LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061317\
Data File : BM010565.D
Acq On : 13 Jun 2017 18:06
Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

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-BM052717.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	7.069	670	677	686	rBV	223005	416763	3.06%	0.282%
2	7.222	697	703	711	rBV	159283	248004	1.82%	0.168%
3	7.416	729	736	743	rBV	276310	441250	3.24%	0.298%
4	7.881	808	815	821	rBV	464785	725137	5.32%	0.490%
5	8.598	932	937	945	rBV	271042	446469	3.28%	0.302%
6	9.063	1008	1016	1024	rBV	227296	386286	2.83%	0.261%
7	9.775	1130	1137	1146	rBV2	224459	393797	2.89%	0.266%
8	10.304	1220	1227	1236	rBV	363228	631622	4.63%	0.427%
9	10.681	1285	1291	1298	rBV	514481	862786	6.33%	0.584%
10	10.851	1313	1320	1331	rVB	242025	438918	3.22%	0.297%
11	13.933	1839	1844	1848	rBV	680098	901236	6.61%	0.610%
12	13.980	1848	1852	1862	rVB	586409	799328	5.86%	0.541%
13	14.216	1883	1892	1905	rBV2	656309	1247835	9.15%	0.844%
14	14.439	1922	1930	1935	rBV3	150219	252350	1.85%	0.171%
15	14.522	1935	1944	1950	rBV2	750465	1190296	8.73%	0.805%
16	14.763	1978	1985	2002	rVB	208732	405450	2.97%	0.274%
17	14.910	2004	2010	2016	rVB3	82432	172776	1.27%	0.117%
18	15.510	2102	2112	2118	rBV	901663	1317628	9.67%	0.891%
19	15.563	2118	2121	2128	rVB	157474	235590	1.73%	0.159%
20	15.639	2129	2134	2139	rBV	286886	419562	3.08%	0.284%
21	15.851	2166	2170	2176	rVB	136341	212348	1.56%	0.144%
22	15.998	2191	2195	2203	rVB2	147956	296782	2.18%	0.201%
23	16.563	2278	2291	2296	rBV3	132955	298885	2.19%	0.202%
24	16.786	2321	2329	2332	rBV2	148368	268868	1.97%	0.182%
25	16.827	2332	2336	2339	rVV3	120790	158885	1.17%	0.107%
26	16.927	2347	2353	2357	rBV4	108580	191936	1.41%	0.130%
27	16.980	2357	2362	2365	rVV3	175648	305768	2.24%	0.207%
28	17.010	2365	2367	2375	rVV2	181062	276613	2.03%	0.187%
29	17.086	2375	2380	2387	rVB	180237	293703	2.15%	0.199%
30	17.268	2405	2411	2414	rBV	1172312	1631784	11.97%	1.104%
31	17.310	2414	2418	2423	rVV	3758317	5146888	37.76%	3.481%
32	17.368	2423	2428	2431	rVV	1016375	1512656	11.10%	1.023%
33	17.398	2431	2433	2441	rVB	569114	811222	5.95%	0.549%
34	17.580	2461	2464	2472	rVB6	73886	154264	1.13%	0.104%

LSC Area Percent Report

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Data File : BM010565.D
Acq On : 13 Jun 2017 18:06
Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

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-BM052717.M
Title : SVOA CALIBRATION

35	17.686	2472	2482	2488	rBV5	203263	561283	4.12%	0.380%
36	17.780	2493	2498	2505	rBV5	126292	258017	1.89%	0.174%
37	17.851	2505	2510	2513	rBV3	121850	191864	1.41%	0.130%
38	18.133	2551	2558	2562	rBV	858900	1370984	10.06%	0.927%
39	18.186	2562	2567	2572	rVV	1029740	1474713	10.82%	0.997%
40	18.262	2576	2580	2585	rVB	359625	499221	3.66%	0.338%
41	18.333	2585	2592	2596	rBV3	761016	1676167	12.30%	1.134%
42	18.368	2596	2598	2603	rVB	590390	666019	4.89%	0.450%
43	18.633	2638	2643	2649	rBV	725830	981331	7.20%	0.664%
44	18.692	2649	2653	2658	rVB	319667	430110	3.16%	0.291%
45	18.874	2676	2684	2688	rBV2	243551	445877	3.27%	0.302%
46	18.921	2689	2692	2696	rVV	270177	321643	2.36%	0.218%
47	18.962	2696	2699	2703	rVB3	215275	271813	1.99%	0.184%
48	19.045	2708	2713	2718	rVV	600864	983722	7.22%	0.665%
49	19.109	2718	2724	2726	rVV4	288994	624587	4.58%	0.422%
50	19.139	2726	2729	2733	rVV	285318	366431	2.69%	0.248%
51	19.204	2733	2740	2746	rVB2	433465	866933	6.36%	0.586%
52	19.321	2754	2760	2765	rVB	10685191	13631004	100.00%	9.219%
53	19.374	2765	2769	2772	rBV	260648	363626	2.67%	0.246%
54	19.409	2772	2775	2781	rVB4	264209	459655	3.37%	0.311%
55	19.468	2782	2785	2789	rBV	152989	208898	1.53%	0.141%
56	19.521	2789	2794	2797	rBV5	177872	324889	2.38%	0.220%
57	19.568	2799	2802	2810	rVB3	296271	543404	3.99%	0.368%
58	19.651	2810	2816	2819	rBV2	2661322	4751491	34.86%	3.213%
59	19.686	2819	2822	2828	rVB	7157645	9042926	66.34%	6.116%
60	19.751	2828	2833	2838	rVB	712930	1074336	7.88%	0.727%
61	19.827	2841	2846	2847	rBV4	103886	164265	1.21%	0.111%
62	19.856	2847	2851	2856	rVB	771745	941386	6.91%	0.637%
63	19.992	2869	2874	2883	rBV4	891593	2170626	15.92%	1.468%
64	20.074	2884	2888	2891	rVV3	187642	291147	2.14%	0.197%
65	20.139	2892	2899	2900	rVV3	558588	1080287	7.93%	0.731%
66	20.168	2901	2904	2910	rVB	1376002	1935513	14.20%	1.309%
67	20.268	2917	2921	2924	rBV	476488	643653	4.72%	0.435%
68	20.327	2924	2931	2935	rVV2	953551	2020917	14.83%	1.367%
69	20.368	2935	2938	2940	rVV2	251879	259911	1.91%	0.176%
70	20.403	2940	2944	2949	rVB2	251706	392251	2.88%	0.265%
71	20.468	2951	2955	2958	rBV	536348	682405	5.01%	0.462%

LSC Area Percent Report

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Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

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-BM052717.M
Title : SVOA CALIBRATION

72	20.515	2960	2963	2971	rVB2	625775	885322	6.49%	0.599%
73	20.603	2974	2978	2982	rBV4	278453	503263	3.69%	0.340%
74	20.798	3006	3011	3015	rBV5	163704	325556	2.39%	0.220%
75	20.921	3027	3032	3037	rBV	1730392	2385541	17.50%	1.613%
76	20.980	3038	3042	3051	rVB4	718320	1112005	8.16%	0.752%
77	21.080	3055	3059	3063	rVV2	1393474	2295491	16.84%	1.552%
78	21.121	3063	3066	3070	rVV	992362	1294983	9.50%	0.876%
79	21.168	3070	3074	3078	rVV3	926310	1575457	11.56%	1.065%
80	21.221	3078	3083	3089	rVB	1626595	2341509	17.18%	1.584%
81	21.321	3098	3100	3104	rVB2	243449	261367	1.92%	0.177%
82	21.421	3110	3117	3123	rBV2	6612356	13275880	97.39%	8.978%
83	21.474	3123	3126	3131	rVB	5579033	6996690	51.33%	4.732%
84	21.598	3143	3147	3150	rBV3	328461	483558	3.55%	0.327%
85	21.650	3153	3156	3160	rBV2	399745	663644	4.87%	0.449%
86	21.715	3165	3167	3170	rBV	331368	343813	2.52%	0.233%
87	21.768	3171	3176	3179	rBV3	438331	823456	6.04%	0.557%
88	21.939	3202	3205	3208	rBV2	274485	407812	2.99%	0.276%
89	21.992	3210	3214	3219	rVV	1377522	2177897	15.98%	1.473%
90	22.050	3220	3224	3230	rVB	611192	874433	6.42%	0.591%
91	22.203	3246	3250	3253	rBV3	528970	817538	6.00%	0.553%
92	22.792	3346	3350	3356	rBV4	365990	782343	5.74%	0.529%
93	23.068	3390	3397	3402	rBV	3967114	10123145	74.27%	6.846%
94	23.239	3422	3426	3433	rVB	566255	932551	6.84%	0.631%
95	23.568	3477	3482	3487	rBV	2071814	3692829	27.09%	2.497%
96	23.621	3487	3491	3494	rVV2	1276263	2172240	15.94%	1.469%
97	23.668	3494	3499	3506	rVB	3100665	5728990	42.03%	3.875%
98	23.774	3511	3517	3521	rBV	1426198	2714631	19.92%	1.836%
99	23.821	3522	3525	3531	rVB	896331	1556755	11.42%	1.053%
100	26.144	3914	3920	3931	rVB2	1435750	3847936	28.23%	2.602%

