LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_M\DATA\BM022618\
Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.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	4.681	284	288	291	rBV	92266	144342	1.65%	0.140%
2	6.728	630	636	650	rVB	631006	1124683	12.83%	1.091%
3	6.881	656	662	672	rBV	540514	851498	9.71%	0.826%
4	7.069	687	694	702	rBV	765177	1248610	14.24%	1.211%
5	7.528	762	772	783	rBV	751295	1212607	13.83%	1.176%
6	8.252	886	895	905	rBV2	765997	1347428	15.37%	1.307%
7	8.687	962	969	980	rBV	775227	1326304	15.13%	1.286%
8	9.399	1084	1090	1106	rBV	647104	1161844	13.25%	1.127%
9	9.940	1175	1182	1195	rBV	887731	1619983	18.48%	1.571%
10	10.299	1232	1243	1248	rBV	1020258	1766132	20.15%	1.713%
11	10.346	1248	1251	1257	rVB2	116090	179701	2.05%	0.174%
12	10.457	1262	1270	1285	rBV	599279	1219505	13.91%	1.183%
13	11.975	1521	1528	1534	rBV	77994	126110	1.44%	0.122%
14	12.198	1557	1566	1572	rBV	73214	131821	1.50%	0.128%
15	13.004	1697	1703	1711	rBV6	49518	94109	1.07%	0.091%
16	13.498	1781	1787	1793	rBV3	89639	178616	2.04%	0.173%
17	13.604	1800	1805	1810	rVV	1648062	2351741	26.83%	2.281%
18	13.651	1810	1813	1820	rVB	391920	551004	6.29%	0.534%
19	13.875	1844	1851	1865	rBV	1956529	3082174	35.16%	2.990%
20	14.087	1881	1887	1891	rBV	99475	130194	1.49%	0.126%
21	14.187	1894	1904	1910	rVV2	1349419	2172119	24.78%	2.107%
22	14.251	1910	1915	1924	rVB	351180	560664	6.40%	0.544%
23	14.463	1947	1951	1955	rBV4	141373	306980	3.50%	0.298%
24	14.586	1967	1972	1977	rBV	262608	377833	4.31%	0.366%
25	14.816	2004	2011	2016	rBV5	70983	124958	1.43%	0.121%
26	14.986	2031	2040	2043	rBV6	55794	131112	1.50%	0.127%
27	15.045	2046	2050	2056	rVB3	114087	157860	1.80%	0.153%
28	15.186	2068	2074	2079	rBV	2189999	3036287	34.64%	2.945%
29	15.245	2079	2084	2088	rVB	444513	657384	7.50%	0.638%
30	15.363	2096	2104	2108	rBV4	118512	274134	3.13%	0.266%
31	15.539	2129	2134	2142	rVB	149442	239333	2.73%	0.232%
32	15.686	2151	2159	2167	rBV2	152078	325945	3.72%	0.316%
33	15.916	2193	2198	2205	rBV6	137017	274812	3.14%	0.267%
34	16.251	2248	2255	2259	rBV5	124947	247585	2.82%	0.240%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_M\DATA\BM022618\
Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

35	16.298	2259	2263	2268	rVB2	70398	117259	1.34%	0.114%
36	16.480	2290	2294	2298	rVV3	76540	120228	1.37%	0.117%
37	16.522	2298	2301	2304	rVB3	93380	106706	1.22%	0.104%
38	16.610	2311	2316	2322	rVB	241623	356849	4.07%	0.346%
39	16.698	2324	2331	2336	rVV5	157675	395278	4.51%	0.383%
40	16.763	2338	2342	2350	rVB	301112	473626	5.40%	0.459%
41	16.945	2367	2373	2376	rBV	1464838	2094718	23.90%	2.032%
42	16.992	2376	2381	2385	rVV	5688883	7778278	88.73%	7.545%
43	17.045	2385	2390	2393	rVV2	2162109	3094385	35.30%	3.001%
44	17.080	2393	2396	2401	rVV	1066368	1368975	15.62%	1.328%
45	17.145	2401	2407	2412	rVV2	134625	243338	2.78%	0.236%
46	17.363	2435	2444	2455	rBV2	475600	954165	10.89%	0.926%
47	17.463	2459	2461	2468	rVV4	109267	177518	2.03%	0.172%
48	17.533	2468	2473	2480	rVB5	104554	237675	2.71%	0.231%
49	17.663	2492	2495	2502	rVB2	58715	90524	1.03%	0.088%
50	17.822	2516	2522	2525	rBV	653874	960121	10.95%	0.931%
51	17.869	2525	2530	2535	rVV	977897	1706492	19.47%	1.655%
52	17.922	2535	2539	2542	rVV	364900	501763	5.72%	0.487%
53	17.951	2542	2544	2549	rVV2	298278	347645	3.97%	0.337%
54	18.016	2549	2555	2559	rVV2	850533	1558856	17.78%	1.512%
55	18.051	2559	2561	2570	rVB2	441555	568265	6.48%	0.551%
56	18.133	2571	2575	2579	rBV5	120690	179271	2.05%	0.174%
57	18.180	2580	2583	2587	rVV4	68453	96831	1.10%	0.094%
58	18.222	2587	2590	2595	rVB6	66265	91352	1.04%	0.089%
59	18.327	2603	2608	2612	rBV	423608	562413	6.42%	0.546%
60	18.380	2613	2617	2626	rVV	431972	614690	7.01%	0.596%
61	18.574	2647	2650	2655	rVB	134573	170658	1.95%	0.166%
62	18.627	2655	2659	2662	rVV	151228	175862	2.01%	0.171%
63	18.669	2662	2666	2670	rVB2	121324	154855	1.77%	0.150%
64	18.751	2675	2680	2684	rBV	319589	517282	5.90%	0.502%
65	18.816	2684	2691	2694	rVV6	168839	419757	4.79%	0.407%
66	18.845	2694	2696	2699	rVB	117688	108039	1.23%	0.105%
67	18.898	2700	2705	2712	rBV4	257972	493047	5.62%	0.478%
68	19.022	2719	2726	2733	rBV	6740403	8765755	100.00%	8.502%
69	19.122	2739	2743	2745	rBV2	131618	166408	1.90%	0.161%
70	19.257	2764	2766	2770	rVB	189291	196309	2.24%	0.190%
71	19.357	2777	2783	2785	rBV3	2680005	4143601	47.27%	4.019%

LSC Area Percent Report

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Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

72	19.386	2785	2788	2796	rVV	5183259	6396476	72.97%	6.204%
73	19.457	2796	2800	2806	rVB2	278430	473258	5.40%	0.459%
74	19.569	2815	2819	2823	rVB	282250	371914	4.24%	0.361%
75	19.633	2825	2830	2834	rVB	234317	360548	4.11%	0.350%
76	19.716	2838	2844	2849	rBV3	318889	794284	9.06%	0.770%
77	19.774	2851	2854	2856	rBV	86174	101776	1.16%	0.099%
78	19.845	2862	2866	2868	rBV3	273623	413127	4.71%	0.401%
79	19.880	2869	2872	2879	rVB	640495	934276	10.66%	0.906%
80	19.986	2886	2890	2893	rBV	416792	516109	5.89%	0.501%
81	20.039	2894	2899	2903	rVB3	389679	648457	7.40%	0.629%
82	20.180	2920	2923	2927	rBV	200352	257901	2.94%	0.250%
83	20.233	2928	2932	2935	rVB	212247	321970	3.67%	0.312%
84	20.510	2976	2979	2984	rVB4	149966	186465	2.13%	0.181%
85	20.639	2998	3001	3006	rVB	449201	569157	6.49%	0.552%
86	20.798	3025	3028	3031	rBV2	437871	501795	5.72%	0.487%
87	20.839	3032	3035	3038	rVV	348555	430828	4.91%	0.418%
88	20.874	3038	3041	3047	rVV3	546795	915754	10.45%	0.888%
89	20.939	3049	3052	3057	rVB	491190	597686	6.82%	0.580%
90	21.145	3082	3087	3092	rBV2	2756042	5093257	58.10%	4.940%
91	21.192	3092	3095	3104	rVB	2342758	2923379	33.35%	2.836%
92	21.310	3112	3115	3119	rBV	290110	308211	3.52%	0.299%
93	21.698	3178	3181	3184	rVB	429986	471003	5.37%	0.457%
94	22.692	3344	3350	3355	rBV	1596737	3625687	41.36%	3.517%
95	23.151	3423	3428	3431	rBV	862725	1483154	16.92%	1.439%
96	23.198	3432	3436	3439	rVV	1098826	1807176	20.62%	1.753%
97	23.239	3439	3443	3451	rVB	1483543	2570626	29.33%	2.493%
98	23.333	3454	3459	3463	rBV	664833	1178397	13.44%	1.143%

