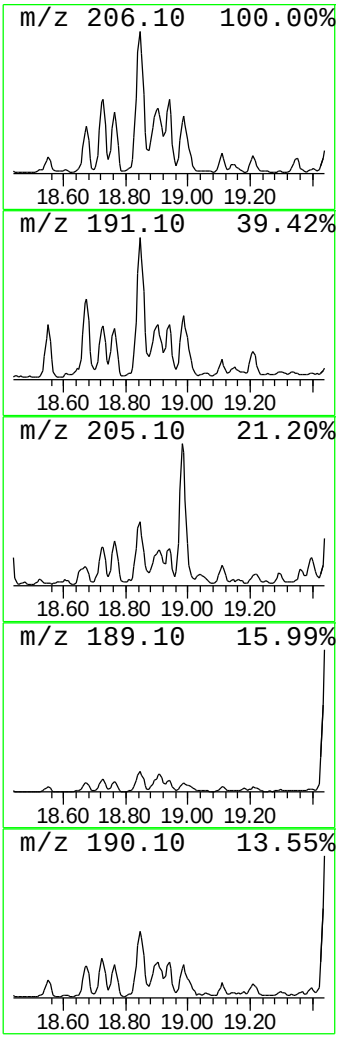
Peak Number 16 Anthracene, 1,4-dimethyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	2.22 ng/ul	739948	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	83
2	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	80
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	72
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	64
5	2H,6H-Pyrido[2,1-b]-1,3-thiazine...	206	C10H10N2OS	1000277-29-6	59





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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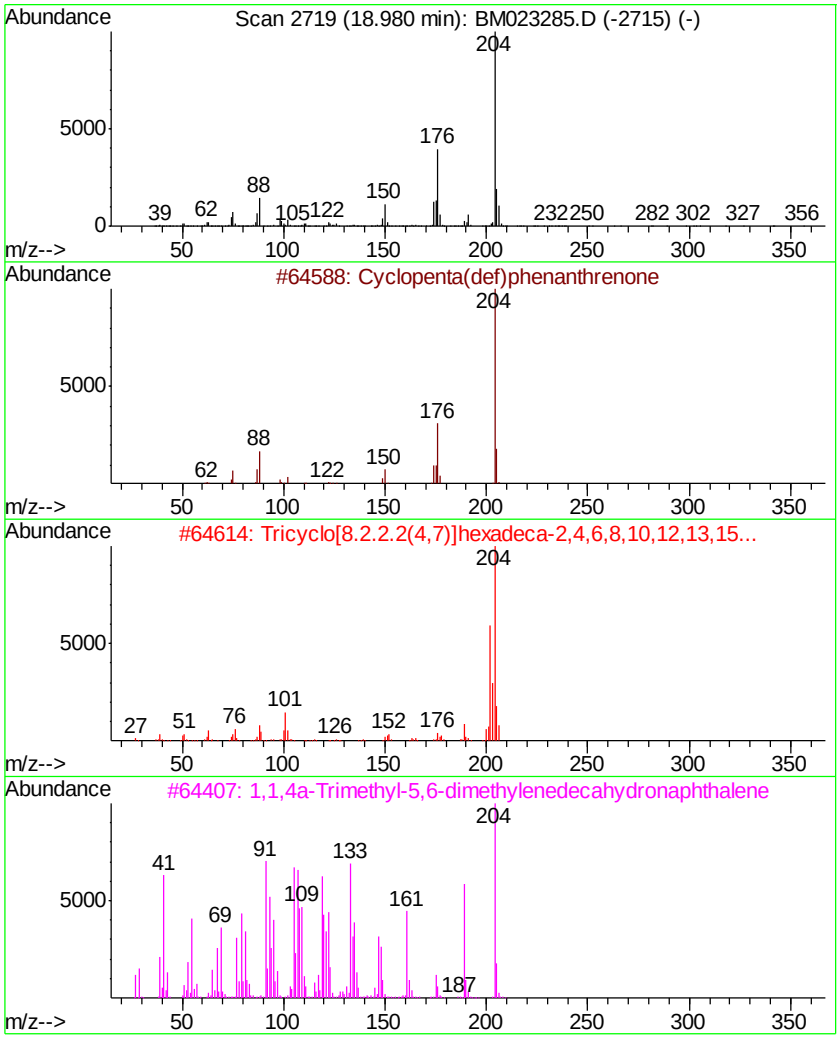
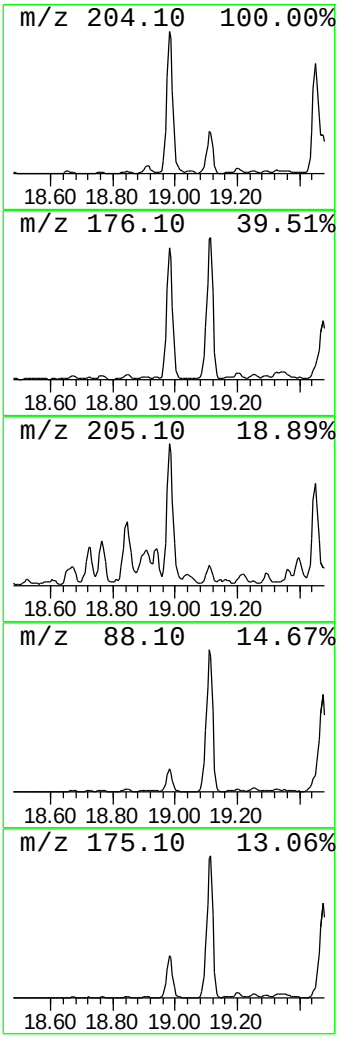
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.98	12.34 ng/ul	4104090	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	47
3	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	42
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	40
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	38





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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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TIC Integration Parameters: LSCINT.P