Sum of corrected areas: 147863625

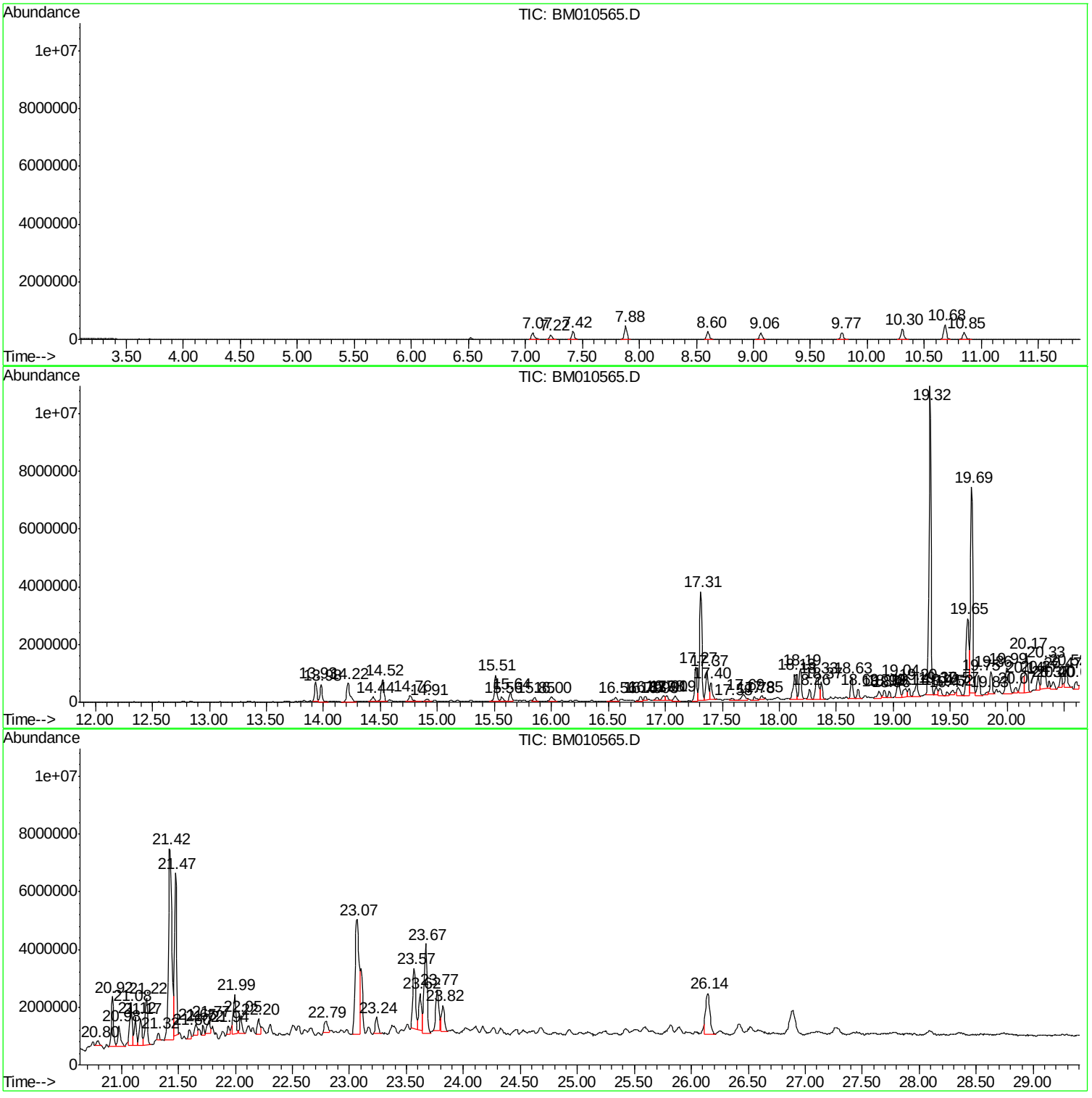
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061317\
Data File : BM010565.D
Acq On : 13 Jun 2017 18:06
Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061317\
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Sample : I3522-07
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Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

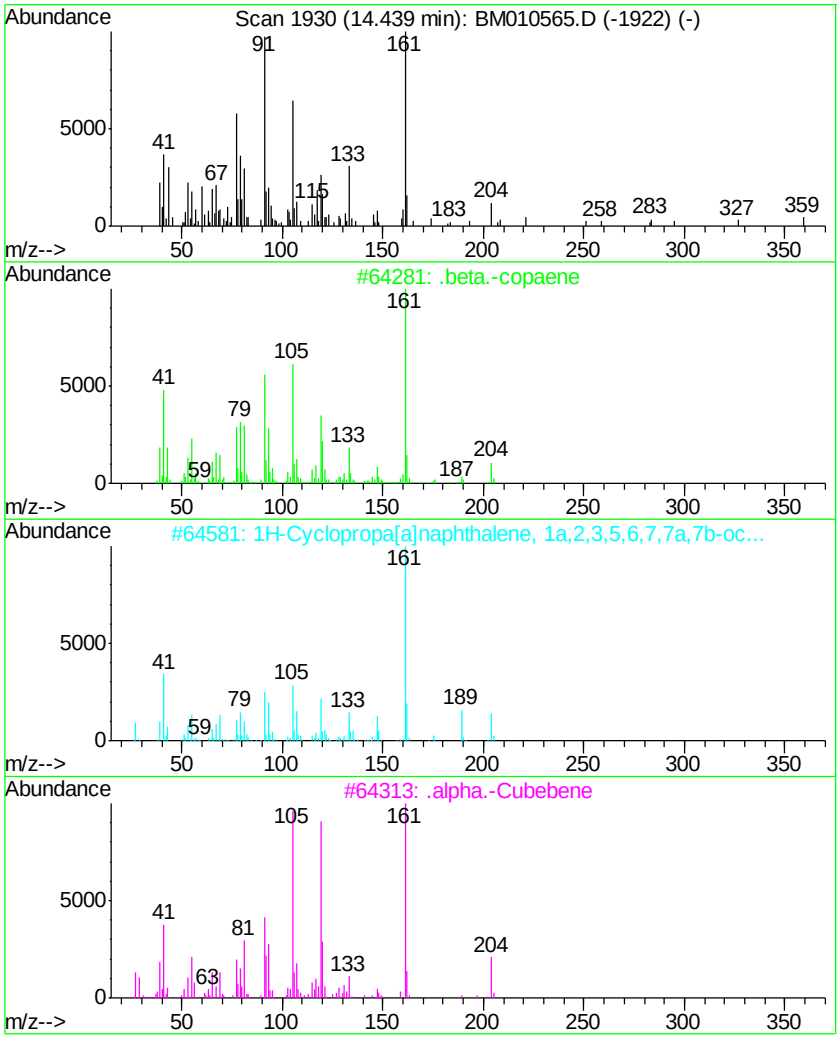
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

