LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023242.D
Acq On : 18 Oct 2019 05:17
Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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	6.834	646	654	664	rVB4	137731	330946	1.43%	0.130%
2	6.998	673	682	689	rBV	75814	146462	0.63%	0.057%
3	7.193	705	715	722	rBV3	131377	242527	1.04%	0.095%
4	7.657	788	794	801	rVV	1531674	2437072	10.50%	0.955%
5	8.228	888	891	900	rVB2	84882	137216	0.59%	0.054%
6	8.369	908	915	920	rBV	142339	232732	1.00%	0.091%
7	8.763	971	982	986	rBV7	86919	244455	1.05%	0.096%
8	8.804	986	989	995	rVB	99277	152843	0.66%	0.060%
9	9.022	1016	1026	1032	rBV8	52525	136883	0.59%	0.054%
10	9.528	1105	1112	1121	rVV2	91156	182988	0.79%	0.072%
11	9.634	1125	1130	1140	rVB5	85607	170630	0.74%	0.067%
12	10.063	1197	1203	1213	rVB	162176	294507	1.27%	0.115%
13	10.439	1258	1267	1272	rBV	2017846	3463727	14.92%	1.357%
14	10.486	1272	1275	1283	rVV	455091	772118	3.33%	0.303%
15	12.110	1545	1551	1558	rVB	220733	352220	1.52%	0.138%
16	12.333	1579	1589	1595	rBV	183847	309944	1.34%	0.121%
17	13.133	1721	1725	1733	rVB	76373	122218	0.53%	0.048%
18	13.627	1803	1809	1814	rVV	166068	297169	1.28%	0.116%
19	13.680	1814	1818	1821	rVV	102647	151330	0.65%	0.059%
20	13.722	1821	1825	1829	rVV	248206	377886	1.63%	0.148%
21	13.763	1829	1832	1839	rVB3	130687	205914	0.89%	0.081%
22	14.022	1865	1876	1889	rBV2	1810242	3427116	14.76%	1.343%
23	14.304	1916	1924	1930	rVV	3013796	4641771	20.00%	1.819%
24	14.369	1930	1935	1943	rVV	686704	1045891	4.51%	0.410%
25	14.504	1952	1958	1968	rBV5	85694	221417	0.95%	0.087%
26	14.704	1987	1992	2001	rVB	584391	943227	4.06%	0.370%
27	14.792	2001	2007	2011	rVB2	80469	118648	0.51%	0.046%
28	14.933	2023	2031	2035	rBV3	80736	170585	0.73%	0.067%
29	15.104	2052	2060	2063	rBV5	66534	136542	0.59%	0.054%
30	15.180	2069	2073	2081	rVB	104947	164936	0.71%	0.065%
31	15.298	2088	2093	2098	rBV	419562	625105	2.69%	0.245%
32	15.357	2098	2103	2110	rVV2	966264	1377188	5.93%	0.540%
33	15.657	2149	2154	2158	rBV	227444	343486	1.48%	0.135%
34	15.798	2174	2178	2186	rVB	256047	517830	2.23%	0.203%

LSC Area Percent Report

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Acq On : 18 Oct 2019 05:17
Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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	15.886	2187	2193	2200	rVB4	66702	136789	0.59%	0.054%
36	16.027	2209	2217	2226	rBV3	159093	318712	1.37%	0.125%
37	16.363	2264	2274	2279	rBV4	178999	455274	1.96%	0.178%
38	16.410	2279	2282	2288	rVB3	106426	162881	0.70%	0.064%
39	16.515	2296	2300	2306	rVB3	78846	126132	0.54%	0.049%
40	16.598	2310	2314	2317	rVV2	120642	190517	0.82%	0.075%
41	16.633	2317	2320	2324	rVV3	184239	269037	1.16%	0.105%
42	16.704	2327	2332	2341	rVB	472491	773585	3.33%	0.303%
43	16.792	2342	2347	2353	rBV3	150915	319265	1.38%	0.125%
44	16.868	2355	2360	2366	rVB	469492	690796	2.98%	0.271%
45	17.051	2385	2391	2394	rBV2	3664359	5137976	22.13%	2.013%
46	17.092	2394	2398	2404	rVV	9373481	13209229	56.90%	5.176%
47	17.151	2404	2408	2410	rVV2	579288	841894	3.63%	0.330%
48	17.186	2410	2414	2419	rVV	2620109	3759531	16.20%	1.473%
49	17.245	2419	2424	2431	rVB3	299636	533429	2.30%	0.209%
50	17.451	2450	2459	2464	rBV2	1213067	1985165	8.55%	0.778%
51	17.580	2477	2481	2484	rBV2	104682	146738	0.63%	0.058%
52	17.633	2487	2490	2495	rVB2	173034	235706	1.02%	0.092%
53	17.774	2511	2514	2522	rVB3	80485	132955	0.57%	0.052%
54	17.927	2535	2540	2544	rBV	887762	1193184	5.14%	0.468%
55	17.974	2544	2548	2555	rVB	1361215	1942909	8.37%	0.761%
56	18.057	2557	2562	2566	rBV	602782	838897	3.61%	0.329%
57	18.121	2567	2573	2577	rBV2	1706435	2893366	12.46%	1.134%
58	18.157	2577	2579	2584	rVB	622798	767147	3.30%	0.301%
59	18.227	2588	2591	2595	rBV2	95671	171452	0.74%	0.067%
60	18.274	2596	2599	2602	rVB2	126745	144436	0.62%	0.057%
61	18.433	2622	2626	2629	rVV	749180	1045725	4.50%	0.410%
62	18.468	2629	2632	2640	rVB	785716	995904	4.29%	0.390%
63	18.686	2665	2669	2673	rVV3	229604	293658	1.27%	0.115%
64	18.733	2674	2677	2680	rVV	193903	242850	1.05%	0.095%
65	18.768	2680	2683	2688	rVB2	238029	319092	1.37%	0.125%
66	18.851	2693	2697	2702	rBV3	589043	963787	4.15%	0.378%
67	18.915	2704	2708	2711	rBV2	296362	460717	1.98%	0.181%
68	18.986	2716	2720	2729	rVB2	1021287	1637396	7.05%	0.642%
69	19.115	2736	2742	2748	rBV	15564669	20823315	89.70%	8.160%
70	19.186	2751	2754	2756	rBV2	273723	355339	1.53%	0.139%
71	19.262	2763	2767	2771	rBV	765521	1071184	4.61%	0.420%

LSC Area Percent Report

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Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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	19.356	2780	2783	2794	rVB2	600528	1244198	5.36%	0.488%
73	19.480	2794	2804	2812	rBV	14165542	23213582	100.00%	9.096%
74	19.551	2813	2816	2824	rVB2	473620	816496	3.52%	0.320%
75	19.656	2831	2834	2839	rBV	704194	944592	4.07%	0.370%
76	19.715	2840	2844	2851	rVB	851813	1286708	5.54%	0.504%
77	19.815	2854	2861	2865	rBV3	890197	2157230	9.29%	0.845%
78	19.951	2879	2884	2885	rBV3	733089	1222191	5.26%	0.479%
79	19.974	2885	2888	2893	rVB	1622561	2453137	10.57%	0.961%
80	20.080	2902	2906	2909	rBV	954522	1193744	5.14%	0.468%
81	20.133	2910	2915	2919	rVV2	1539775	2233670	9.62%	0.875%
82	20.274	2936	2939	2943	rVB	833790	950138	4.09%	0.372%
83	20.321	2943	2947	2952	rBV	764557	1160047	5.00%	0.455%
84	20.533	2980	2983	2986	rBV3	443536	673504	2.90%	0.264%
85	20.721	3012	3015	3021	rVB	2068436	2855085	12.30%	1.119%
86	20.892	3038	3044	3047	rBV2	1433450	2721793	11.73%	1.067%
87	20.927	3047	3050	3053	rVV2	1189196	1485113	6.40%	0.582%
88	20.968	3053	3057	3062	rVV2	1586545	3015460	12.99%	1.182%
89	21.021	3062	3066	3077	rVB	2172451	3352286	14.44%	1.314%
90	21.233	3097	3102	3107	rBV2	11307397	20447343	88.08%	8.012%
91	21.280	3107	3110	3121	rVB	7605844	10577691	45.57%	4.145%
92	21.398	3127	3130	3135	rBV	1252704	2028407	8.74%	0.795%
93	21.550	3153	3156	3162	rBV2	1493888	2139958	9.22%	0.839%
94	22.803	3363	3369	3374	rBV2	9778508	22251187	95.85%	8.719%
95	22.968	3393	3397	3402	rBV	2062226	3260856	14.05%	1.278%
96	23.274	3444	3449	3458	rVB	4980414	9053047	39.00%	3.548%
97	23.368	3459	3465	3471	rBV	8443780	14796573	63.74%	5.798%
98	23.462	3477	3481	3485	rBV	2897840	4421003	19.04%	1.732%
99	25.691	3853	3860	3870	rVB2	4958501	13990715	60.27%	5.482%
100	26.368	3971	3975	3994	rVB	3293402	9166704	39.49%	3.592%

Sum of corrected areas: 255193956

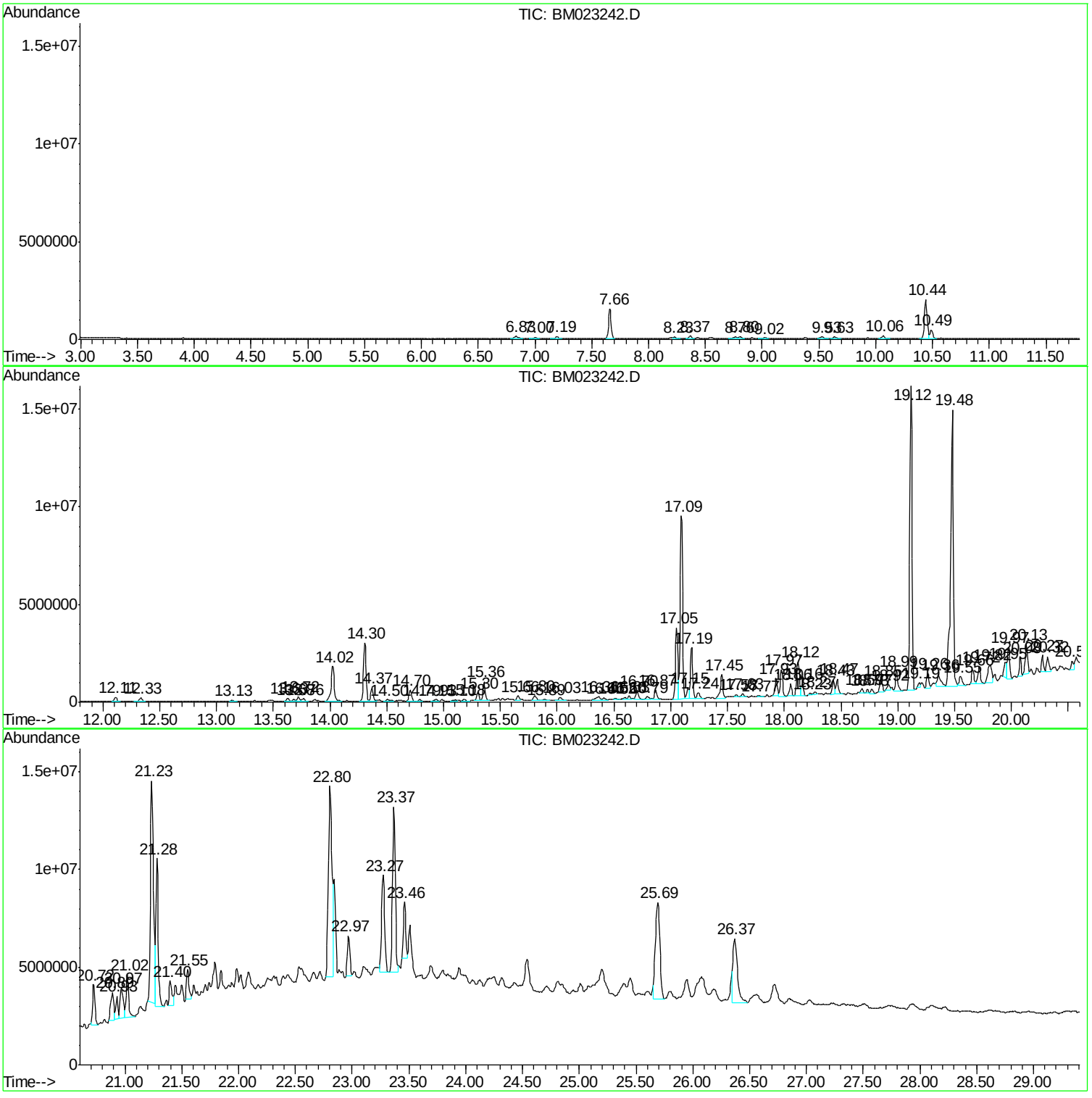
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023242.D
Acq On : 18 Oct 2019 05:17
Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023242.D
Acq On : 18 Oct 2019 05:17
Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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