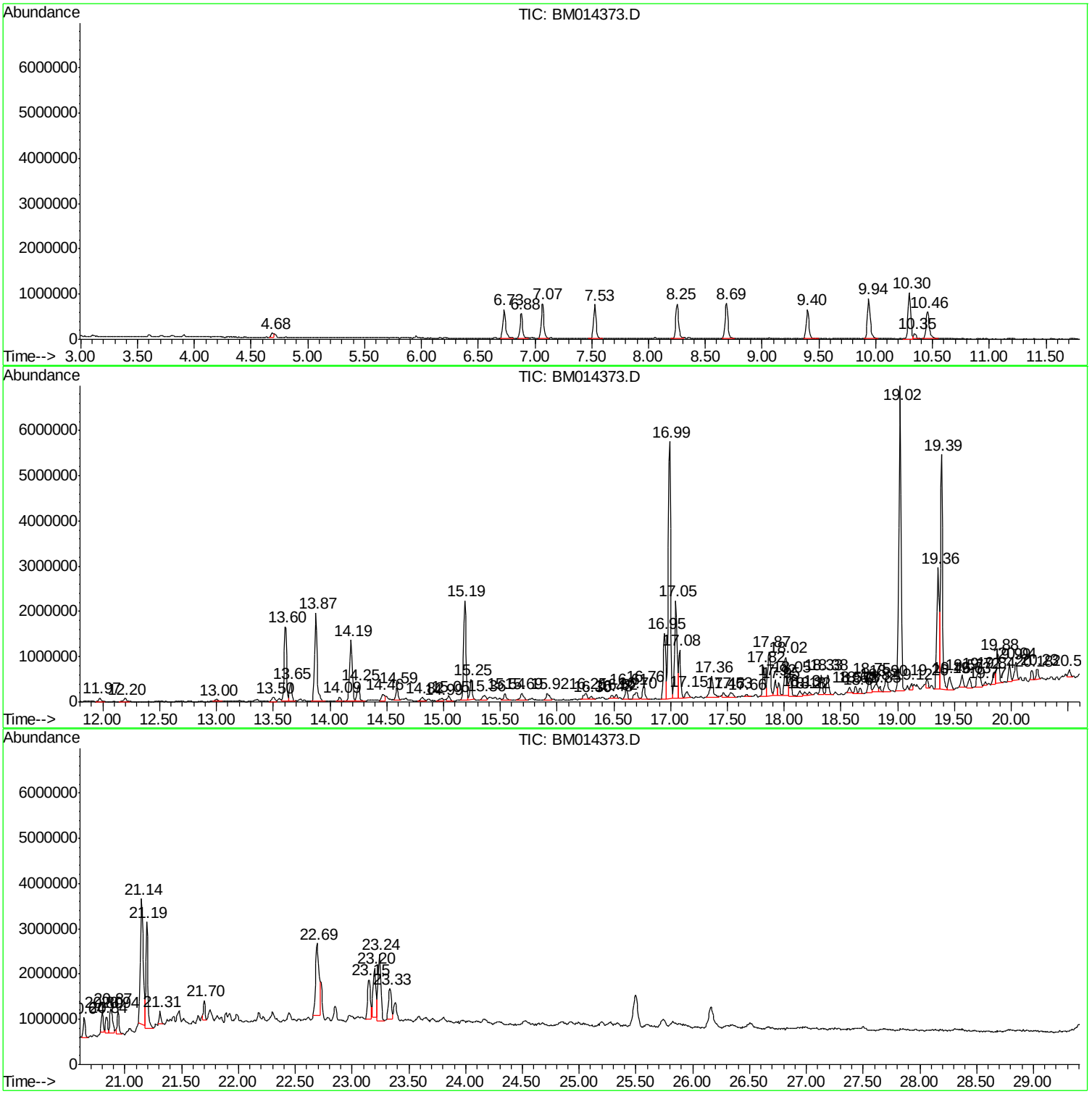
Sum of corrected areas: 103096877

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_M\DATA\BM022618\
Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_M\DATA\BM022618\
Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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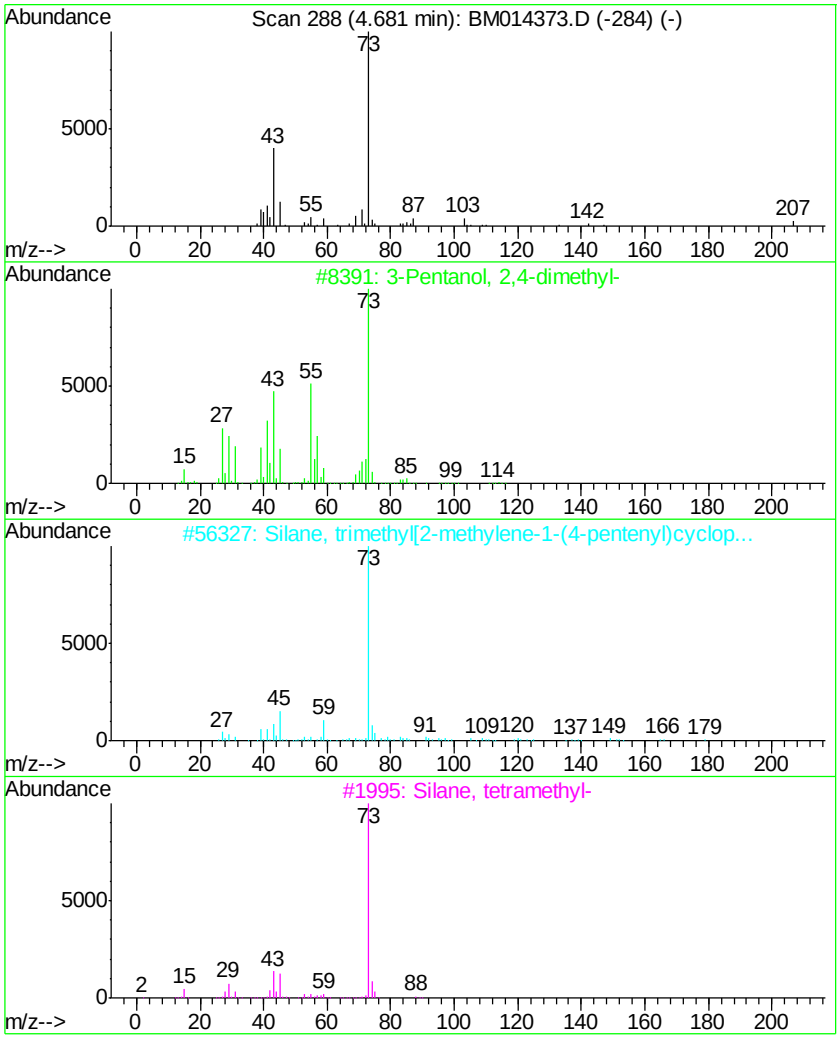
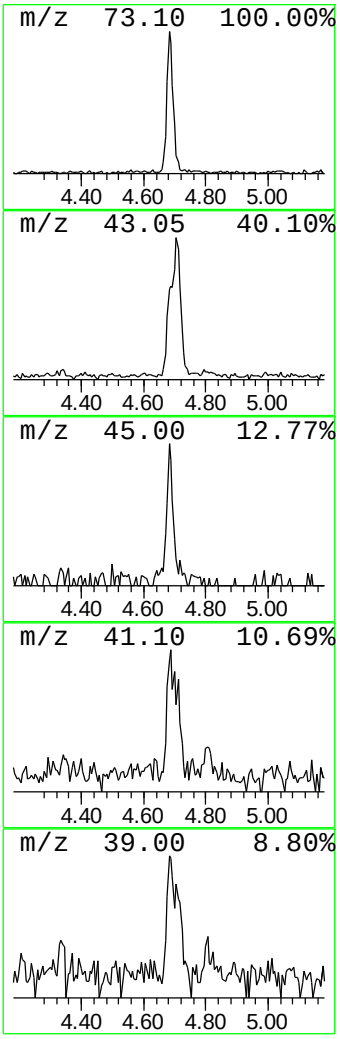
Peak Number 1 unknown-01 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.68	2.38 ng/ul	144342	1,4-Dichlorobenzene-d4	7.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	28
2	Silane, trimethyl[2-methylene-1-...	194	C12H22Si	097778-15-9	28
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	28
4	Acetic acid, 3-[1,3]dioxolan-2-y...	174	C8H14O4	1000186-02-3	17
5	o-2-Pentylhydroxylamine	103	C5H13NO	1000322-43-4	9





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_M\DATA\BM022618\
Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

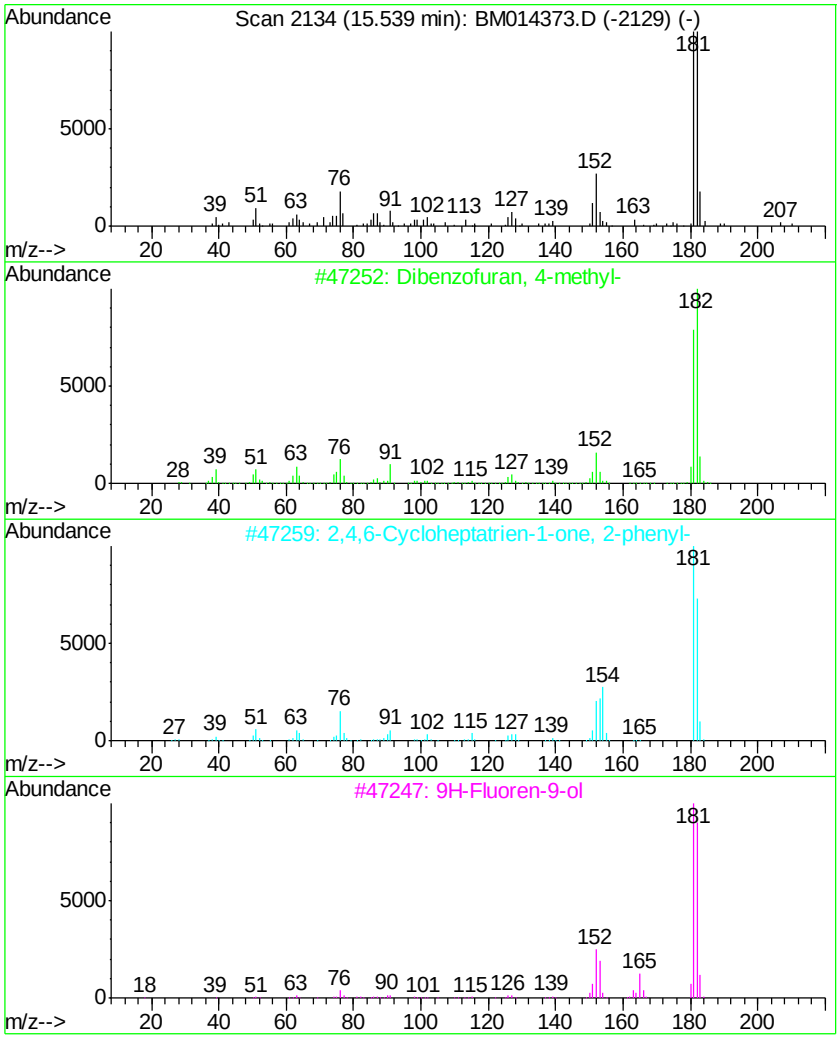
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

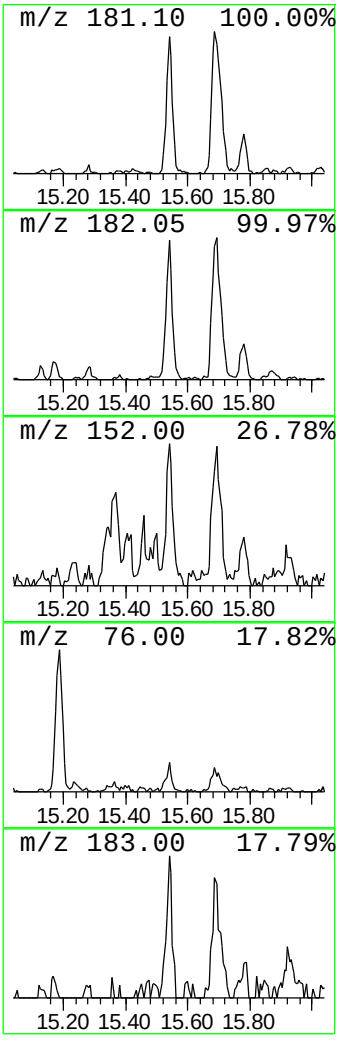
****

Peak Number 2 Dibenzofuran, 4-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.54	2.20 ng/ul	239333	Acenaphthene-d10	14.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	93
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	91
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	72
5	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_M\DATA\BM022618\
Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

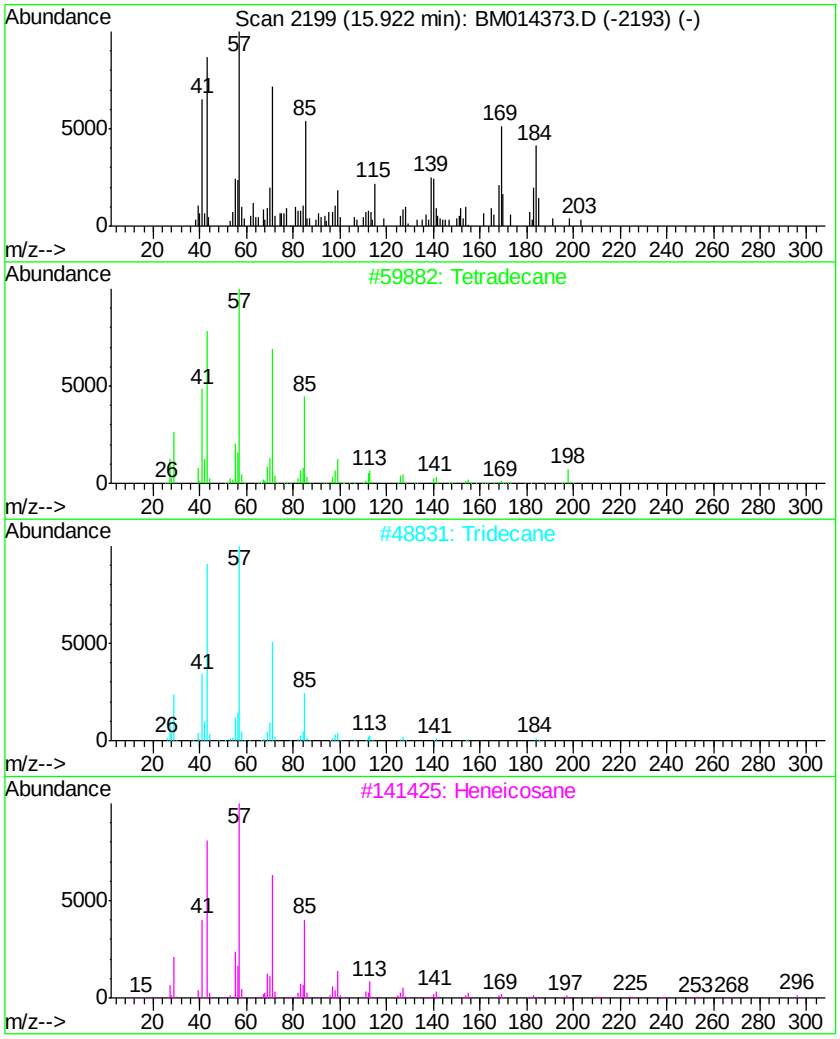
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

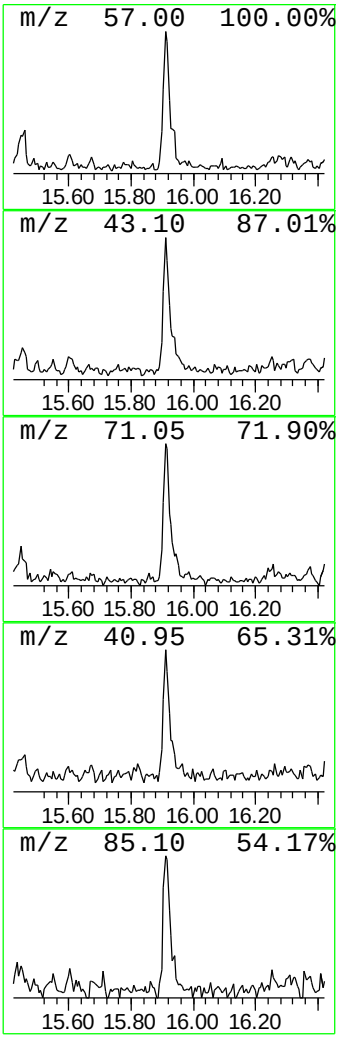
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.92	2.62 ng/ul	274812	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	89
2	Tridecane	184	C13H28	000629-50-5	74
3	Heneicosane	296	C21H44	000629-94-7	68
4	Tetracosane	338	C24H50	000646-31-1	68
5	Pentadecane	212	C15H32	000629-62-9	64





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Data File : BM014373.D
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Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

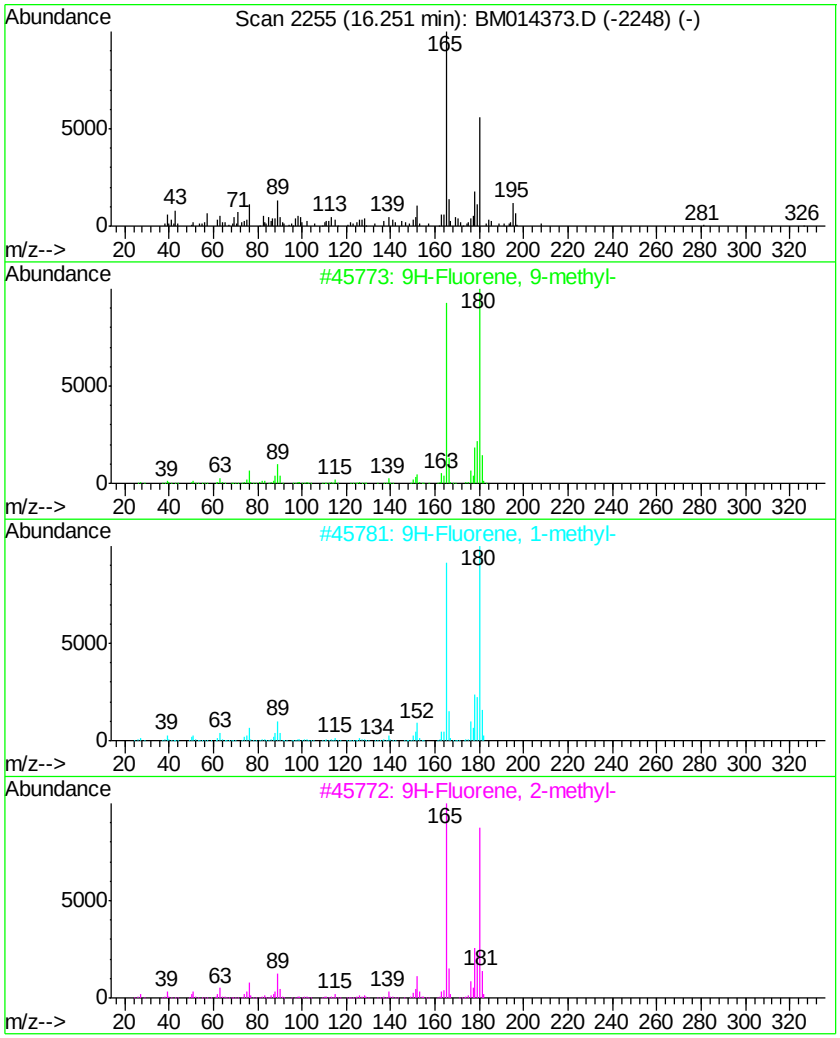
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

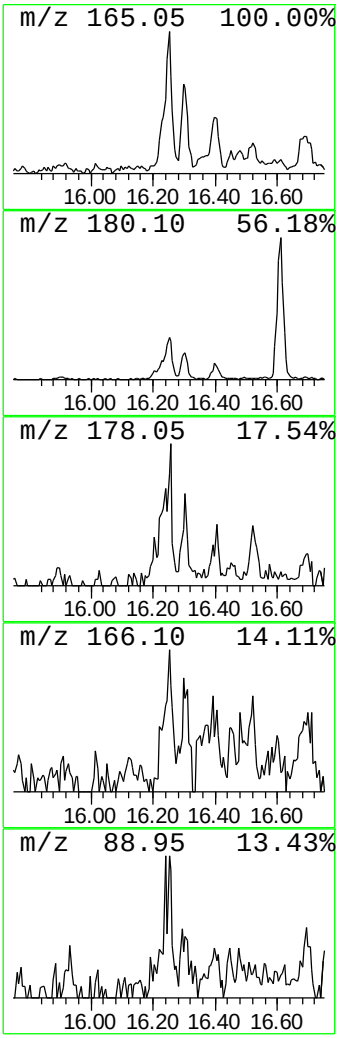
****

Peak Number 5 9H-Fluorene, 9-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.25	2.36 ng/ul	247585	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	95
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	94
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	91
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	87