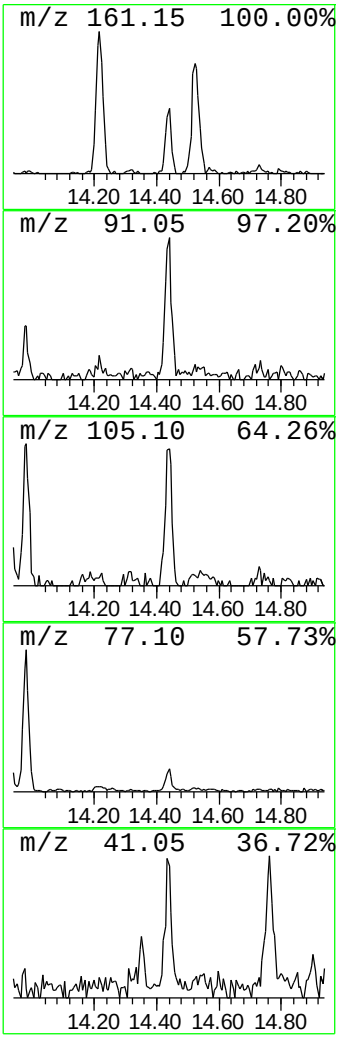
****

Peak Number 1 .beta.-copaene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.44	4.24 ng/ul	252350	Acenaphthene-d10	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-copaene	204	C15H24	1000374-18-9	92
2	1H-Cyclopropa[a]naphthalene, 1a,...	204	C15H24	017334-55-3	60
3	.alpha.-Cubebene	204	C15H24	017699-14-8	55
4	1,6-Cyclodecadiene, 1-methyl-5-m...	204	C15H24	023986-74-5	53
5	1H-Cyclopenta[1,3]cyclopropa[1,2...	204	C15H24	013744-15-5	50





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061317\
Data File : BM010565.D
Acq On : 13 Jun 2017 18:06
Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

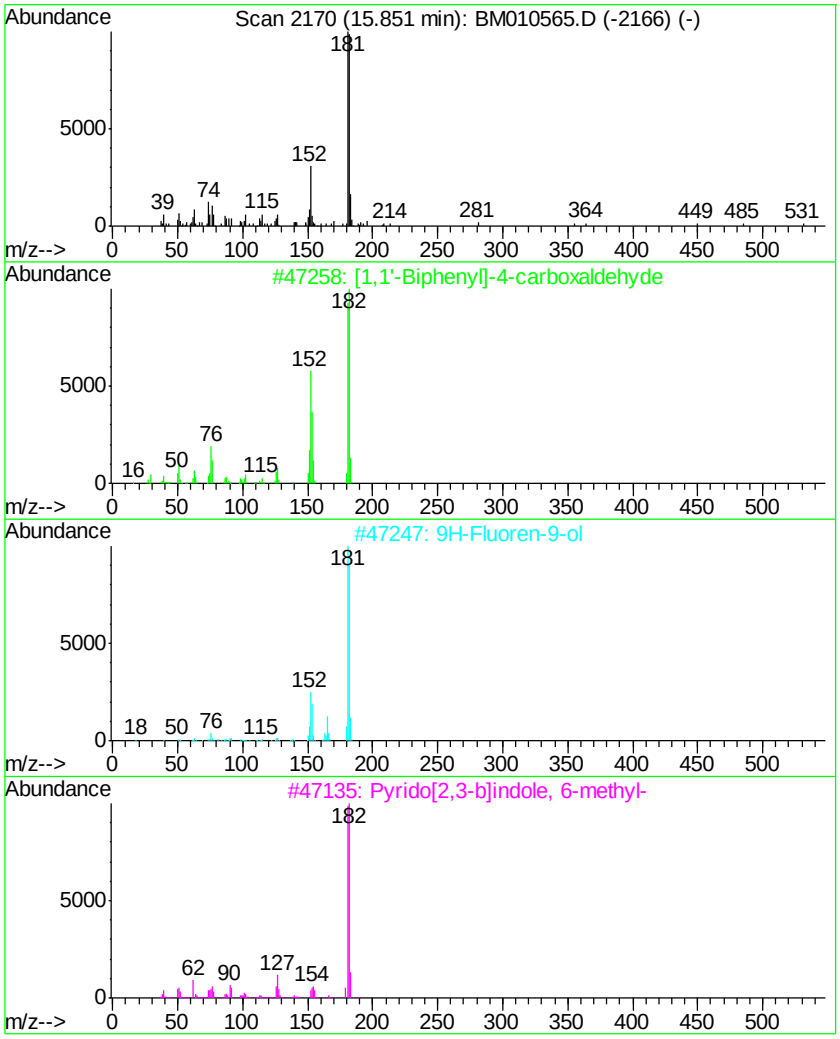
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

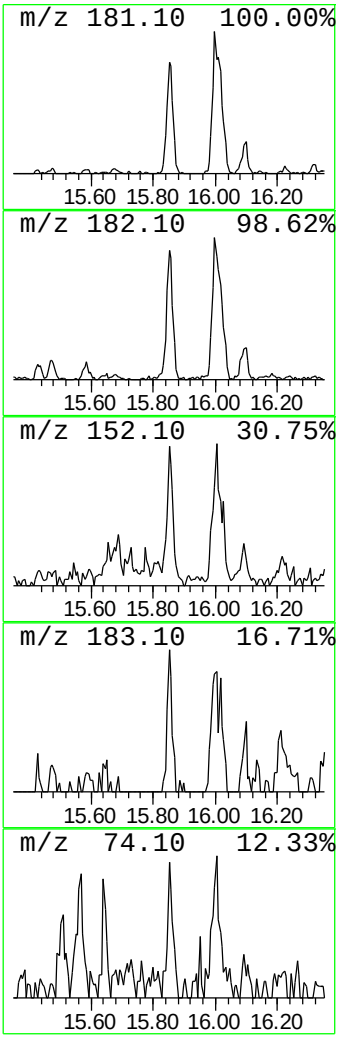
****

Peak Number 2 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.85	3.57 ng/ul	212348	Acenaphthene-d10	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
3	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	72
4	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	72
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	70





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061317\
Data File : BM010565.D
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Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

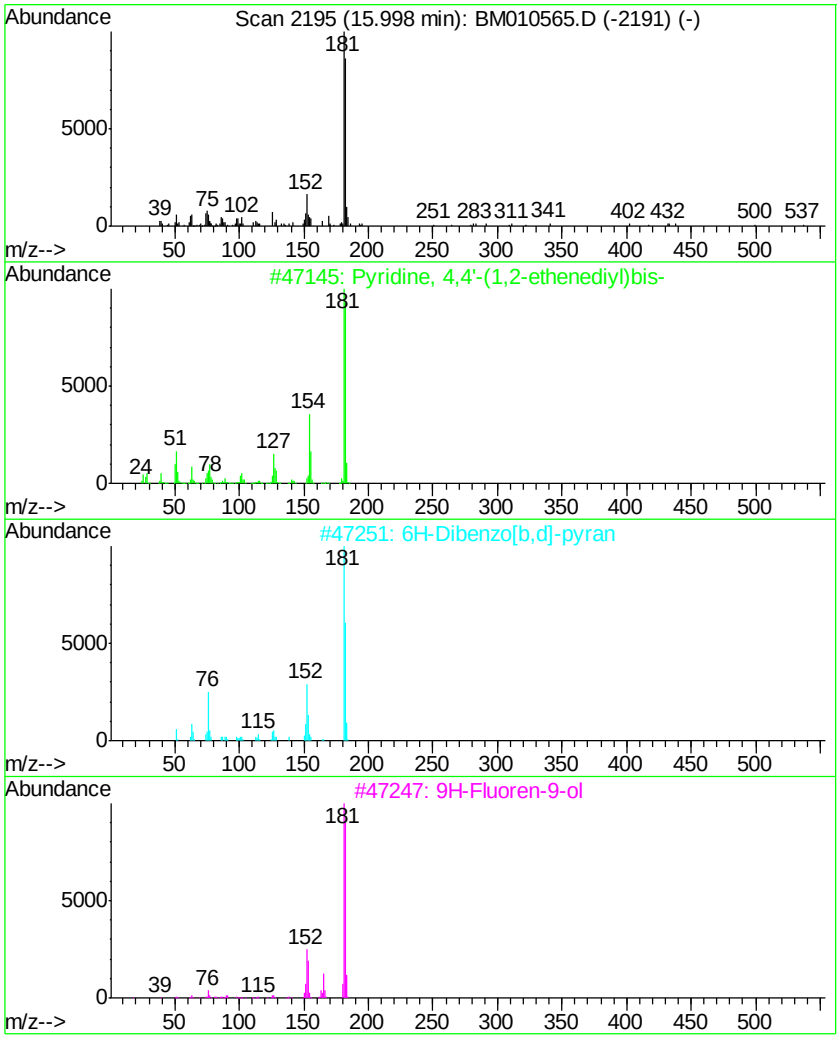
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

