LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

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-BM112719MA.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	7.481	774	781	794	rBV	1222890	1959298	5.30%	0.577%
2	10.251	1243	1252	1257	rBV	1768808	2912122	7.87%	0.857%
3	10.298	1257	1260	1270	rVB	367317	602176	1.63%	0.177%
4	11.933	1531	1538	1547	rBV	137824	246666	0.67%	0.073%
5	12.151	1569	1575	1584	rVB	111374	182411	0.49%	0.054%
6	13.457	1791	1797	1803	rBV2	76922	148787	0.40%	0.044%
7	13.563	1811	1815	1820	rVV	143309	198814	0.54%	0.059%
8	13.827	1855	1860	1864	rBV2	170780	270163	0.73%	0.080%
9	14.139	1905	1913	1919	rBV	2871174	4140534	11.20%	1.219%
10	14.204	1919	1924	1933	rVV	1545553	2292281	6.20%	0.675%
11	14.545	1976	1982	1992	rVV	628222	996984	2.70%	0.293%
12	15.139	2078	2083	2088	rVV	258760	399094	1.08%	0.117%
13	15.198	2088	2093	2104	rVB	1367416	1965891	5.32%	0.579%
14	15.321	2111	2114	2117	rVV	184205	269327	0.73%	0.079%
15	15.363	2117	2121	2126	rVV2	194654	300520	0.81%	0.088%
16	15.451	2132	2136	2139	rVV2	135551	196257	0.53%	0.058%
17	15.498	2139	2144	2152	rVB	230820	344461	0.93%	0.101%
18	15.645	2164	2169	2178	rVV	252553	529072	1.43%	0.156%
19	15.733	2178	2184	2192	rVB3	71868	165549	0.45%	0.049%
20	16.210	2253	2265	2269	rBV3	213437	537524	1.45%	0.158%
21	16.257	2269	2273	2278	rVV4	125052	221026	0.60%	0.065%
22	16.557	2319	2324	2331	rVB	336149	531624	1.44%	0.156%
23	16.645	2333	2339	2344	rBV4	134647	300354	0.81%	0.088%
24	16.710	2344	2350	2362	rVB	991730	1598770	4.32%	0.471%
25	16.898	2372	2382	2385	rBV	3214688	4971968	13.44%	1.463%
26	16.939	2385	2389	2395	rVV	18183478	25669640	69.41%	7.556%
27	16.998	2395	2399	2400	rVV2	586361	722952	1.95%	0.213%
28	17.027	2400	2404	2411	rVV	4325755	5993177	16.20%	1.764%
29	17.092	2411	2415	2423	rVV	412873	613938	1.66%	0.181%
30	17.304	2441	2451	2456	rBV2	2037261	3306323	8.94%	0.973%
31	17.421	2466	2471	2476	rBV5	291733	445884	1.21%	0.131%
32	17.480	2477	2481	2489	rVB5	167294	340742	0.92%	0.100%
33	17.615	2501	2504	2509	rVB	105365	154949	0.42%	0.046%
34	17.774	2525	2531	2535	rVV	1202067	1834791	4.96%	0.540%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

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-BM112719MA.M
Title : SVOA CALIBRATION

35	17.821	2535	2539	2546	rVV	2332952	3225088	8.72%	0.949%
36	17.904	2547	2553	2558	rVV	759506	1256786	3.40%	0.370%
37	17.968	2558	2564	2567	rVV2	2829345	4527718	12.24%	1.333%
38	18.004	2567	2570	2578	rVB	1339196	1831430	4.95%	0.539%
39	18.080	2579	2583	2587	rVV2	146709	214287	0.58%	0.063%
40	18.127	2587	2591	2595	rVB2	208083	269627	0.73%	0.079%
41	18.215	2603	2606	2612	rBV4	102367	182813	0.49%	0.054%
42	18.280	2612	2617	2621	rVV	1226448	1629305	4.41%	0.480%
43	18.327	2621	2625	2630	rVB	973114	1286825	3.48%	0.379%
44	18.527	2655	2659	2664	rVB2	363693	502271	1.36%	0.148%
45	18.580	2664	2668	2671	rBV	179108	210753	0.57%	0.062%
46	18.621	2671	2675	2679	rVB	234040	321133	0.87%	0.095%
47	18.704	2683	2689	2695	rBV3	409681	924309	2.50%	0.272%
48	18.768	2695	2700	2702	rVV3	339955	610014	1.65%	0.180%
49	18.798	2702	2705	2709	rVV	501794	634289	1.72%	0.187%
50	18.845	2709	2713	2721	rVB2	524018	910580	2.46%	0.268%
51	18.974	2728	2735	2741	rBV	24085836	34680282	93.77%	10.208%
52	19.039	2742	2746	2748	rBV	187411	248805	0.67%	0.073%
53	19.068	2748	2751	2756	rVB	466377	605452	1.64%	0.178%
54	19.209	2762	2775	2780	rBV2	1094728	2608065	7.05%	0.768%
55	19.339	2786	2797	2805	rBV2	20576949	36983507	100.00%	10.886%
56	19.409	2805	2809	2817	rVB4	925946	1607929	4.35%	0.473%
57	19.515	2823	2827	2832	rVB	1197268	1502772	4.06%	0.442%
58	19.580	2833	2838	2843	rVB	1008279	1483239	4.01%	0.437%
59	19.674	2846	2854	2858	rBV3	878888	2317732	6.27%	0.682%
60	19.715	2858	2861	2865	rVB	464987	541757	1.46%	0.159%
61	19.798	2870	2875	2878	rVV5	814192	1497575	4.05%	0.441%
62	19.839	2878	2882	2887	rVB	2922654	3931806	10.63%	1.157%
63	19.886	2887	2890	2893	rBV	189904	254458	0.69%	0.075%
64	19.939	2894	2899	2903	rBV	2347183	2877435	7.78%	0.847%
65	19.992	2903	2908	2912	rVV2	1470474	2405166	6.50%	0.708%
66	20.033	2912	2915	2919	rVB	753409	955072	2.58%	0.281%
67	20.074	2919	2922	2927	rVB	417221	528649	1.43%	0.156%
68	20.133	2928	2932	2936	rVB	632146	776117	2.10%	0.228%
69	20.180	2936	2940	2945	rBV3	769978	1184678	3.20%	0.349%
70	20.256	2950	2953	2954	rBV2	142845	149178	0.40%	0.044%
71	20.433	2973	2983	2985	rBV9	578801	1492088	4.03%	0.439%

LSC Area Percent Report

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Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

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-BM112719MA.M
Title : SVOA CALIBRATION

72	20.551	3000	3003	3006	rBV4	270029	379320	1.03%	0.112%
73	20.592	3006	3010	3017	rVB	1207009	1799608	4.87%	0.530%
74	20.751	3032	3037	3041	rBV2	1780315	2716131	7.34%	0.799%
75	20.792	3041	3044	3047	rVV	1989483	2187553	5.91%	0.644%
76	20.833	3047	3051	3056	rVV2	1572690	2953086	7.98%	0.869%
77	20.886	3057	3060	3070	rVB	1423923	2185173	5.91%	0.643%
78	20.998	3071	3079	3084	rBV	704954	2181342	5.90%	0.642%
79	21.098	3087	3096	3101	rBV3	14927469	28856345	78.02%	8.494%
80	21.145	3101	3104	3112	rVB	11445393	15338630	41.47%	4.515%
81	21.262	3120	3124	3131	rBV2	3126437	4735673	12.80%	1.394%
82	21.374	3140	3143	3146	rVB	961781	1202567	3.25%	0.354%
83	21.421	3146	3151	3156	rBV2	1373590	2191997	5.93%	0.645%
84	21.550	3166	3173	3178	rBV2	1233592	3302795	8.93%	0.972%
85	21.650	3186	3190	3193	rVB	1405796	1879069	5.08%	0.553%
86	21.698	3195	3198	3204	rBV3	735136	1395727	3.77%	0.411%
87	21.792	3212	3214	3218	rVV	680688	784202	2.12%	0.231%
88	21.839	3218	3222	3224	rVV	1100452	1619494	4.38%	0.477%
89	21.868	3224	3227	3232	rVB3	1597315	2285120	6.18%	0.673%
90	21.933	3233	3238	3246	rVB3	754826	1470150	3.98%	0.433%
91	22.109	3265	3268	3272	rBV3	553146	847459	2.29%	0.249%
92	22.627	3349	3356	3360	rBV	9234795	20437754	55.26%	6.016%
93	22.780	3378	3382	3388	rVB	1692808	2496685	6.75%	0.735%
94	22.903	3400	3403	3406	rBV2	514016	834017	2.26%	0.245%
95	23.074	3426	3432	3441	rVB	4940930	8978164	24.28%	2.643%
96	23.168	3441	3448	3455	rVV	8524519	15030644	40.64%	4.424%
97	23.250	3457	3462	3467	rVV	3222894	6143851	16.61%	1.808%
98	23.297	3467	3470	3479	rVB	2341125	4239942	11.46%	1.248%
99	25.380	3816	3824	3834	rVB	4056656	11117681	30.06%	3.272%
100	26.027	3927	3934	3951	rVB	2507863	7612163	20.58%	2.241%

Sum of corrected areas: 339735401

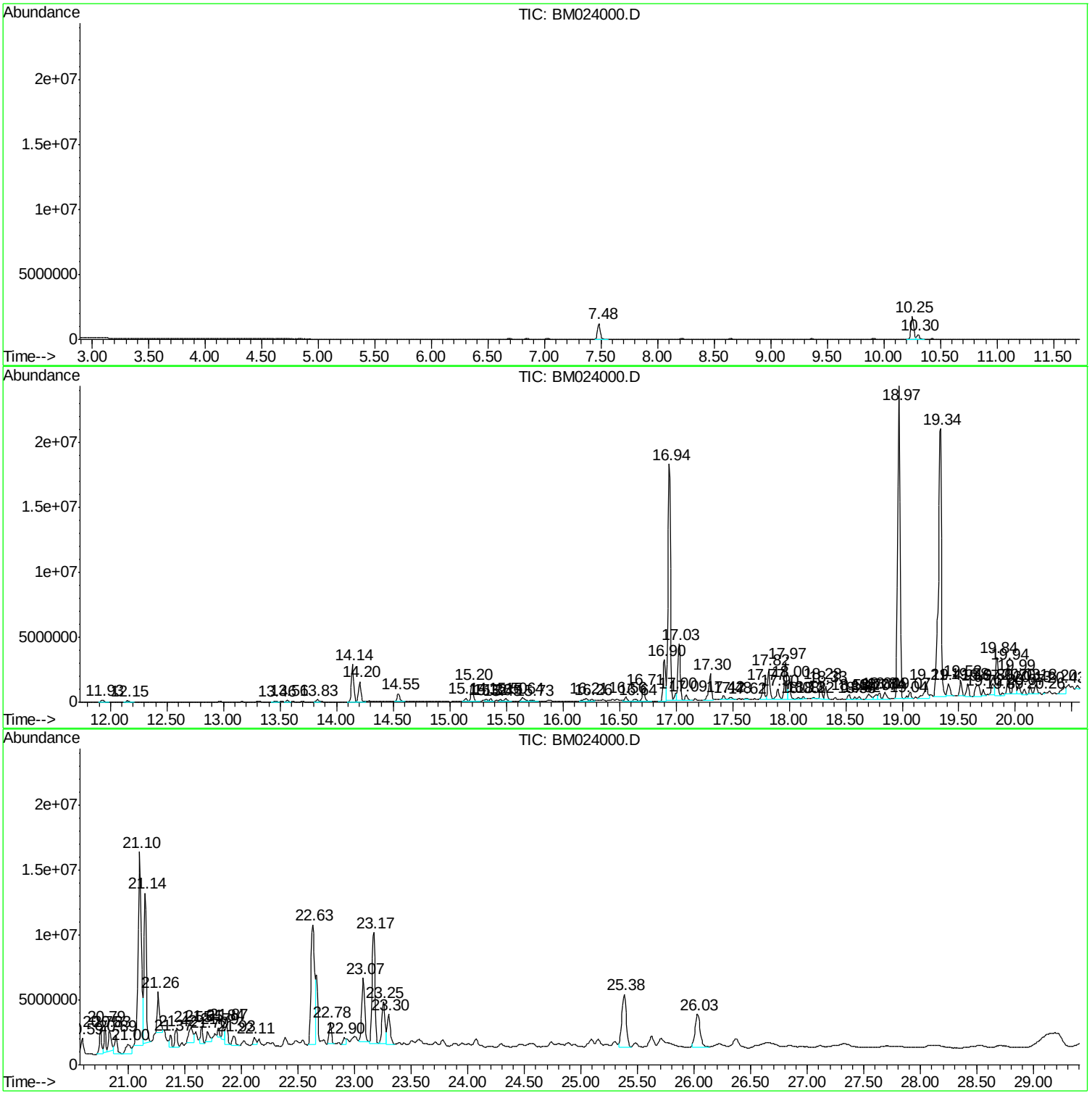
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