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_M\DATA\BM022618\
Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

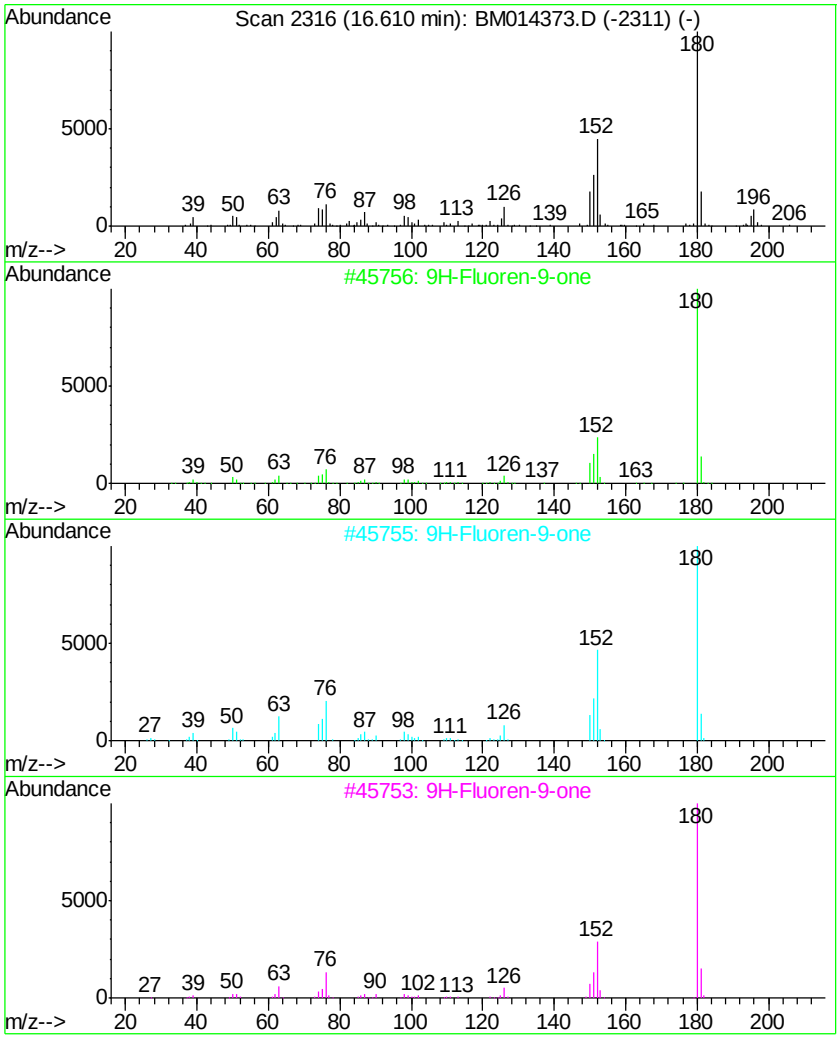
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

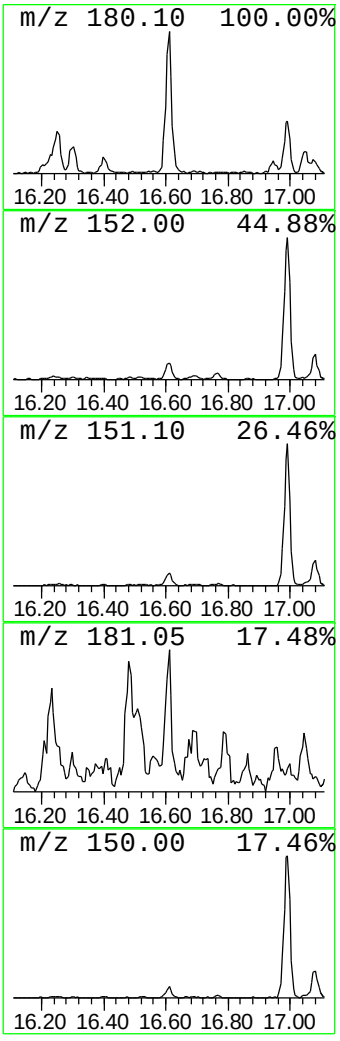
****

Peak Number 6 9H-Fluoren-9-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.61	3.41 ng/ul	356849	Phenanthrene-d10	16.95

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	91
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	49





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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

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Quant Title : SVOA CALIBRATION

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

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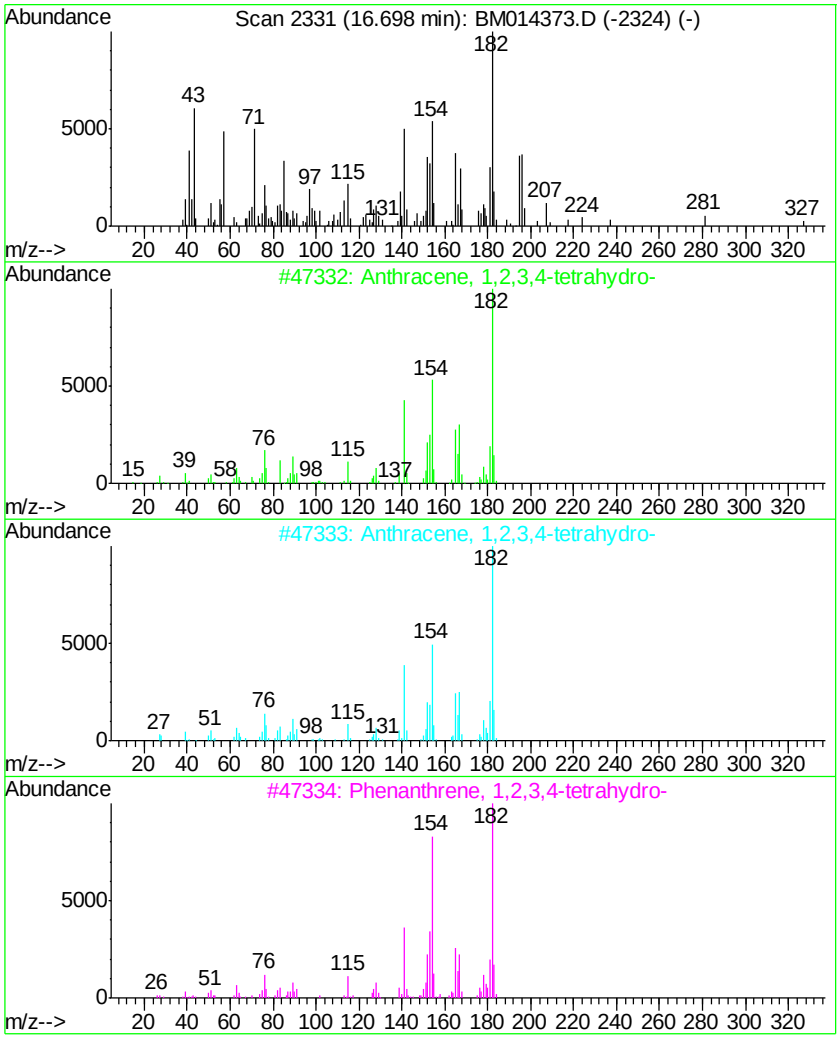
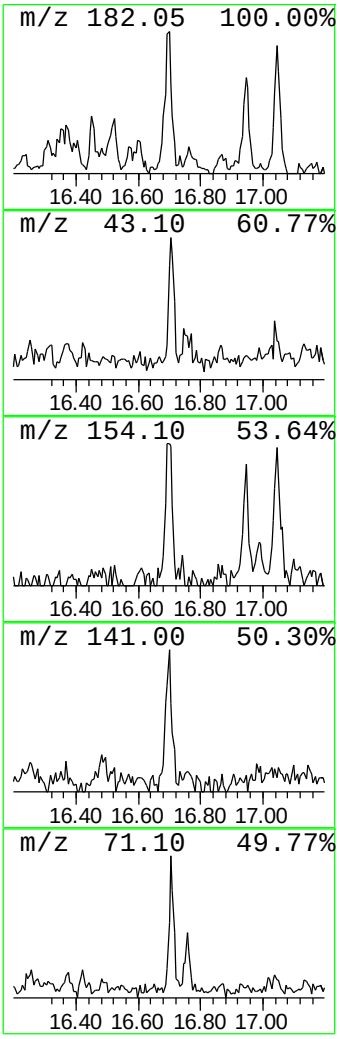
Peak Number 7 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	3.77 ng/ul	395278	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	90
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	74
3	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	64
4	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	53
5	7-Phenylbicyclo[3.2.1]octa-2,6-d...	182	C14H14	1000201-01-7	53





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Quant Title : SVOA CALIBRATION

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

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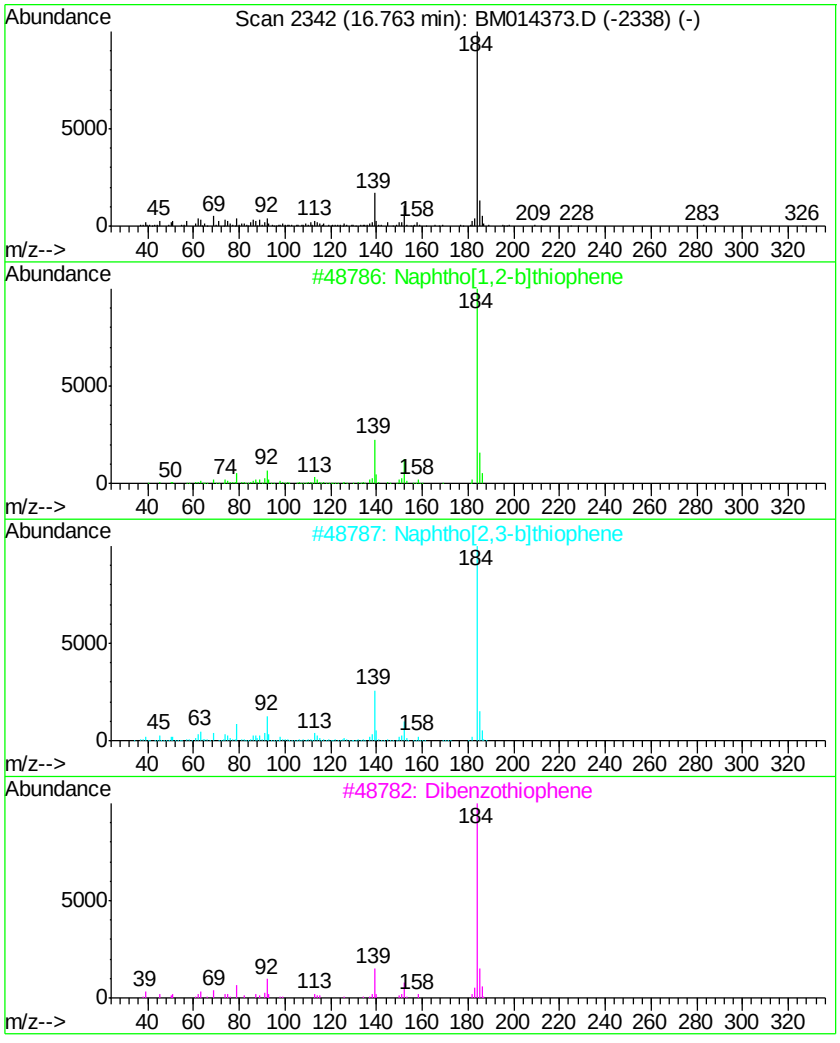
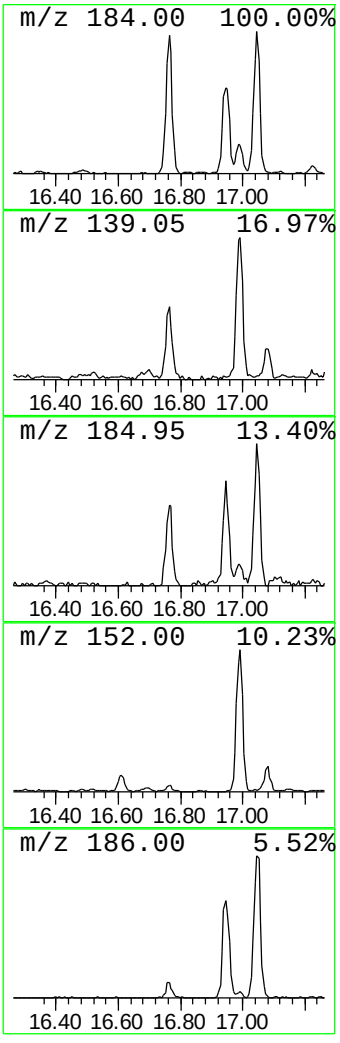
Peak Number 8 Naphtho[1,2-b]thiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.76	4.52 ng/ul	473626	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
3	Dibenzothiophene	184	C12H8S	000132-65-0	91
4	Dibenzothiophene	184	C12H8S	000132-65-0	91
5	Dibenzothiophene	184	C12H8S	000132-65-0	90





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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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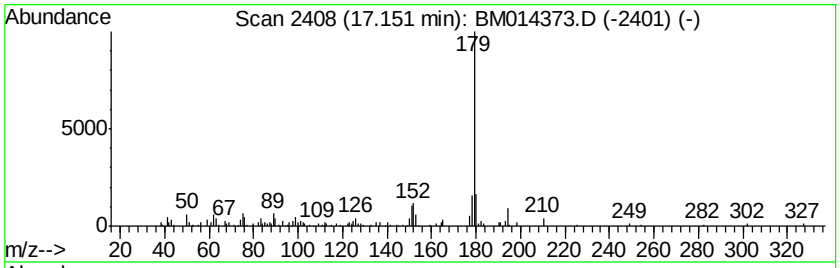
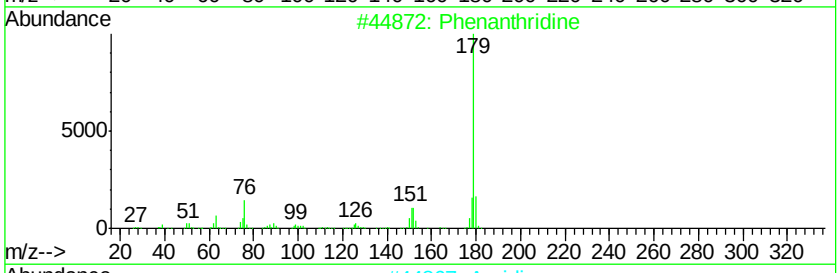
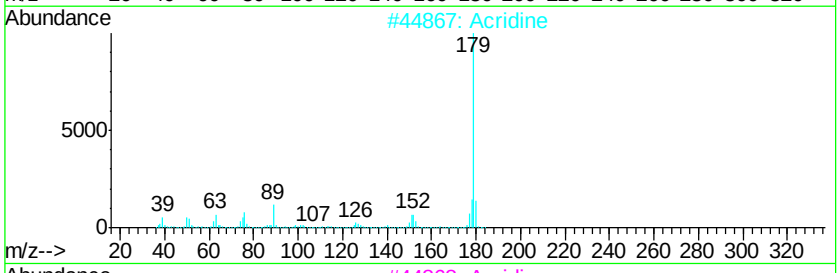
Peak Number 9 Phenanthridine Concentration Rank 22