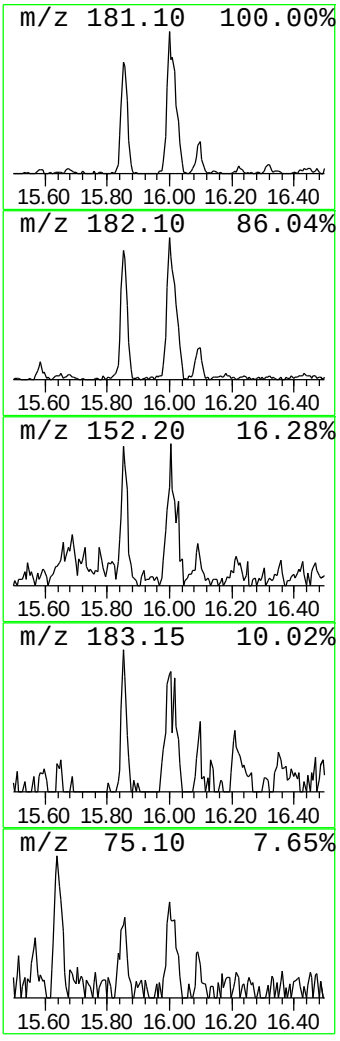
****

Peak Number 3 Pyridine, 4,4'-(1,2-ethened... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.00	3.64 ng/ul	296782	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	80
2	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	80
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80
4	5-Methylpyrimido[3,4-a]indole	182	C12H10N2	030689-02-2	64
5	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	64





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061317\
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Acq On : 13 Jun 2017 18:06
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Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

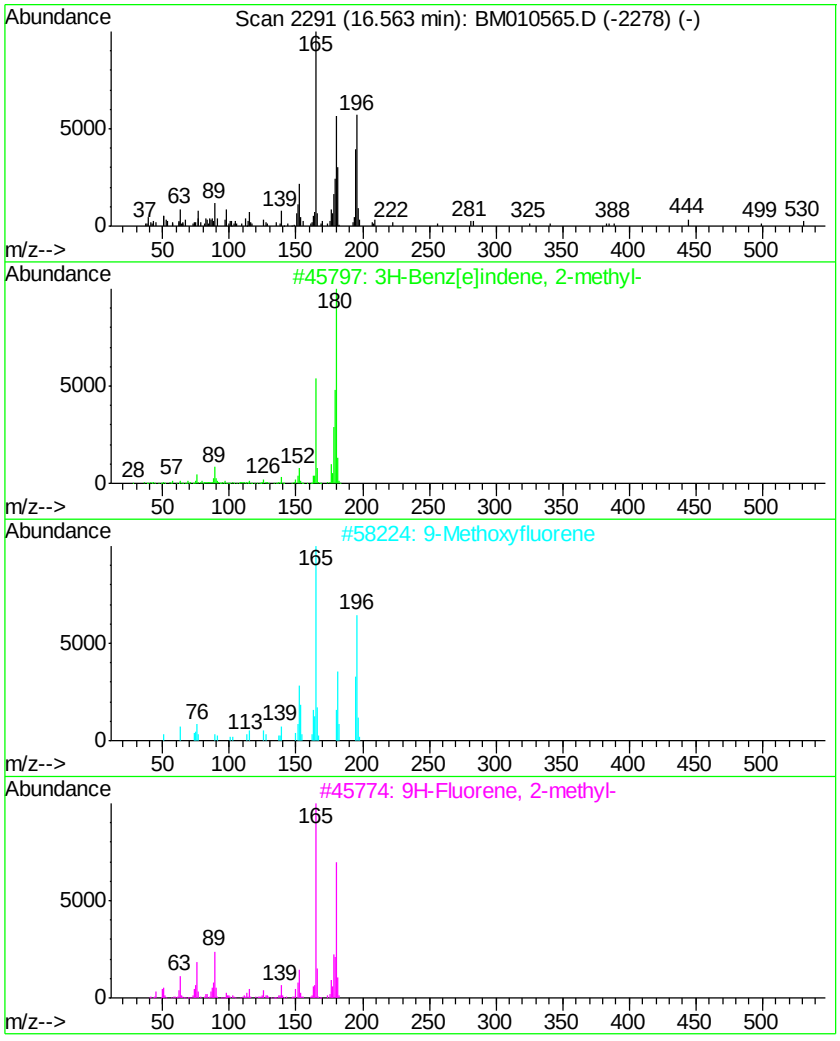
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

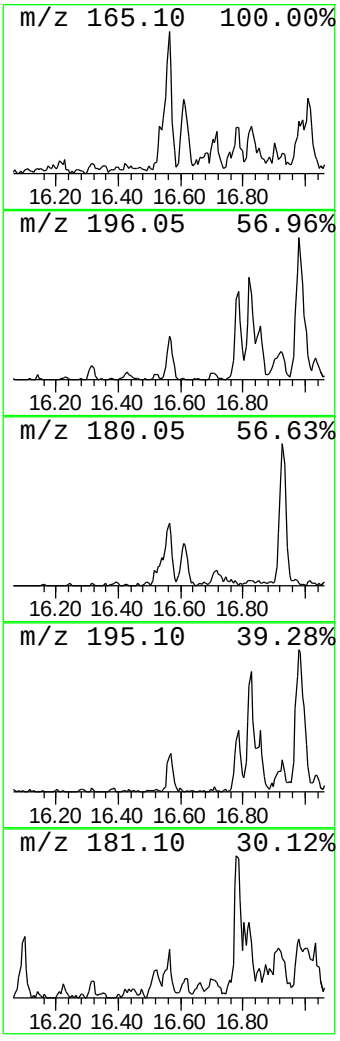
****

Peak Number 4 3H-Benz[e]indene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.56	3.66 ng/ul	298885	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3H-Benz[e]indene, 2-methyl-	180	C14H12	150096-60-9	78
2	9-Methoxyfluorene	196	C14H12O	019126-15-9	70
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	55
4	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	49
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	49





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061317\
Data File : BM010565.D
Acq On : 13 Jun 2017 18:06
Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

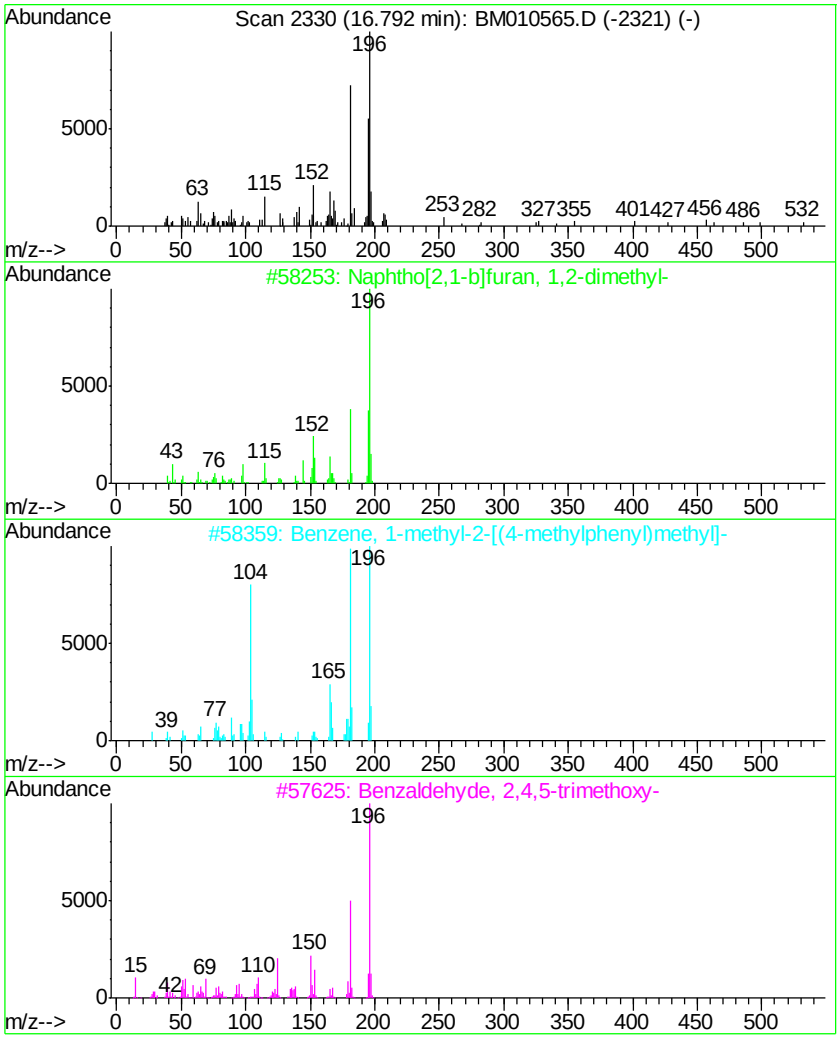
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