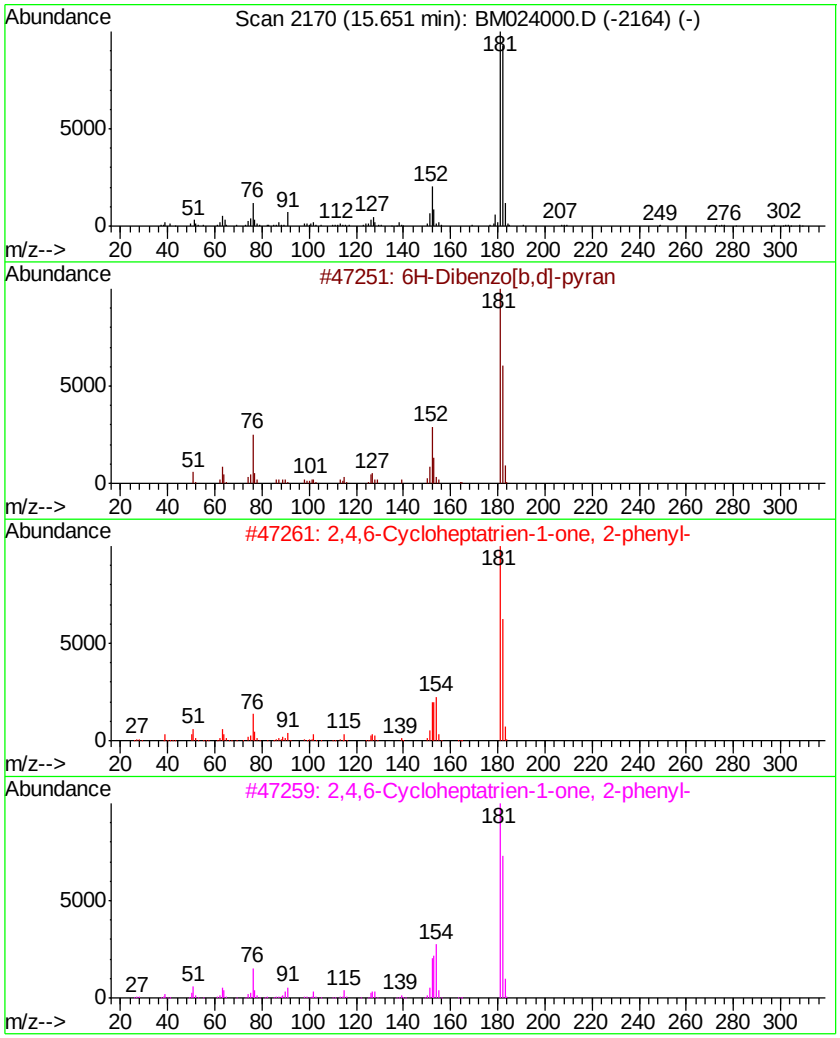
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

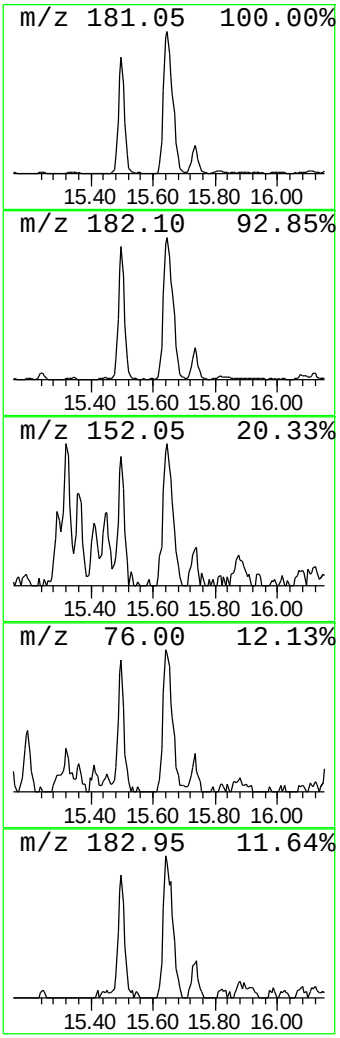
****

Peak Number 1 6H-Dibenzo[b,d]-pyran Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.65	2.13 ng/ul	529072	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	91
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	87
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

****

Peak Number 2 9H-Fluorene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.21	2.16 ng/ul	537524	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	98
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
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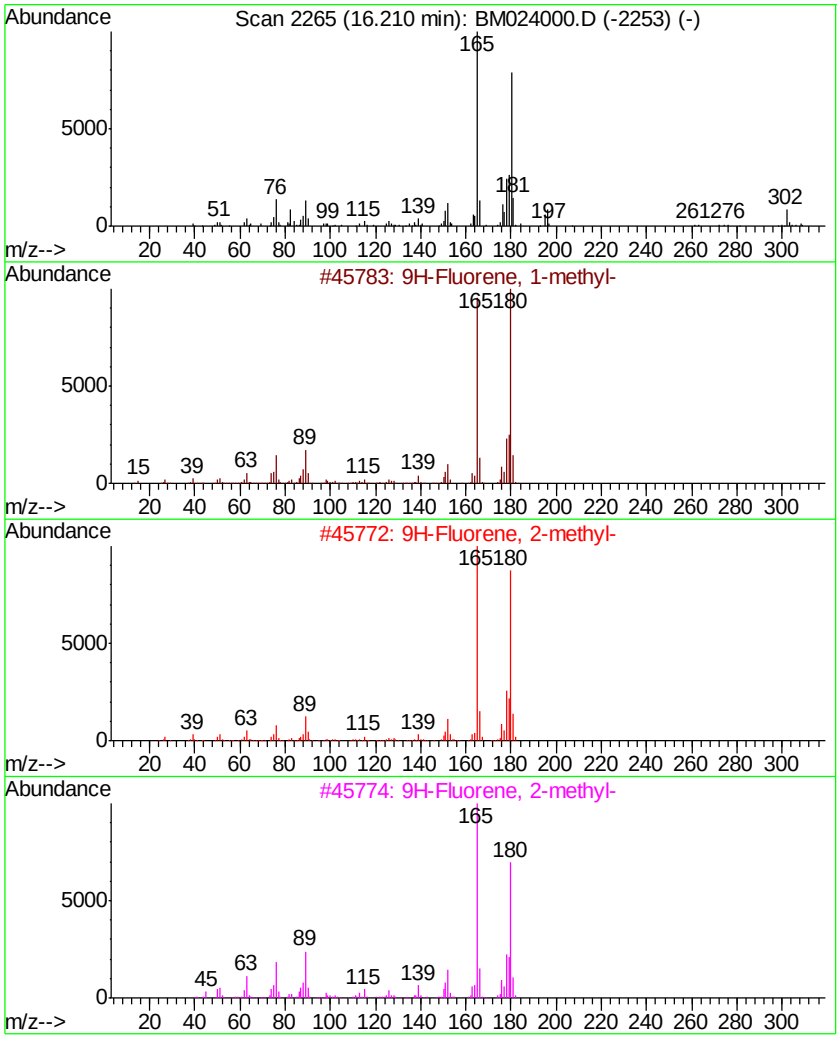

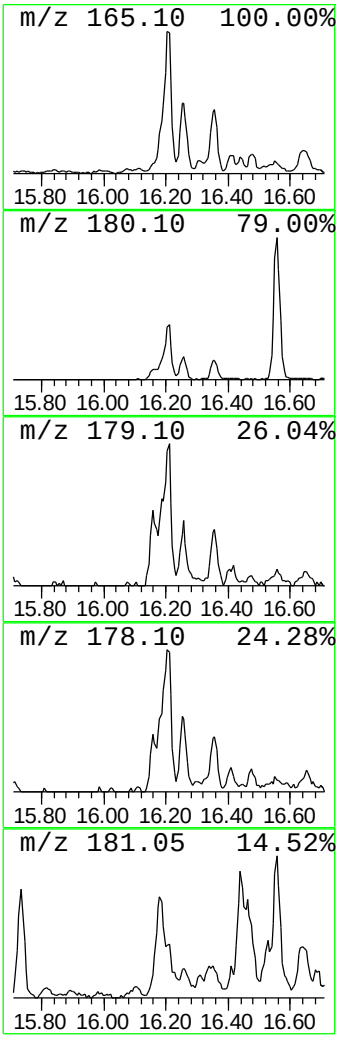

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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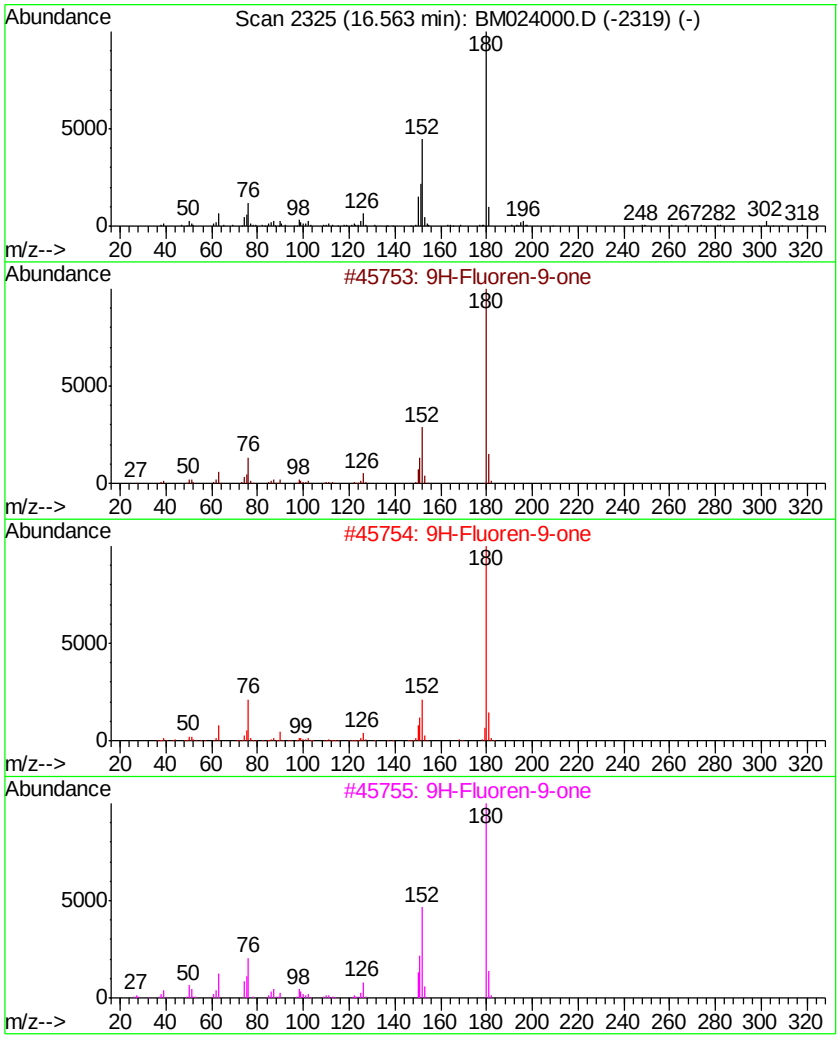
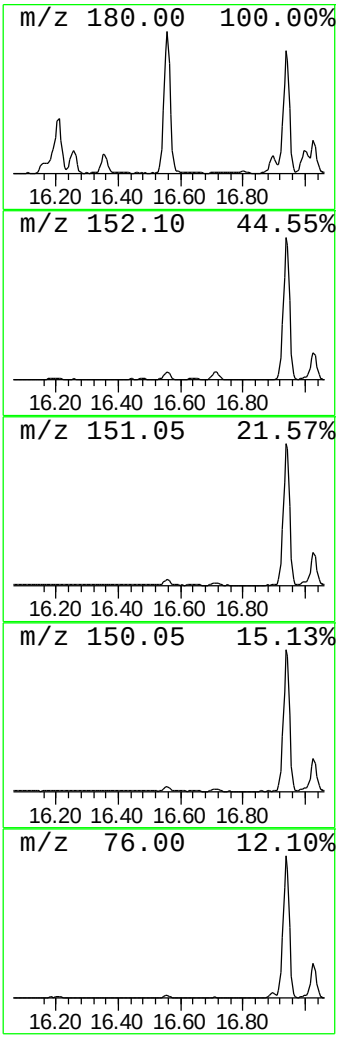
Peak Number 3 9H-Fluoren-9-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.56	2.14 ng/ul	531624	Phenanthrene-d10	16.90

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	93
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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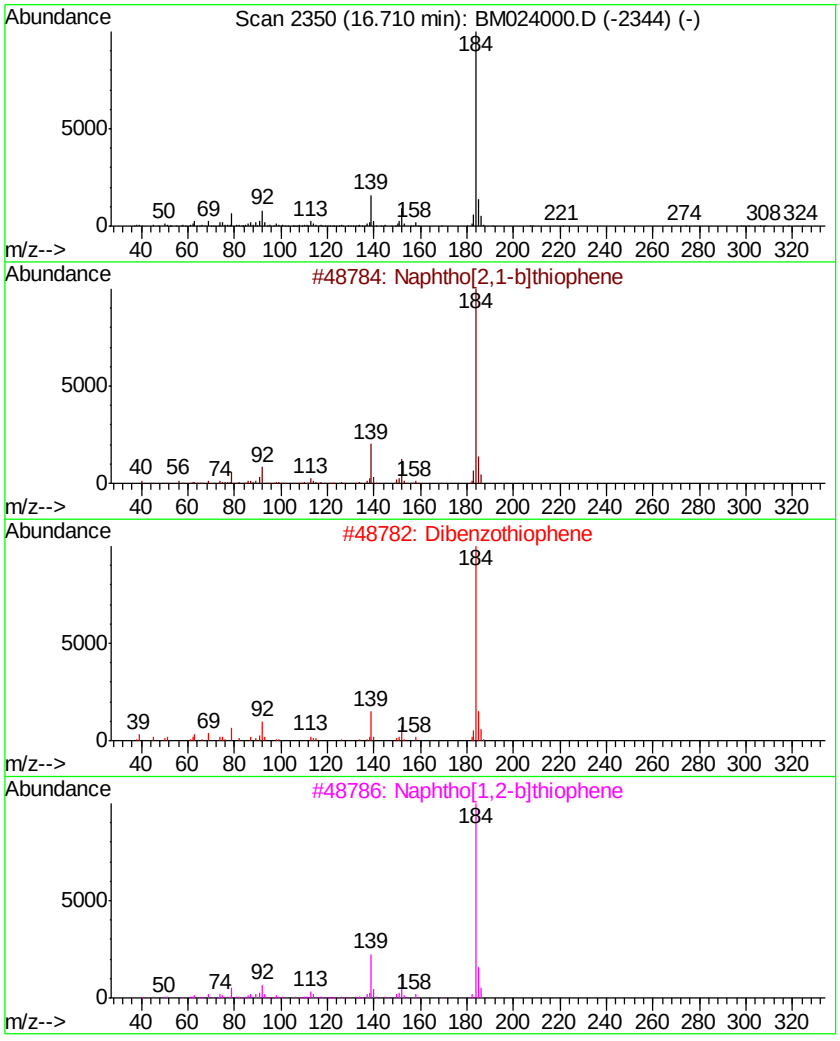
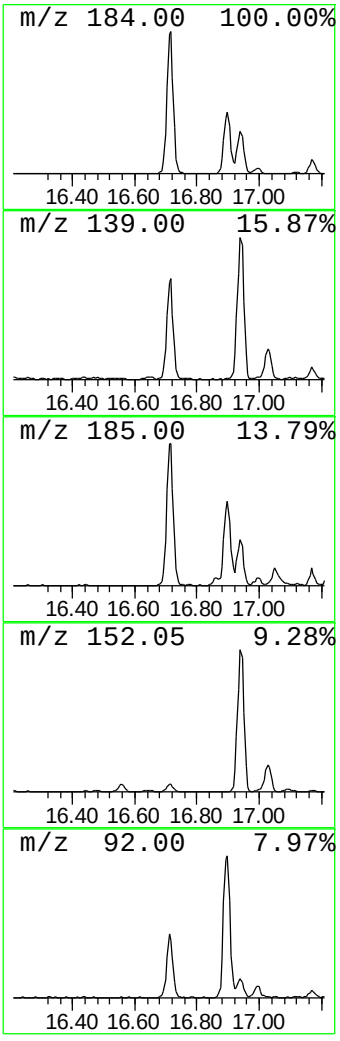
Peak Number 4 Naphtho[2,1-b]thiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.71	6.43 ng/ul	1598770	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5	Dibenzothiophene	184	C12H8S	000132-65-0	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