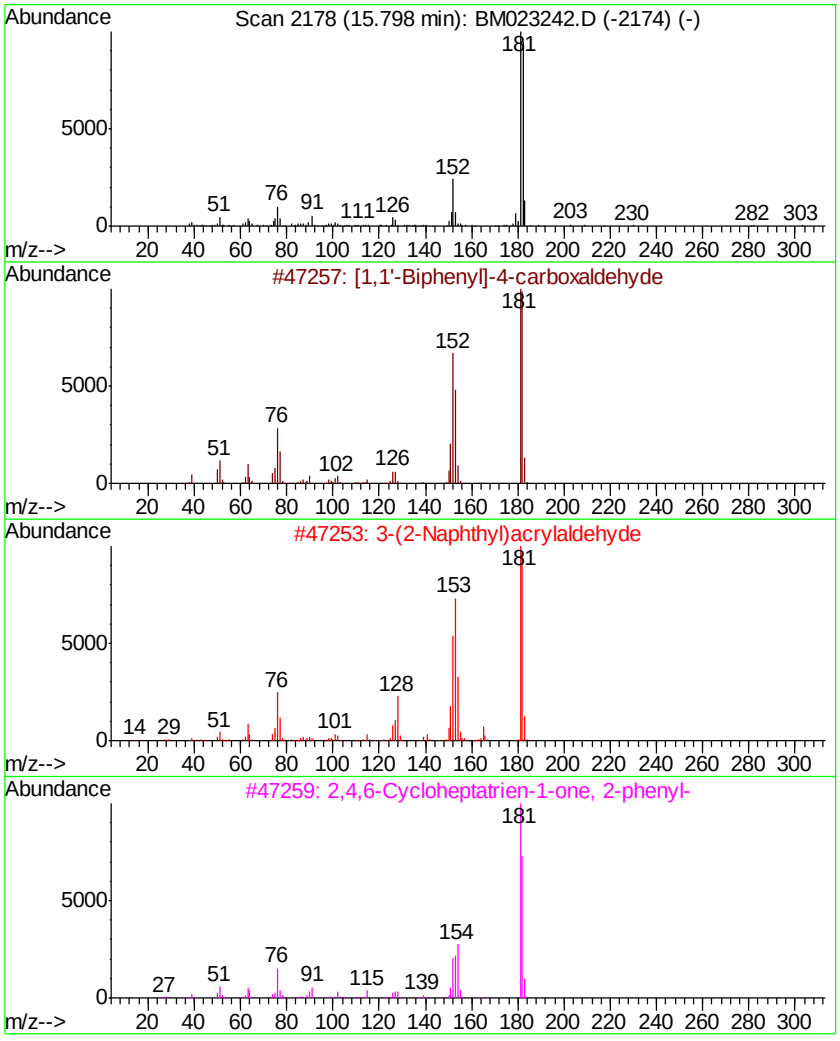
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

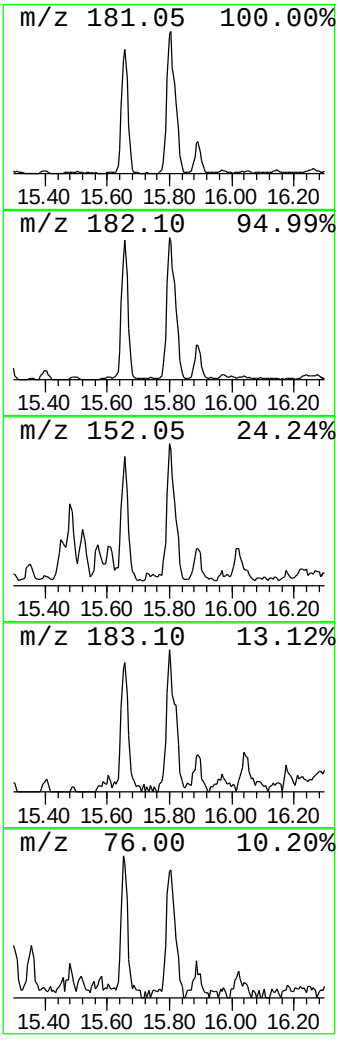
****

Peak Number 1 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.80	2.02 ng/ul	517830	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
2	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	86
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
4	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	72
5	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023242.D
Acq On : 18 Oct 2019 05:17
Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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

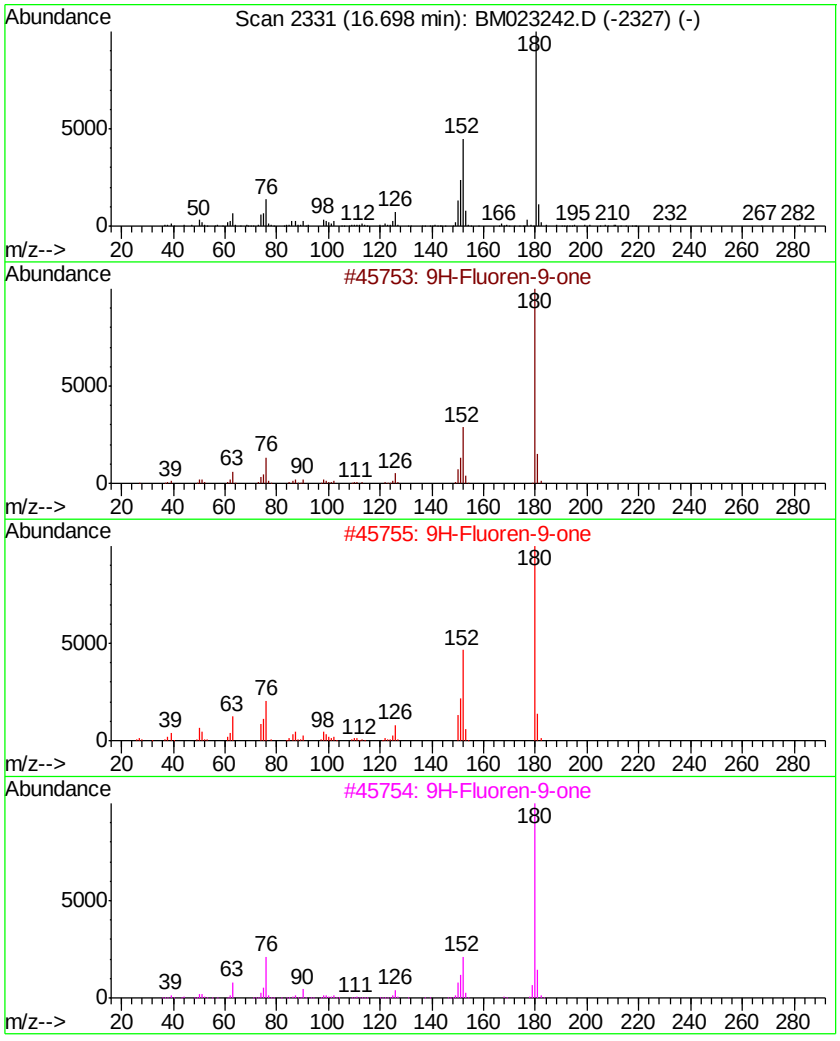
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

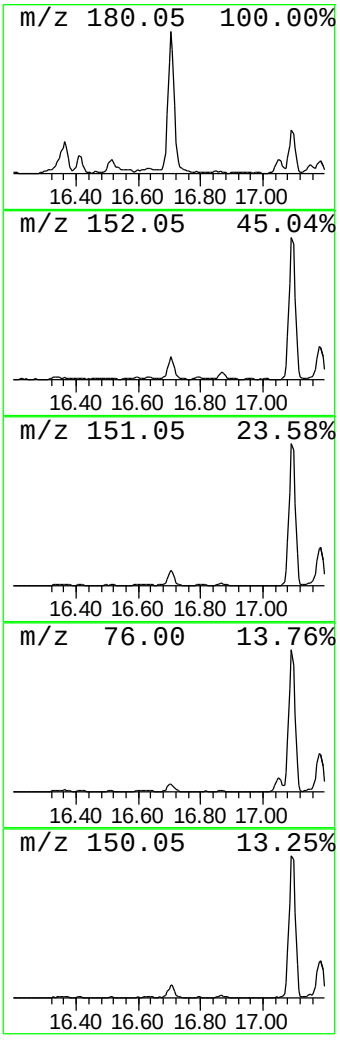
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	3.01 ng/ul	773585	Phenanthrene-d10	17.05

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	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81





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Instrument : BNA_M
ClientSampleId : BFBB1DL

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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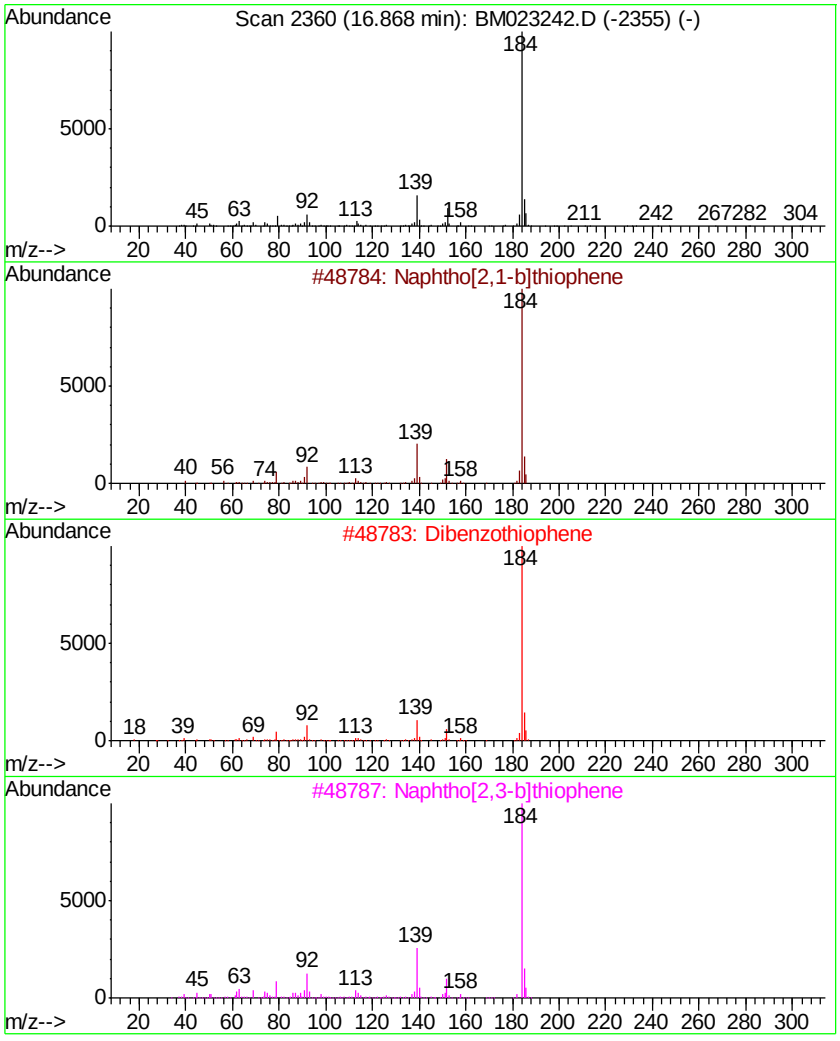
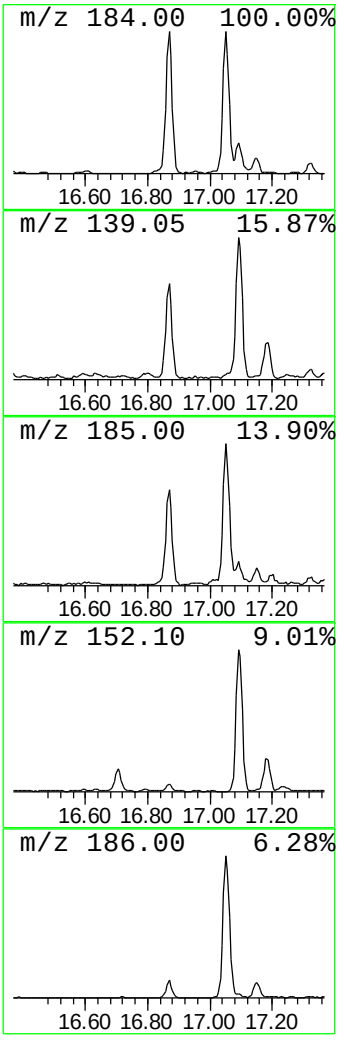
Peak Number 3 Naphtho[2,1-b]thiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.87	2.69 ng/ul	690796	Phenanthrene-d10	17.05