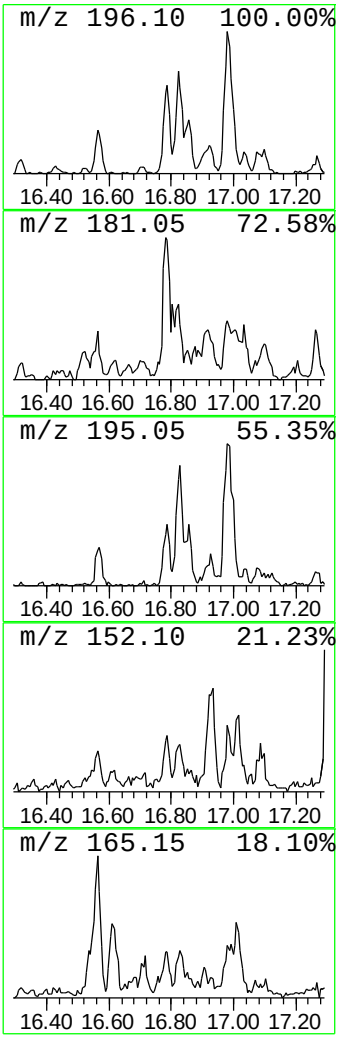
****

Peak Number 5 Naphtho[2,1-b]furan, 1,2-di... Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.79	3.30 ng/ul	268868	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	53
2	Benzene, 1-methyl-2-[(4-methylph...	196	C15H16	021895-17-0	50
3	Benzaldehyde, 2,4,5-trimethoxy-	196	C10H12O4	004460-86-0	49
4	Benzaldehyde, 3,4,5-trimethoxy-	196	C10H12O4	000086-81-7	49
5	2,4,6(1H,3H,5H)-Pyrimidinetrione...	266	C14H22N2O3	028239-49-8	47





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Operator : SJ/MA
Sample : I3522-07
Misc :
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Instrument : BNA_M
ClientSampleId : F5A62

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Quant Title : SVOA CALIBRATION

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

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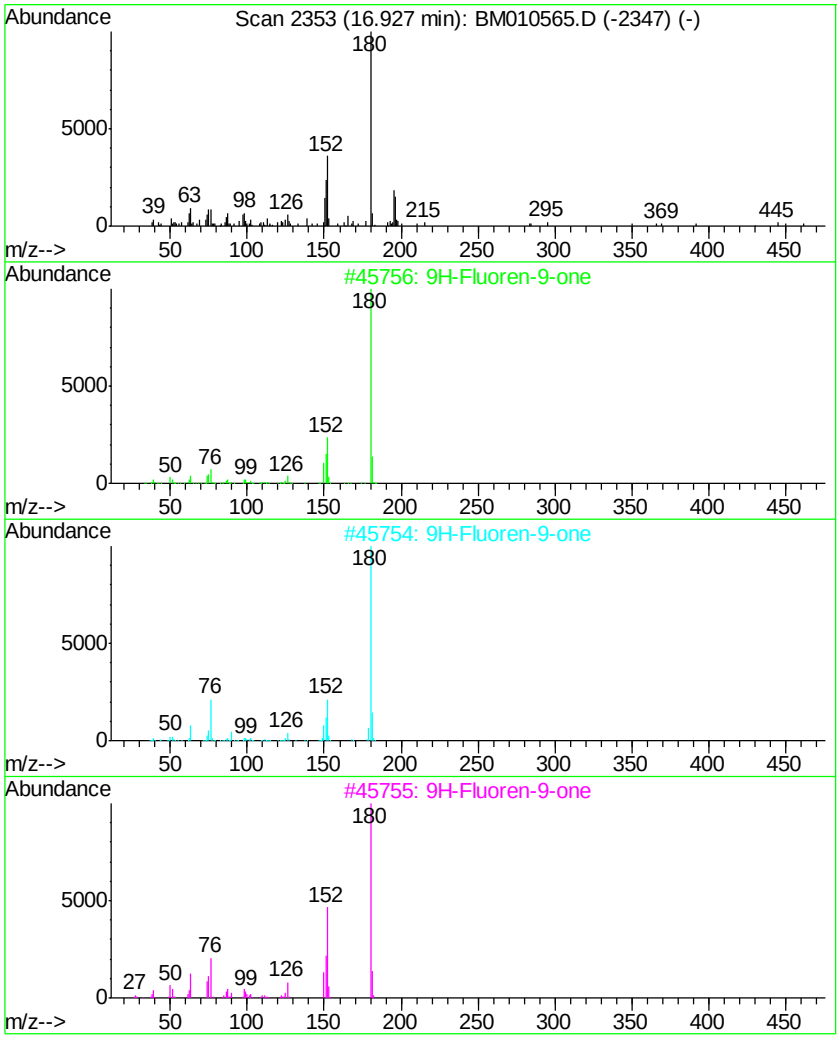
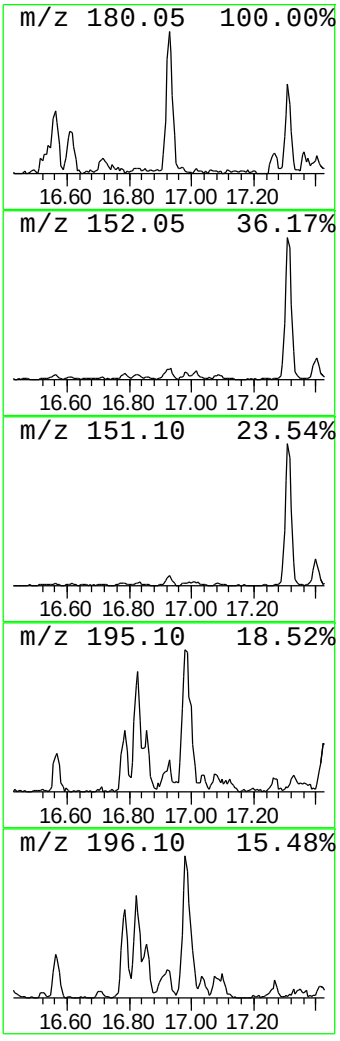
Peak Number 6 9H-Fluoren-9-one Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.93	2.35 ng/ul	191936	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	74
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	72
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	59
5	Acridine, 9,10-dihydro-	181	C13H11N	000092-81-9	50





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Instrument : BNA_M
ClientSampleId : F5A62

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Quant Title : SVOA CALIBRATION