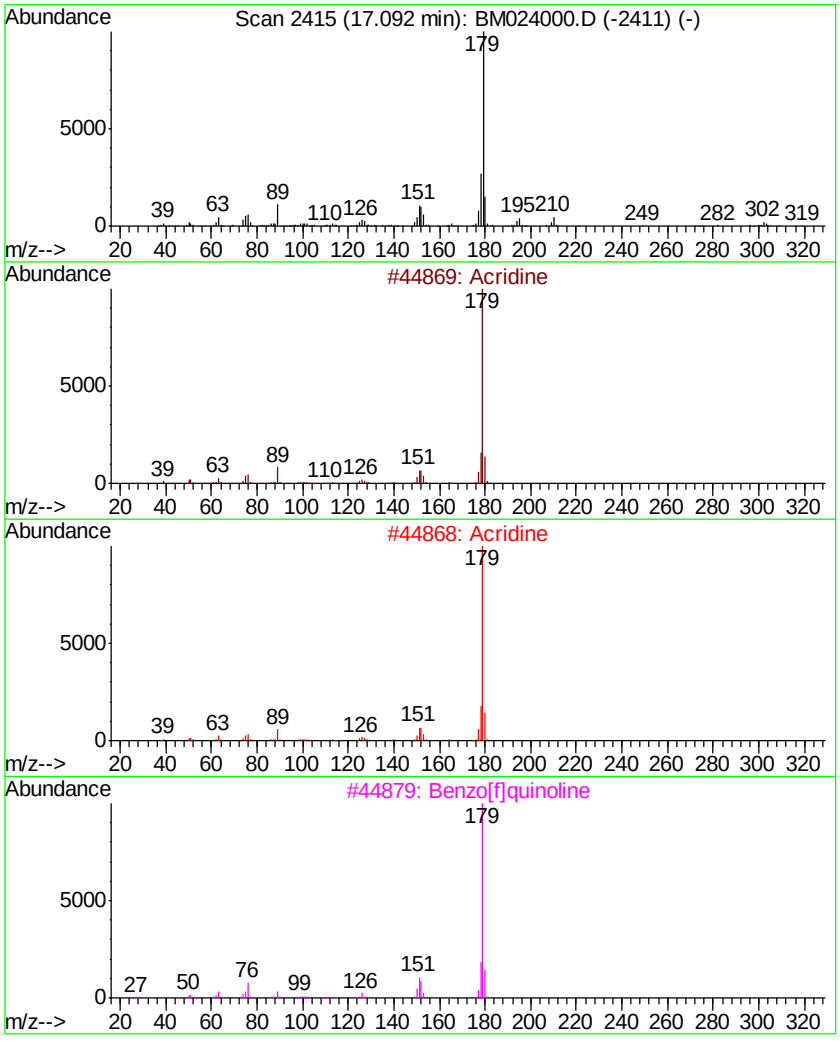
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

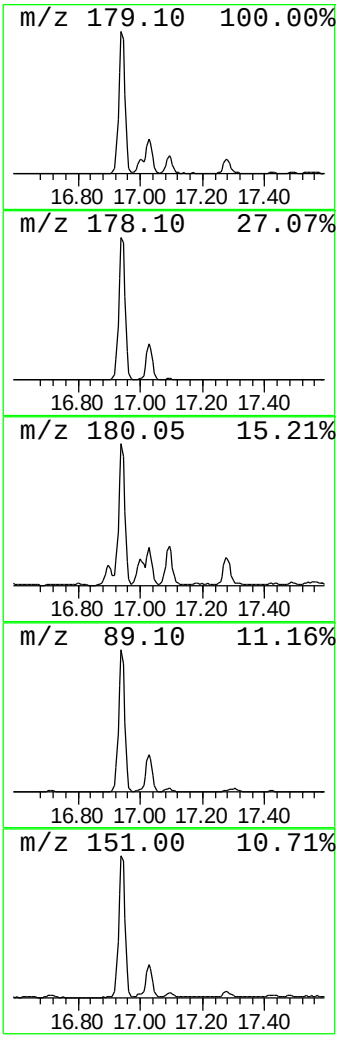
****

Peak Number 5 Acridine Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.09	2.47 ng/ul	613938	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	94
2	Acridine	179	C13H9N	000260-94-6	93
3	Benzo[f]quinoline	179	C13H9N	000085-02-9	91
4	Benzo[h]quinoline	179	C13H9N	000230-27-3	90
5	Phenanthridine	179	C13H9N	000229-87-8	89





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Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

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Quant Title : SVOA CALIBRATION

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

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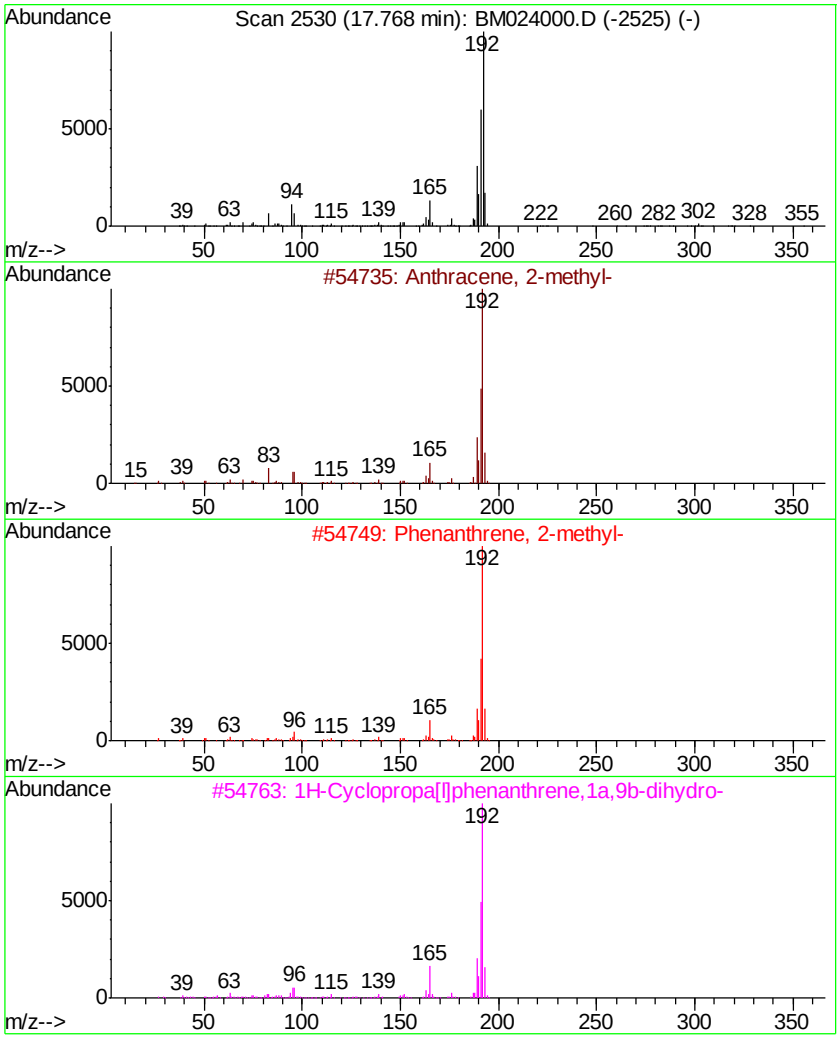
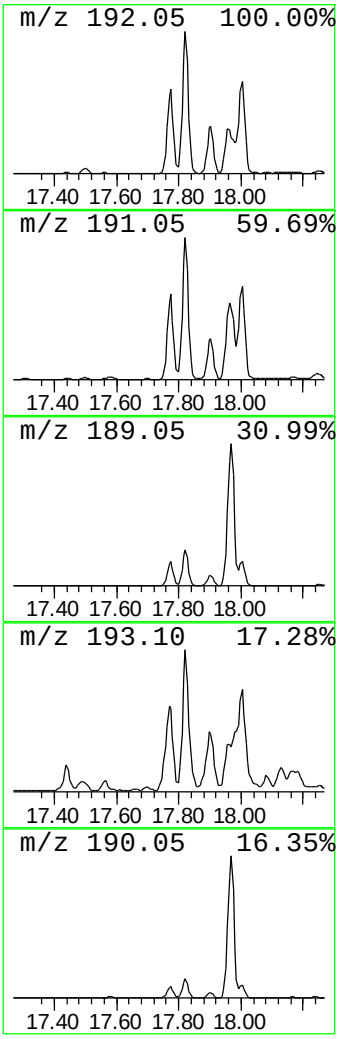
Peak Number 6 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.77	7.38 ng/ul	1834790	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

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Quant Title : SVOA CALIBRATION

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

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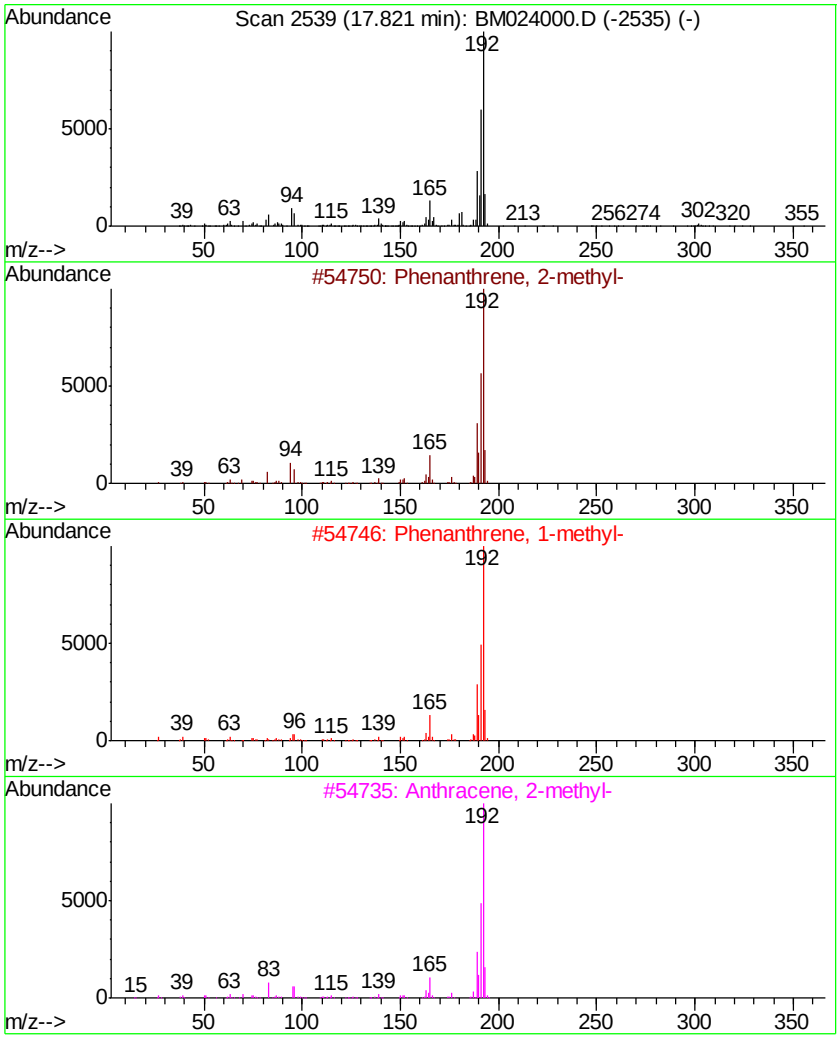
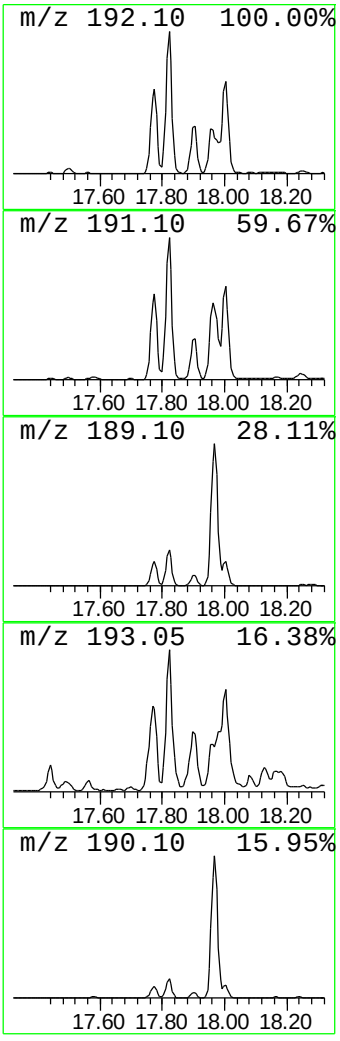
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	12.97 ng/ul	3225090	Phenanthrene-d10	16.90