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	97
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Dibenzothiophene	184	C12H8S	000132-65-0	95





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Data File : BM023242.D
Acq On : 18 Oct 2019 05:17
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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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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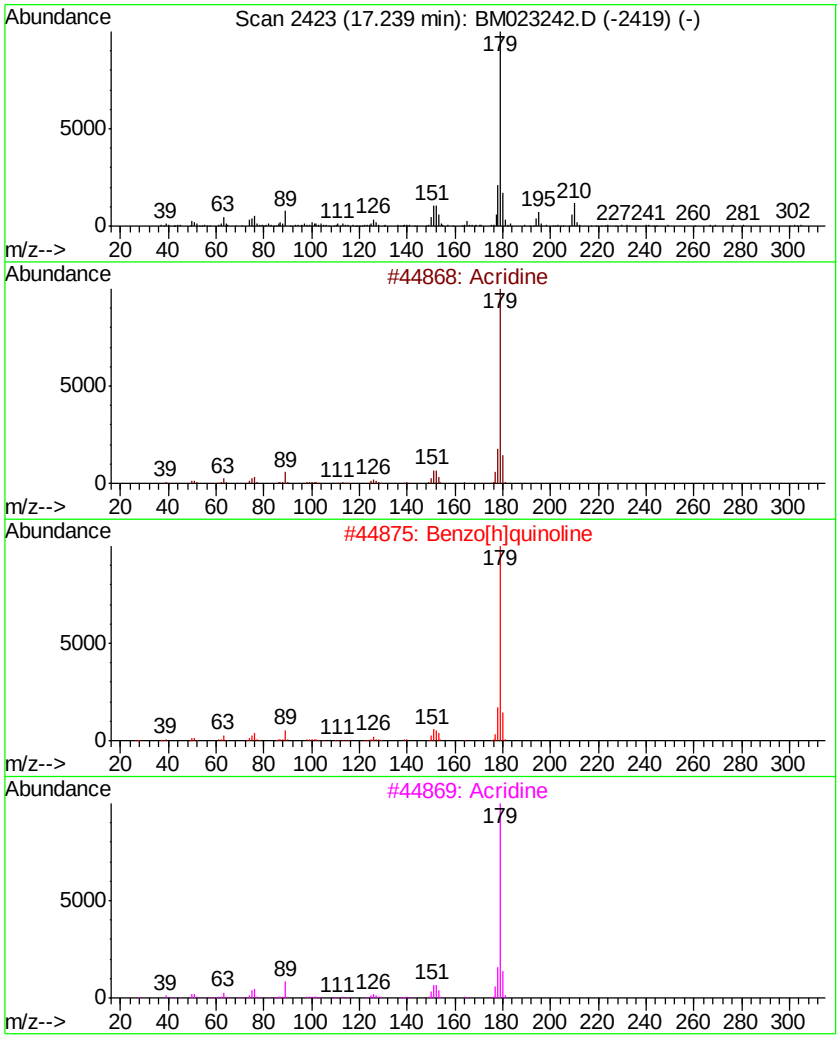
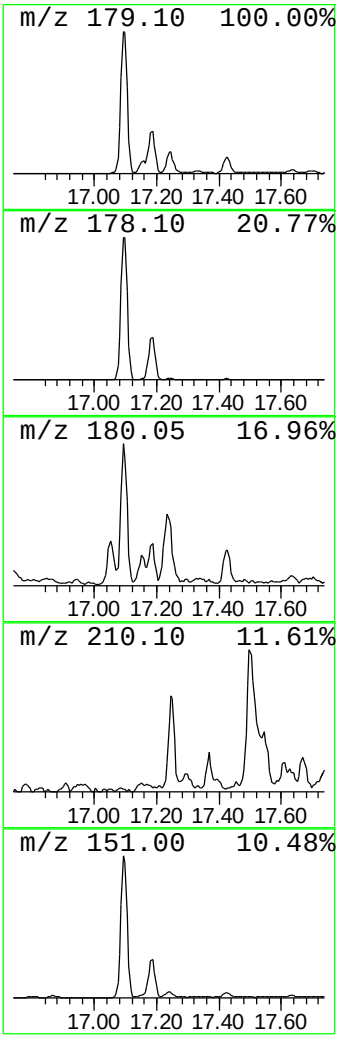
Peak Number 4 Acridine Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.24	2.08 ng/ul	533429	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	95
2	Benzo[h]quinoline	179	C13H9N	000230-27-3	93
3	Acridine	179	C13H9N	000260-94-6	92
4	Benzo[h]isoquinoline	179	C13H9N	000229-71-0	89
5	Benzo[g]quinoline	179	C13H9N	000260-36-6	76





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023242.D
Acq On : 18 Oct 2019 05:17
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Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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

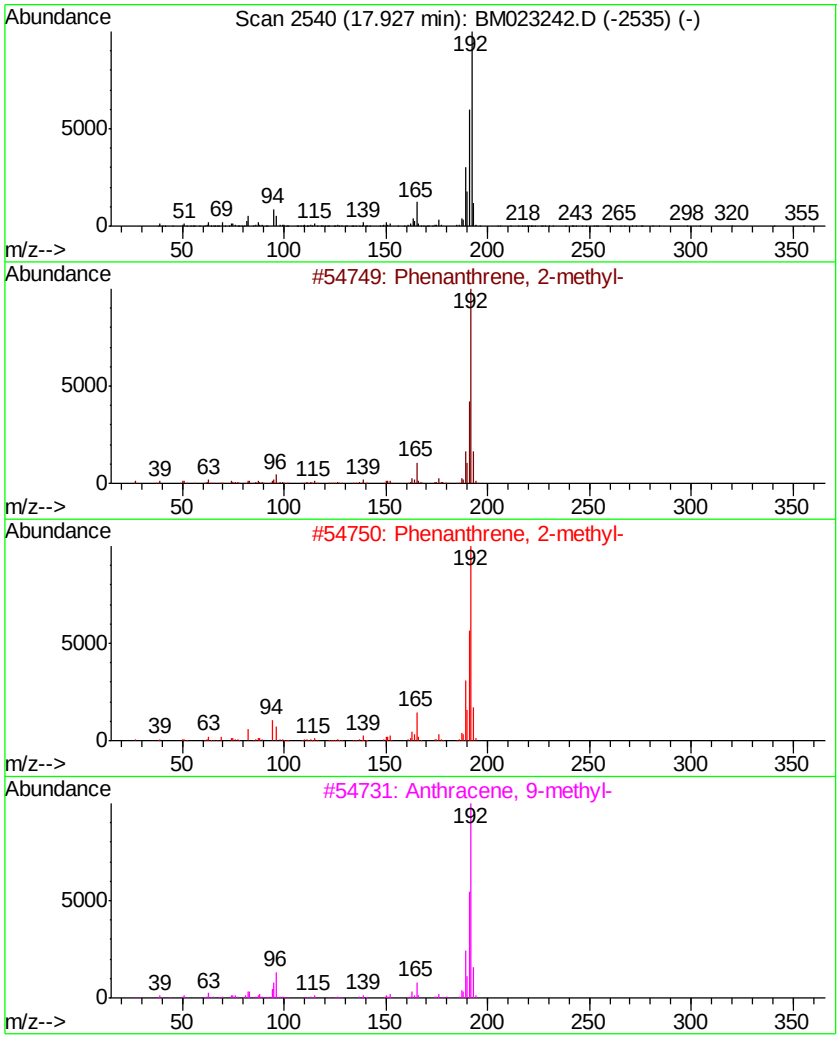
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

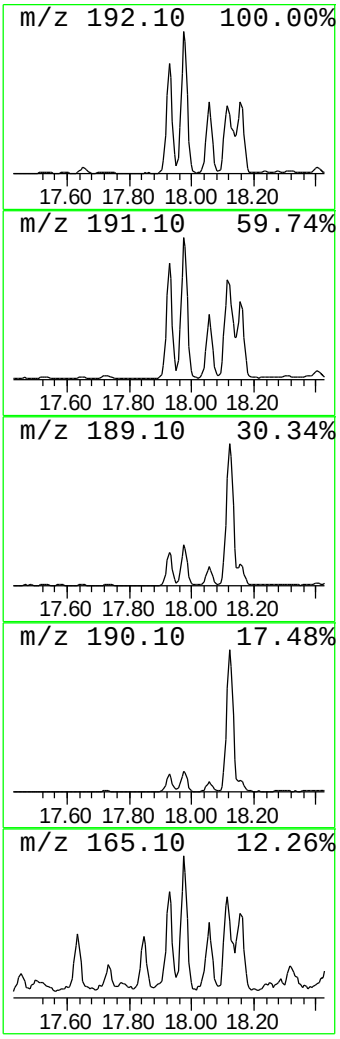
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.93	4.64 ng/ul	1193180	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	89





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Acq On : 18 Oct 2019 05:17
Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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Quant Title : SVOA CALIBRATION