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

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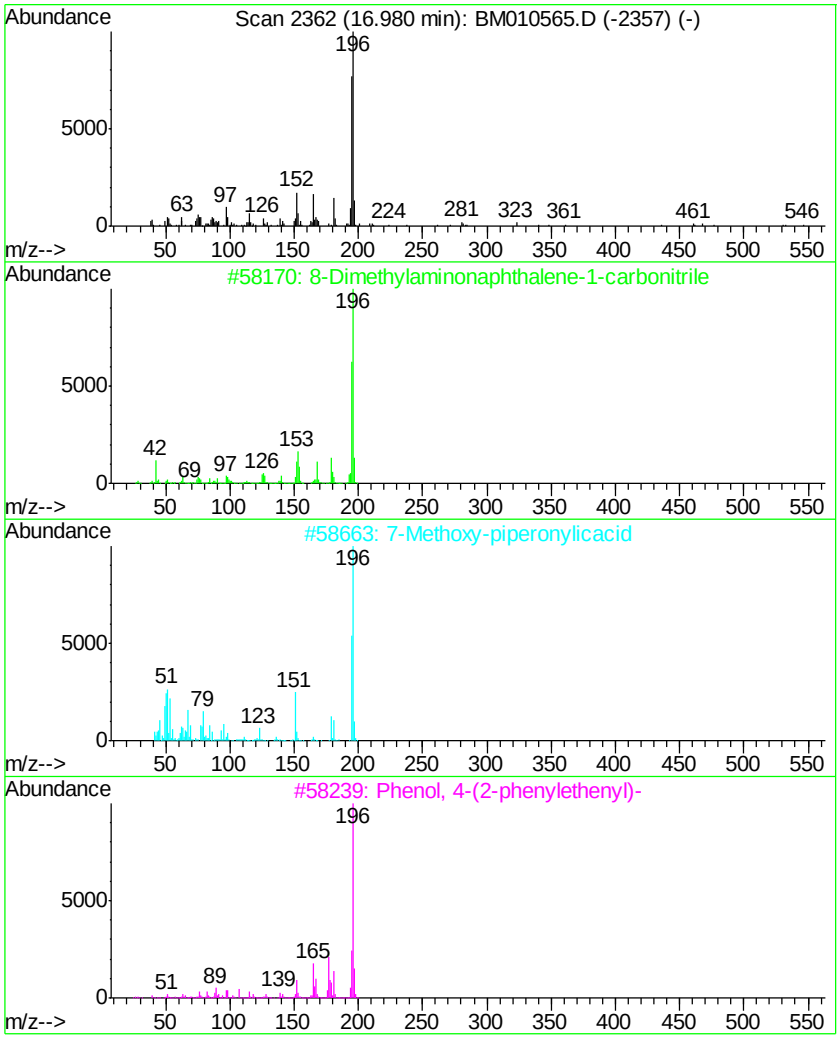
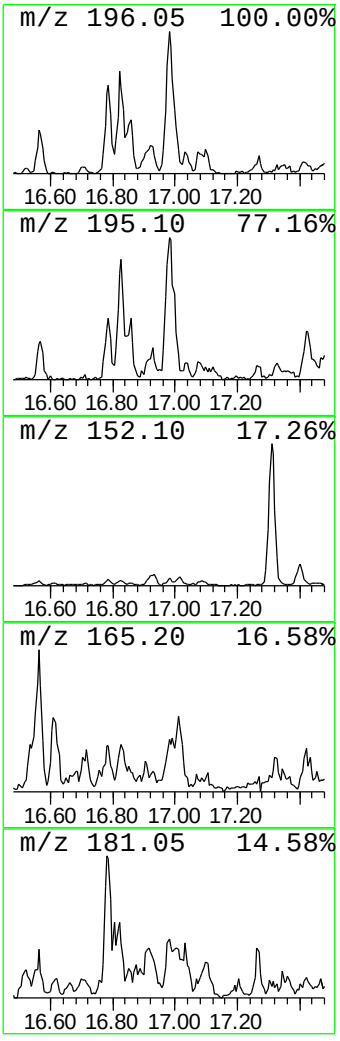
Peak Number 7 8-Dimethylaminonaphthalene-... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.98	3.75 ng/ul	305768	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	86
2	7-Methoxy-piperonylicacid	196	C9H8O5	000526-34-1	53
3	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	50
4	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	49
5	Methanone, diphenyl-, hydrazone	196	C13H12N2	005350-57-2	43





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Instrument : BNA_M
ClientSampleId : F5A62

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Quant Title : SVOA CALIBRATION

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

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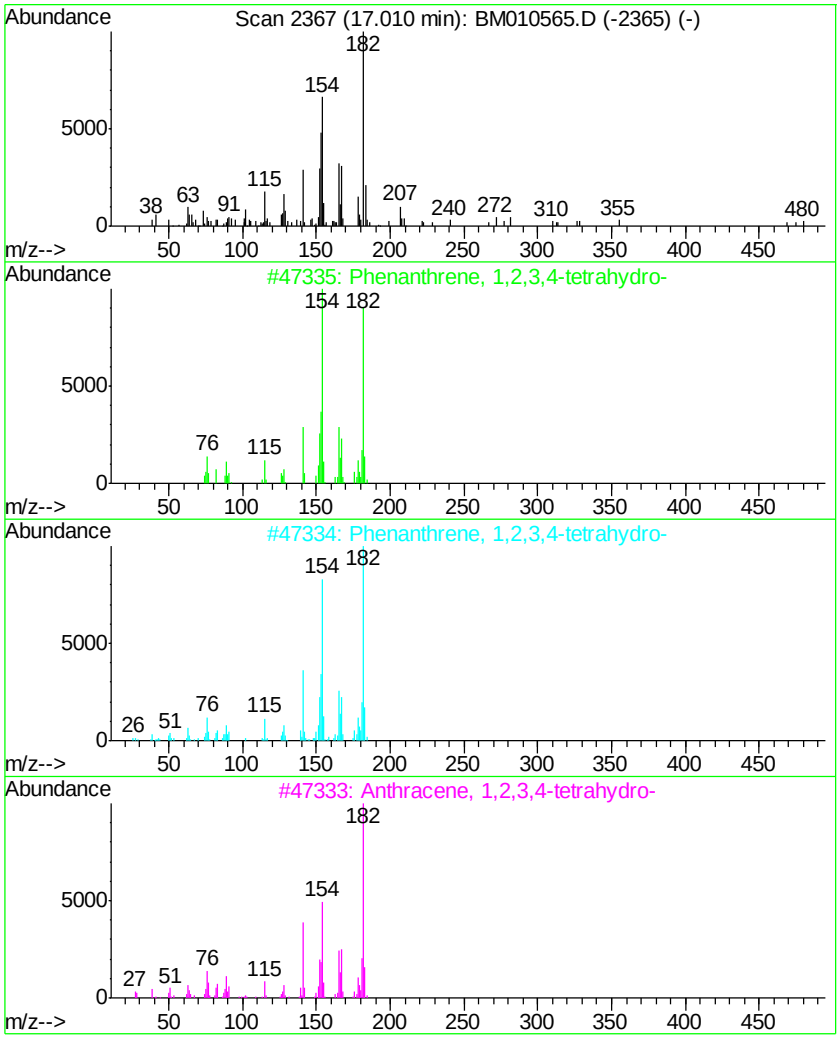
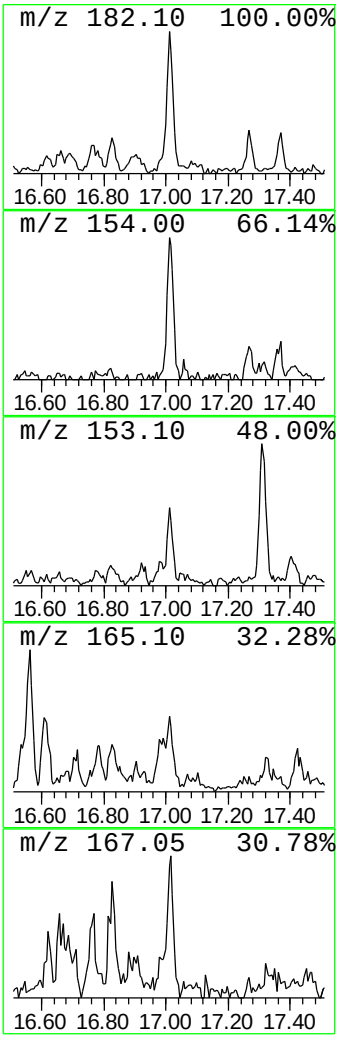
Peak Number 8 Phenanthrene, 1,2,3,4-tetra... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.01	3.39 ng/ul	276613	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	74
2	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	64
3	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	52
4	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	52
5	Benzenamine, 4-ethoxy-2-nitro-	182	C8H10N2O3	000616-86-4	43





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Instrument : BNA_M
ClientSampleId : F5A62

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Quant Title : SVOA CALIBRATION