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	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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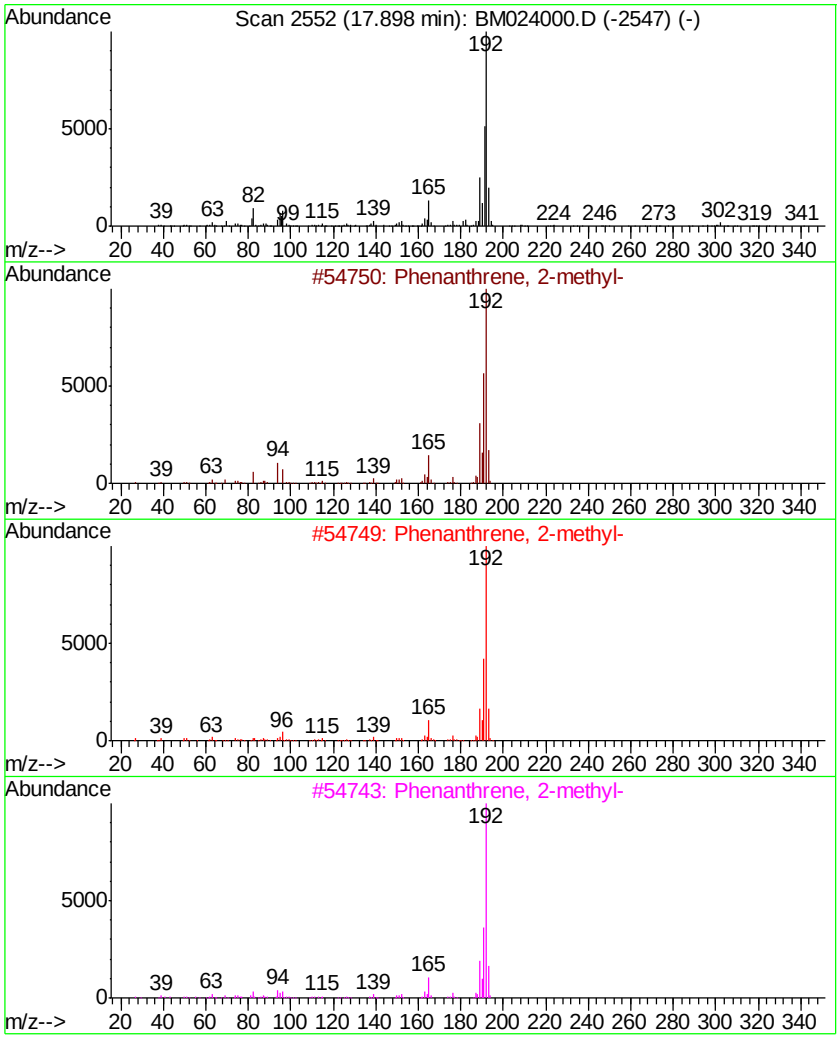
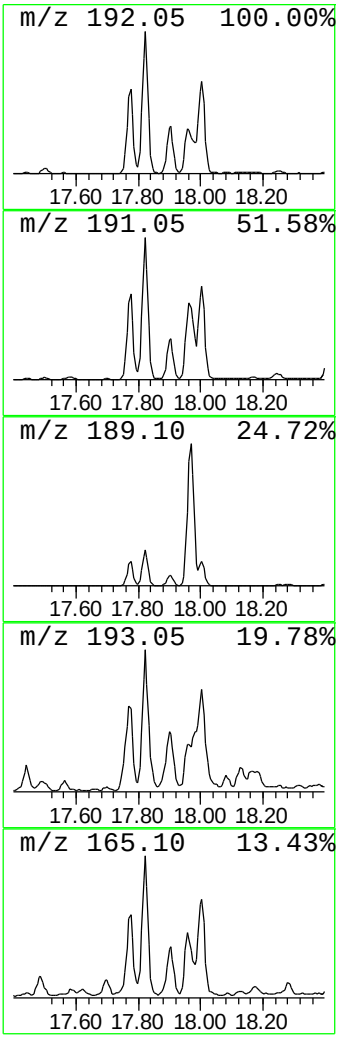
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.90	5.06 ng/ul	1256790	Phenanthrene-d10	16.90

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	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





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Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

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Quant Title : SVOA CALIBRATION

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

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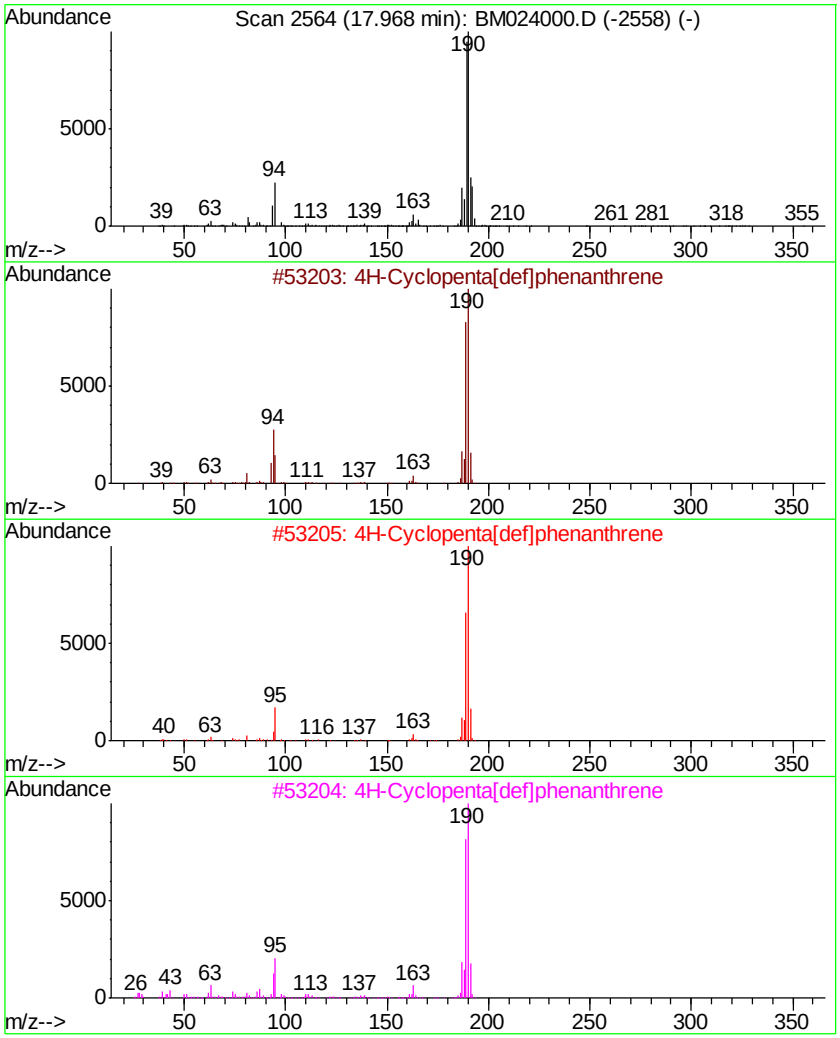
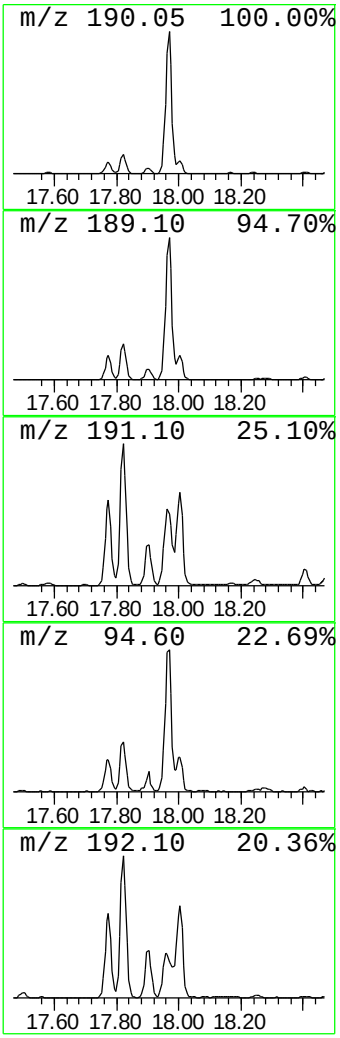
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.97	18.21 ng/ul	4527720	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50





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Misc :
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Instrument : BNA_M
ClientSampleId : A5167DL

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Quant Title : SVOA CALIBRATION

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

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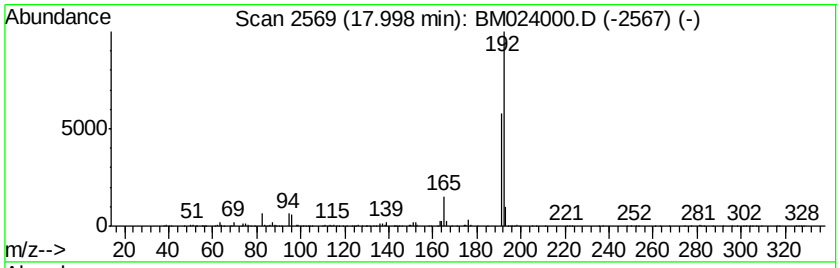
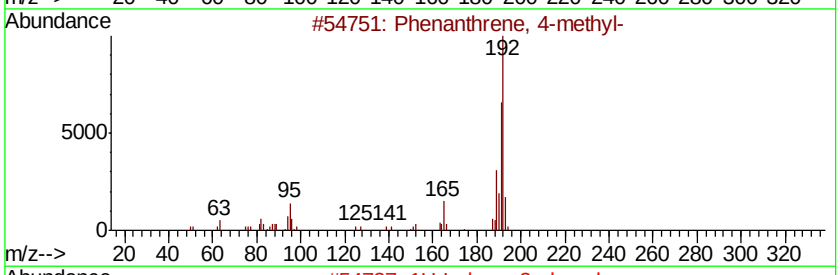
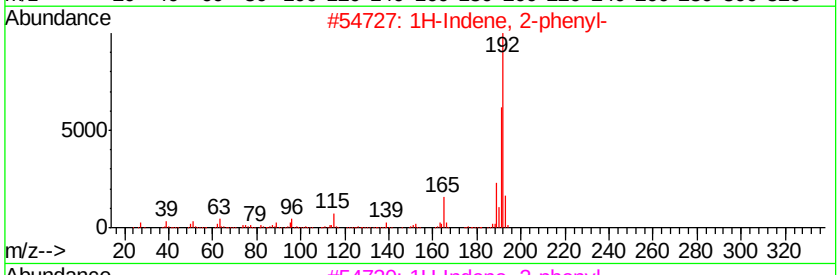
Peak Number 10 Phenanthrene, 4-methyl- Concentration Rank 5

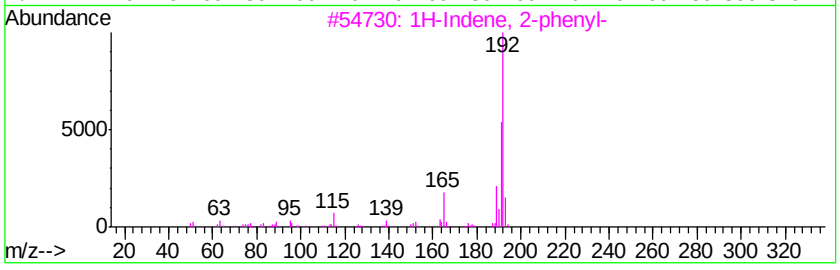
R.T.	EstConc	Area	Relative to ISTD	R.T.
18.00	7.37 ng/ul	1831430	Phenanthrene-d10	16.90

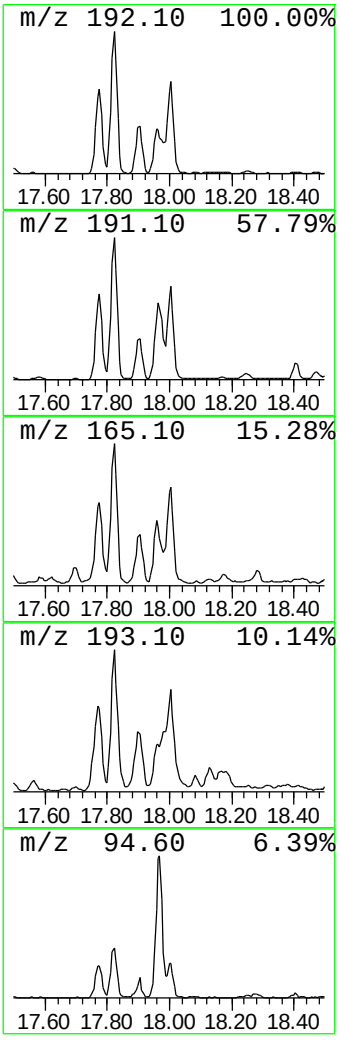
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	86
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	86
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83











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Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

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Quant Title : SVOA CALIBRATION