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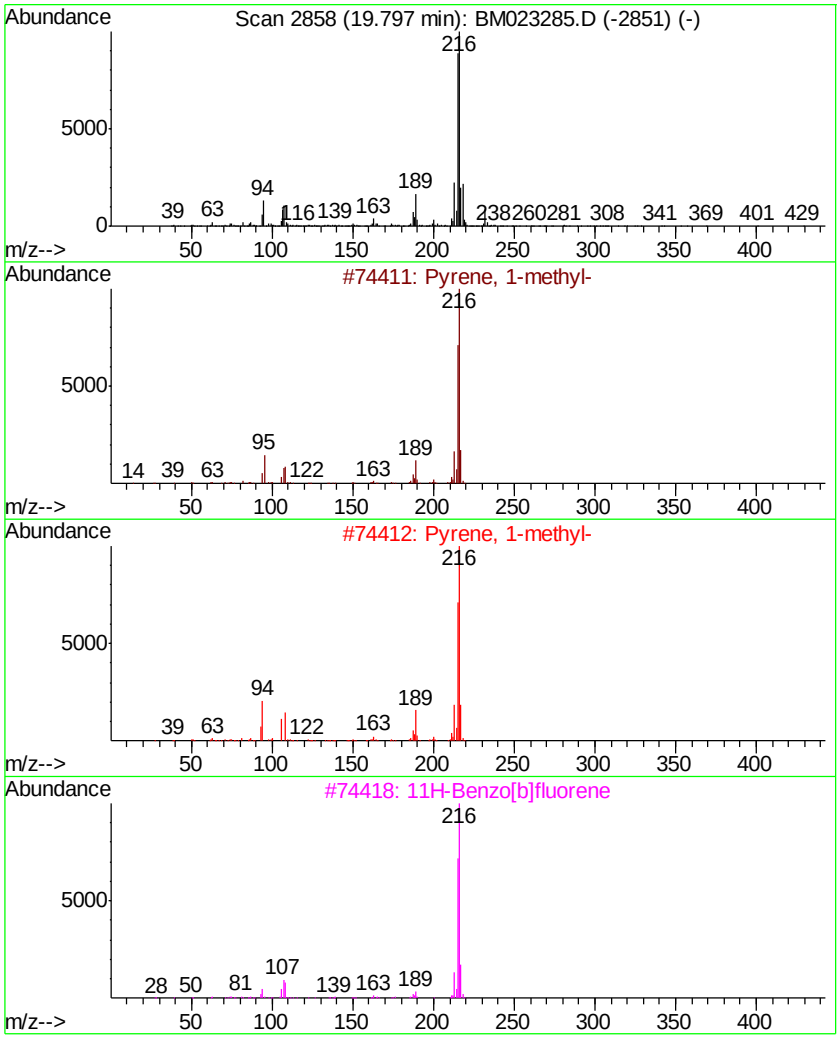
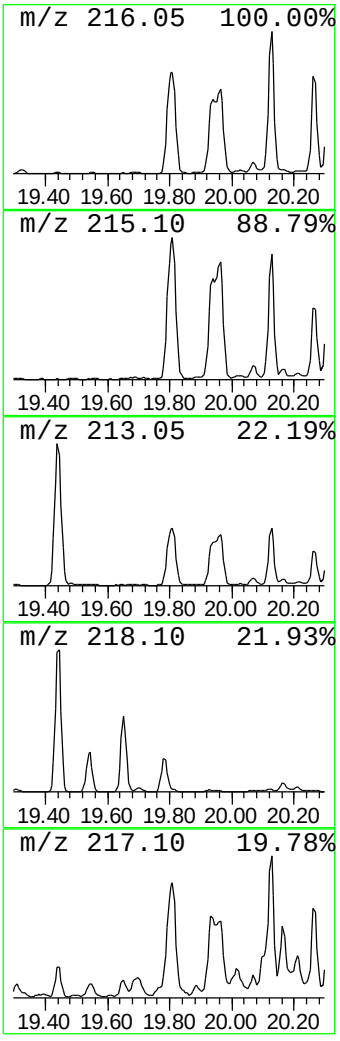
Peak Number 18 Pyrene, 1-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.80	2.45 ng/ul	5299720	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92





Library Search Compound Report

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Data File : BM023285.D
Acq On : 19 Oct 2019 13:19
Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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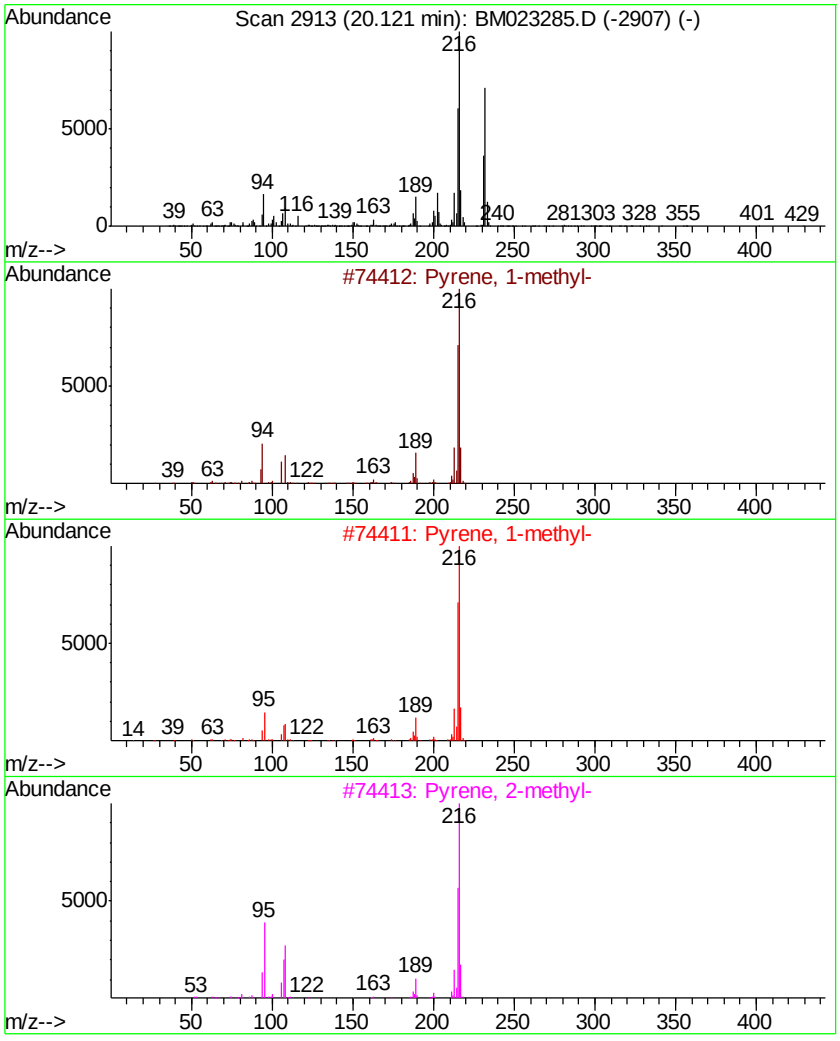
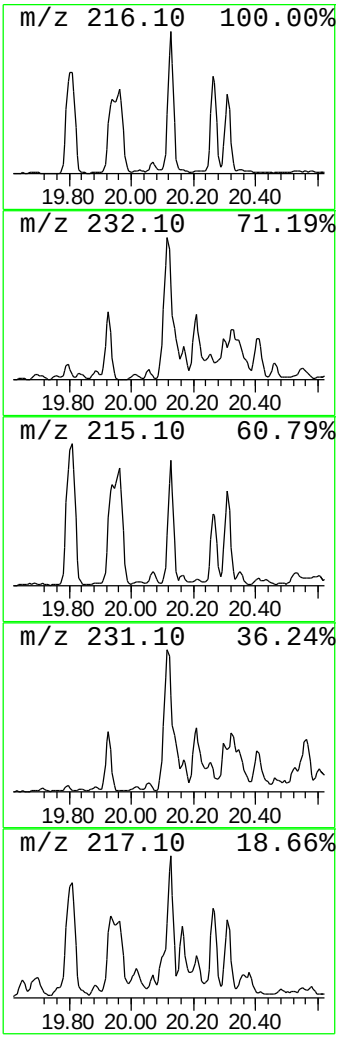
Peak Number 19 Pyrene, 2-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.12	2.49 ng/ul	5379880	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90