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

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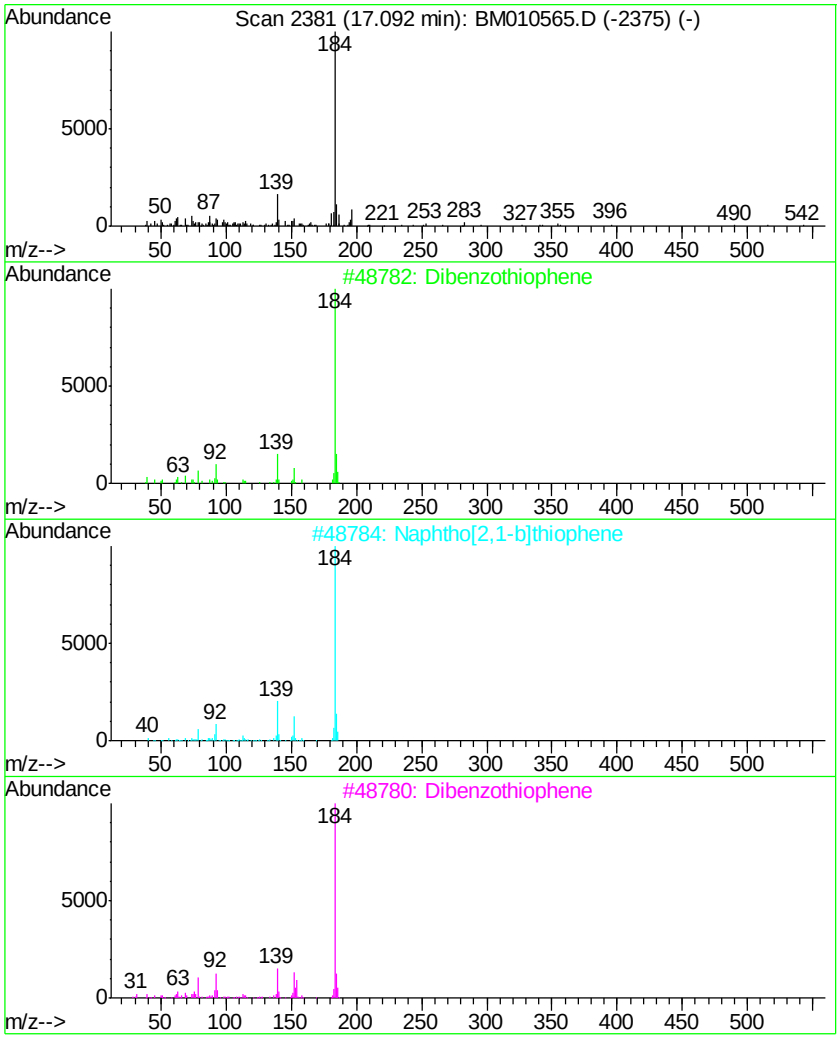
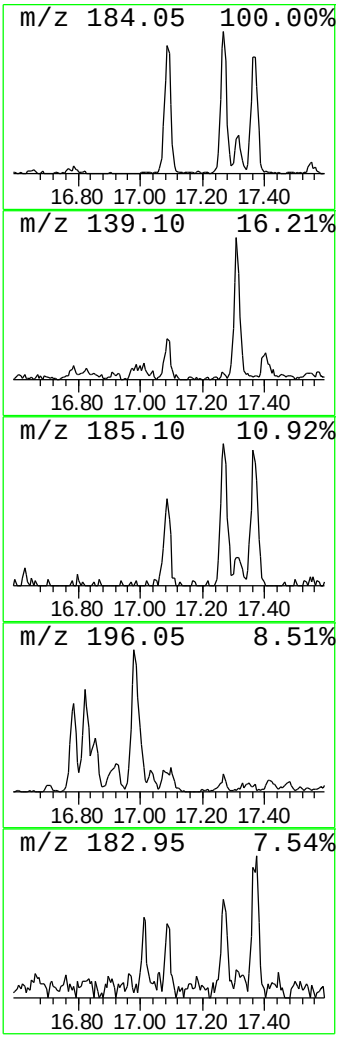
Peak Number 9 Dibenzothiophene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.09	3.60 ng/ul	293703	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	81
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	81
3	Dibenzothiophene	184	C12H8S	000132-65-0	74
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	74
5	Dibenzothiophene	184	C12H8S	000132-65-0	74





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Quant Title : SVOA CALIBRATION

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

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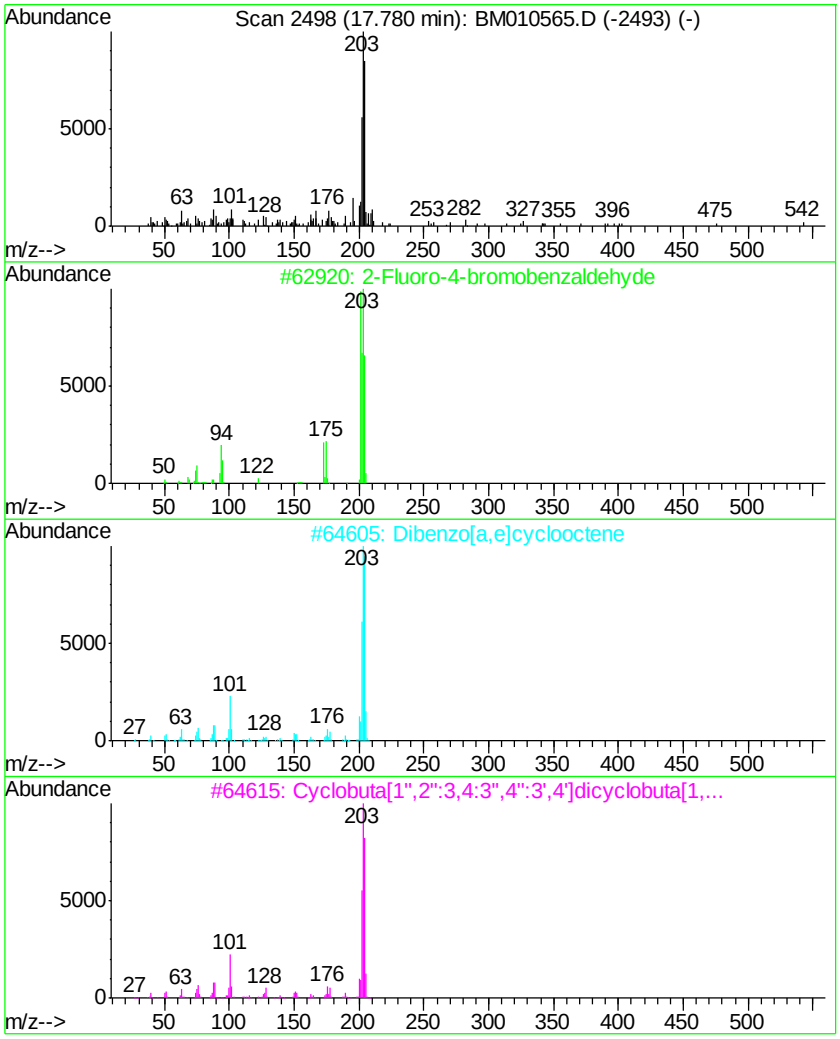
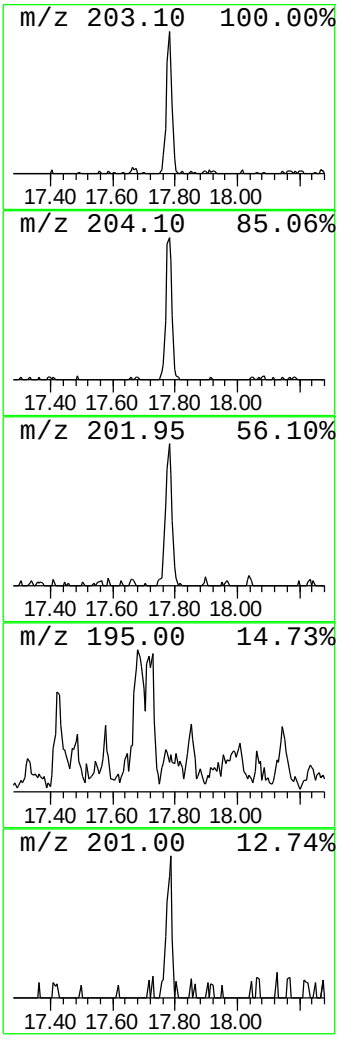
Peak Number 10 2-Fluoro-4-bromobenzaldehyde Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.78	3.16 ng/ul	258017	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Fluoro-4-bromobenzaldehyde	202	C7H4BrFO	057848-46-1	80
2	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	76
3	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	76
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64
5	Naphthalene, 1,8-di-1-propynyl-	204	C16H12	022360-77-6	64





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ClientSampleId : F5A62

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Quant Title : SVOA CALIBRATION