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

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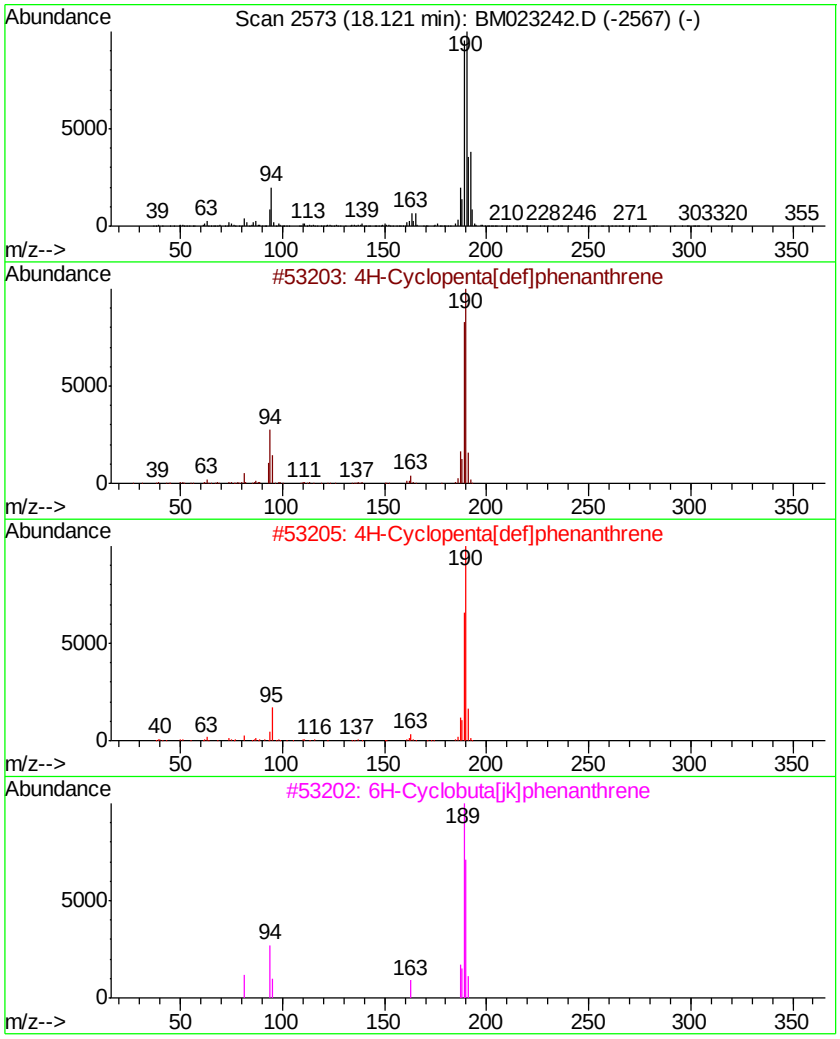
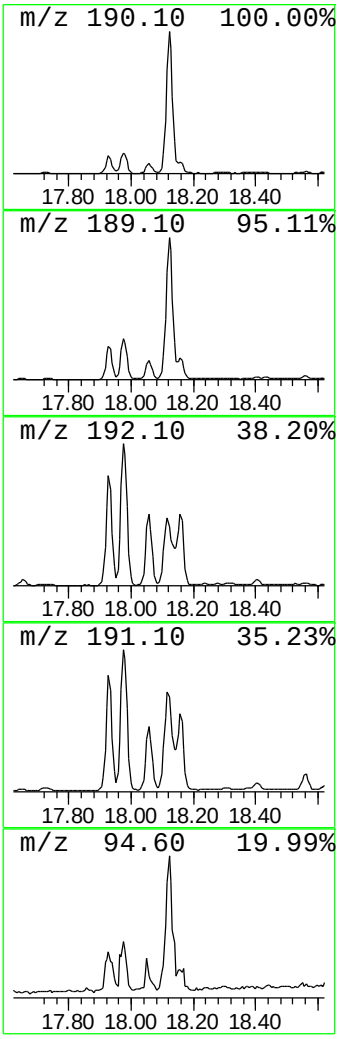
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	11.26 ng/ul	2893370	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52





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Instrument : BNA_M
ClientSampleId : BFBB1DL

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Quant Title : SVOA CALIBRATION

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

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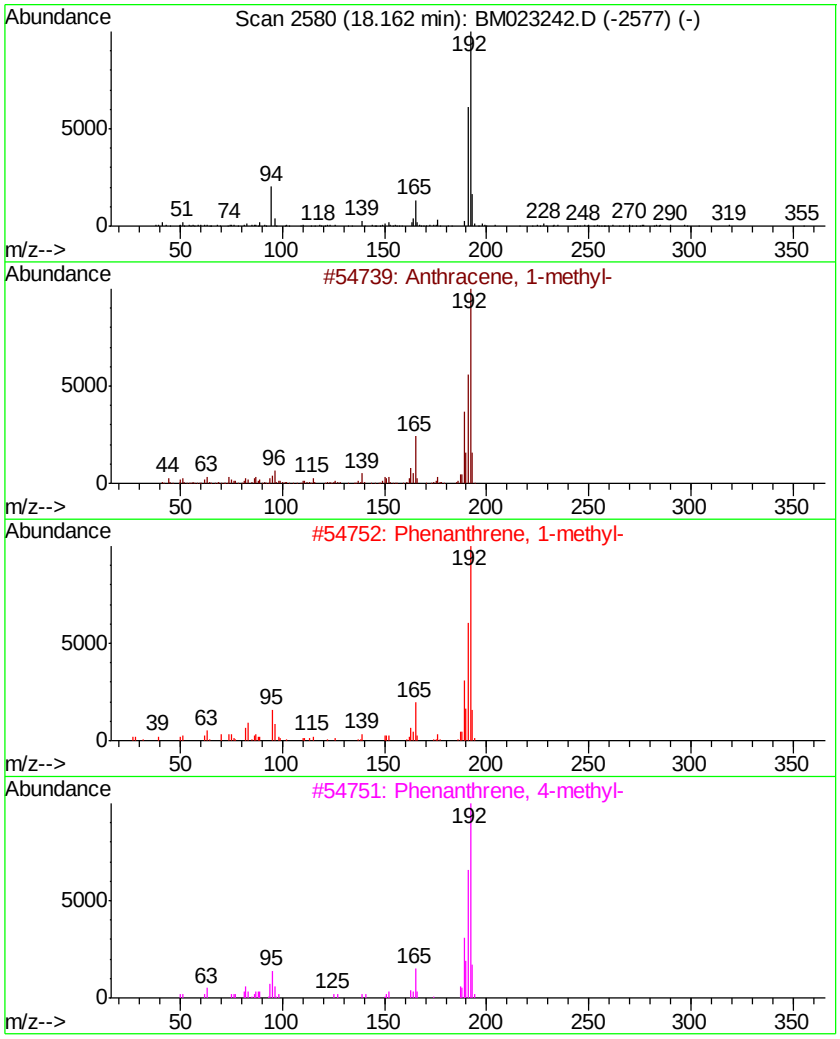
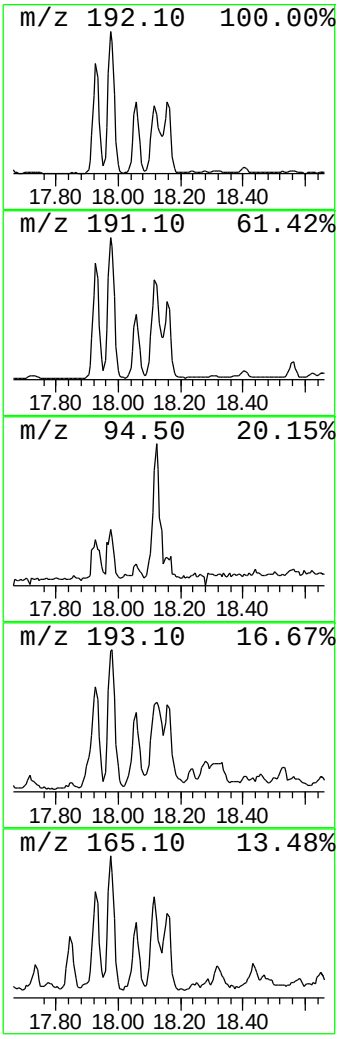
Peak Number 9 Anthracene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.16	2.99 ng/ul	767147	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





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ClientSampleId : BFBB1DL

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Quant Title : SVOA CALIBRATION

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

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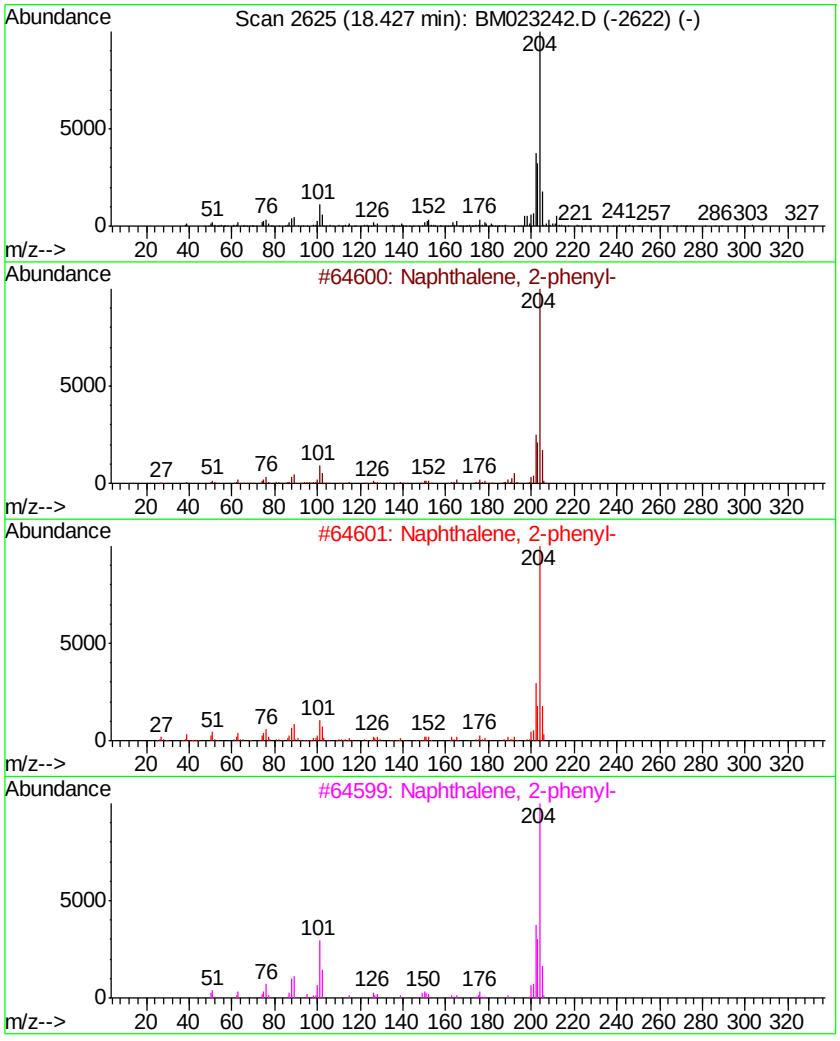
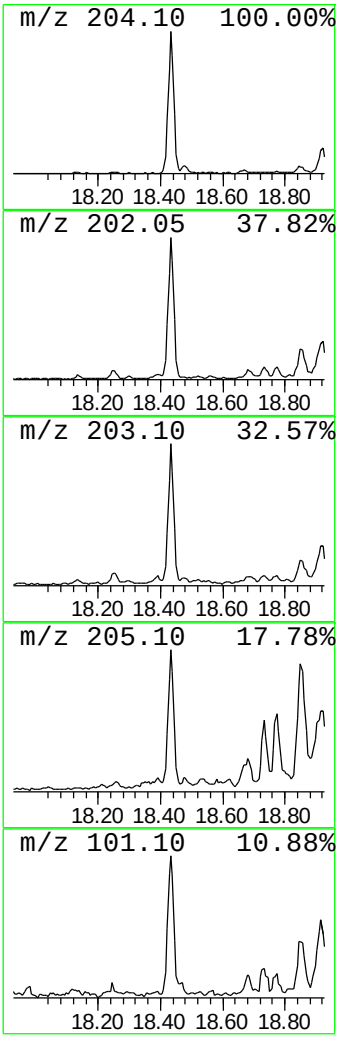
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	4.07 ng/ul	1045730	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	68





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Misc :
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ClientSampleId : BFBB1DL

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Quant Title : SVOA CALIBRATION