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Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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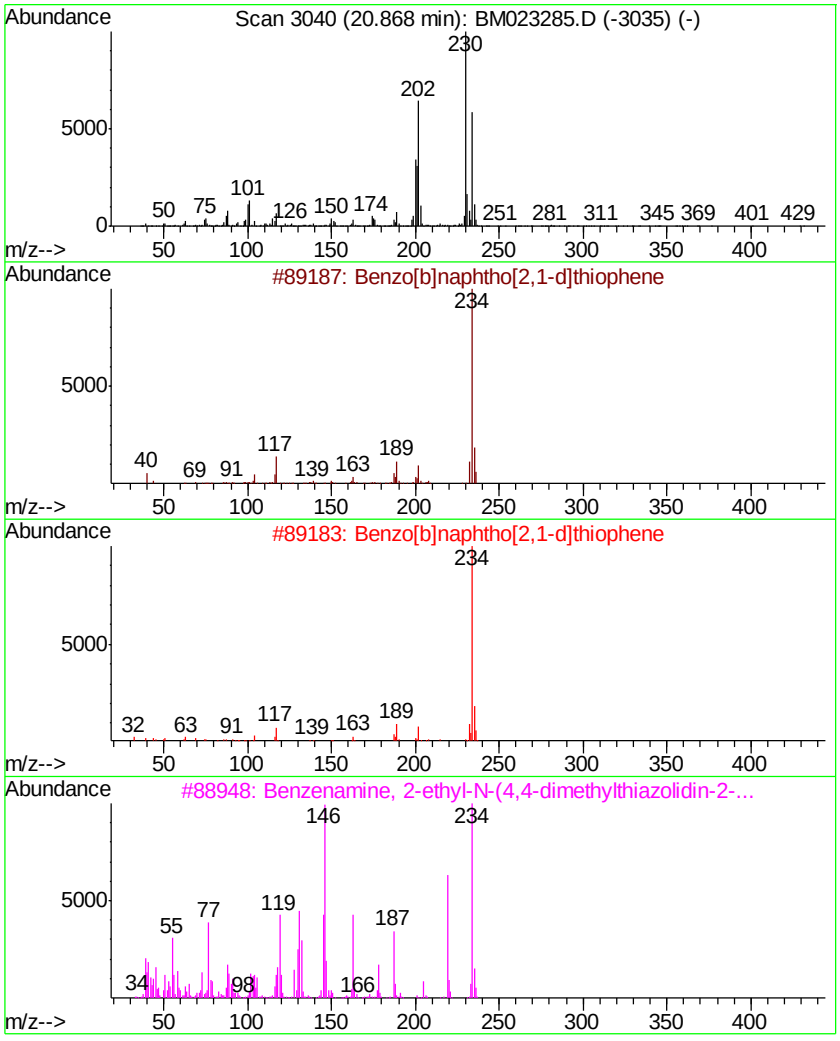
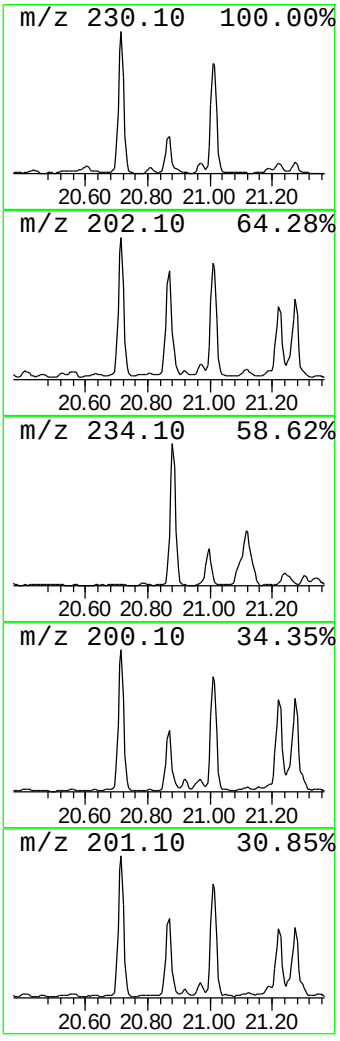
Peak Number 21 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.87	2.87 ng/ul	6202370	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	92
3	Benzenamine, 2-ethyl-N-(4,4-dime...	234	C13H18N2S	1000272-26-2	86
4	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	78
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	64