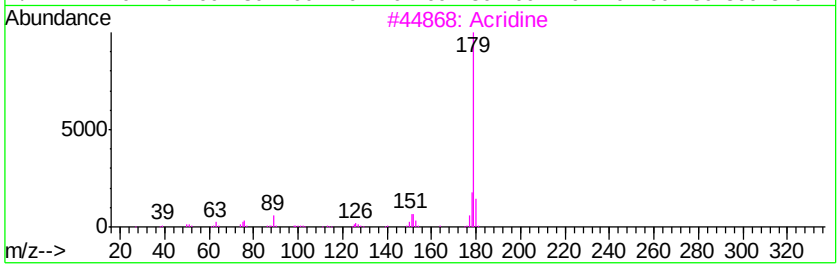
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.15	2.32 ng/ul	243338	Phenanthrene-d10	16.95

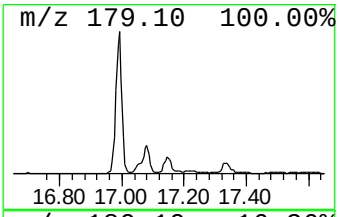
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthridine	179	C13H9N	000229-87-8	89
2	Acridine	179	C13H9N	000260-94-6	87
3	Acridine	179	C13H9N	000260-94-6	83
4	Acridine	179	C13H9N	000260-94-6	81
5	Phenanthridine	179	C13H9N	000229-87-8	74

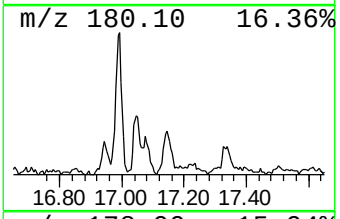


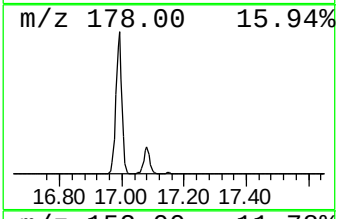


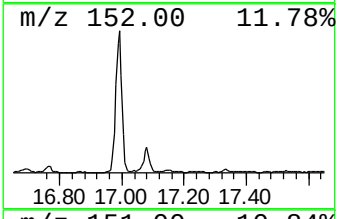


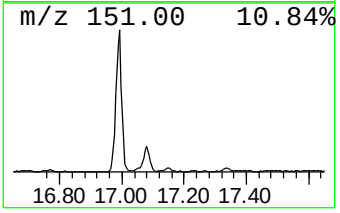












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Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

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Quant Title : SVOA CALIBRATION

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

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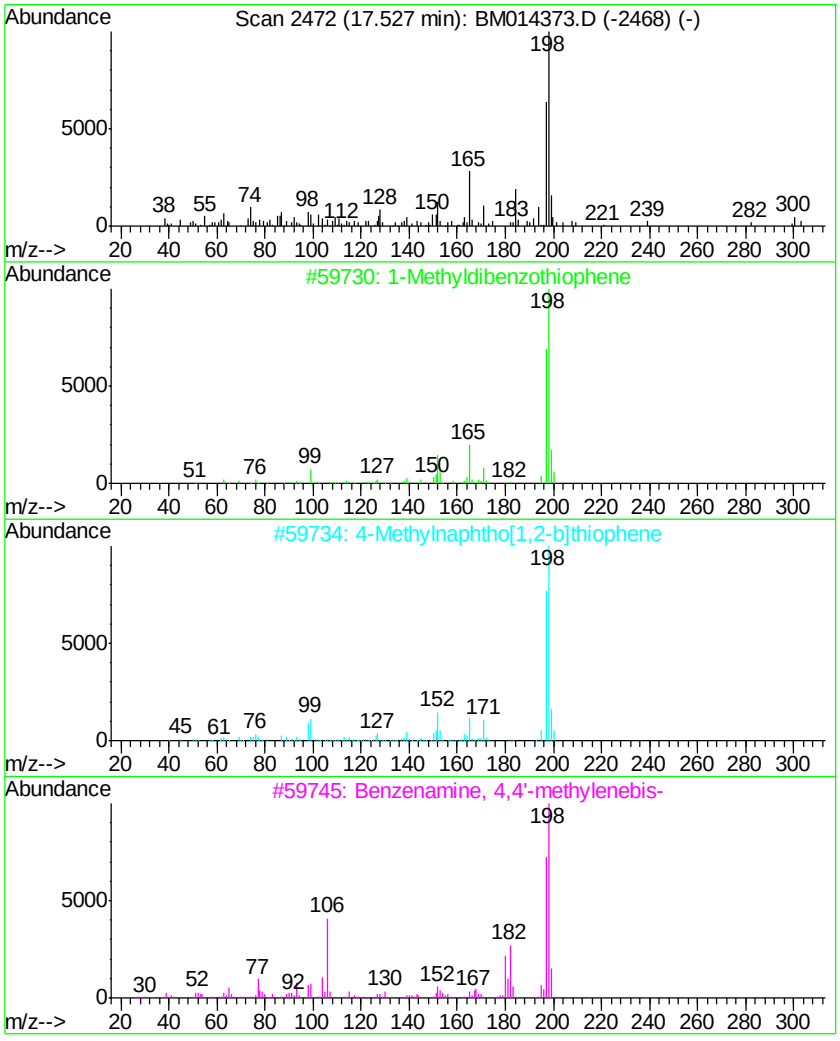
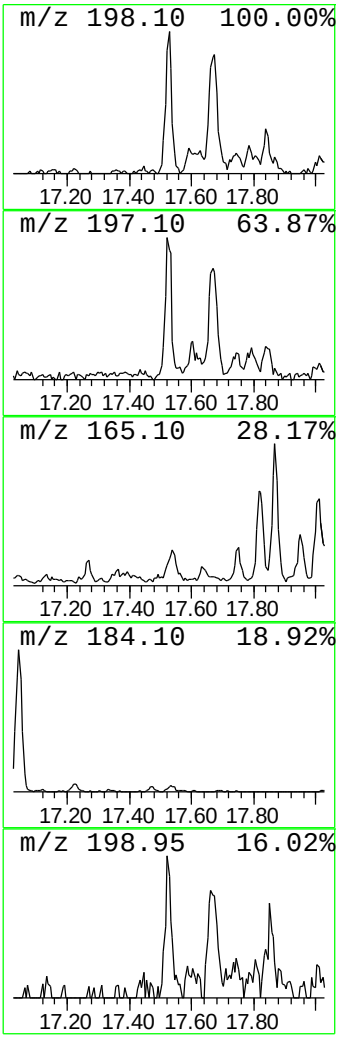
Peak Number 10 1-Methyldibenzothiophene Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.53	2.27 ng/ul	237675	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	64
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	50
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	49
4	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	47
5	2-p-Tolylamino-cyclopent-1-eneca...	198	C13H14N2	1000300-56-0	47





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Sample : J1646-22
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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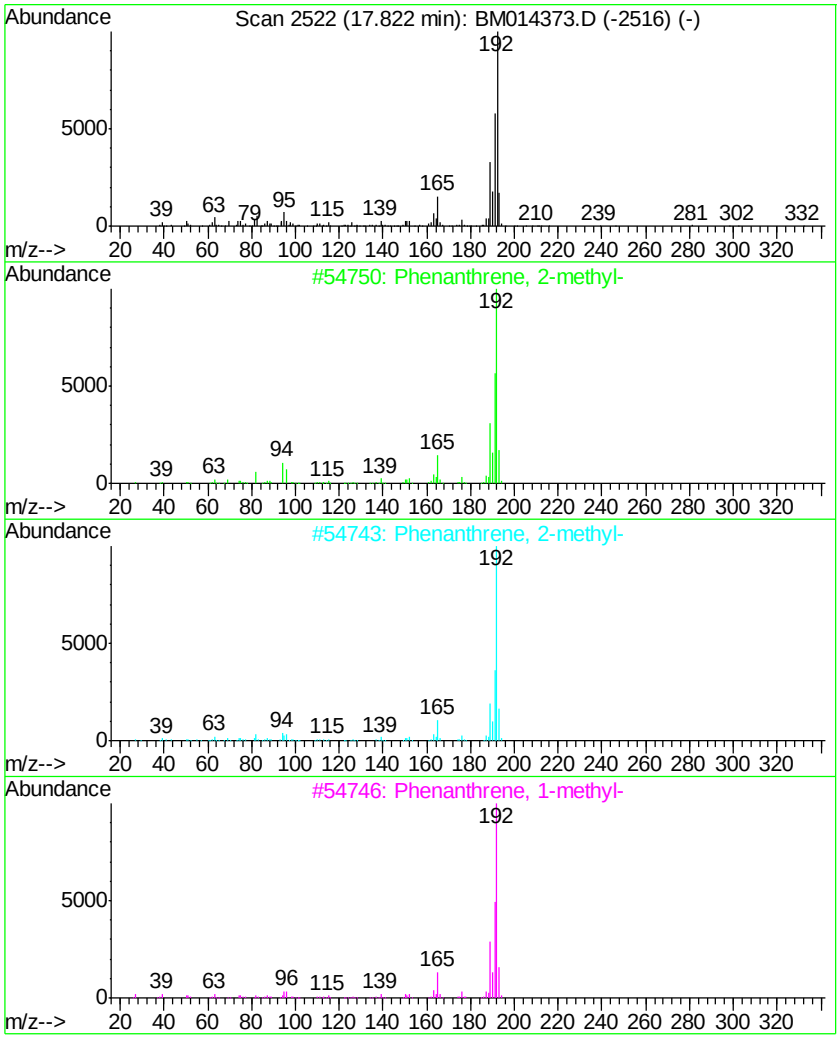
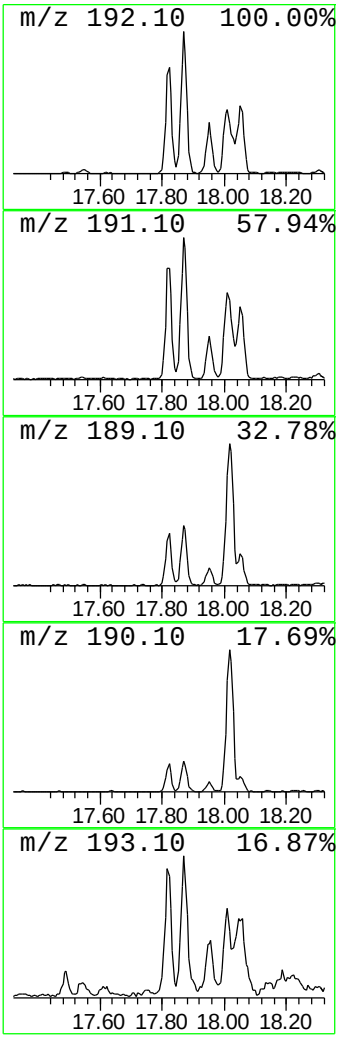
Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.82	9.17 ng/ul	960121	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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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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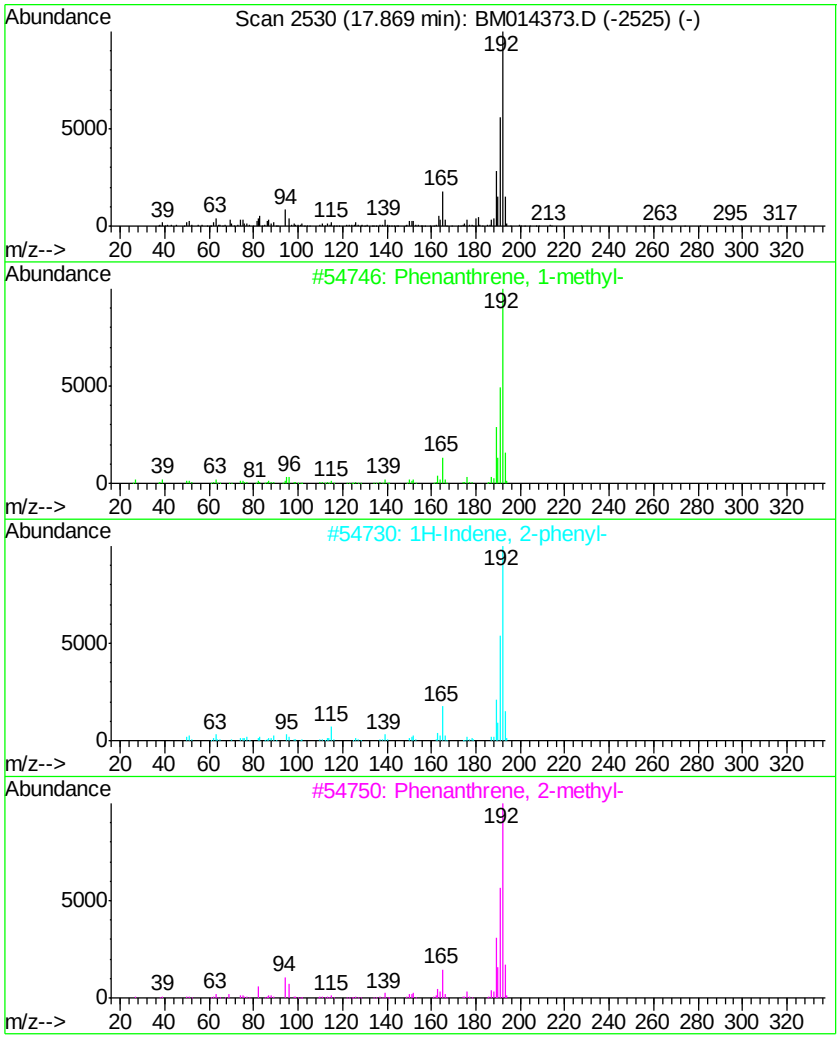
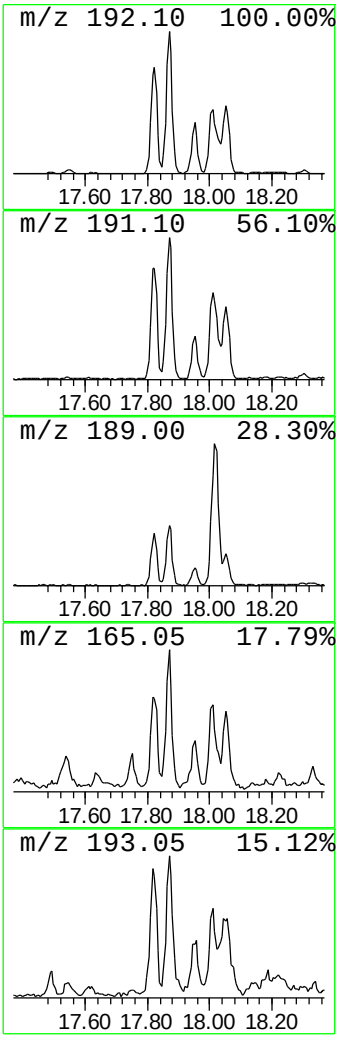
Peak Number 12 Phenanthrene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.87	16.29 ng/ul	1706490	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