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

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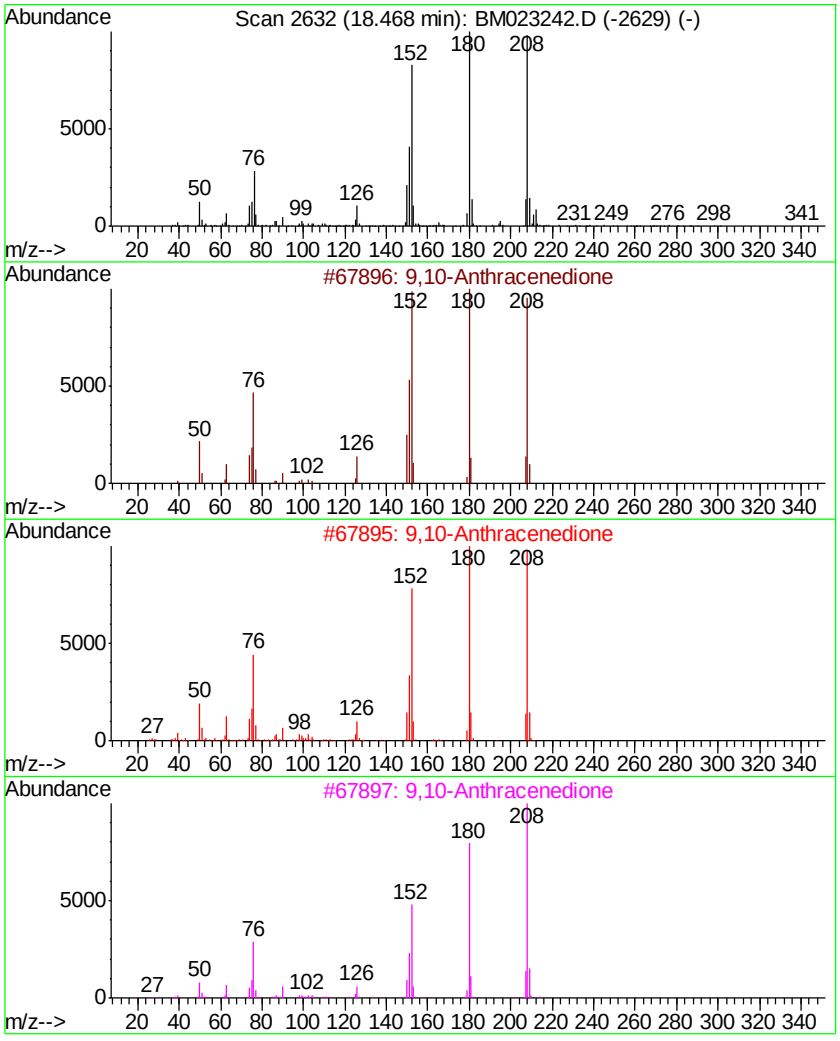
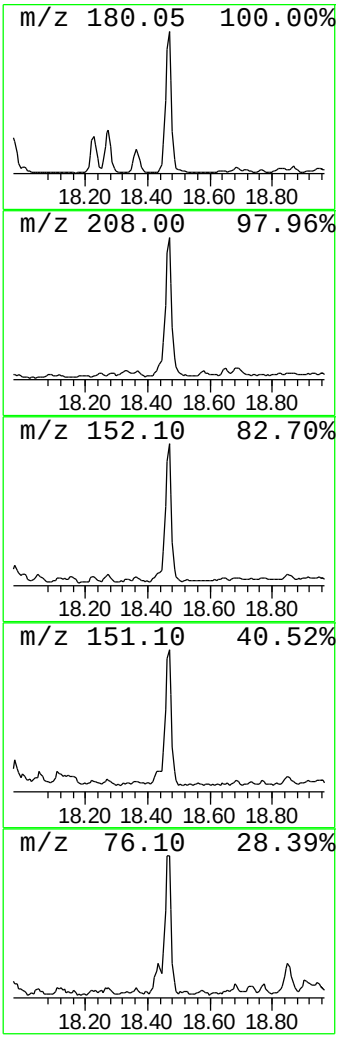
Peak Number 11 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.47	3.88 ng/ul	995904	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	90
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64





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Misc :
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Quant Title : SVOA CALIBRATION

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

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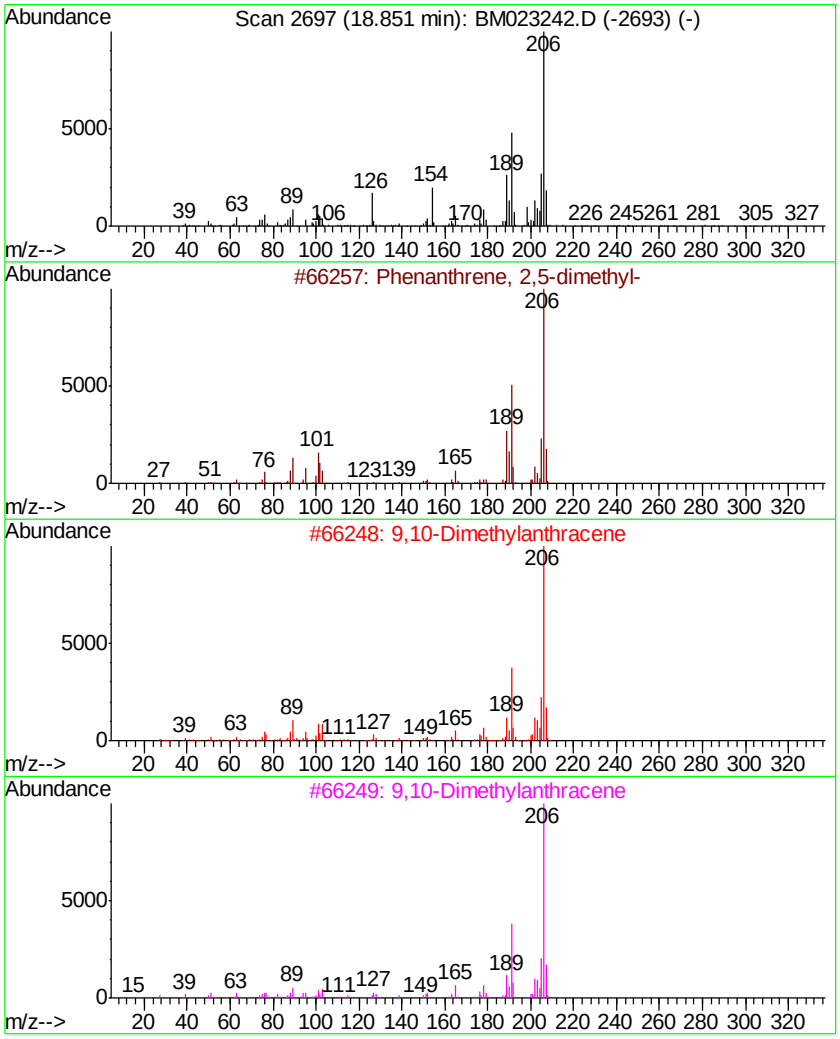
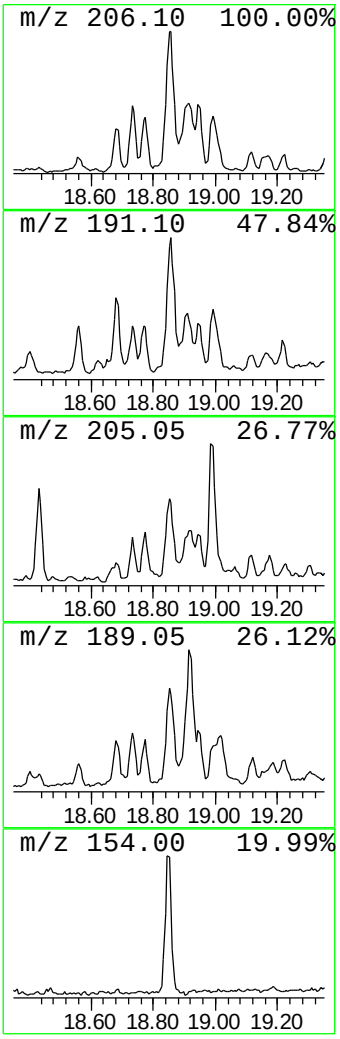
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	3.75 ng/ul	963787	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	86





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Quant Title : SVOA CALIBRATION

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

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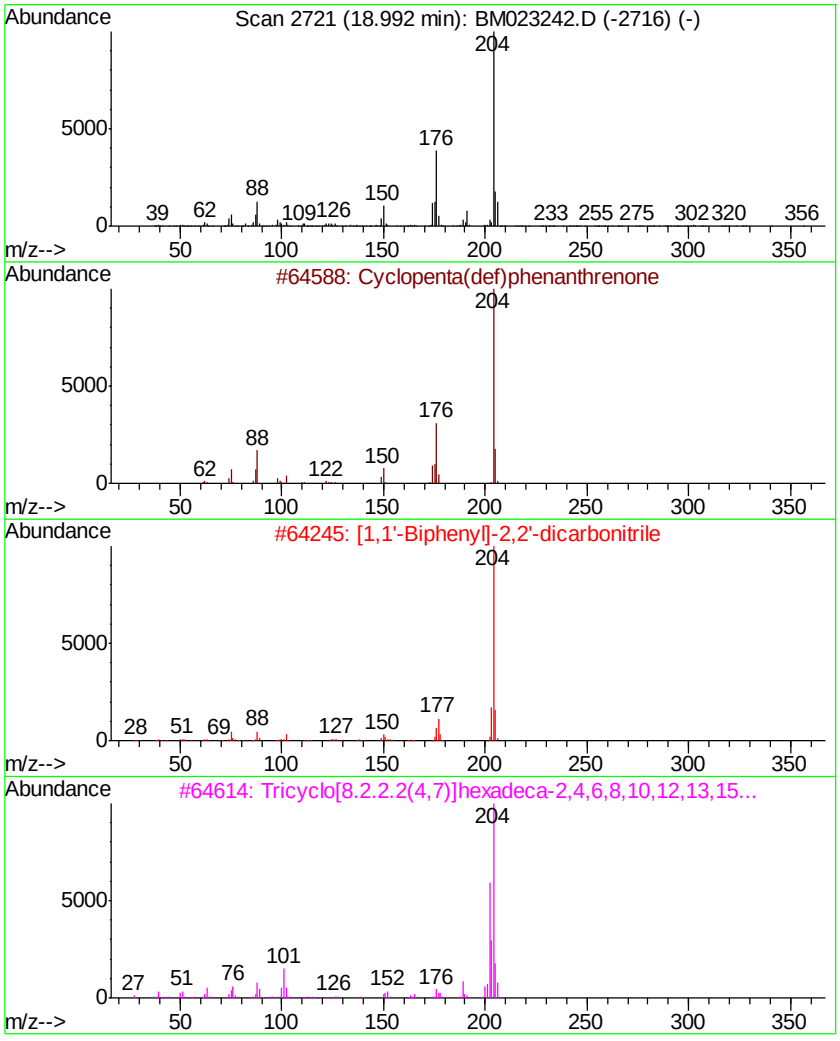
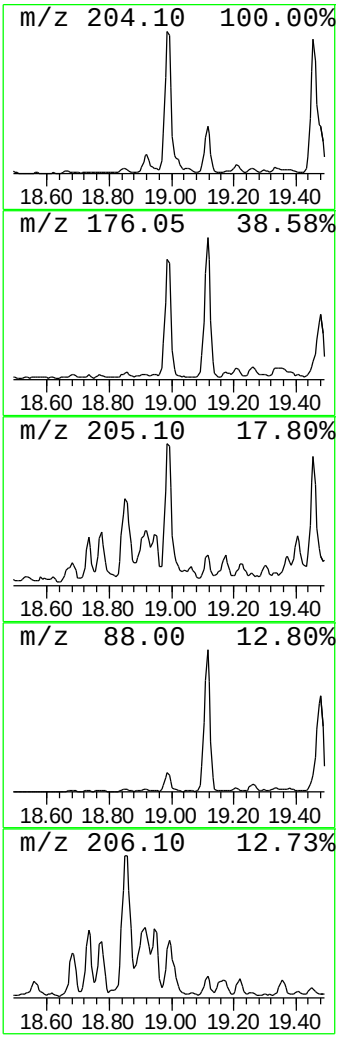
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.99	6.37 ng/ul	1637400	Phenanthrene-d10	17.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	46
4	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	45
5	Ethyl 2,3,4,6-tetrakis-O-(trimet...	496	C20H48O6Si4	1000365-90-0	43





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Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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Quant Title : SVOA CALIBRATION