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Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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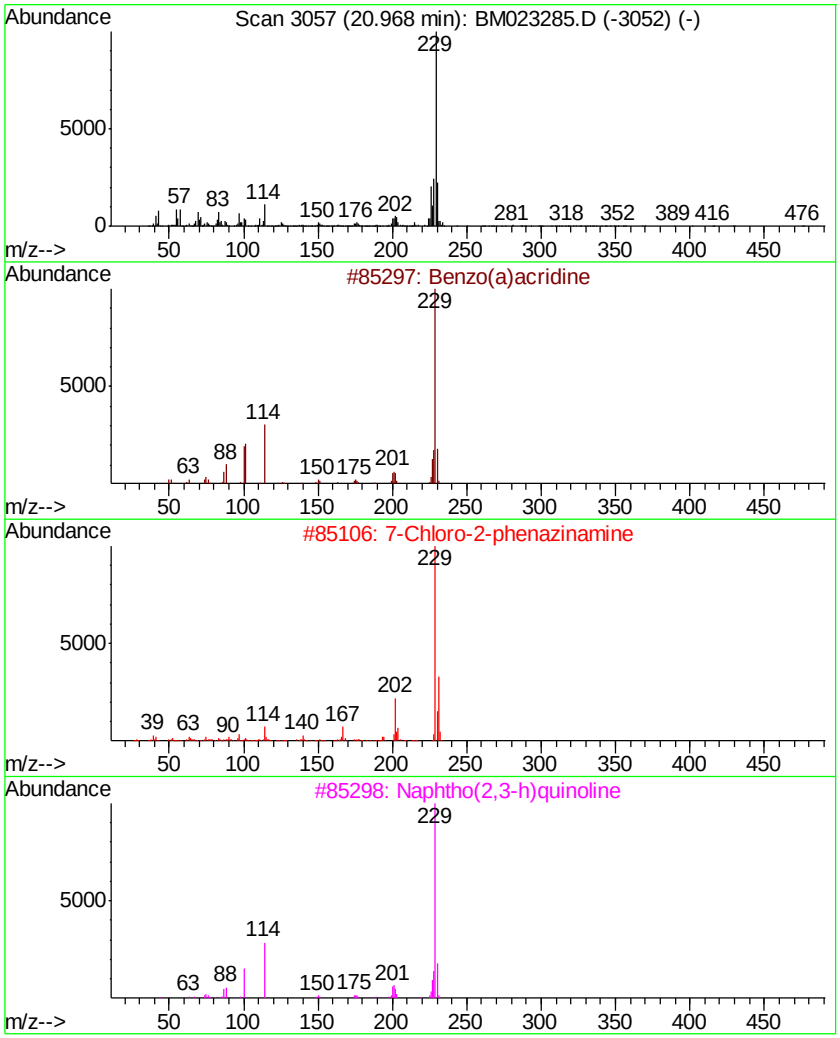
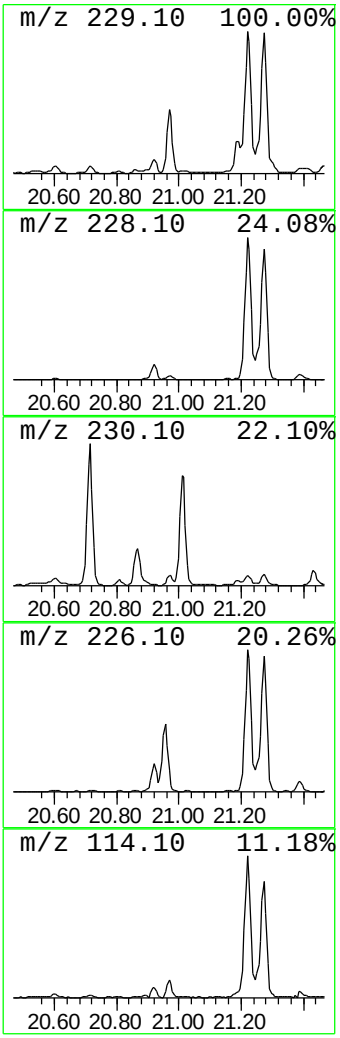
Peak Number 22 Benzo(a)acridine Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.97	3.67 ng/ul	7927600	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)acridine	229	C17H11N	000225-11-6	72
2	7-Chloro-2-phenazinamine	229	C12H8ClN3	023677-11-4	53
3	Naphtho(2,3-h)quinoline	229	C17H11N	000084-56-0	53
4	Malononitrile, 2-indeno[1,2-b]py...	229	C15H7N3	1000316-60-9	50
5	Naphtho(2,1-f)quinoline	229	C17H11N	000218-08-6	50





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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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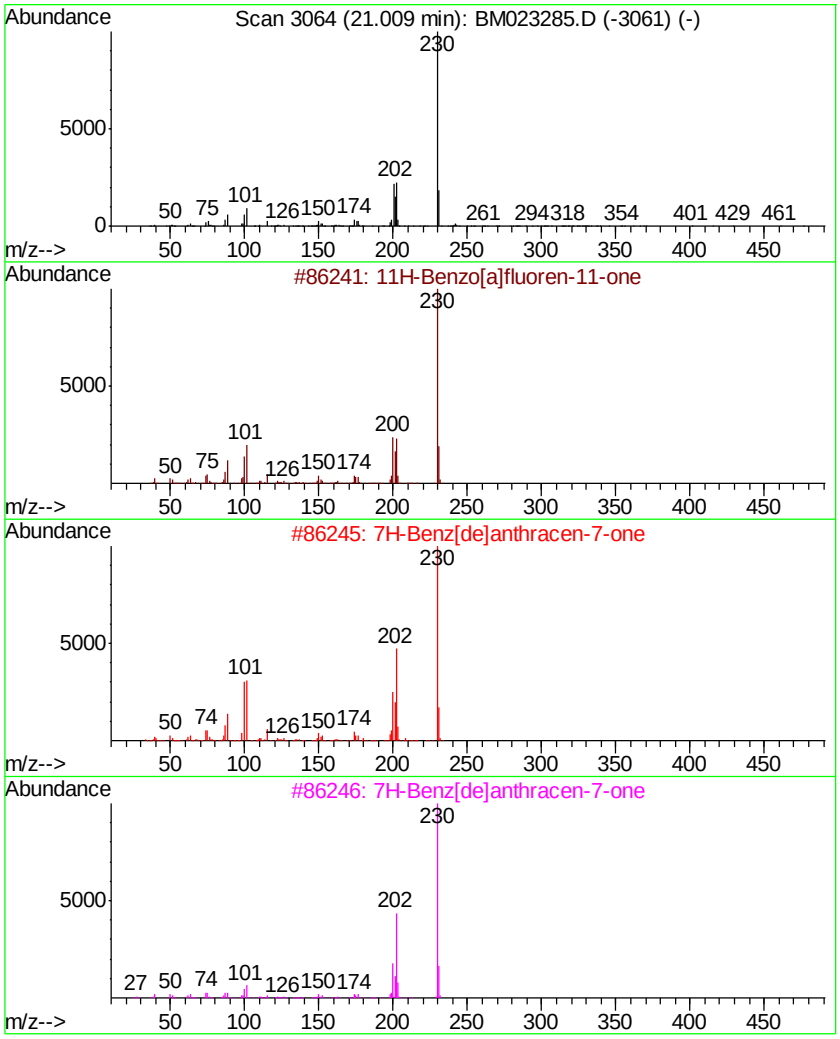
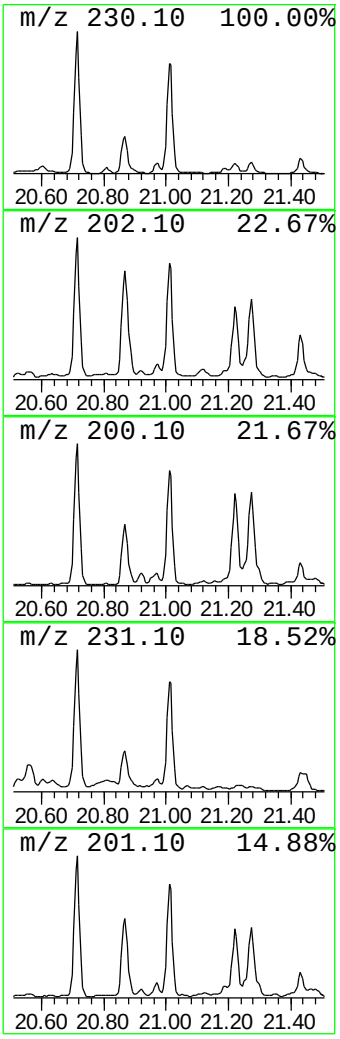
Peak Number 23 11H-Benzo[a]fluoren-11-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.01	3.15 ng/ul	6794490	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	95
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	86