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TIC Library : C:\DATABASE\NIST11.L
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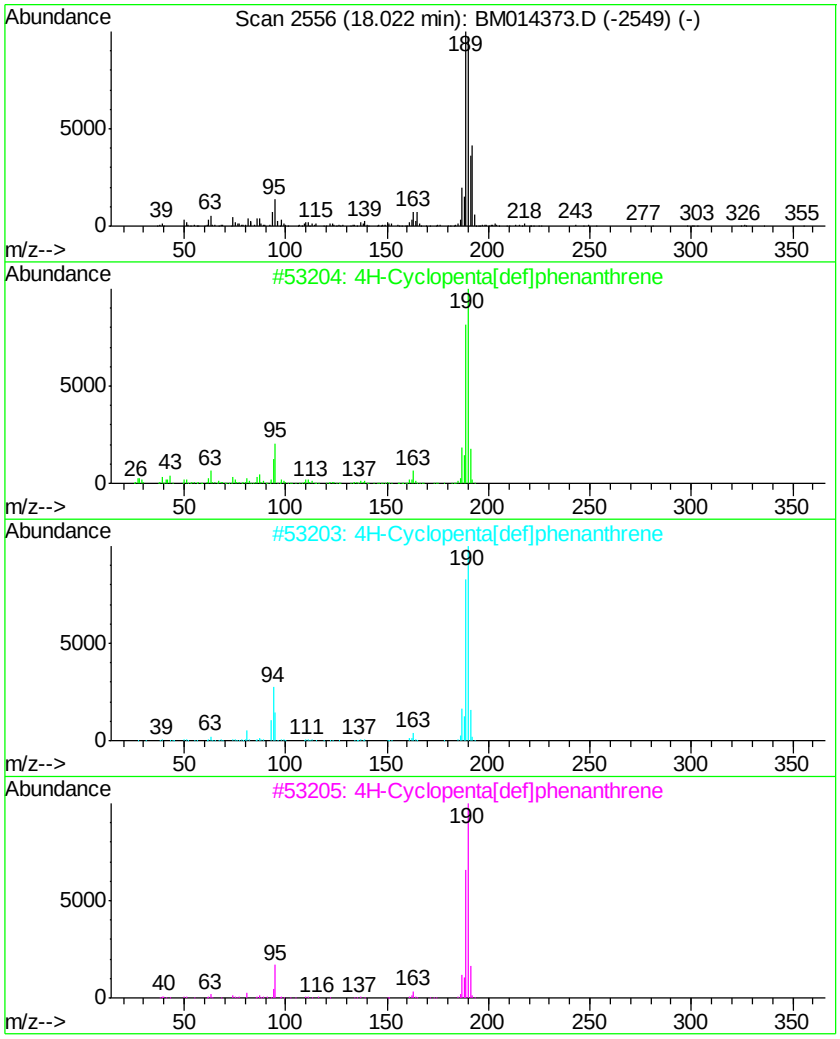
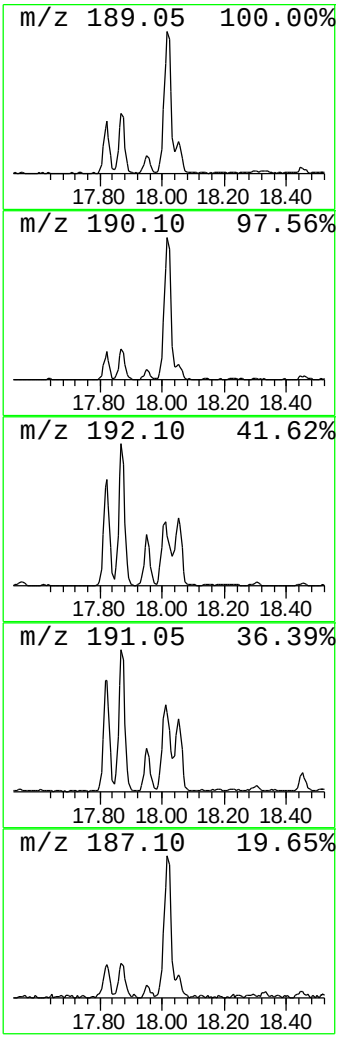
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.02	14.88 ng/ul	1558860	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	91
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
5	Methyl diselenide	190	C2H6Se2	007101-31-7	27





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Quant Title : SVOA CALIBRATION

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

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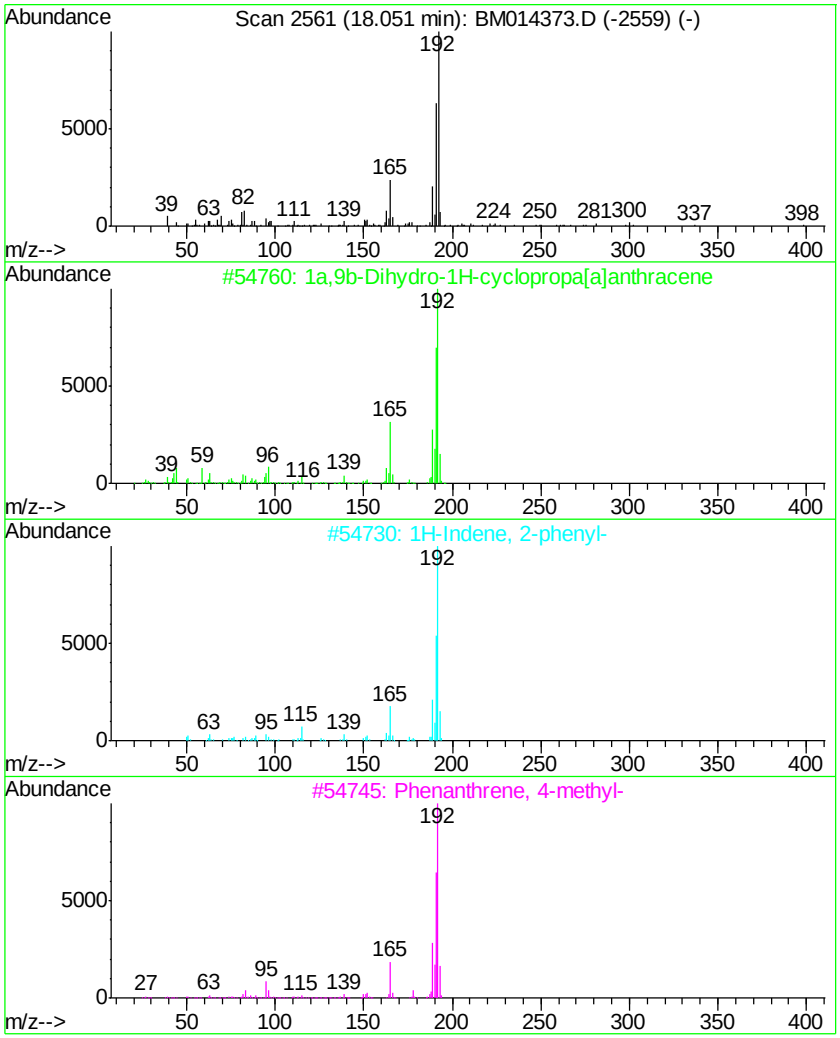
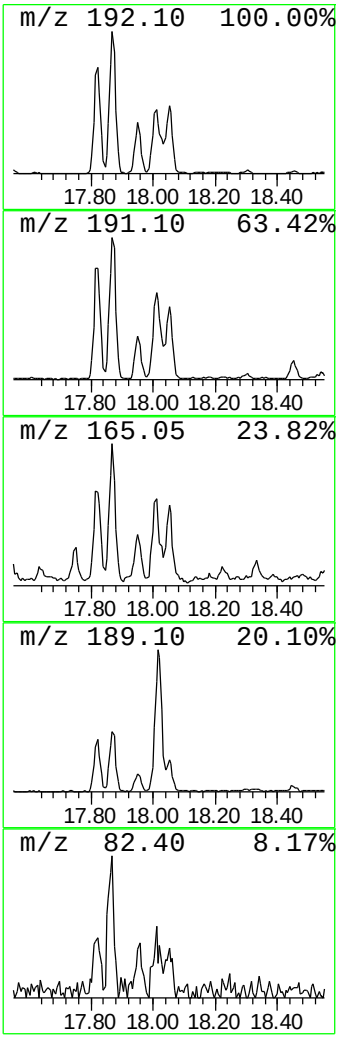
Peak Number 14 1a,9b-Dihydro-1H-cyclopropa... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	5.43 ng/ul	568265	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	68
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	68
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	68
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	64
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	64





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Peak Number 15 Naphthalene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	5.37 ng/ul	562413	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
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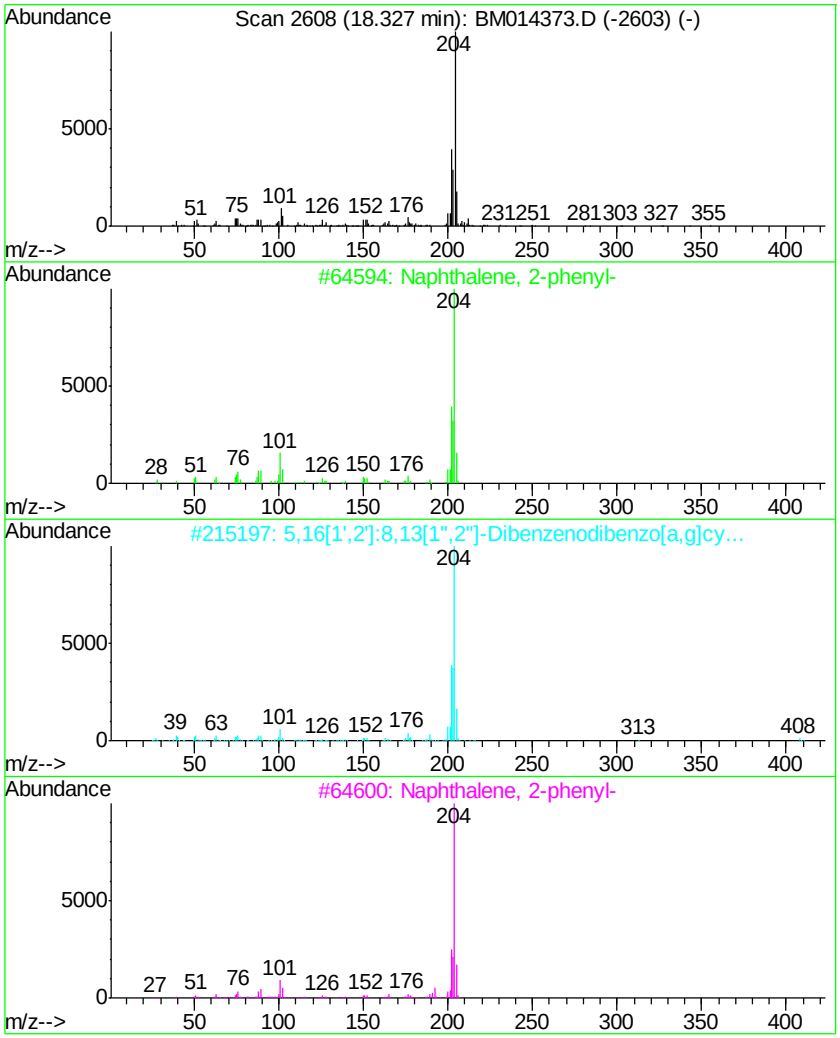
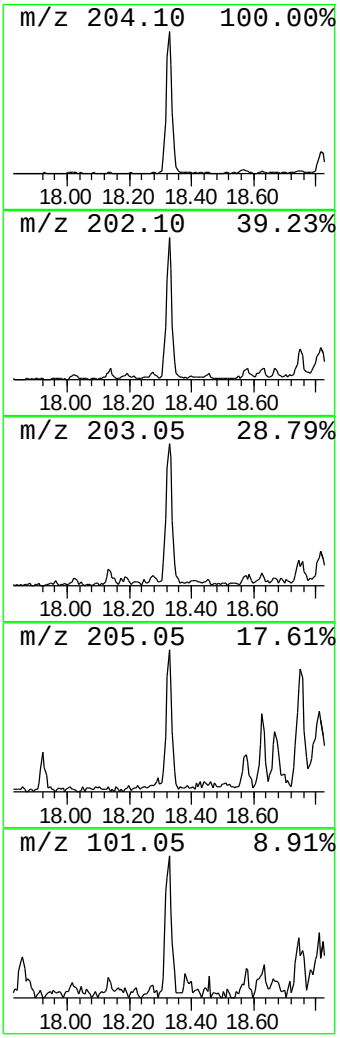
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64





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TIC Integration Parameters: LSCINT.P