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

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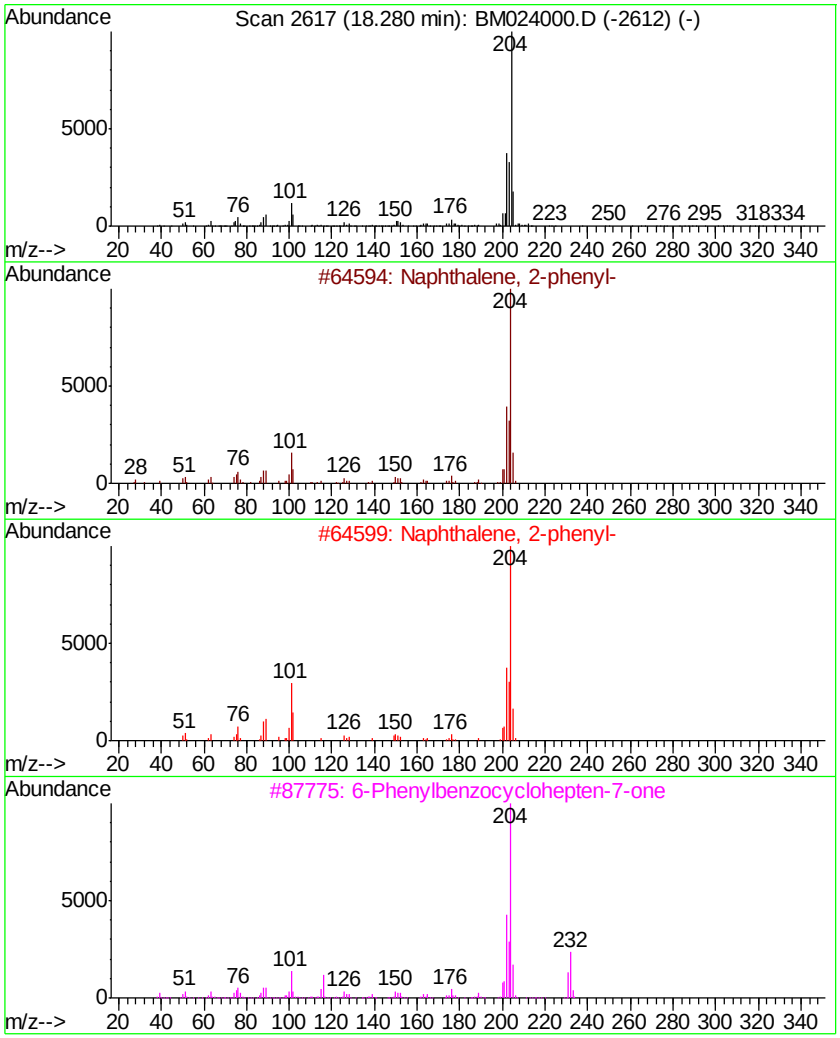
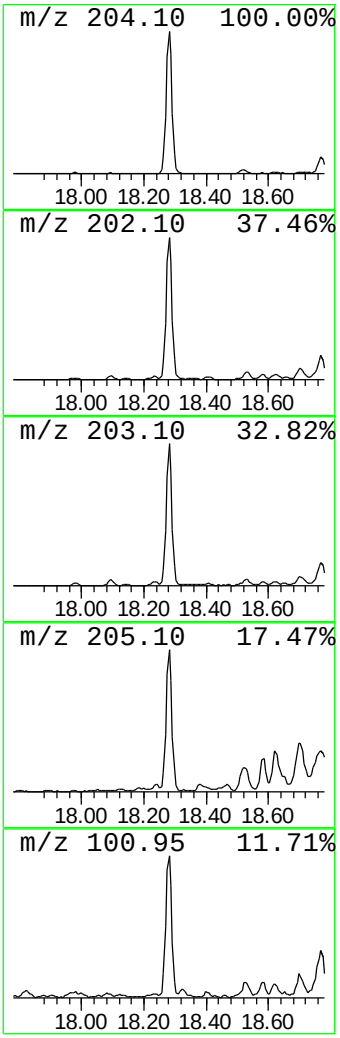
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.28	6.55 ng/ul	1629310	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	90
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87





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Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

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Quant Title : SVOA CALIBRATION

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

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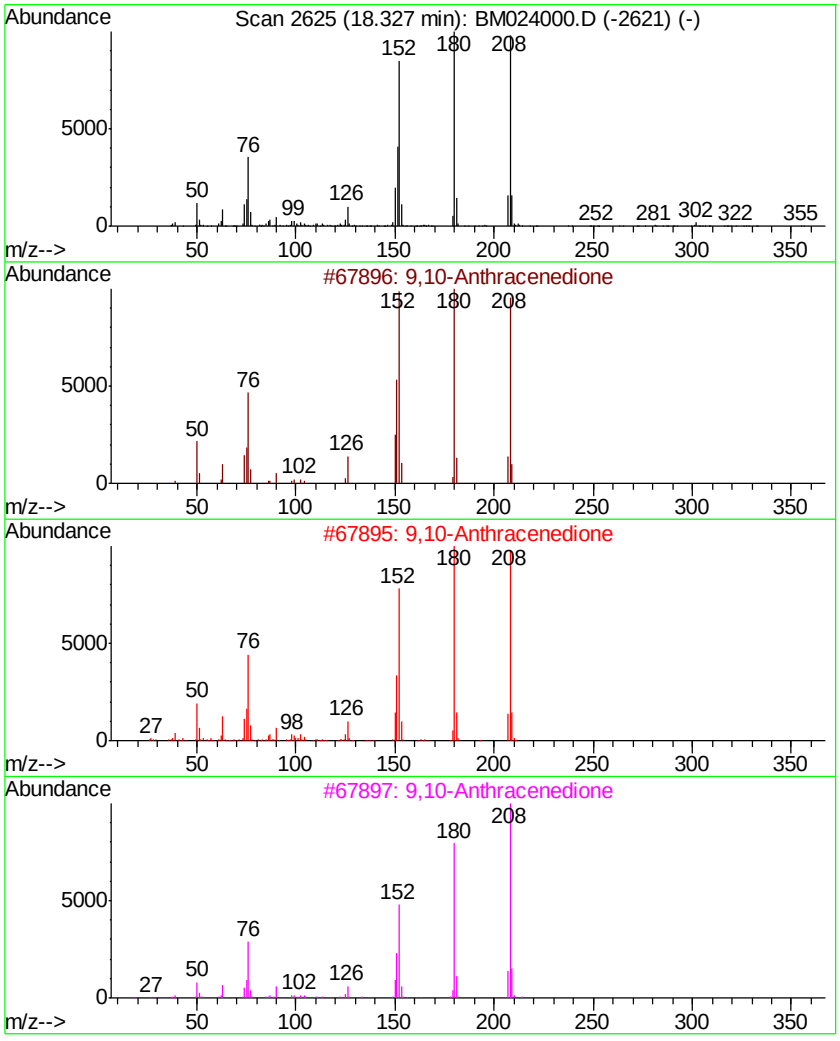
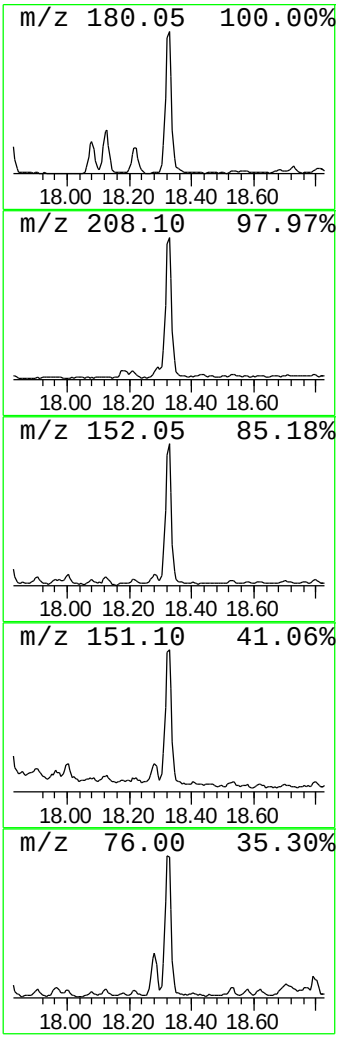
Peak Number 12 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	5.18 ng/ul	1286830	Phenanthrene-d10	16.90

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	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	62





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Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

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Quant Title : SVOA CALIBRATION

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

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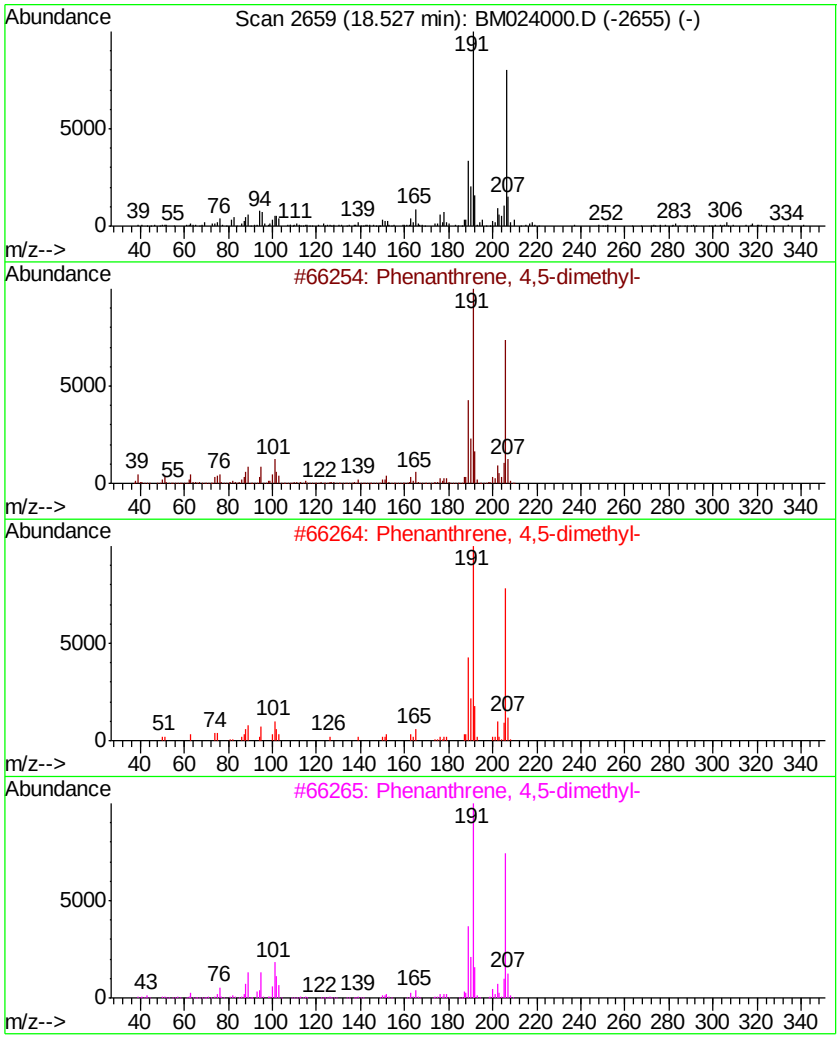
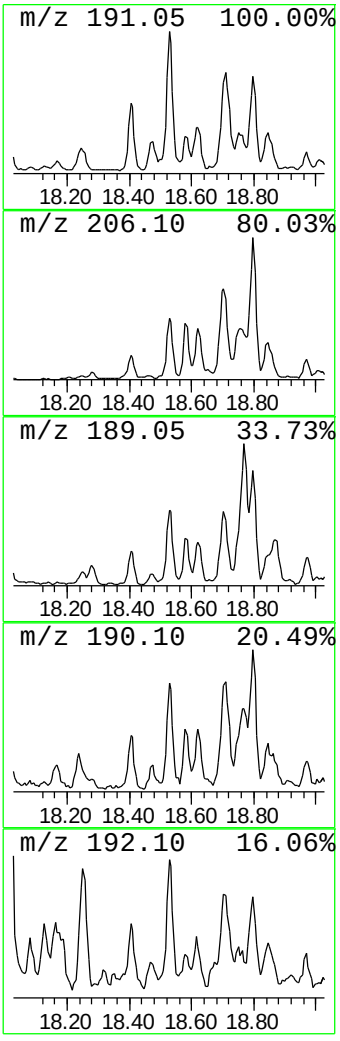
Peak Number 13 Phenanthrene, 4,5-dimethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	2.02 ng/ul	502271	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	96
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	91
5	Phenanthrene, 9-ethyl-	206	C16H14	003674-75-7	90





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Instrument : BNA_M
ClientSampleId : A5167DL

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Quant Title : SVOA CALIBRATION

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

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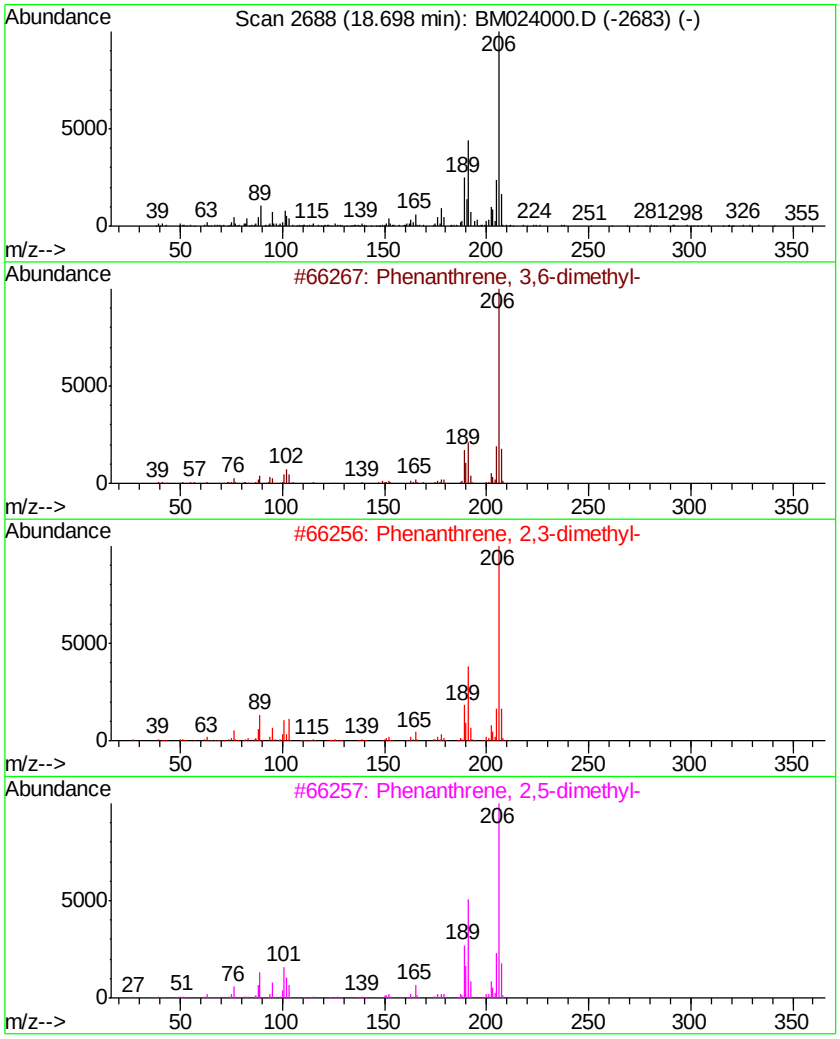
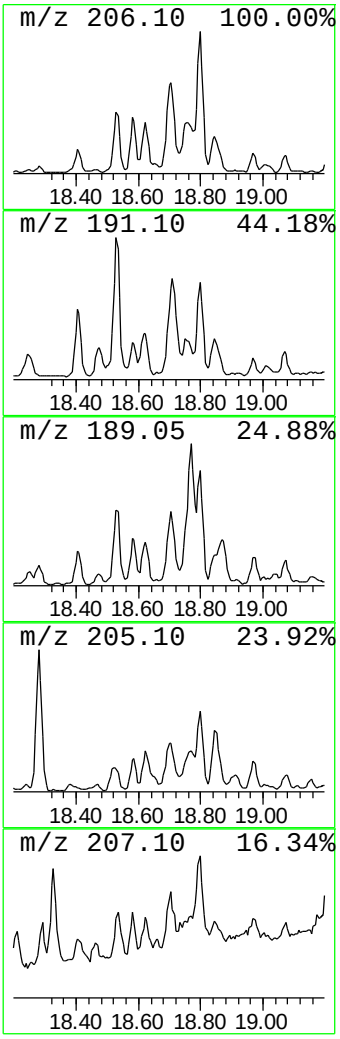
Peak Number 14 Phenanthrene, 3,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	3.72 ng/ul	924309	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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Quant Title : SVOA CALIBRATION