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Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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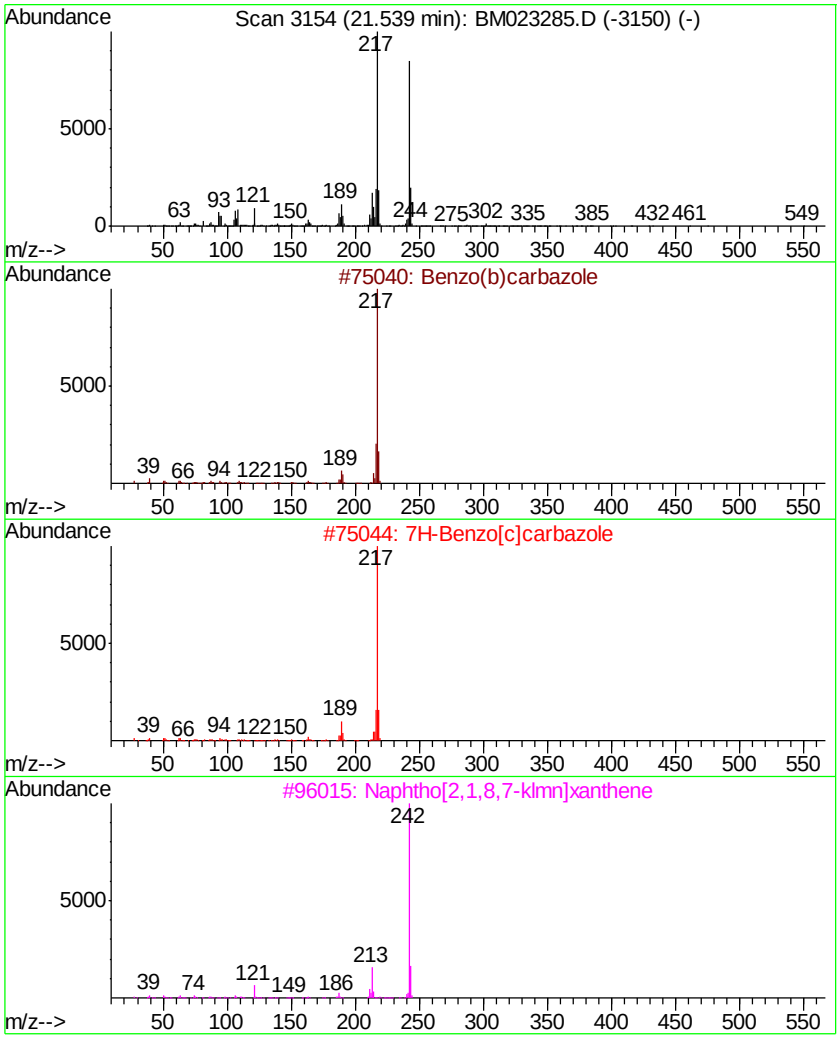
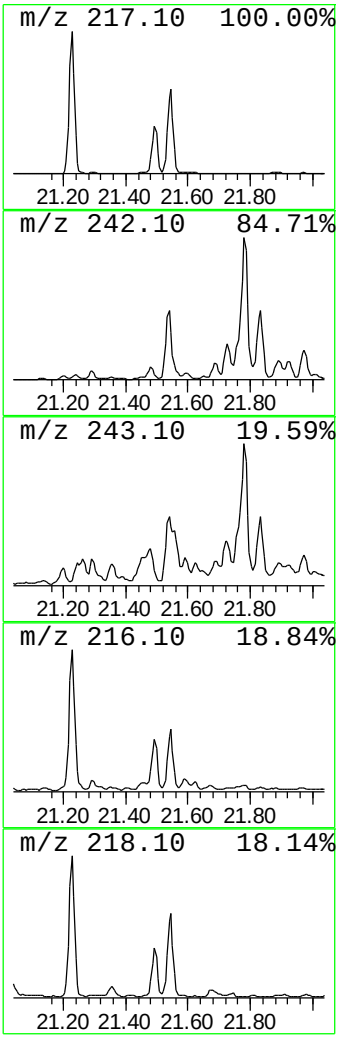
Peak Number 24 Benzo(b)carbazole Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.54	2.04 ng/ul	4409480	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(b)carbazole	217	C16H11N	000243-28-7	50
2	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	46
3	Naphtho[2,1,8,7-klmn]xanthene	242	C18H10O	000191-37-7	41
4	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	41
5	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	41