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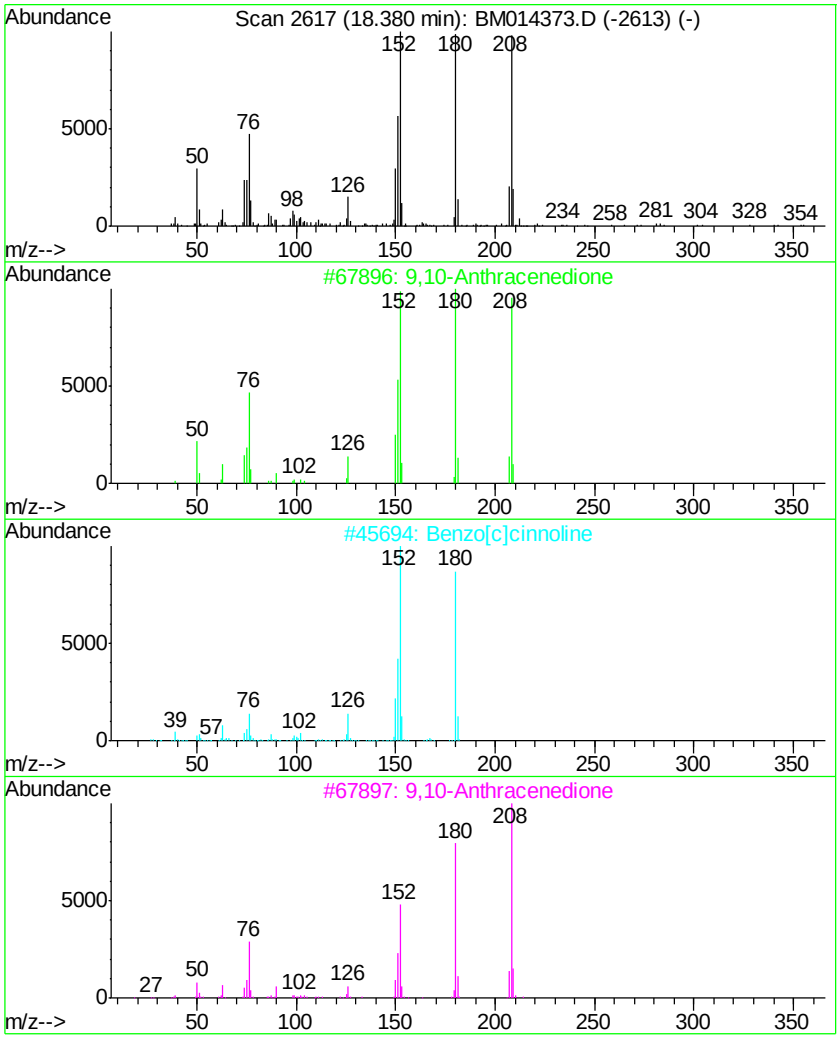
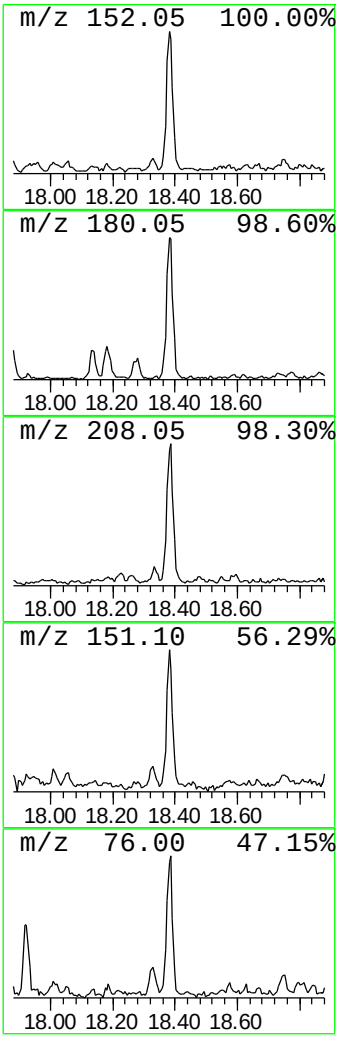
Peak Number 16 9,10-Anthracenedione Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.38	5.87 ng/ul	614690	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	92
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	87
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	83
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78





Library Search Compound Report

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Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

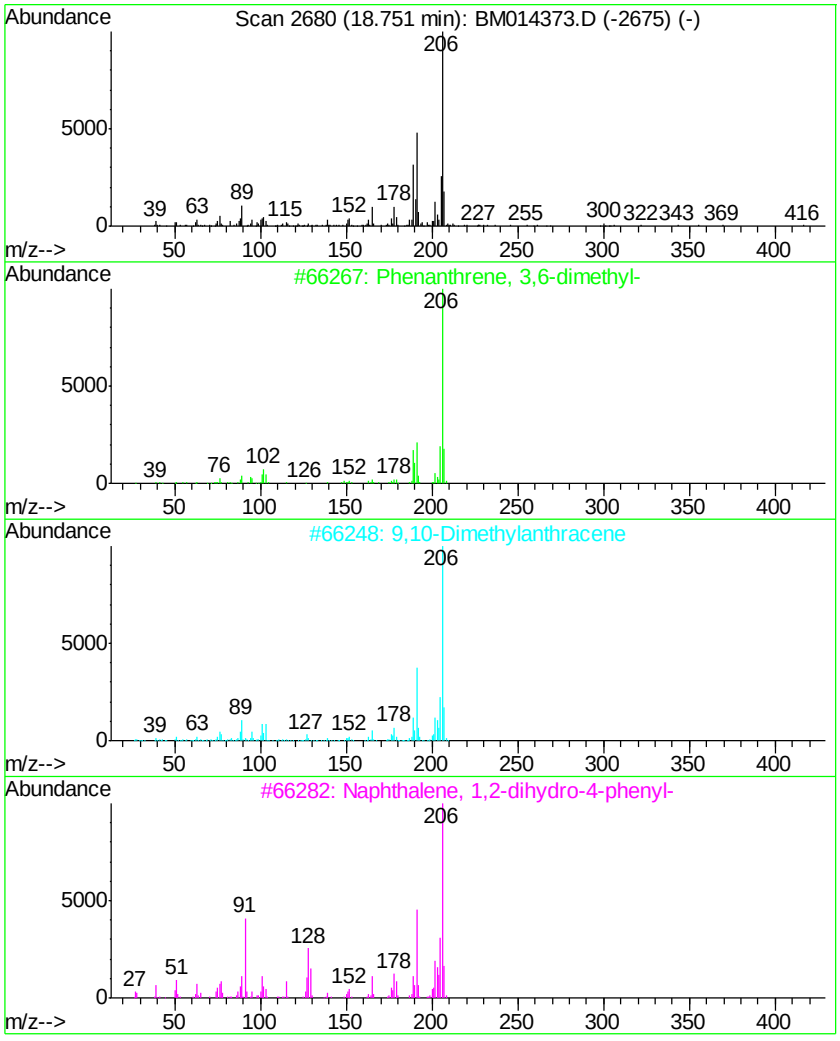
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

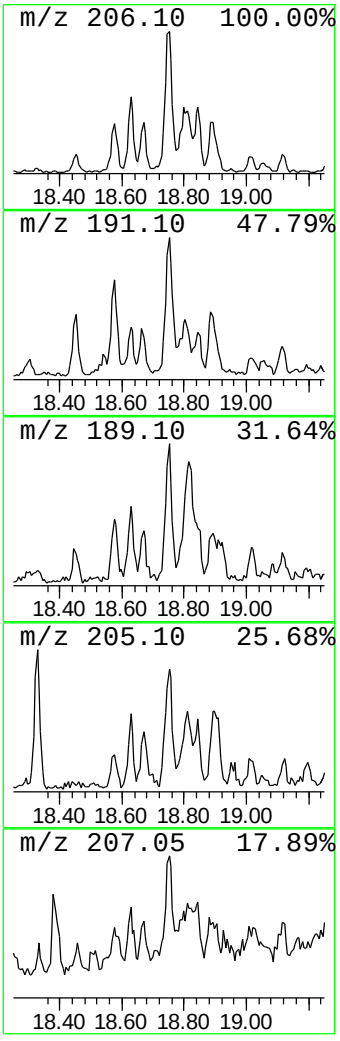
****

Peak Number 17 Phenanthrene, 3,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.75	4.94 ng/ul	517282	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	87
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	86





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Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

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Quant Title : SVOA CALIBRATION

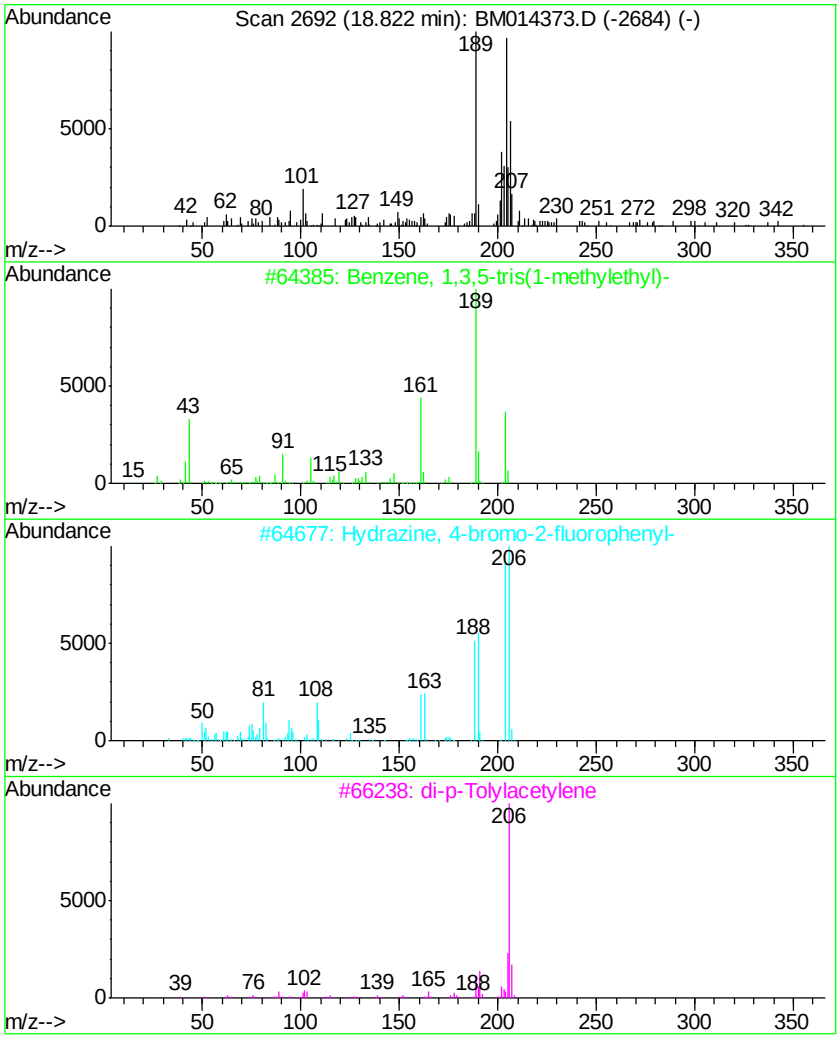
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

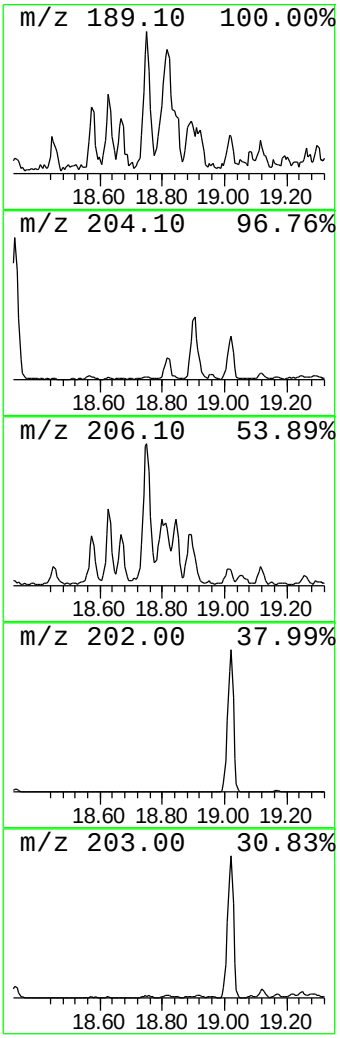
****

Peak Number 18 unknown-02 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.82	4.01 ng/ul	419757	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3,5-tris(1-methylethyl)-	204	C15H24	000717-74-8	38
2	Hydrazine, 4-bromo-2-fluorophenyl-	204	C6H6BrFN2	299440-17-8	35
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	30
4	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	25
5	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	22





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Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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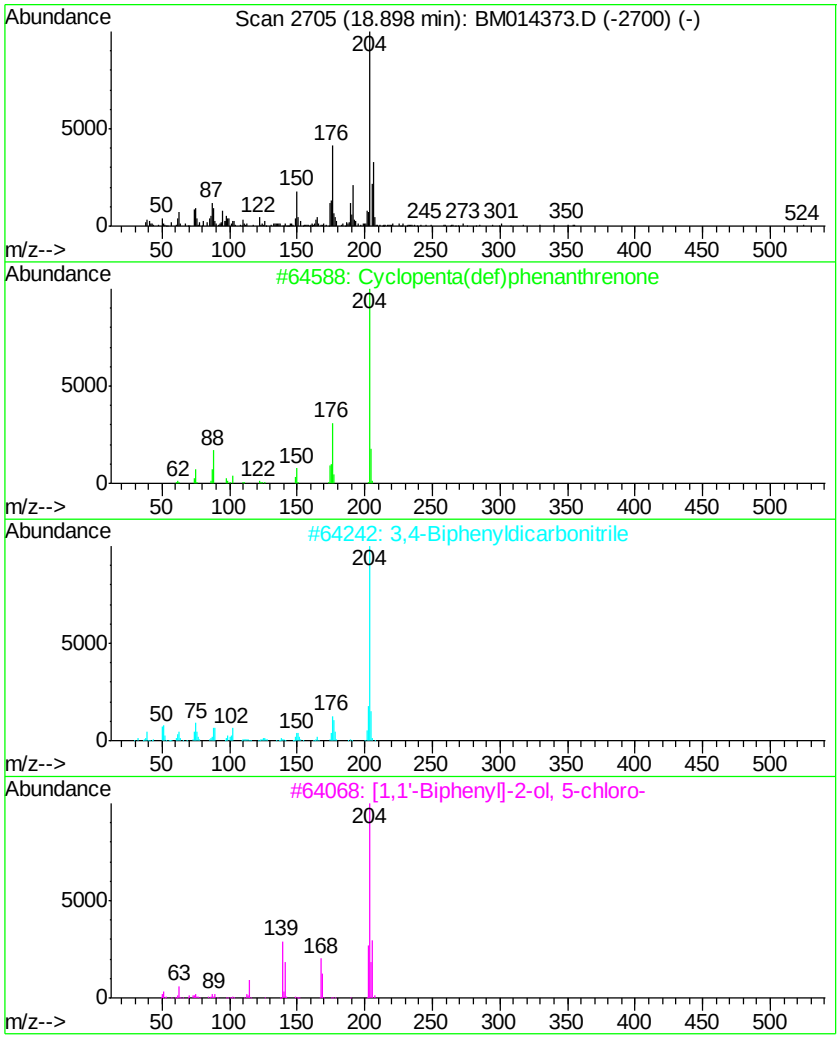
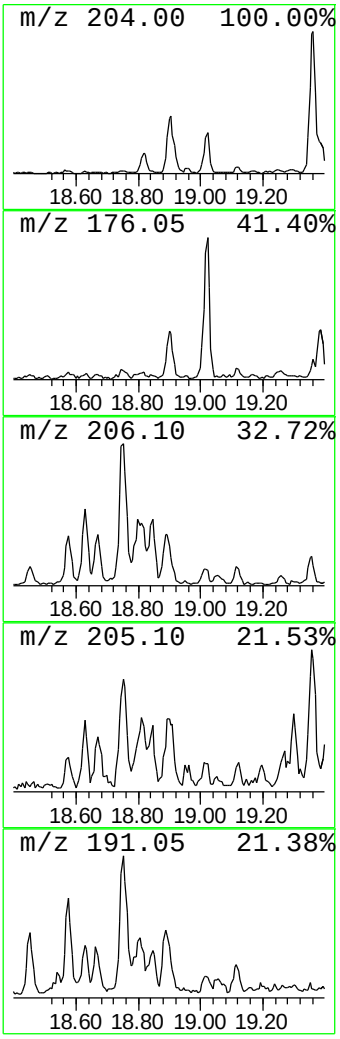
Peak Number 19 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	4.71 ng/ul	493047	Phenanthrene-d10	16.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	76
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	46
3	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43
4	[1,1'-Biphenyl-4-ol], 2-chloro-	204	C12H9ClO	023719-22-4	38
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	38