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

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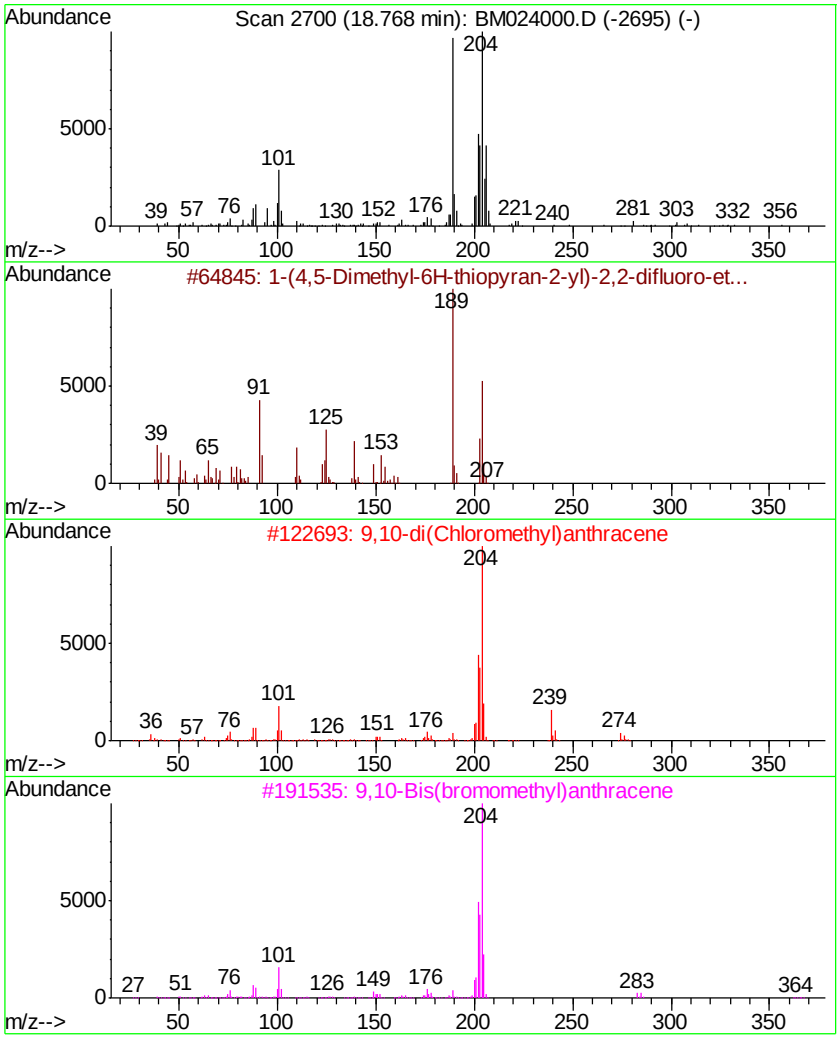
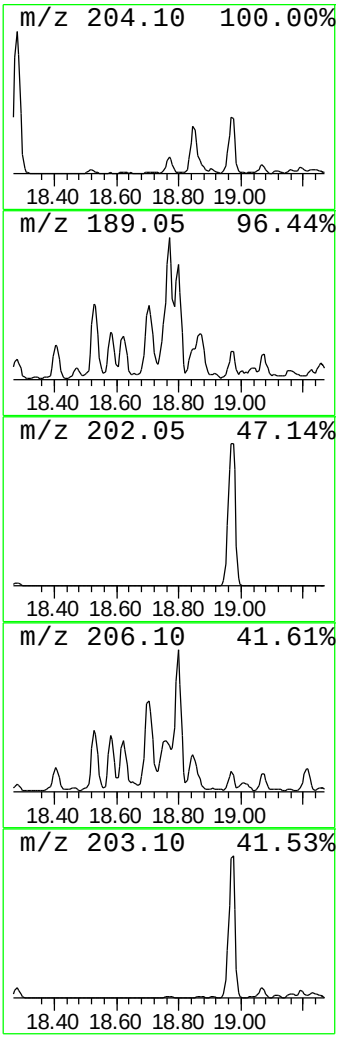
Peak Number 15 1-(4,5-Dimethyl-6H-thiopyra... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.77	2.45 ng/ul	610014	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(4,5-Dimethyl-6H-thiopyran-2-y...	204	C9H10F2OS	1000318-25-0	50
2	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	49
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	49
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	47
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	43





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Quant Title : SVOA CALIBRATION

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

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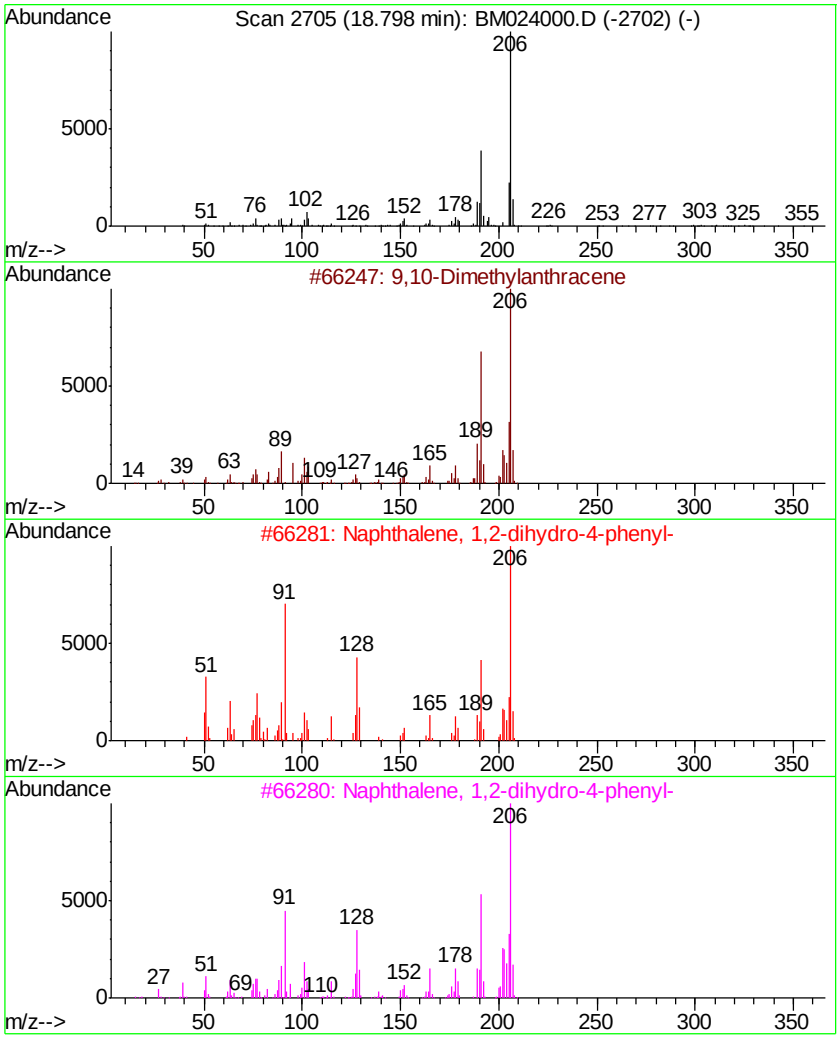
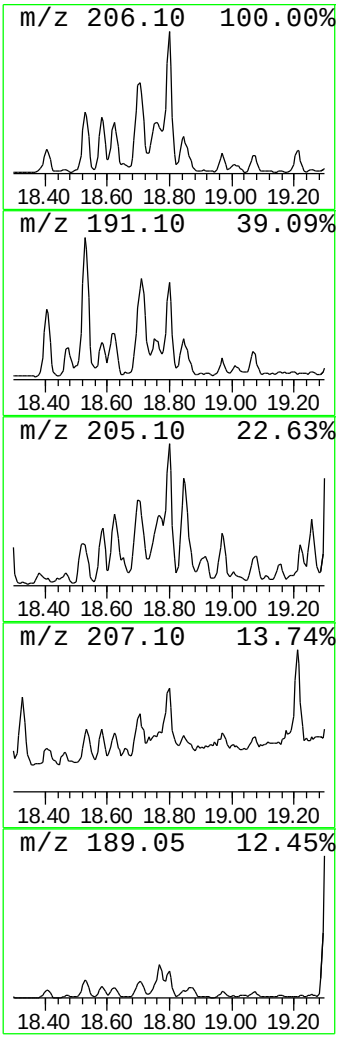
Peak Number 16 9,10-Dimethylanthracene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	2.55 ng/ul	634289	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
2	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	90
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	87
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	86
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	86





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Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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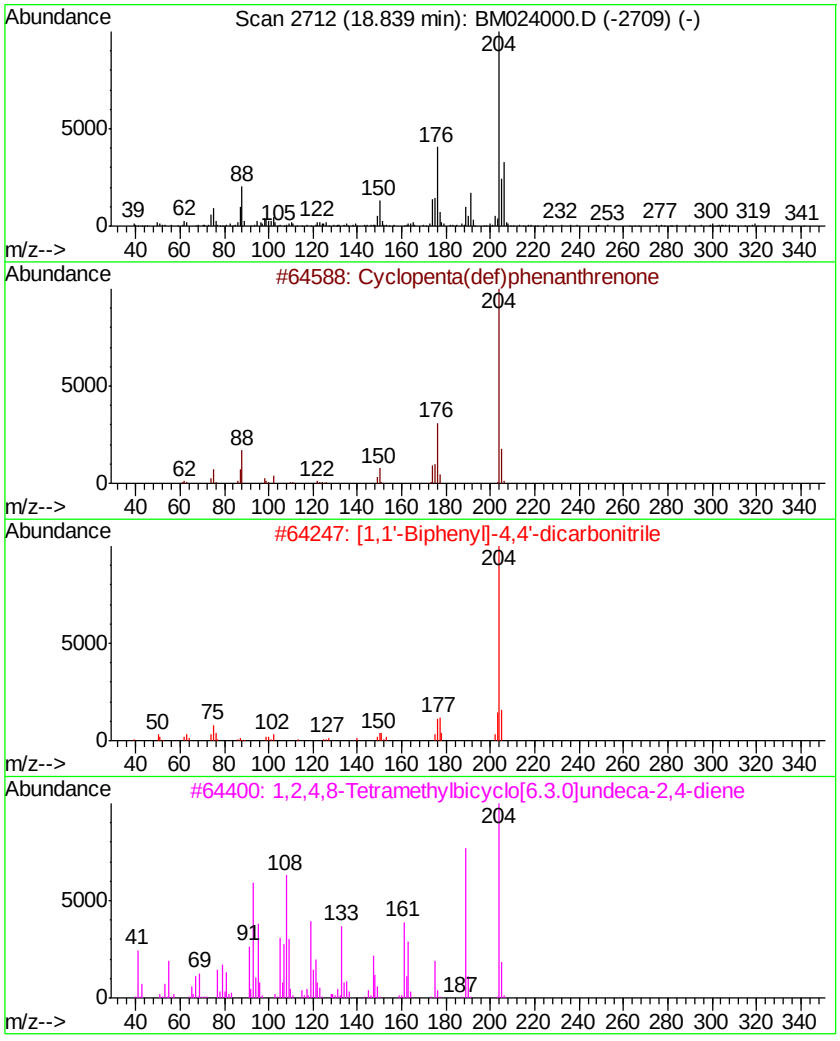
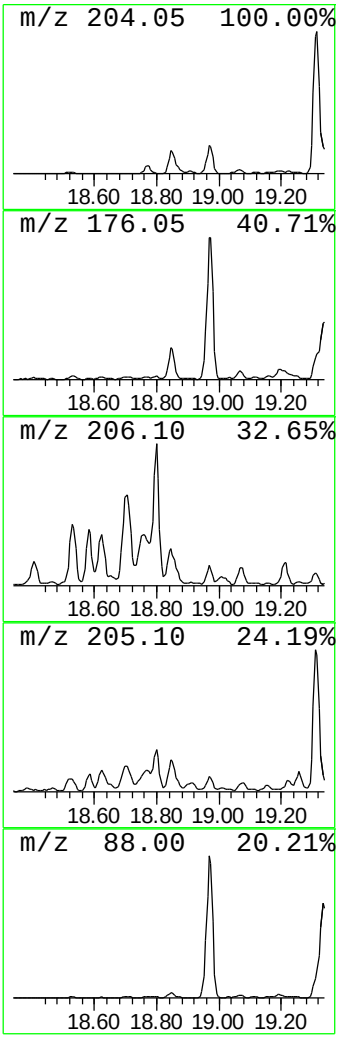
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.84	3.66 ng/ul	910580	Phenanthrene-d10	16.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47
5	[1,1'-Biphenyl-3-ol], 6-chloro-	204	C12H9ClO	021345-13-1	43





Library Search Compound Report

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Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