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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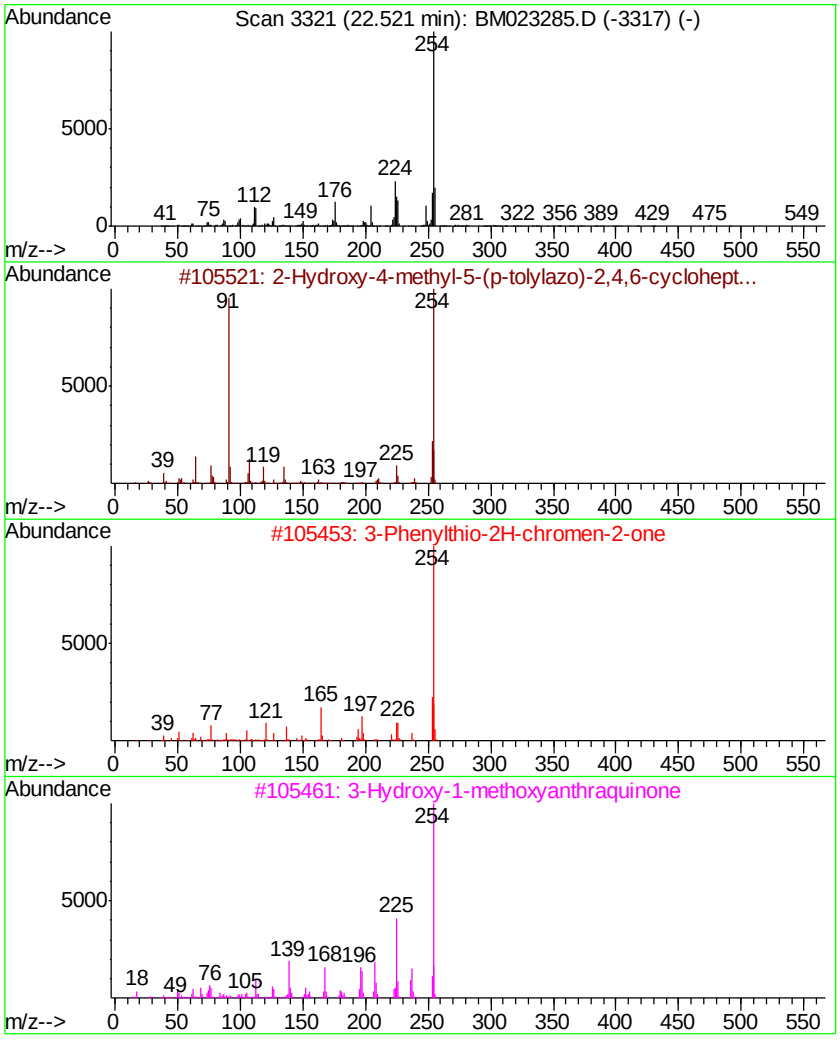
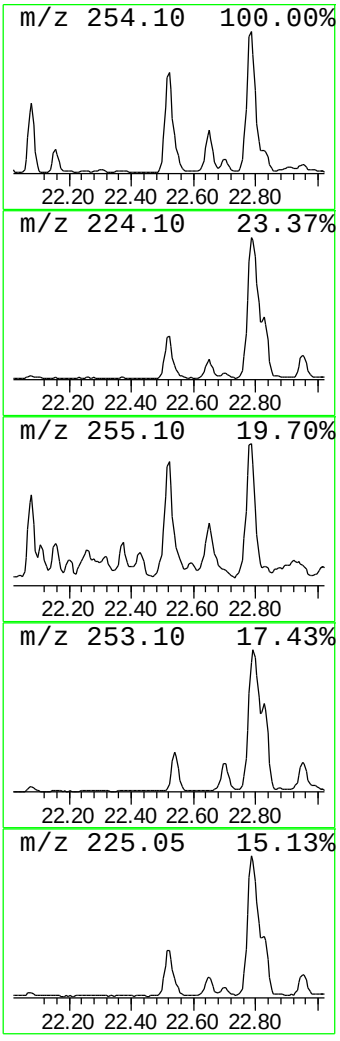
Peak Number 25 2-Hydroxy-4-methyl-5-(p-tol... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.52	10.48 ng/ul	4200270	Perylene-d12	23.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hydroxy-4-methyl-5-(p-tolylazo...	254	C15H14N2O2	066777-90-0	50
2	3-Phenylthio-2H-chromen-2-one	254	C15H10O2S	072167-95-4	50
3	3-Hydroxy-1-methoxyanthraquinone	254	C15H10O4	028504-24-7	50
4	1H-Pyrano[2,3-c]pyrazol-6-one, 3...	254	C15H14N2O2	1000316-21-1	50
5	Pyrrolo[3,2-g]quinoline, 9-metho...	254	C16H18N2O	199918-71-3	47





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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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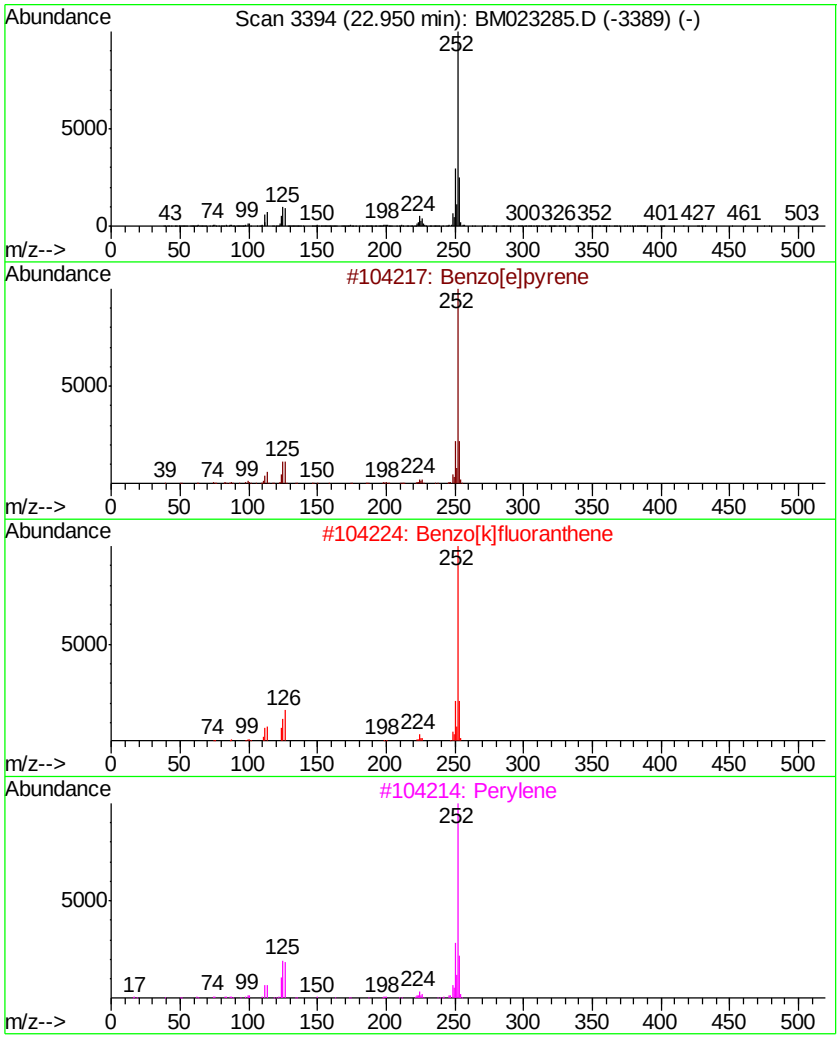
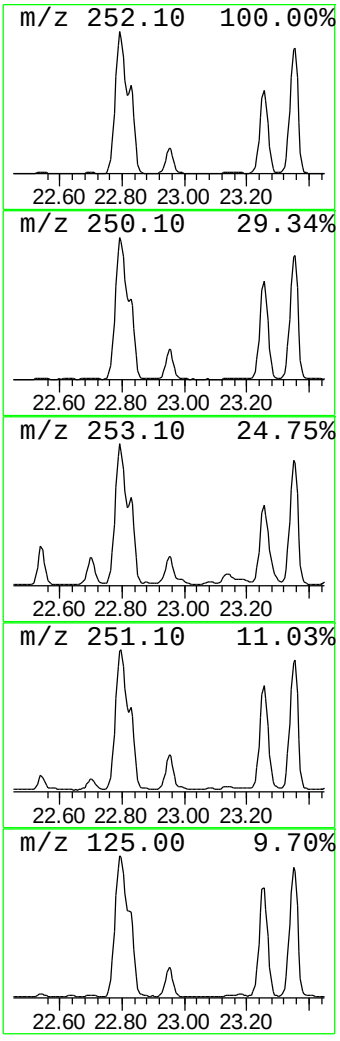
Peak Number 26 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.95	10.97 ng/ul	4399170	Perylene-d12	23.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Perylene	252	C20H12	000198-55-0	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
5	Benzo[a]pyrene	252	C20H12	000050-32-8	90