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Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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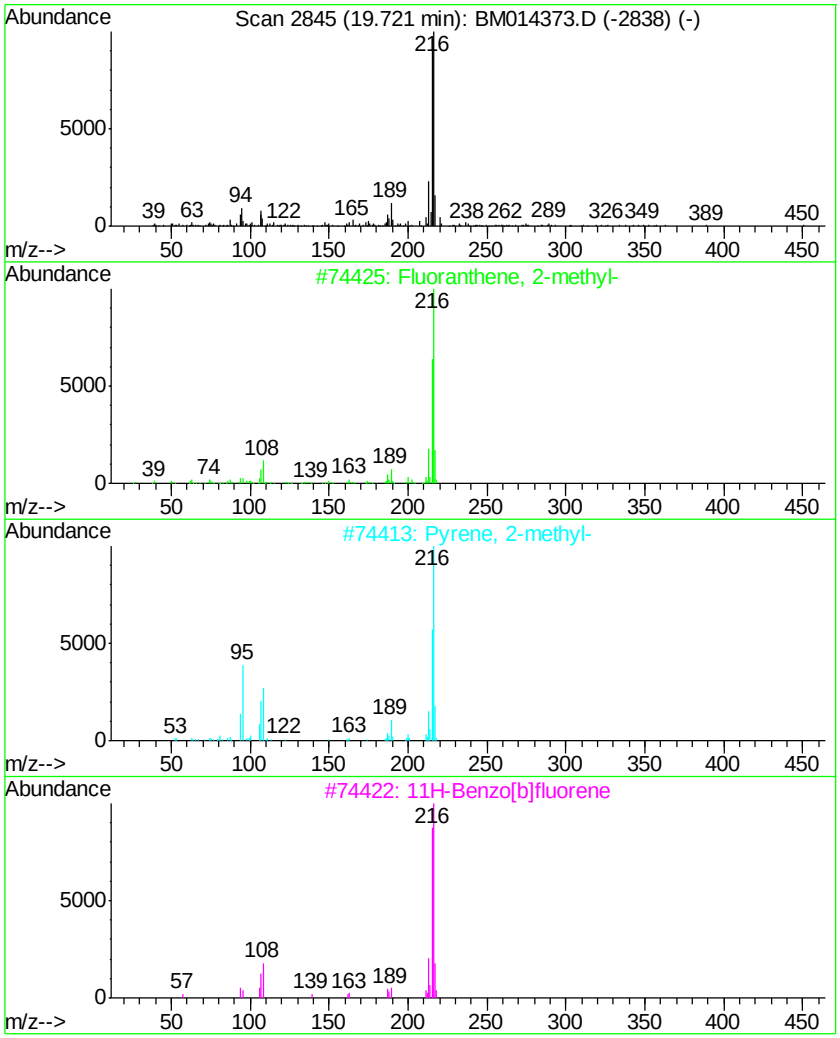
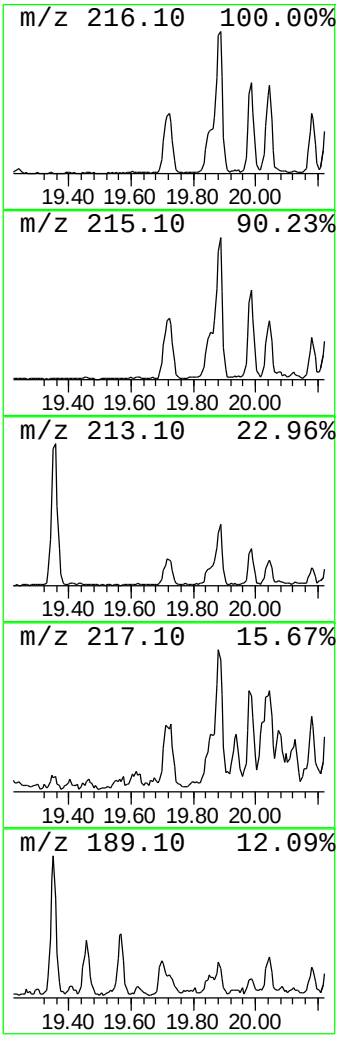
Peak Number 20 Fluoranthene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.72	3.12 ng/ul	794284	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





Library Search Compound Report

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Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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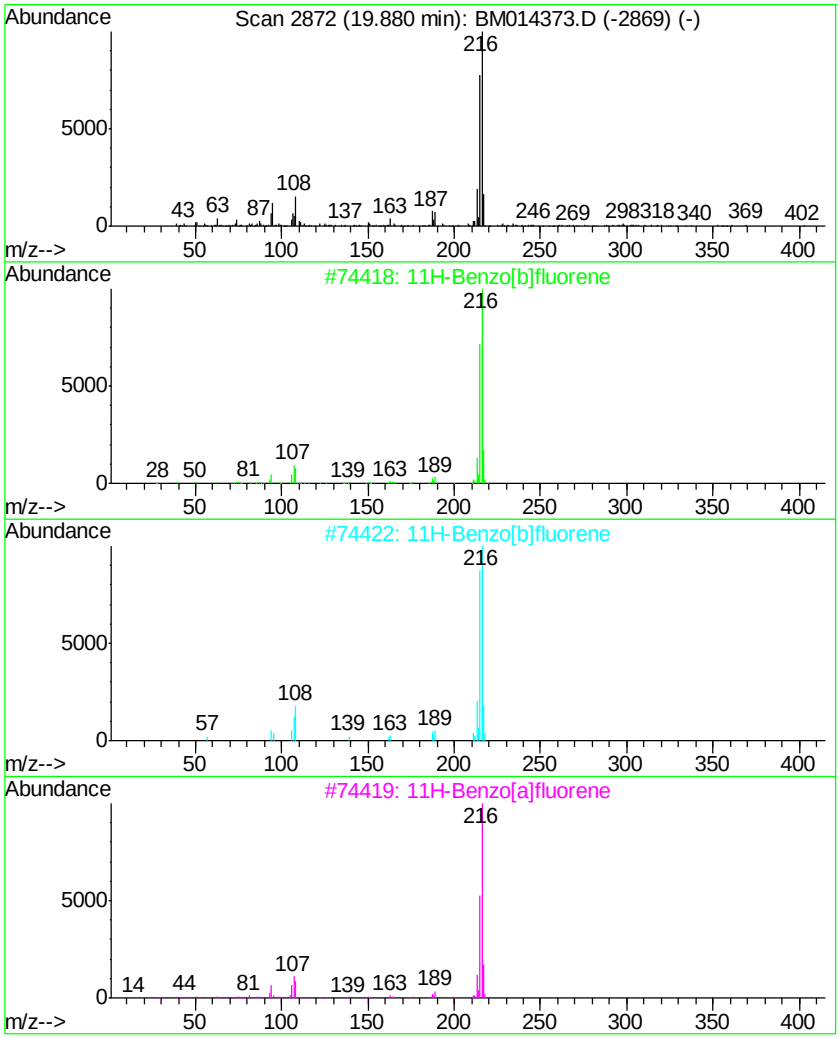
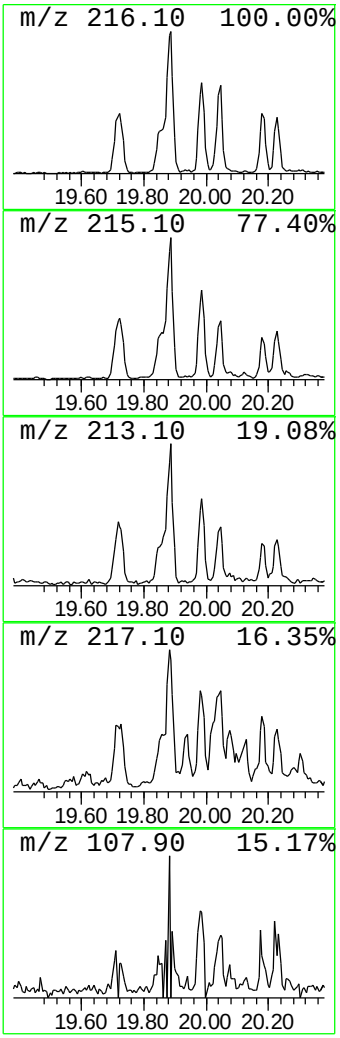
Peak Number 21 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.88	3.67 ng/ul	934276	Chrysene-d12	21.16

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





Library Search Compound Report

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Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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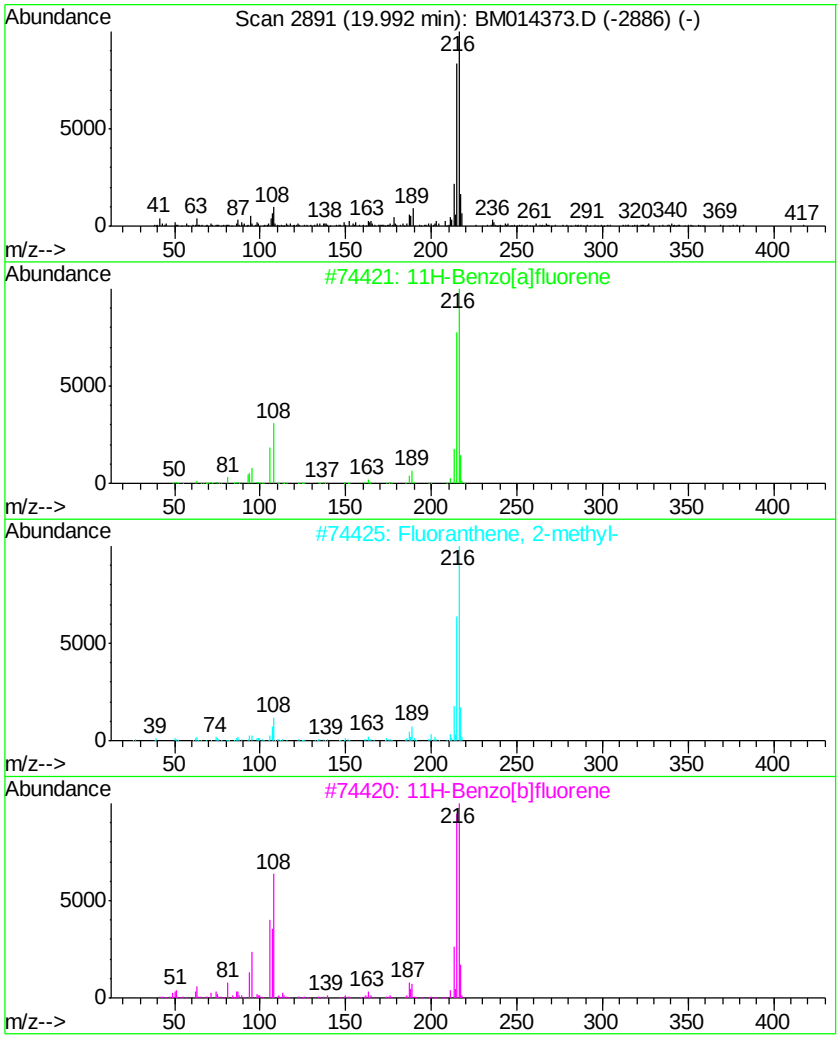
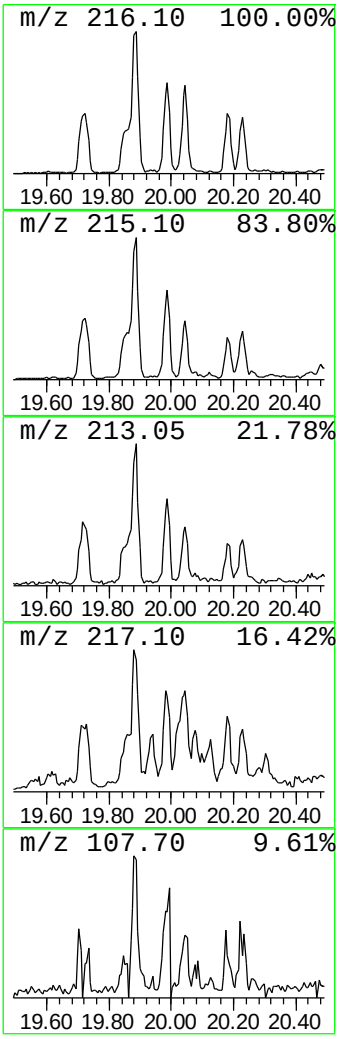
Peak Number 22 11H-Benzo[a]fluorene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.99	2.03 ng/ul	516109	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	86