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

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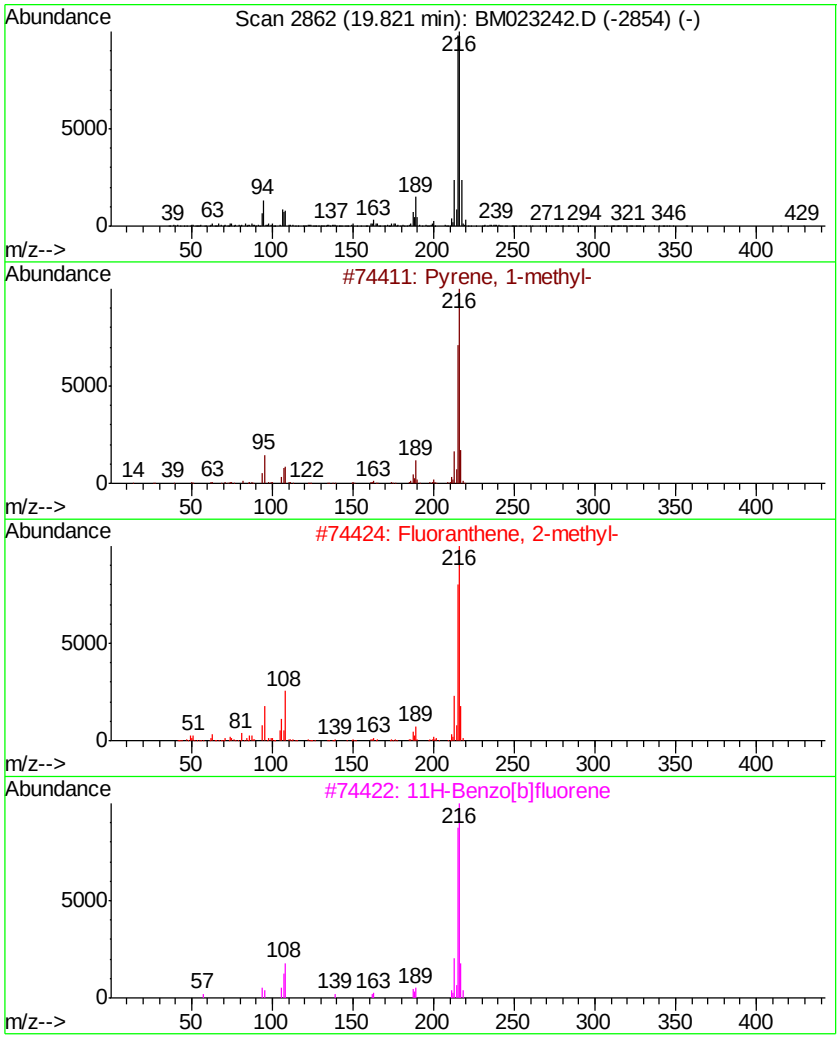
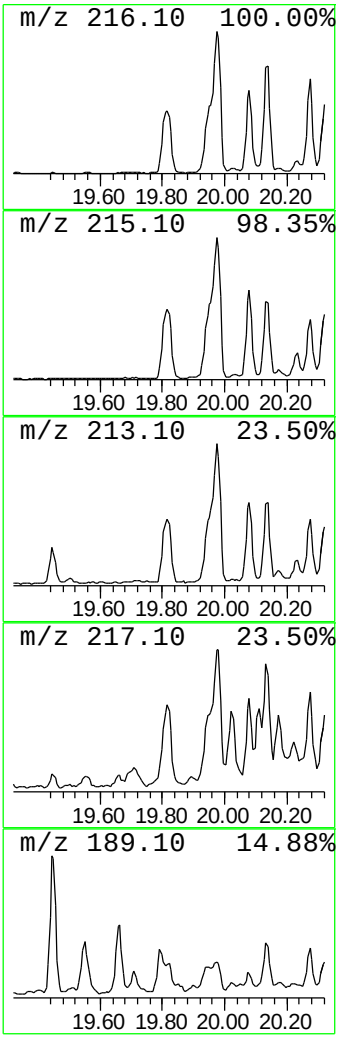
Peak Number 14 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.82	2.11 ng/ul	2157230	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81





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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

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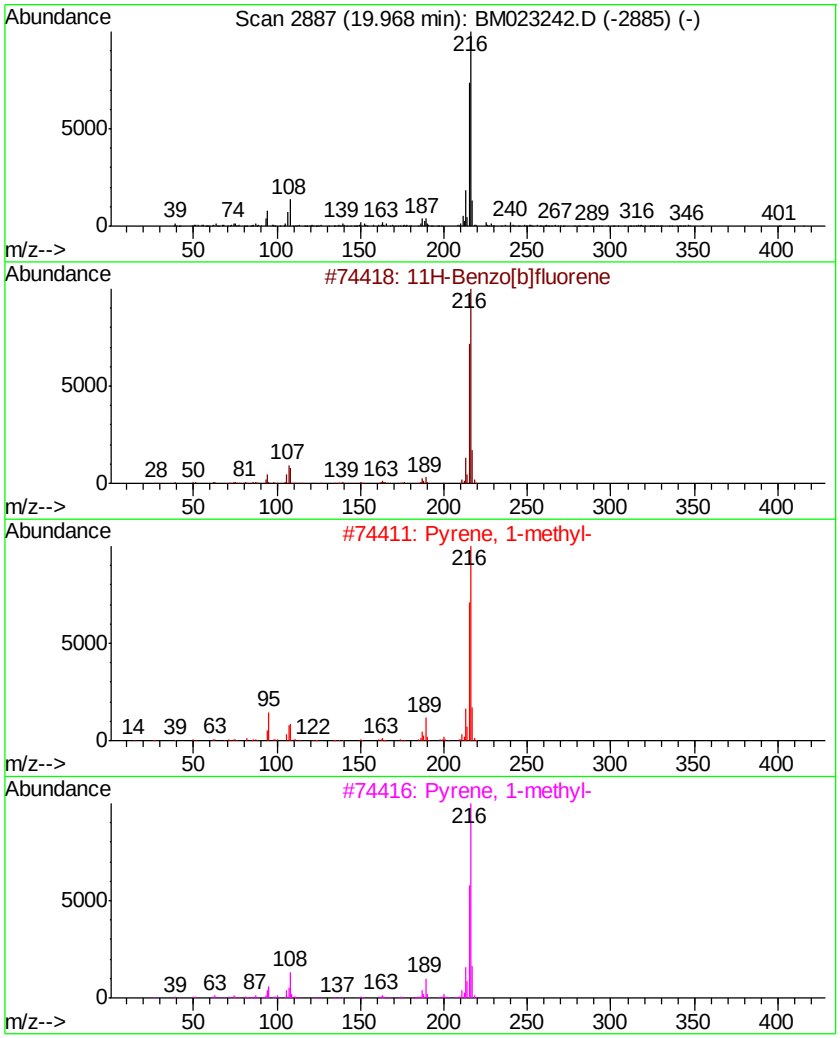
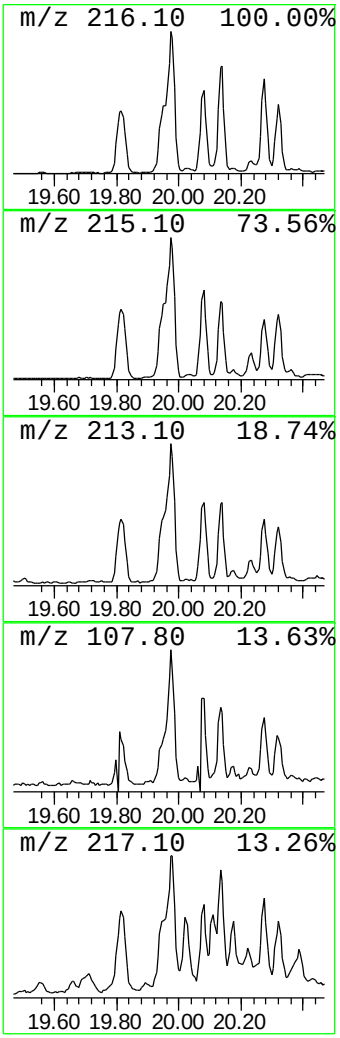
Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.97	2.40 ng/ul	2453140	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83





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Quant Title : SVOA CALIBRATION

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

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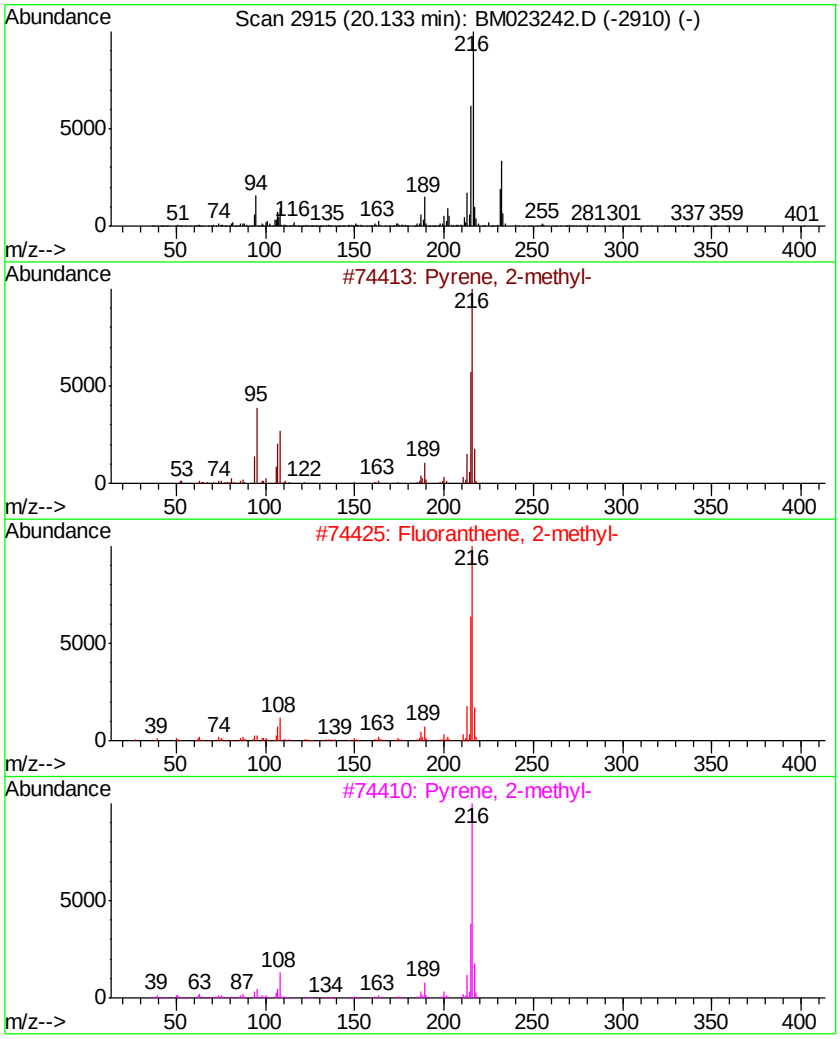
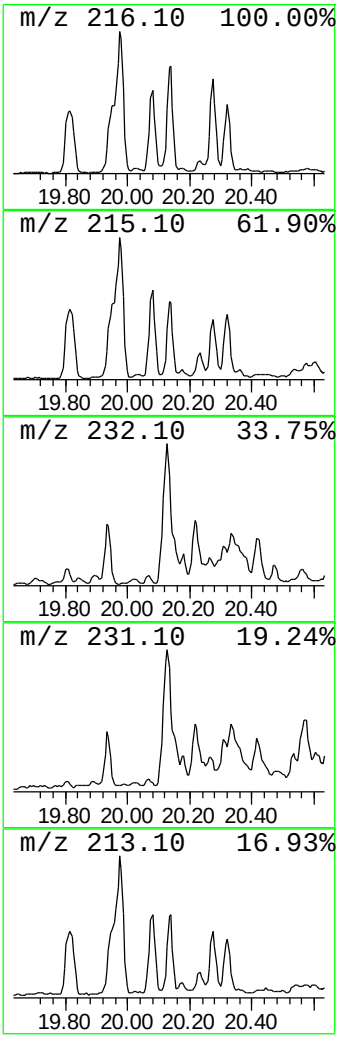
Peak Number 16 Pyrene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.13	2.18 ng/ul	2233670	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	64
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	58