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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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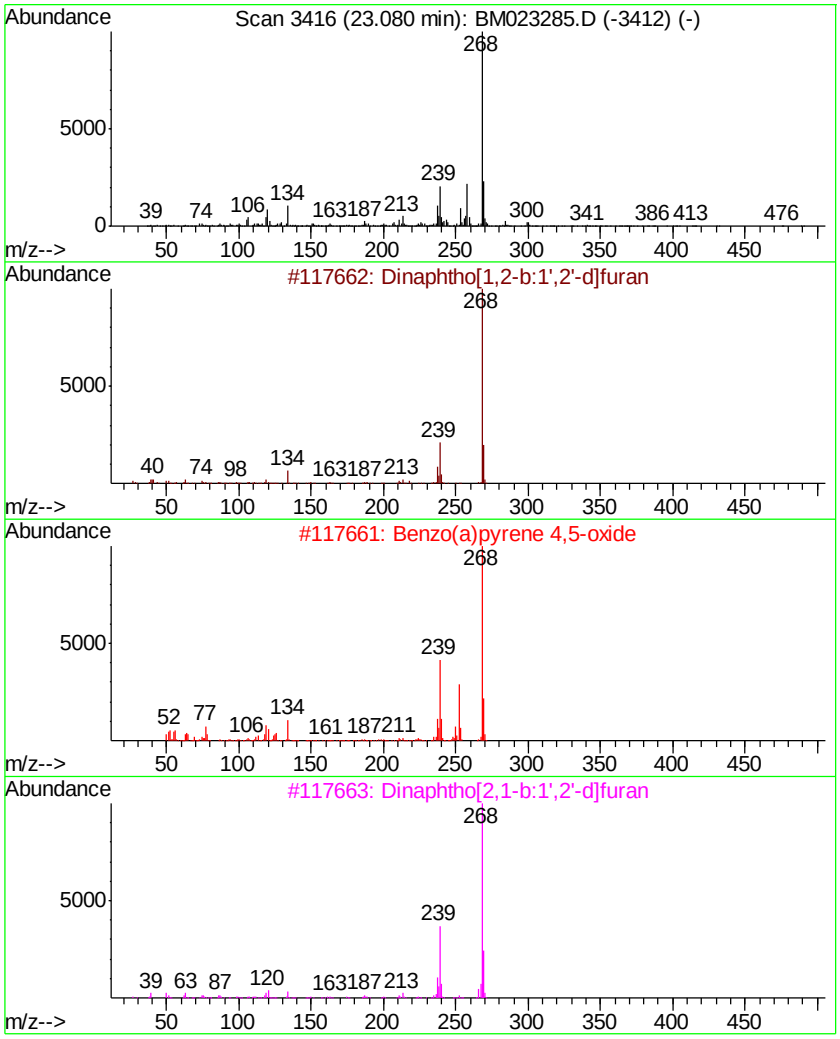
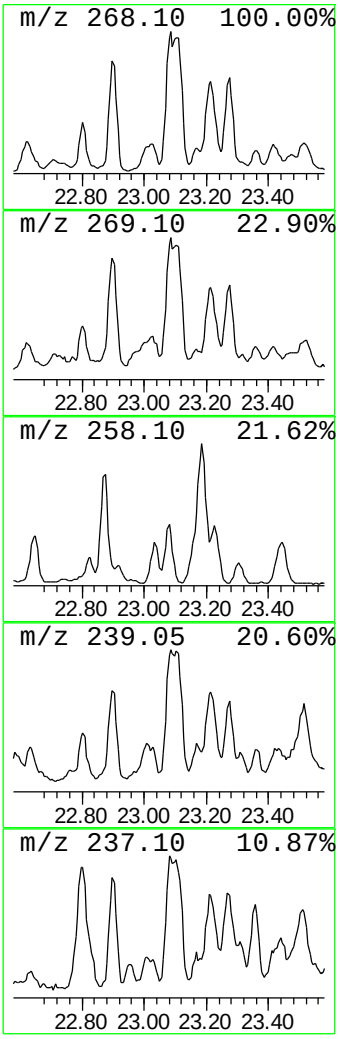
Peak Number 27 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.08	8.97 ng/ul	3597860	Perylene-d12	23.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	94
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	64
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	62
4	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	58
5	9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	53