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Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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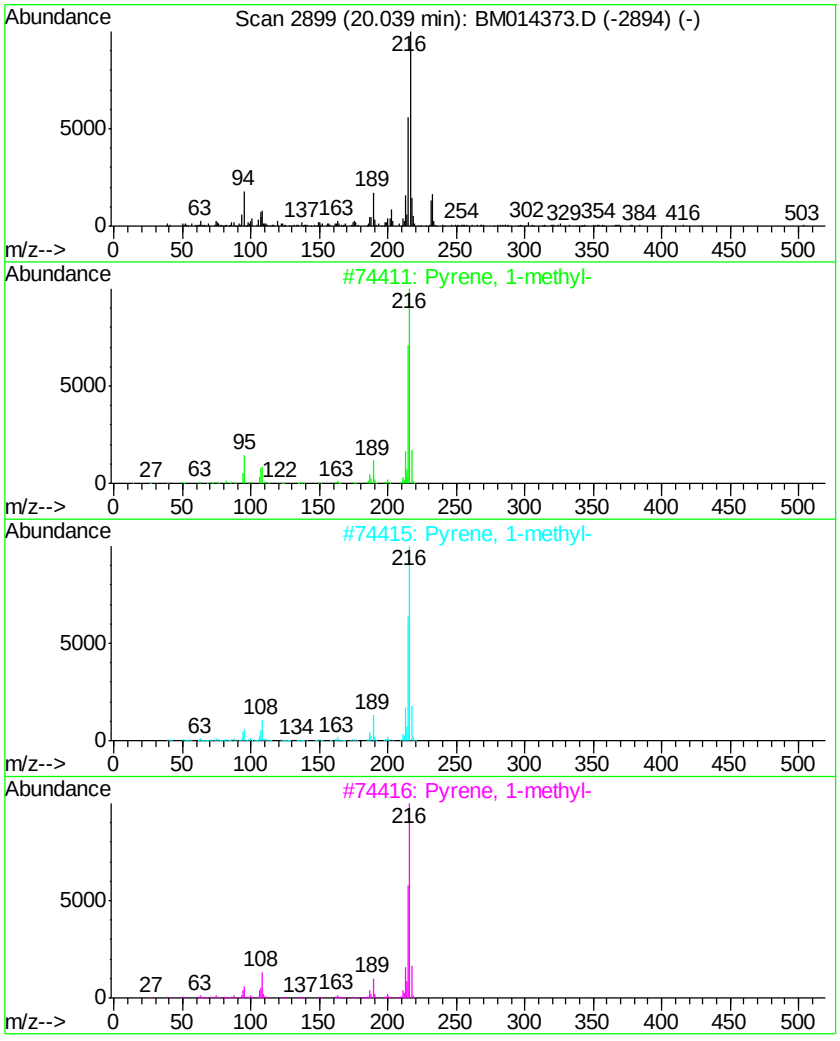
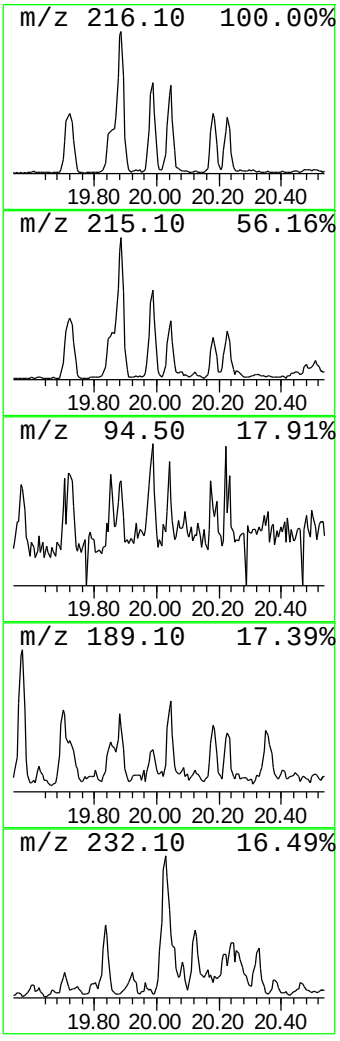
Peak Number 23 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.04	2.55 ng/ul	648457	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	81
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	81
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	76





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Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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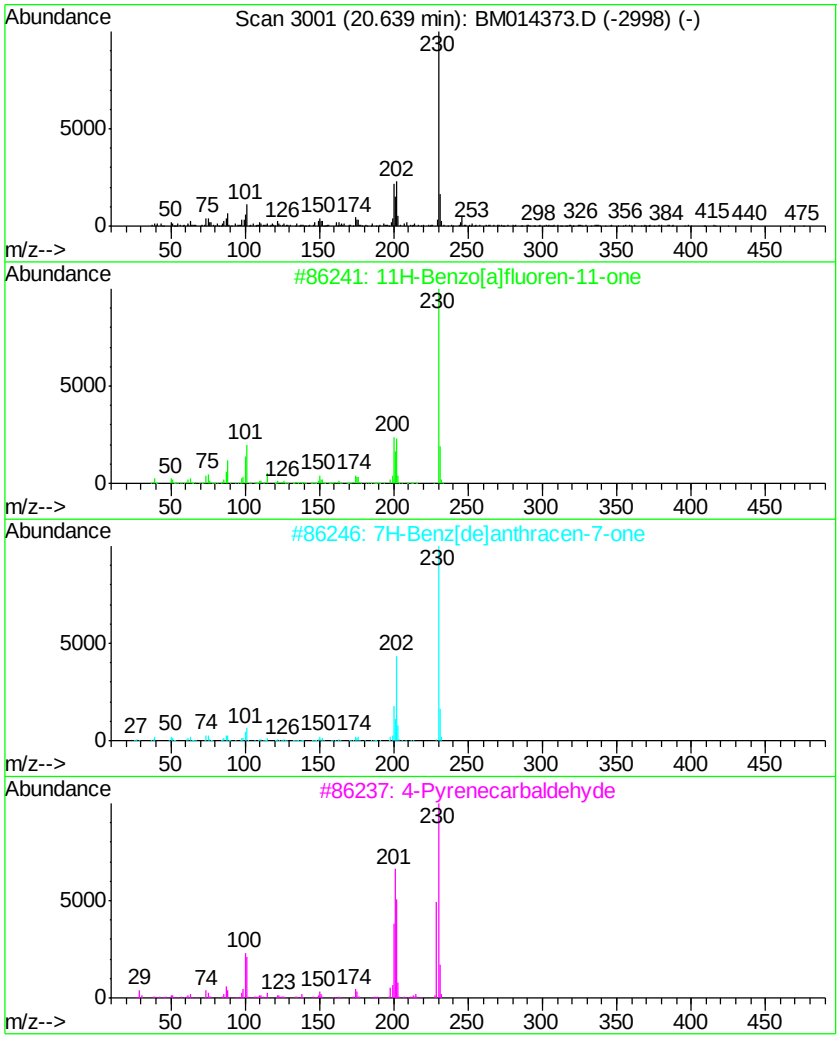
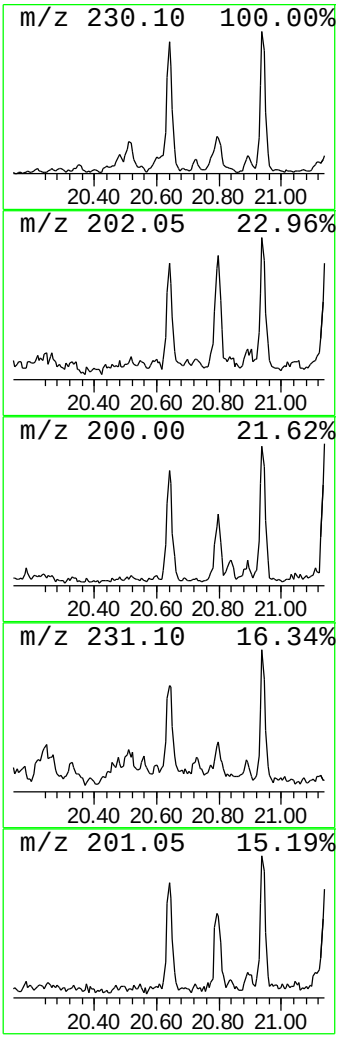
Peak Number 24 11H-Benzo[a]fluoren-11-one Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.64	2.23 ng/ul	569157	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	74
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74





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Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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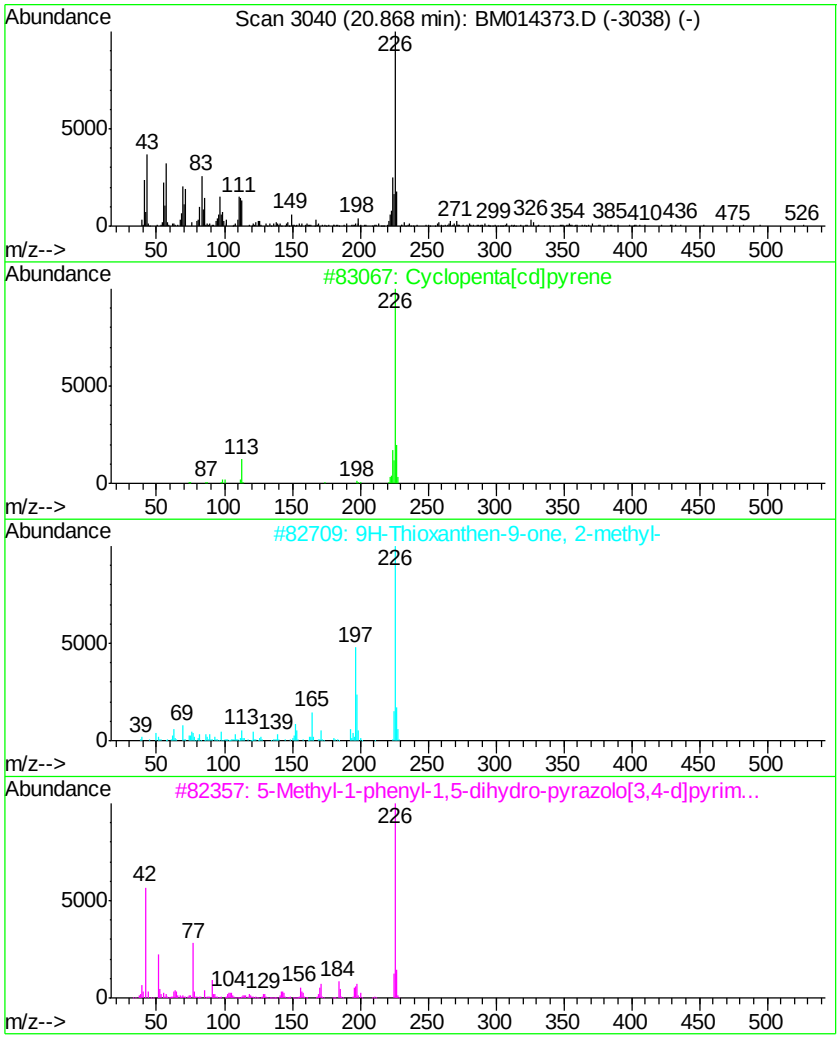
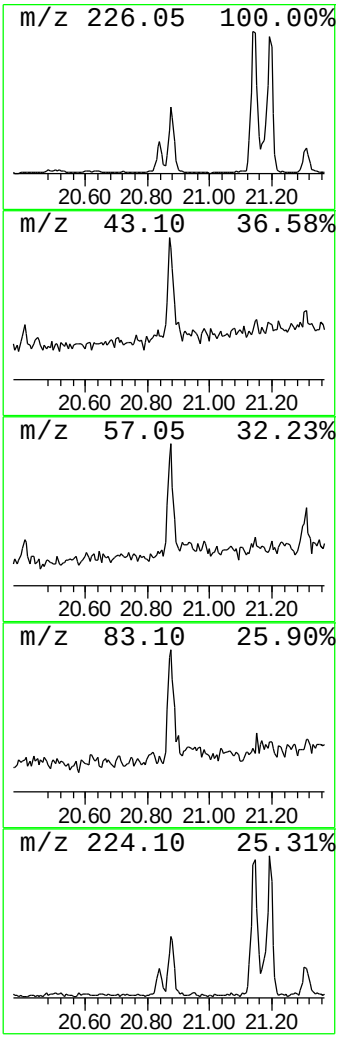
Peak Number 25 Cyclopenta[cd]pyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.87	3.60 ng/ul	915754	Chrysene-d12	21.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	52
2	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	50
3	5-Methyl-1-phenyl-1,5-dihydro-py...	226	C12H10N4O	1000300-02-1	47
4	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	47
5	2-Phenyl-4,5-methylenedioxybenza...	226	C14H10O3	004432-95-5	43





Tentatively Identified Compound (LSC) summary

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Data File : BM014373.D
Acq On : 27 Feb 2018 01:11
Operator : SJ/JU
Sample : J1646-22
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE600

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.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
unknown-01	4.68	2.4	ng/ul	144342	1	7.53	1212610	20.0
Dibenzofuran, 4-m...	15.54	2.2	ng/ul	239333	3	14.19	2172120	20.0
(DEL) Alkane: Str...	15.92	2.6	ng/ul	274812	4	16.95	2094720	20.0
9H-Fluorene, 9-me...	16.25	2.4	ng/ul	247585	4	16.95	2094720	20.0
9H-Fluoren-9-one	16.61	3.4	ng/ul	356849	4	16.95	2094720	20.0
Anthracene, 1,2,3...	16.70	3.8	ng/ul	395278	4	16.95	2094720	20.0
Naphtho[1,2-b]thi...	16.76	4.5	ng/ul	473626	4	16.95	2094720	20.0
Phenanthridine	17.15	2.3	ng/ul	243338	4	16.95	2094720	20.0
1-Methyldibenzoth...	17.53	2.3	ng/ul	237675	4	16.95	2094720	20.0
Phenanthrene, 2-m...	17.82	9.2	ng/ul	960121	4	16.95	2094720	20.0
Phenanthrene, 1-m...	17.87	16.3	ng/ul	1706490	4	16.95	2094720	20.0
4H-Cyclopenta[def...	18.02	14.9	ng/ul	1558860	4	16.95	2094720	20.0
1a,9b-Dihydro-1H-...	18.05	5.4	ng/ul	568265	4	16.95	2094720	20.0
Naphthalene, 2-ph...	18.33	5.4	ng/ul	562413	4	16.95	2094720	20.0
9,10-Anthracenedione	18.38	5.9	ng/ul	614690	4	16.95	2094720	20.0
Phenanthrene, 3,6...	18.75	4.9	ng/ul	517282	4	16.95	2094720	20.0
unknown-02	18.82	4.0	ng/ul	419757	4	16.95	2094720	20.0
Cyclopenta(def)ph...	18.90	4.7	ng/ul	493047	4	16.95	2094720	20.0
Fluoranthene, 2-m...	19.72	3.1	ng/ul	794284	5	21.16	5093260	20.0
11H-Benzo[b]fluorene	19.88	3.7	ng/ul	934276	5	21.16	5093260	20.0
11H-Benzo[a]fluorene	19.99	2.0	ng/ul	516109	5	21.16	5093260	20.0
Pyrene, 1-methyl-	20.04	2.5	ng/ul	648457	5	21.16	5093260	20.0
11H-Benzo[a]fluor...	20.64	2.2	ng/ul	569157	5	21.16	5093260	20.0
Cyclopenta[cd]pyrene	20.87	3.6	ng/ul	915754	5	21.16	5093260	20.0