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Quant Title : SVOA CALIBRATION

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

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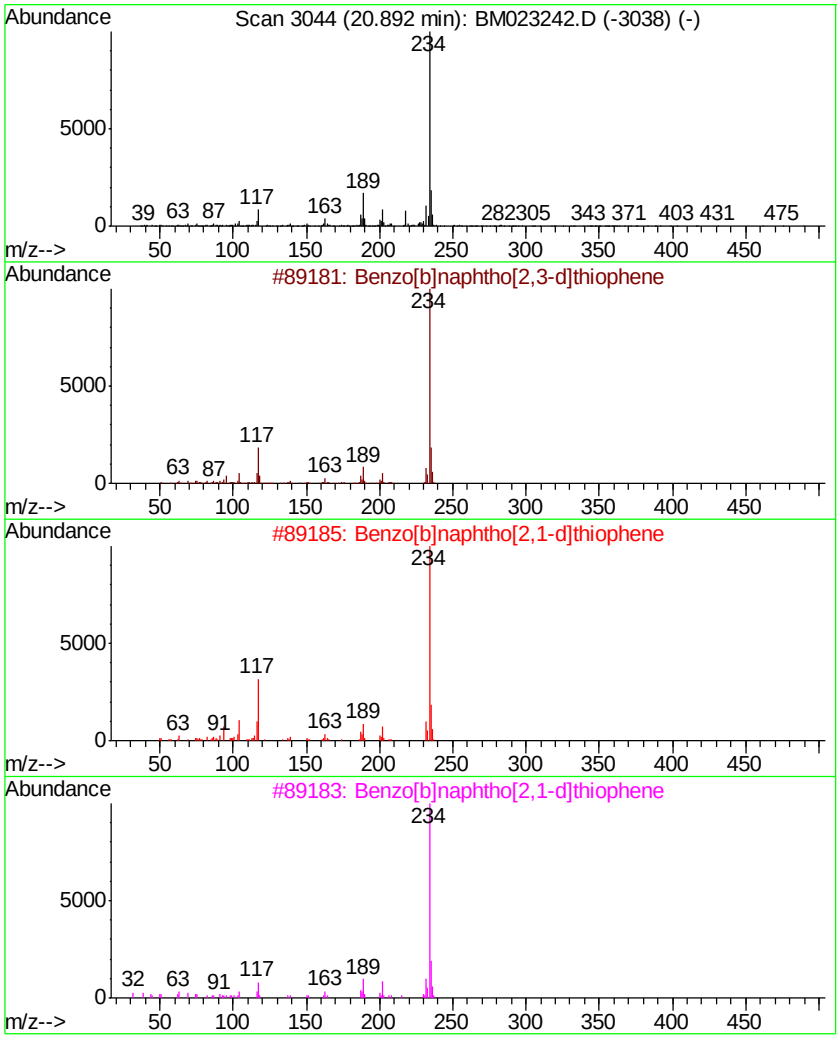
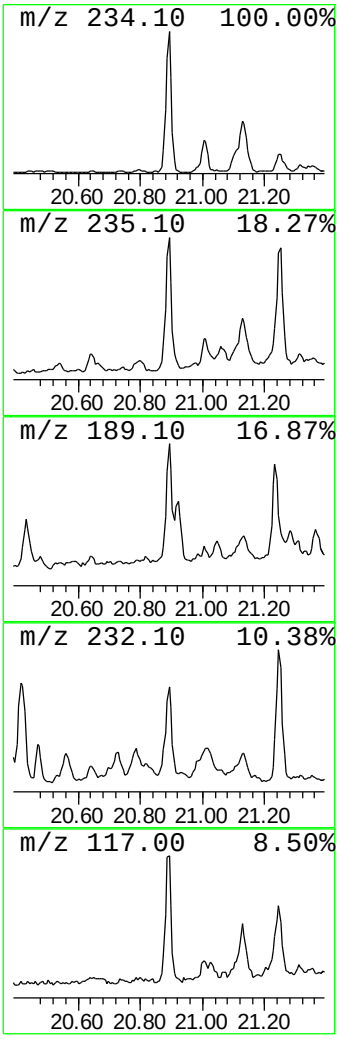
Peak Number 18 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.89	2.66 ng/ul	2721790	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
5	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	91





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Quant Title : SVOA CALIBRATION

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

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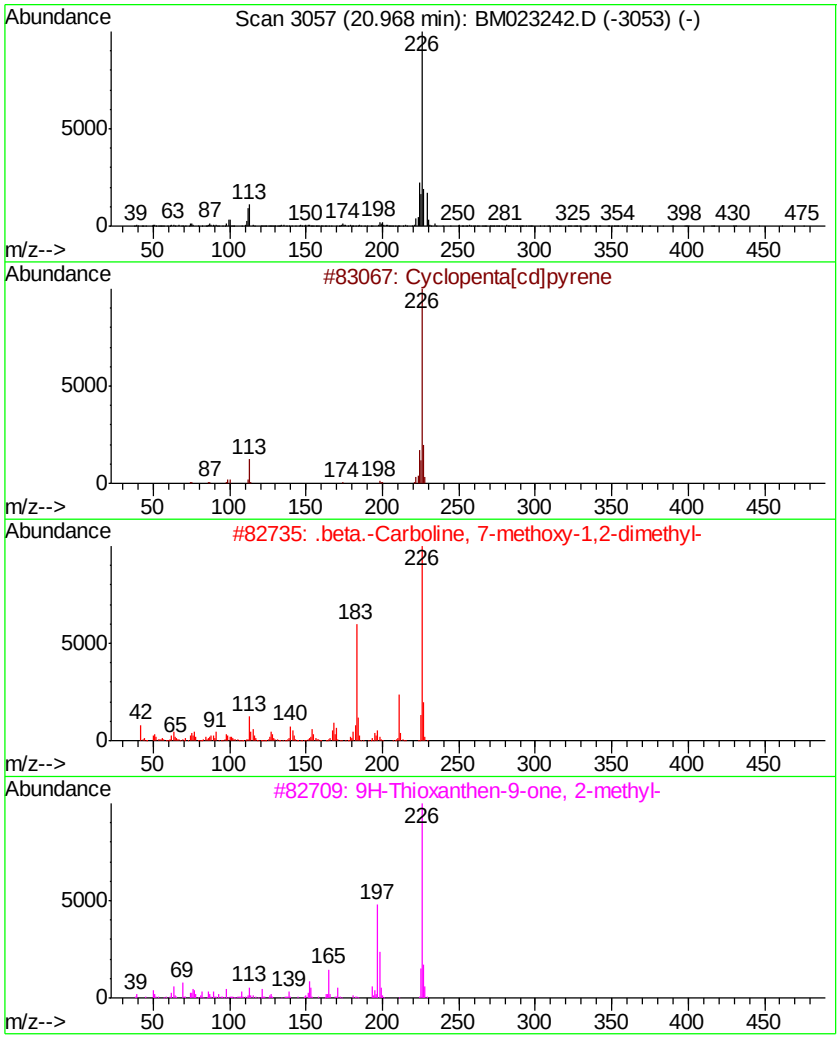
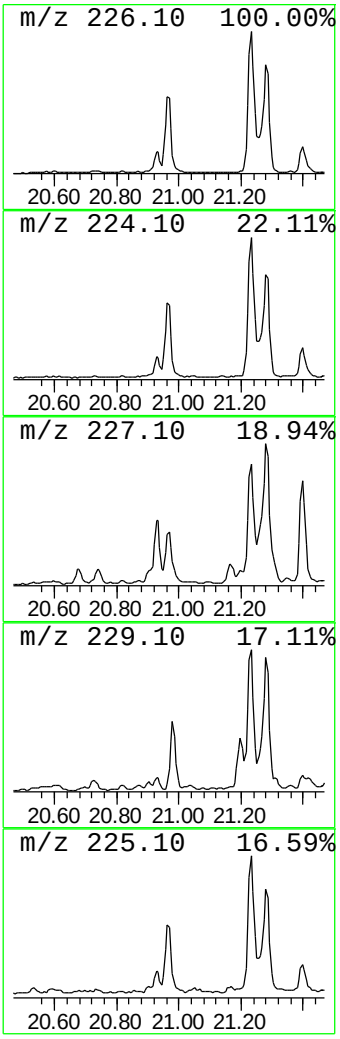
Peak Number 19 Cyclopenta[cd]pyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.97	2.95 ng/ul	3015460	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	76
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	50
4	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	38
5	9H-Xanthen-9-one, 3-methoxy-	226	C14H10O3	003722-52-9	38