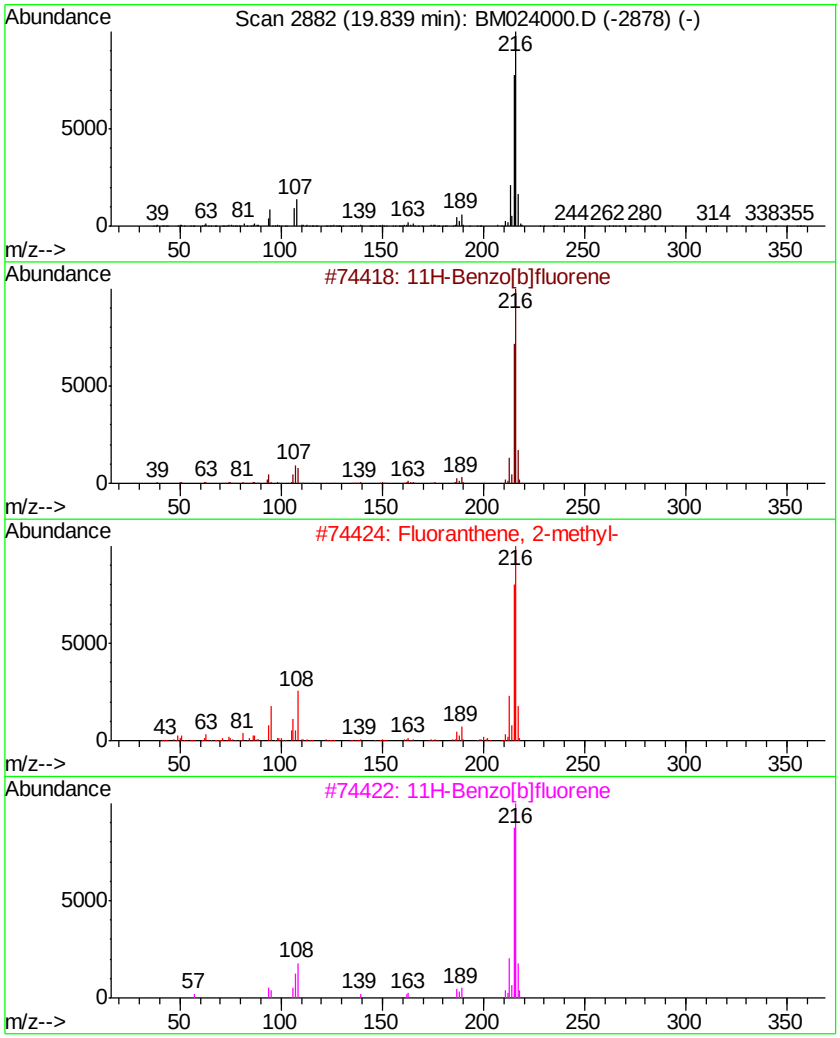
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

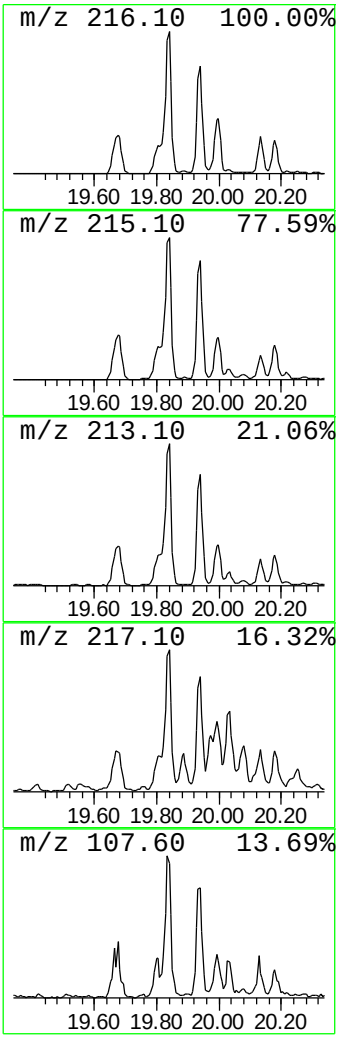
****

Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.84	2.73 ng/ul	3931810	Chrysene-d12	21.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





Library Search Compound Report

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Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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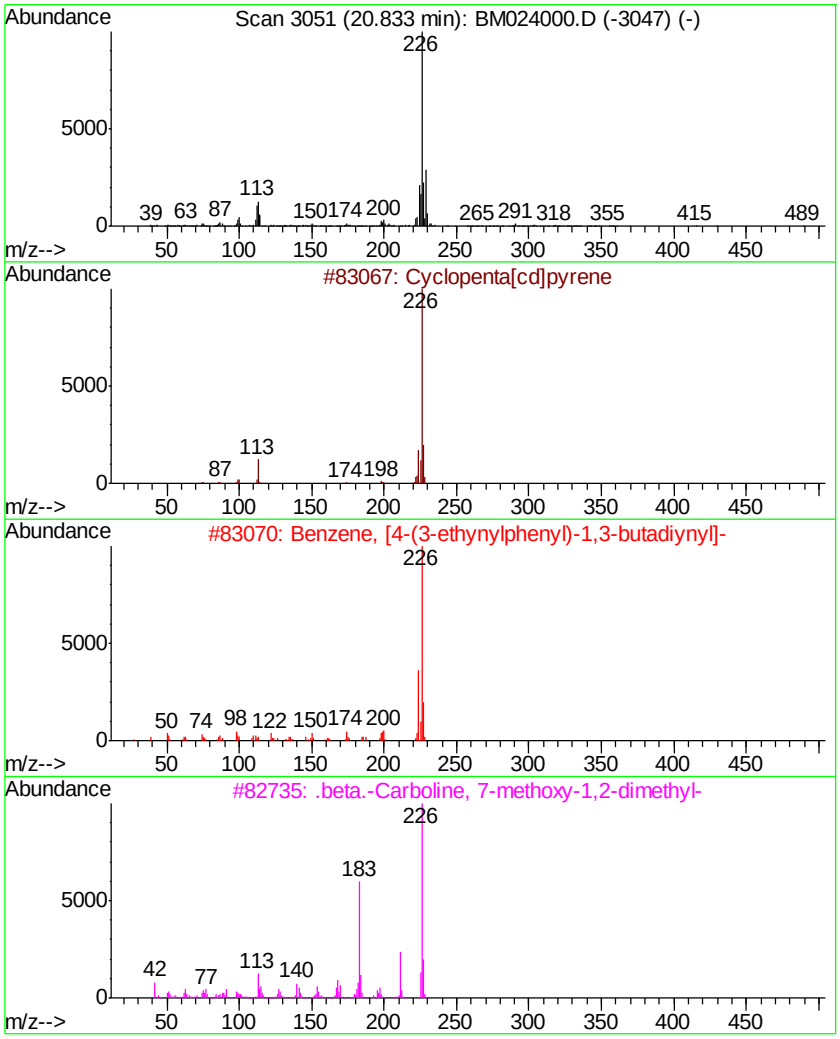
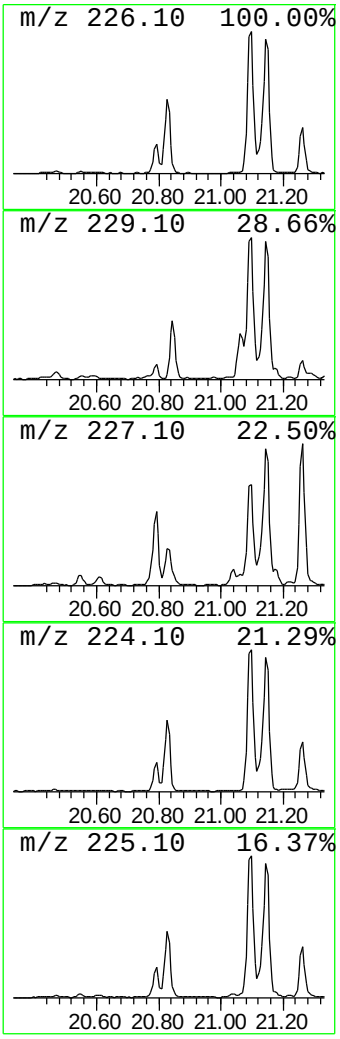
Peak Number 19 Cyclopenta[cd]pyrene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.83	2.05 ng/ul	2953090	Chrysene-d12	21.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	64
2	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	49
3	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	47
4	1,1,3,3-Tetrachloro-1,3-disilacy...	224	C2H4Cl4Si2	002146-97-6	38
5	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	38