Library Search Compound Report

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Misc :
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Instrument : BNA_M
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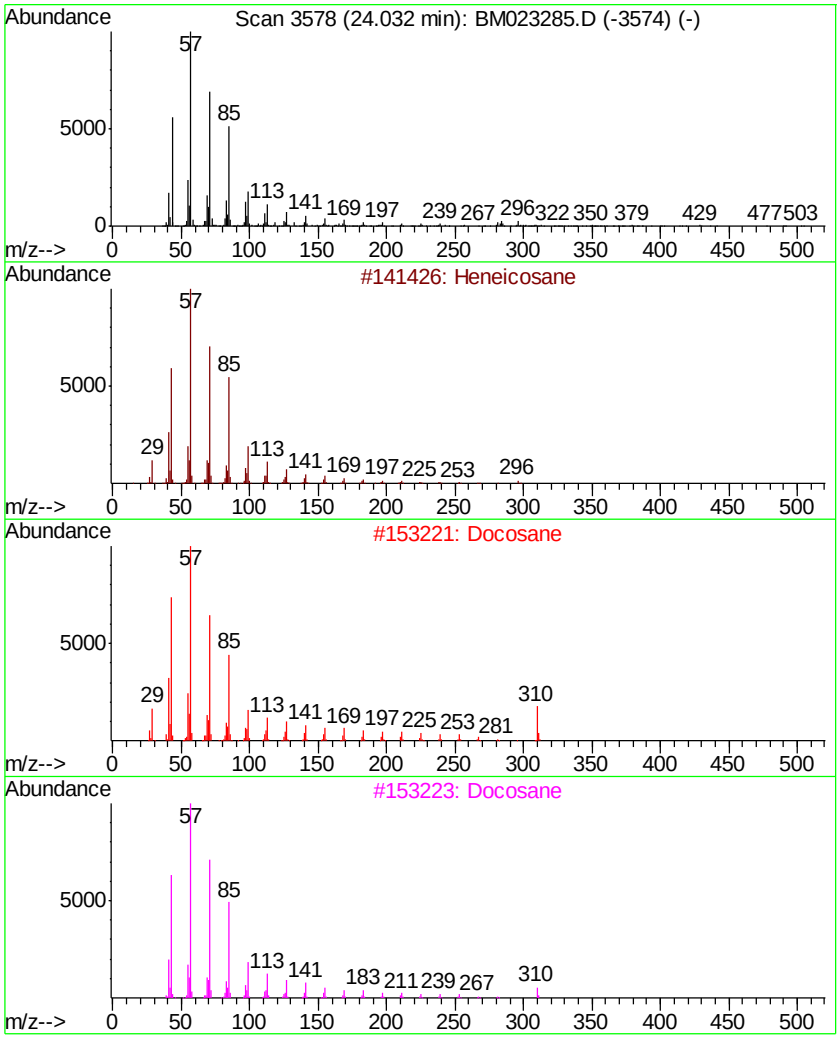
Quant Title : SVOA CALIBRATION

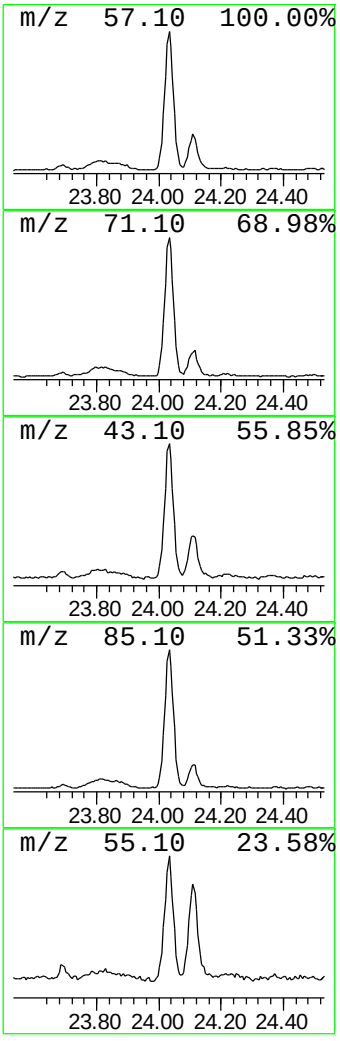
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.03	4.13 ng/ul	1657290	Perylene-d12	23.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	94
2	Docosane	310	C22H46	000629-97-0	93
3	Docosane	310	C22H46	000629-97-0	93
4	Heneicosane	296	C21H44	000629-94-7	93
5	Heneicosane	296	C21H44	000629-94-7	93





Tentatively Identified Compound (LSC) summary

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Operator : JU
Sample : K5378-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0012

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
9H-Fluoren-9-one	16.70	6.3	ng/ul	2085980	4	17.04	6653010	20.0
Dibenzothiophene	16.86	3.0	ng/ul	985162	4	17.04	6653010	20.0
Anthrone	17.62	2.5	ng/ul	827981	4	17.04	6653010	20.0
Phenanthrene, 2-m...	17.92	9.8	ng/ul	3271560	4	17.04	6653010	20.0
Phenanthrene, 1-m...	17.97	16.4	ng/ul	5469820	4	17.04	6653010	20.0
1H-Indene, 2-phenyl-	18.04	4.5	ng/ul	1502480	4	17.04	6653010	20.0
4H-Cyclopenta[def...	18.11	12.4	ng/ul	4128280	4	17.04	6653010	20.0
Phenanthrene, 4-m...	18.15	5.4	ng/ul	1798290	4	17.04	6653010	20.0
Naphthalene, 2-ph...	18.42	8.9	ng/ul	2978880	4	17.04	6653010	20.0
9,10-Anthracenedione	18.46	13.2	ng/ul	4391050	4	17.04	6653010	20.0
Phenanthrene, 4,5...	18.67	2.8	ng/ul	924687	4	17.04	6653010	20.0
Phenanthrene, 2,5...	18.76	2.1	ng/ul	711194	4	17.04	6653010	20.0
Phenanthrene, 3,6...	18.84	8.2	ng/ul	2724000	4	17.04	6653010	20.0
Naphthalene, 1,2-...	18.91	3.6	ng/ul	1193040	4	17.04	6653010	20.0
Anthracene, 1,4-d...	18.94	2.2	ng/ul	739948	4	17.04	6653010	20.0
Cyclopenta(def)ph...	18.98	12.3	ng/ul	4104090	4	17.04	6653010	20.0
Pyrene, 1-methyl-	19.80	2.5	ng/ul	5299720	5	21.24	43176100	20.0
Pyrene, 2-methyl-	20.12	2.5	ng/ul	5379880	5	21.24	43176100	20.0
Benzo[b]naphtho[2...	20.87	2.9	ng/ul	6202370	5	21.24	43176100	20.0
Benzo(a)acridine	20.97	3.7	ng/ul	7927600	5	21.24	43176100	20.0
11H-Benzo[a]fluor...	21.01	3.1	ng/ul	6794490	5	21.24	43176100	20.0
Benzo(b)carbazole	21.54	2.0	ng/ul	4409480	5	21.24	43176100	20.0
2-Hydroxy-4-methy...	22.52	10.5	ng/ul	4200270	6	23.44	8019570	20.0
Benzo[e]pyrene	22.95	11.0	ng/ul	4399170	6	23.44	8019570	20.0
Dinaphtho[1,2-b:1...	23.08	9.0	ng/ul	3597860	6	23.44	8019570	20.0
(DEL) Alkane: Str...	24.03	4.1	ng/ul	1657290	6	23.44	8019570	20.0