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ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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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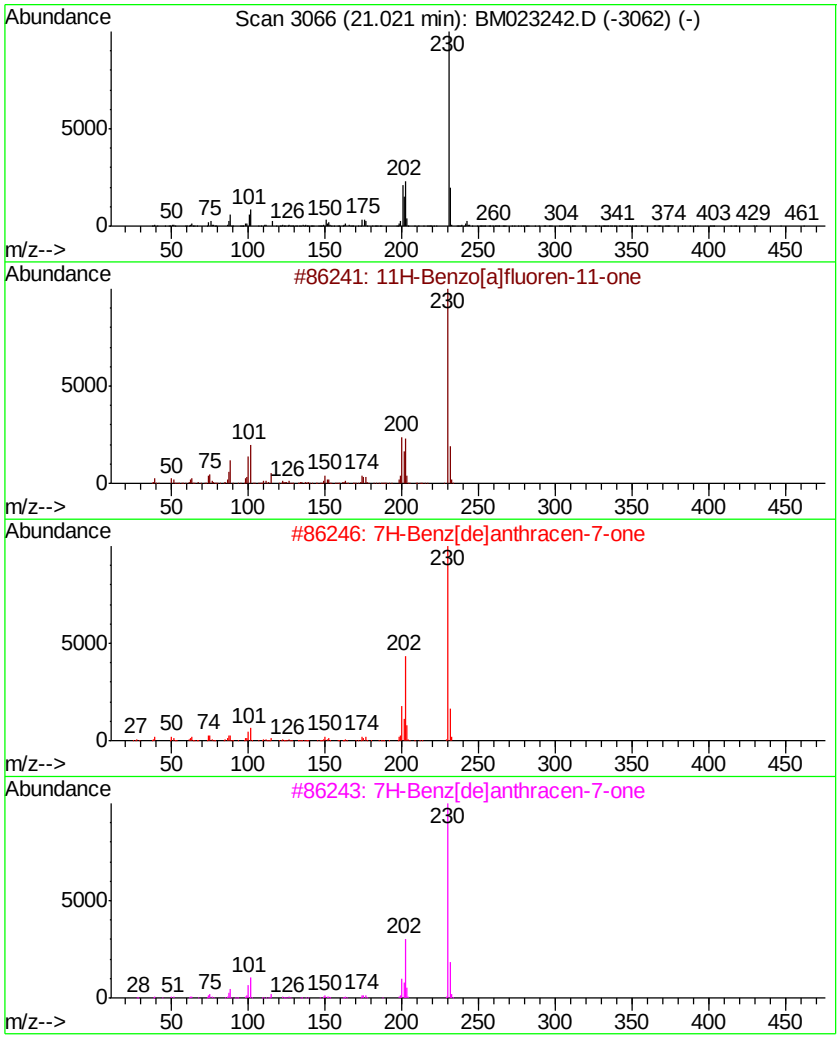
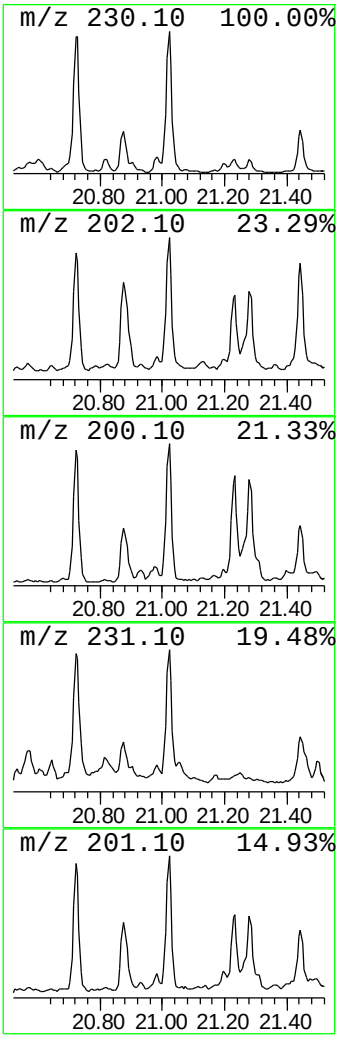
Peak Number 20 11H-Benzo[a]fluoren-11-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.02	3.28 ng/ul	3352290	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	94
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	87
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	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023242.D
Acq On : 18 Oct 2019 05:17
Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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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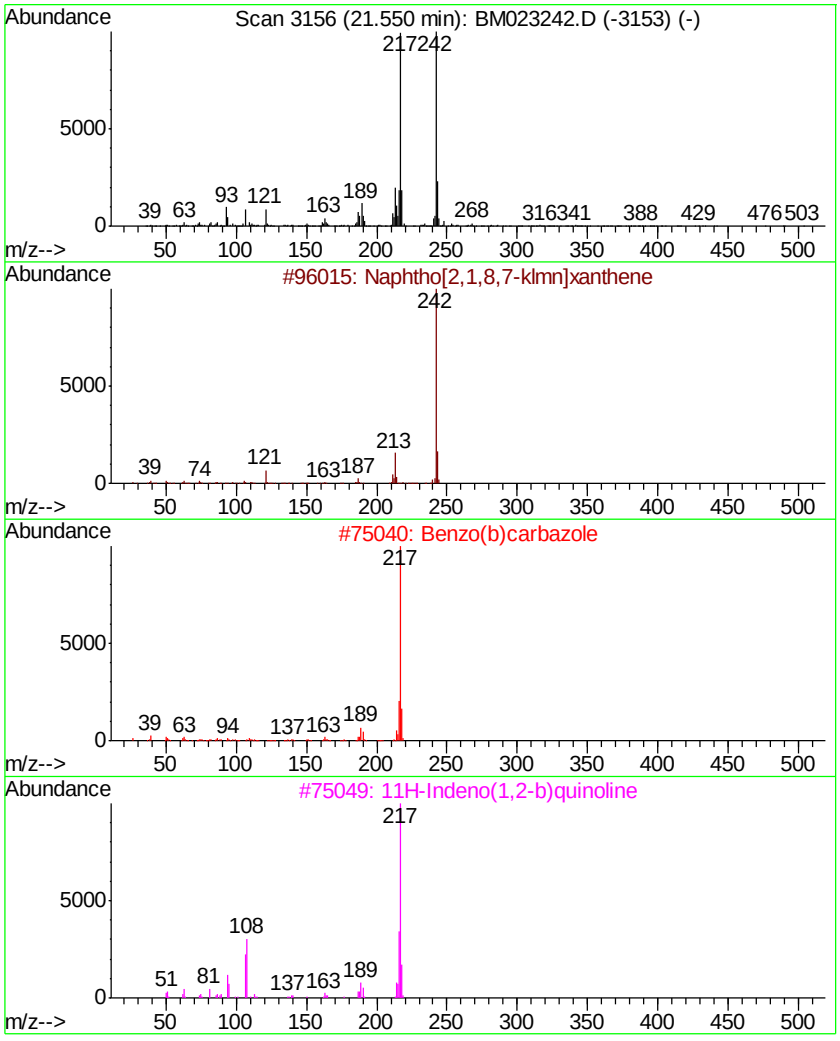
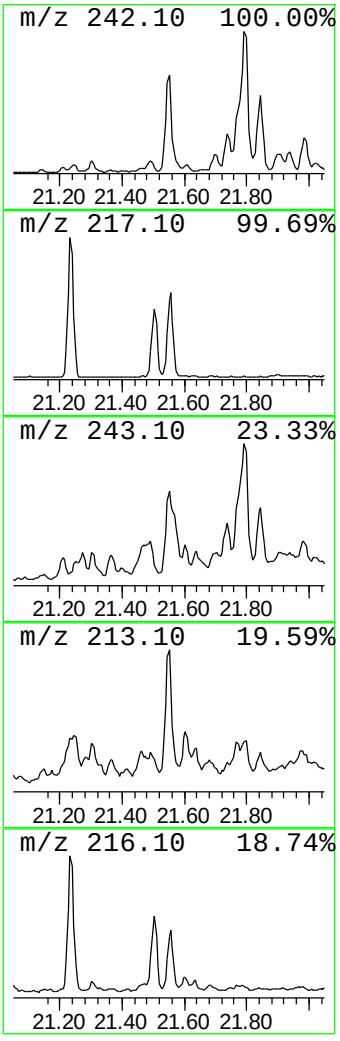
Peak Number 21 Naphtho[2,1,8,7-klmn]xanthene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.55	2.09 ng/ul	2139960	Chrysene-d12	21.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1,8,7-klmn]xanthene	242	C18H10O	000191-37-7	55
2	Benzo(b)carbazole	217	C16H11N	000243-28-7	42
3	11H-Indeno(1,2-b)quinoline	217	C16H11N	000243-51-6	38
4	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	38
5	2-(5-Thiophen-2-yl-1H-pyrazol-3-...	242	C13H10N2OS	1000301-11-6	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023242.D
Acq On : 18 Oct 2019 05:17
Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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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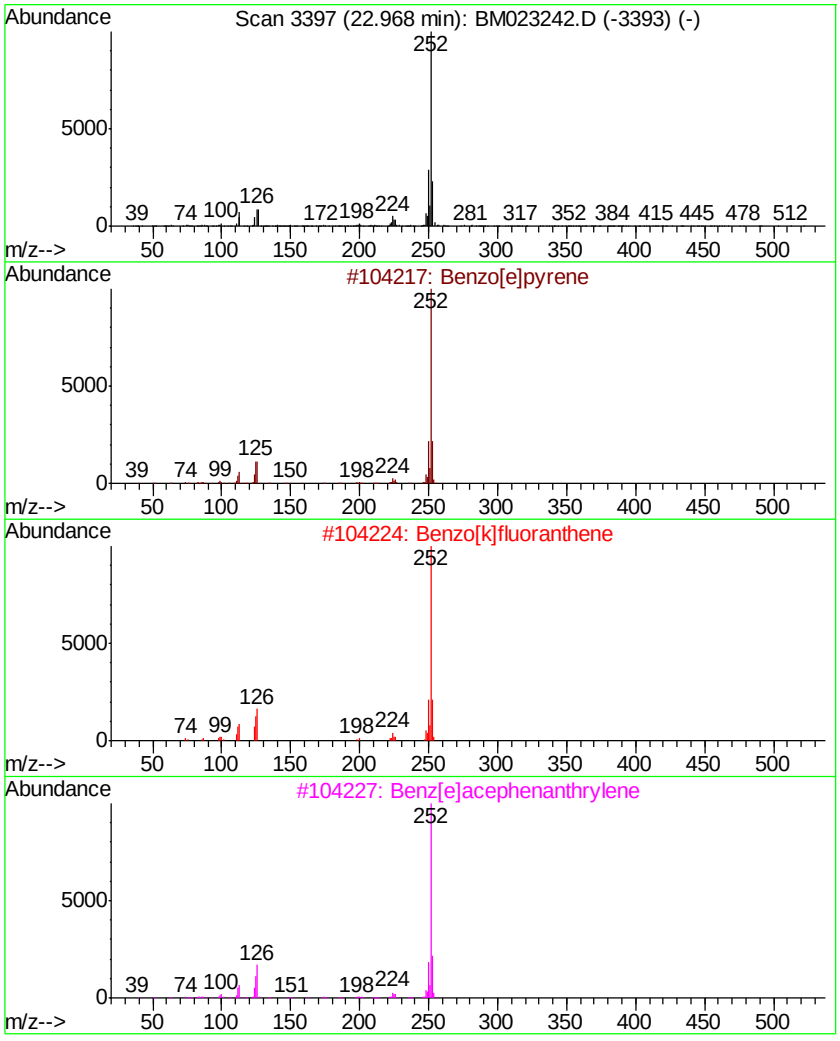
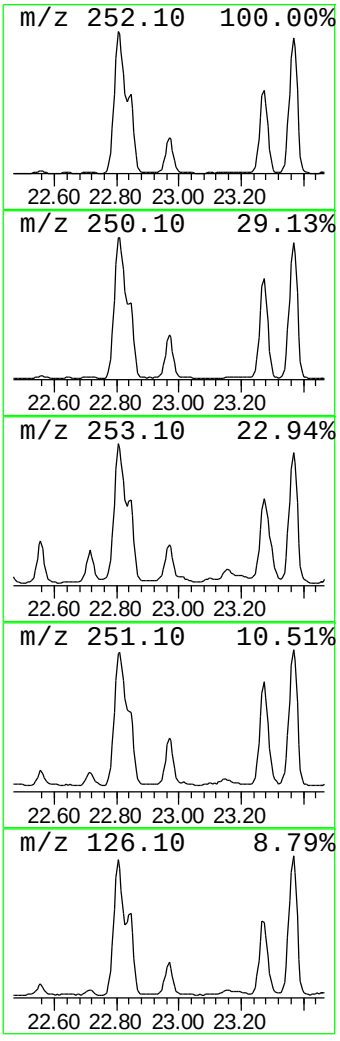
Peak Number 22 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.97	14.75 ng/ul	3260860	Perylene-d12	23.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM101719\
Data File : BM023242.D
Acq On : 18 Oct 2019 05:17
Operator : JU
Sample : K5262-21DL 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BFBB1DL

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
[1,1'-Biphenyl]-4...	15.80	2.0	ng/ul	517830	4	17.05	5137980	20.0
9H-Fluoren-9-one	16.70	3.0	ng/ul	773585	4	17.05	5137980	20.0
Naphtho[2,1-b]thi...	16.87	2.7	ng/ul	690796	4	17.05	5137980	20.0
Acridine	17.24	2.1	ng/ul	533429	4	17.05	5137980	20.0
Phenanthrene, 2-m...	17.93	4.6	ng/ul	1193180	4	17.05	5137980	20.0
4H-Cyclopenta[def...	18.12	11.3	ng/ul	2893370	4	17.05	5137980	20.0
Anthracene, 1-met...	18.16	3.0	ng/ul	767147	4	17.05	5137980	20.0
Naphthalene, 2-ph...	18.43	4.1	ng/ul	1045730	4	17.05	5137980	20.0
9,10-Anthracenedione	18.47	3.9	ng/ul	995904	4	17.05	5137980	20.0
Phenanthrene, 2,5...	18.85	3.8	ng/ul	963787	4	17.05	5137980	20.0
Cyclopenta(def)ph...	18.99	6.4	ng/ul	1637400	4	17.05	5137980	20.0
Pyrene, 1-methyl-	19.82	2.1	ng/ul	2157230	5	21.24	20447300	20.0
11H-Benzo[b]fluorene	19.97	2.4	ng/ul	2453140	5	21.24	20447300	20.0
Pyrene, 2-methyl-	20.13	2.2	ng/ul	2233670	5	21.24	20447300	20.0
Benzo[b]naphtho[2...	20.89	2.7	ng/ul	2721790	5	21.24	20447300	20.0
Cyclopenta[cd]pyrene	20.97	3.0	ng/ul	3015460	5	21.24	20447300	20.0
11H-Benzo[a]fluor...	21.02	3.3	ng/ul	3352290	5	21.24	20447300	20.0
Naphtho[2,1,8,7-k...	21.55	2.1	ng/ul	2139960	5	21.24	20447300	20.0
Benzo[e]pyrene	22.97	14.8	ng/ul	3260860	6	23.46	4421000	20.0