Library Search Compound Report

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Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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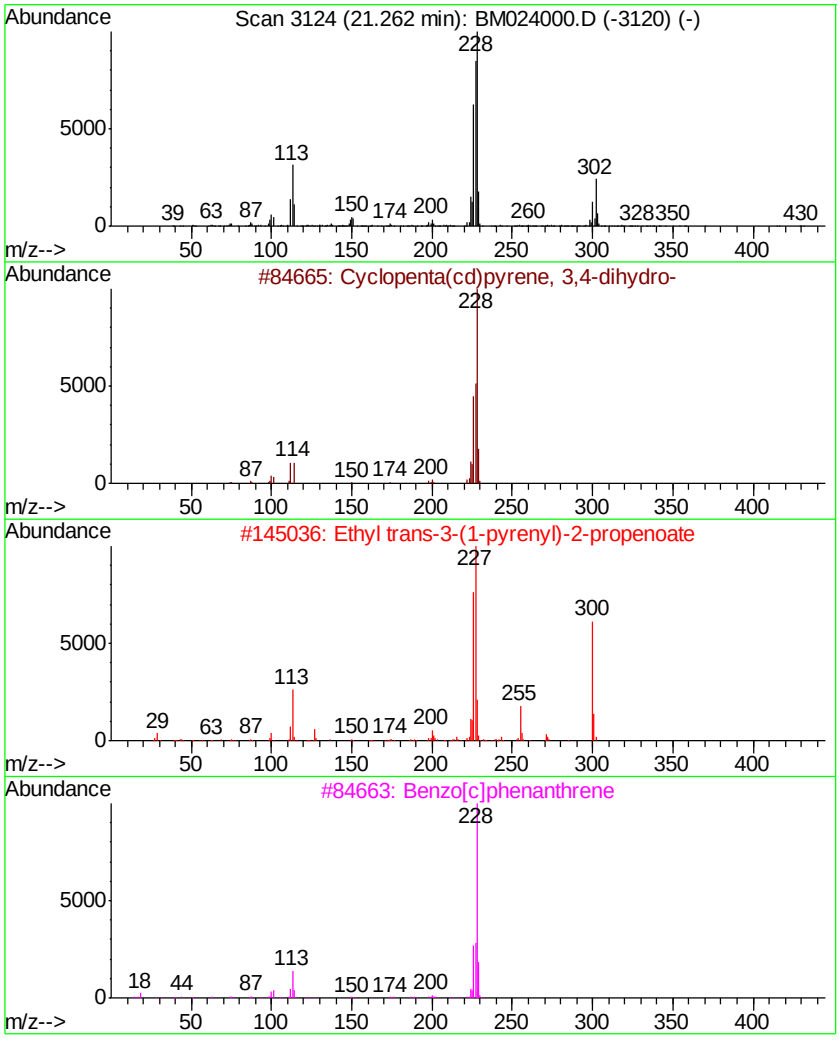
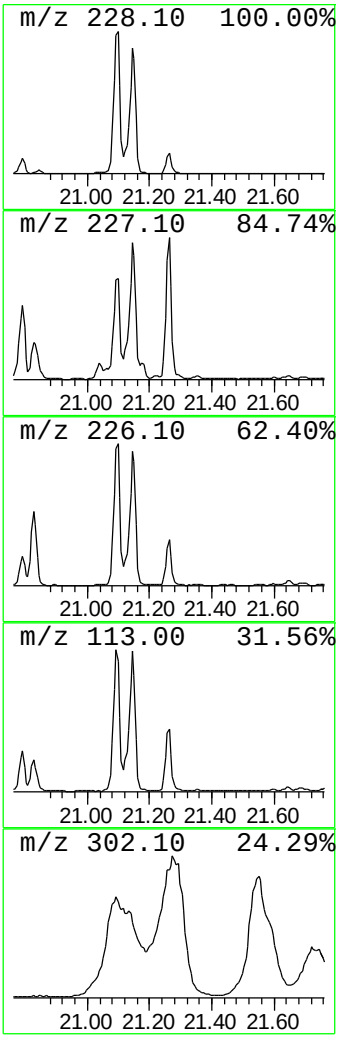
Peak Number 20 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.26	3.28 ng/ul	4735670	Chrysene-d12	21.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	89
2	Ethyl trans-3-(1-pyrenyl)-2-prop...	300	C21H16O2	1000326-14-5	53
3	Benzo[c]phenanthrene	228	C18H12	000195-19-7	46
4	Benzo[c]phenanthrene	228	C18H12	000195-19-7	46
5	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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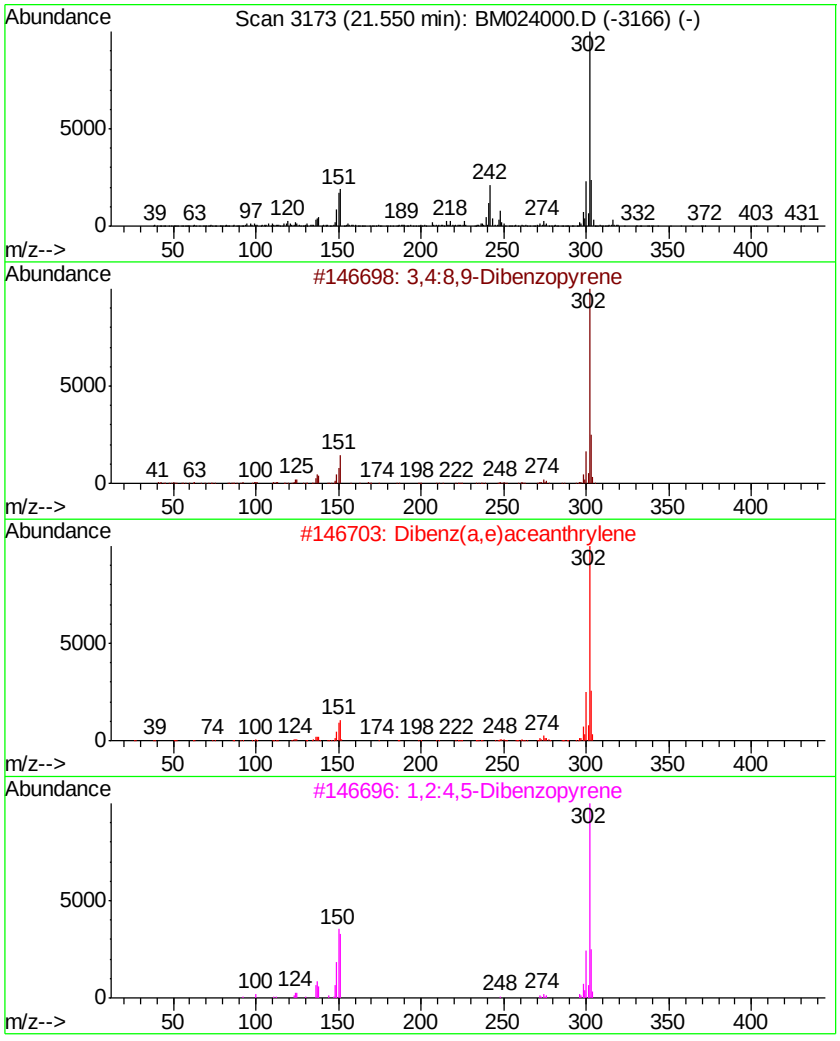
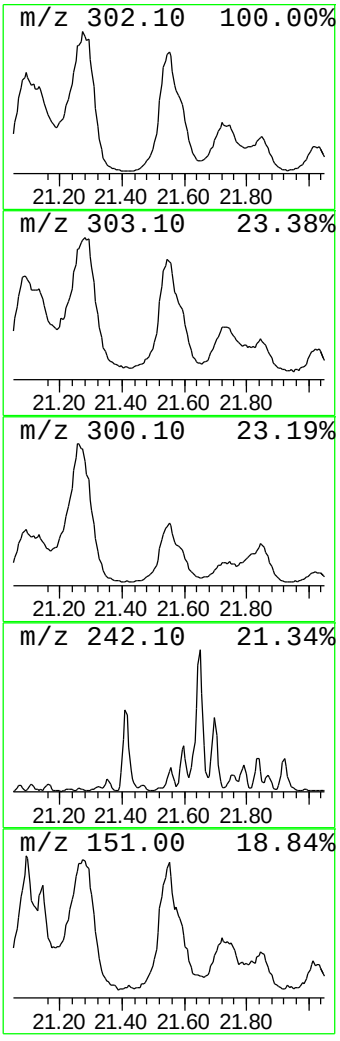
Peak Number 21 3,4:8,9-Dibenzopyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.55	2.29 ng/ul	3302800	Chrysene-d12	21.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	95
2	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	95
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	92
4	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	91
5	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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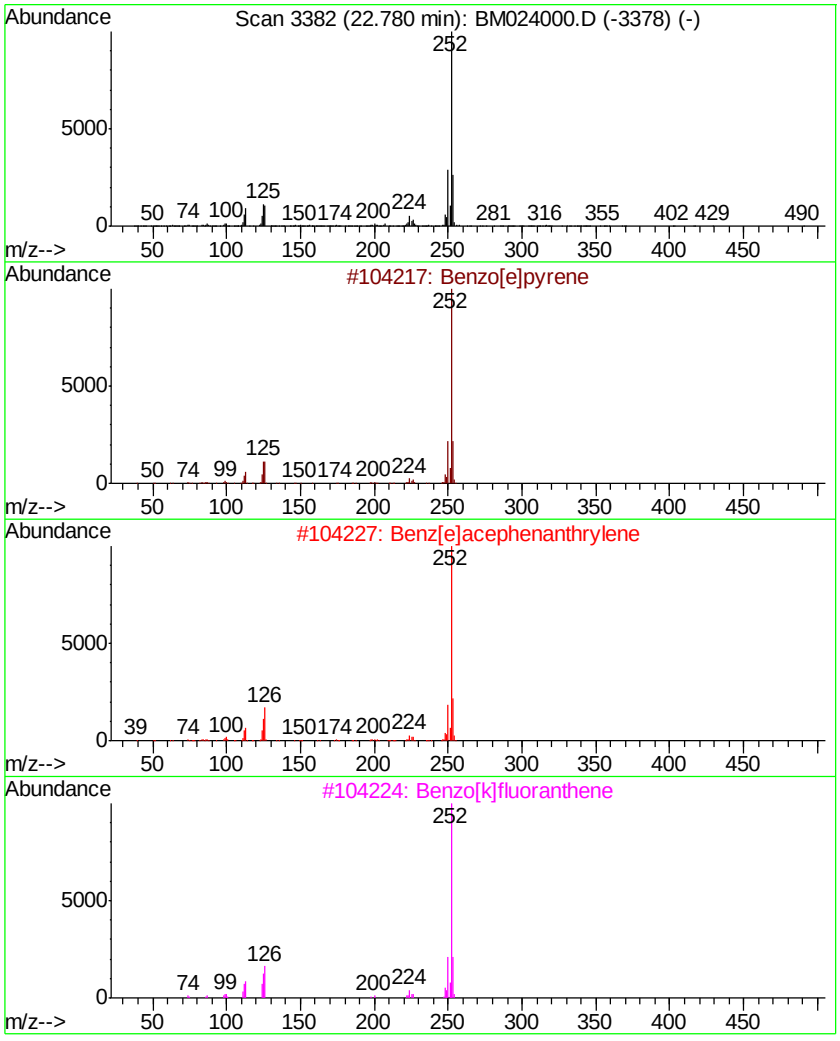
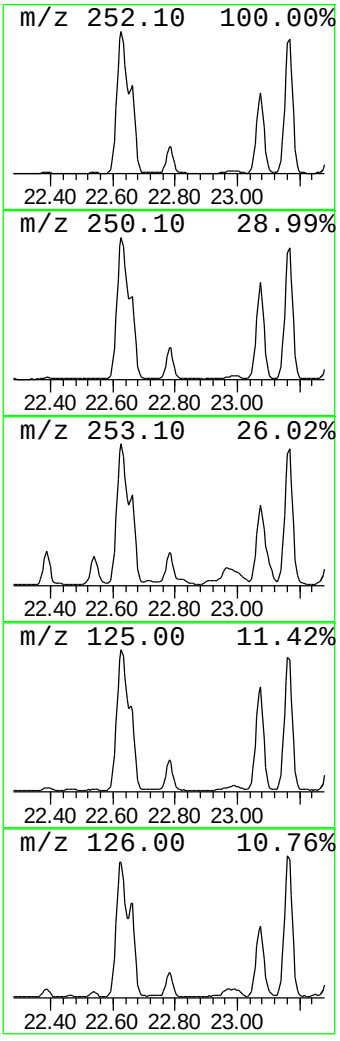
Peak Number 22 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.78	8.13 ng/ul	2496690	Perylene-d12	23.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
4	Benzo[a]pyrene	252	C20H12	000050-32-8	90
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\
Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION

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

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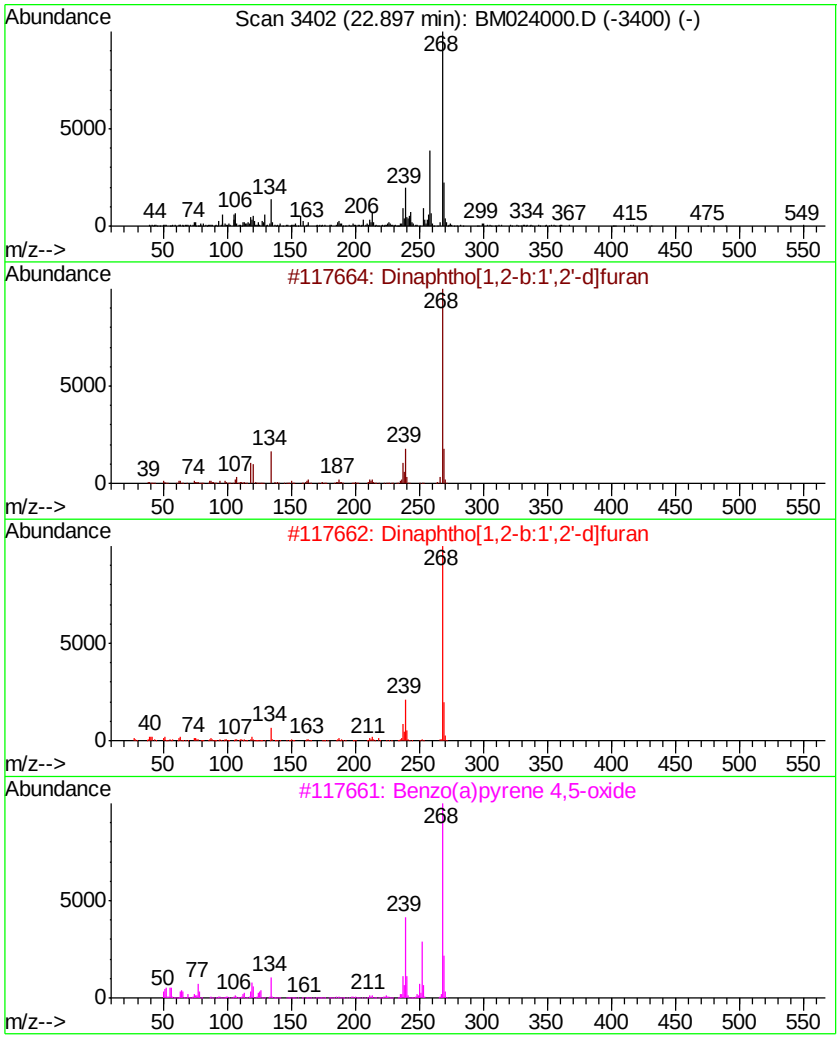
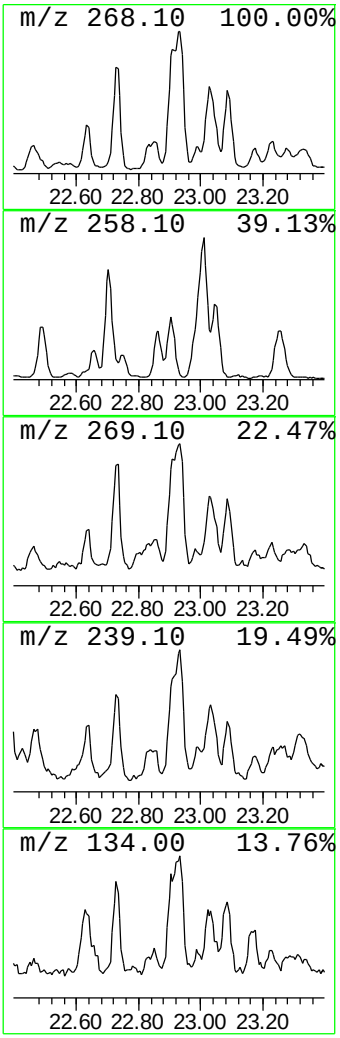
Peak Number 23 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.90	2.71 ng/ul	834017	Perylene-d12	23.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	86
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	76
3	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	64
4	Benzene, 1,1'-(1,2-dimethyl-1,2-...	268	C18H20O2	000895-37-4	53
5	Pyrrolo[3,2-f]quinolin-9-one, 1,...	268	C17H20N2O	1000302-73-3	53





Tentatively Identified Compound (LSC) summary

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Data File : BM024000.D
Acq On : 04 Dec 2019 14:13
Operator : JU
Sample : K4649-01DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : A5167DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.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
6H-Dibenzo[b,d]-p...	15.65	2.1	ng/ul	529072	4	16.90	4971970	20.0
9H-Fluorene, 1-me...	16.21	2.2	ng/ul	537524	4	16.90	4971970	20.0
9H-Fluoren-9-one	16.56	2.1	ng/ul	531624	4	16.90	4971970	20.0
Naphtho[2,1-b]thi...	16.71	6.4	ng/ul	1598770	4	16.90	4971970	20.0
Acridine	17.09	2.5	ng/ul	613938	4	16.90	4971970	20.0
Anthracene, 2-met...	17.77	7.4	ng/ul	1834790	4	16.90	4971970	20.0
Phenanthrene, 2-m...	17.82	13.0	ng/ul	3225090	4	16.90	4971970	20.0
1H-Cyclopropa[l]p...	17.90	5.1	ng/ul	1256790	4	16.90	4971970	20.0
4H-Cyclopenta[def...	17.97	18.2	ng/ul	4527720	4	16.90	4971970	20.0
Phenanthrene, 4-m...	18.00	7.4	ng/ul	1831430	4	16.90	4971970	20.0
Naphthalene, 2-ph...	18.28	6.5	ng/ul	1629310	4	16.90	4971970	20.0
9,10-Anthracenedione	18.33	5.2	ng/ul	1286830	4	16.90	4971970	20.0
Phenanthrene, 4,5...	18.53	2.0	ng/ul	502271	4	16.90	4971970	20.0
Phenanthrene, 3,6...	18.70	3.7	ng/ul	924309	4	16.90	4971970	20.0
1-(4,5-Dimethyl-6...	18.77	2.5	ng/ul	610014	4	16.90	4971970	20.0
9,10-Dimethylanth...	18.80	2.5	ng/ul	634289	4	16.90	4971970	20.0
Cyclopenta(def)ph...	18.84	3.7	ng/ul	910580	4	16.90	4971970	20.0
11H-Benzo[b]fluorene	19.84	2.7	ng/ul	3931810	5	21.11	28856300	20.0
Cyclopenta[cd]pyrene	20.83	2.0	ng/ul	2953090	5	21.11	28856300	20.0
Cyclopenta(cd)pyr...	21.26	3.3	ng/ul	4735670	5	21.11	28856300	20.0
3,4:8,9-Dibenzopy...	21.55	2.3	ng/ul	3302800	5	21.11	28856300	20.0
Benzo[e]pyrene	22.78	8.1	ng/ul	2496690	6	23.25	6143850	20.0
Dinaphtho[1,2-b:1...	22.90	2.7	ng/ul	834017	6	23.25	6143850	20.0