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

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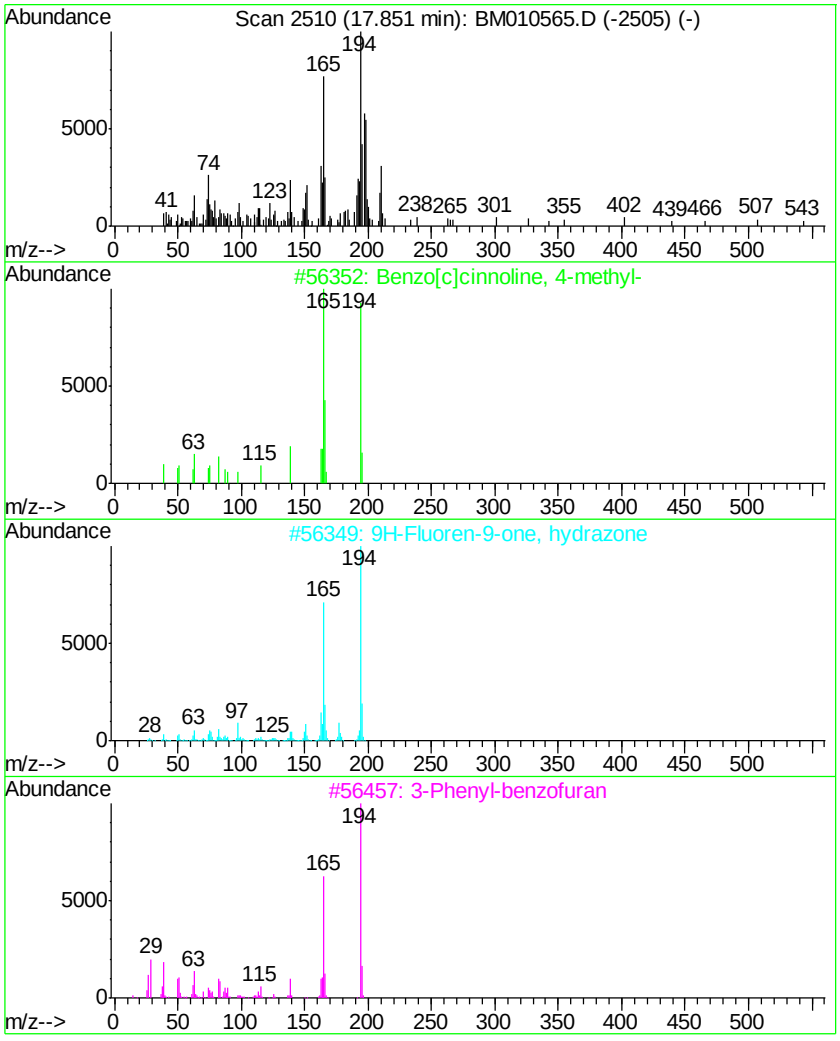
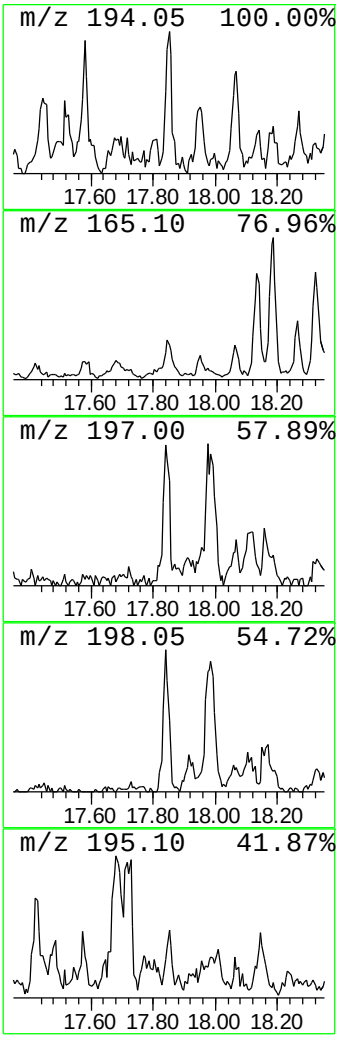
Peak Number 11 Benzo[c]cinnoline, 4-methyl- Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.85	2.35 ng/ul	191864	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]cinnoline, 4-methyl-	194	C13H10N2	019174-78-8	50
2	9H-Fluoren-9-one, hydrazone	194	C13H10N2	013629-22-6	46
3	3-Phenyl-benzofuran	194	C14H10O	029909-72-6	43
4	9H-Fluoren-9-one, hydrazone	194	C13H10N2	013629-22-6	43
5	9H-Fluoren-9-one, hydrazone	194	C13H10N2	013629-22-6	43





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Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

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Quant Title : SVOA CALIBRATION

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

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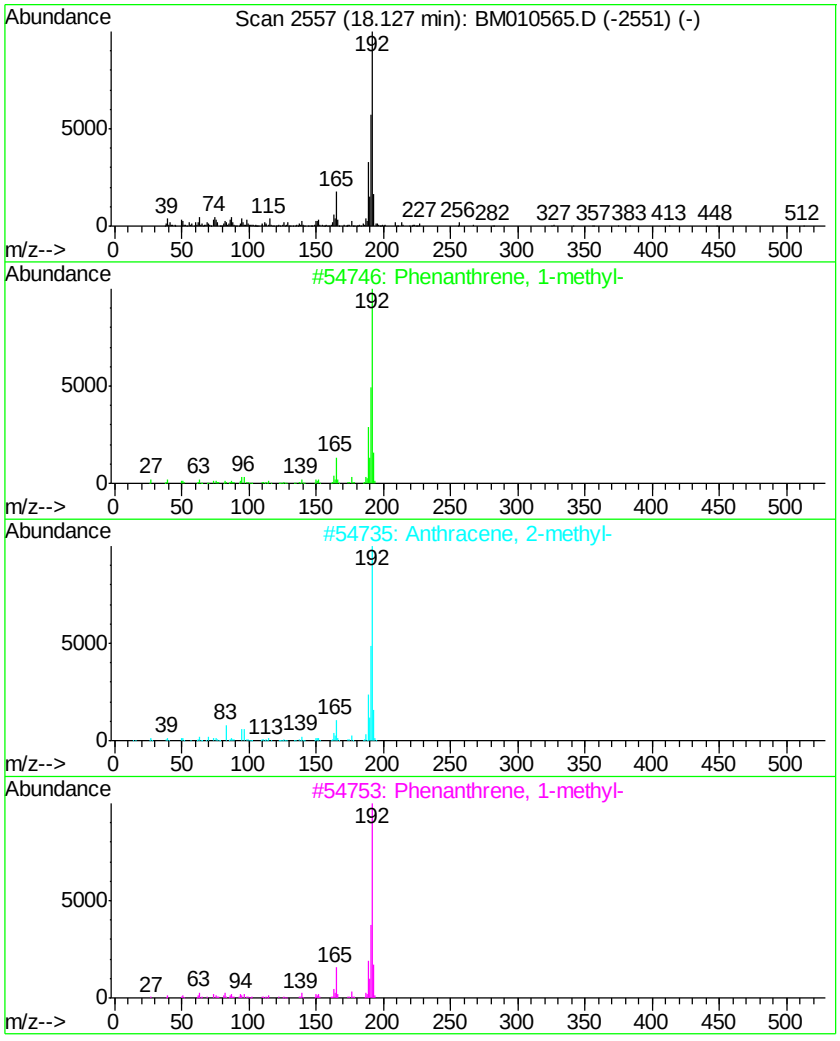
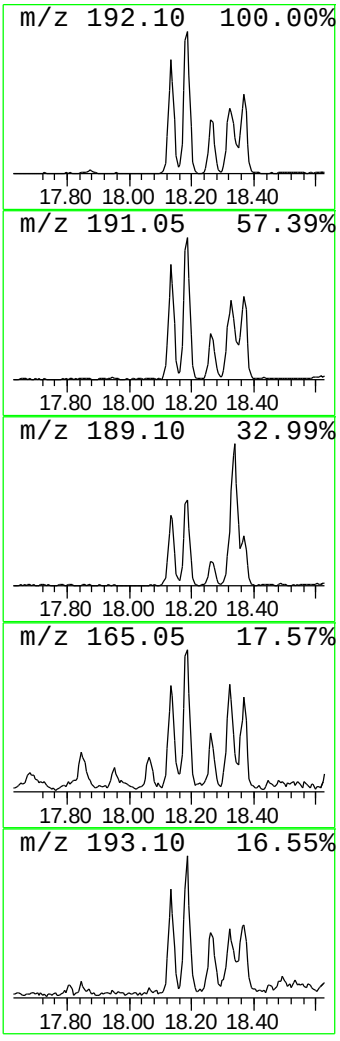
Peak Number 12 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.13	16.80 ng/ul	1370980	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





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ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

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Quant Title : SVOA CALIBRATION

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

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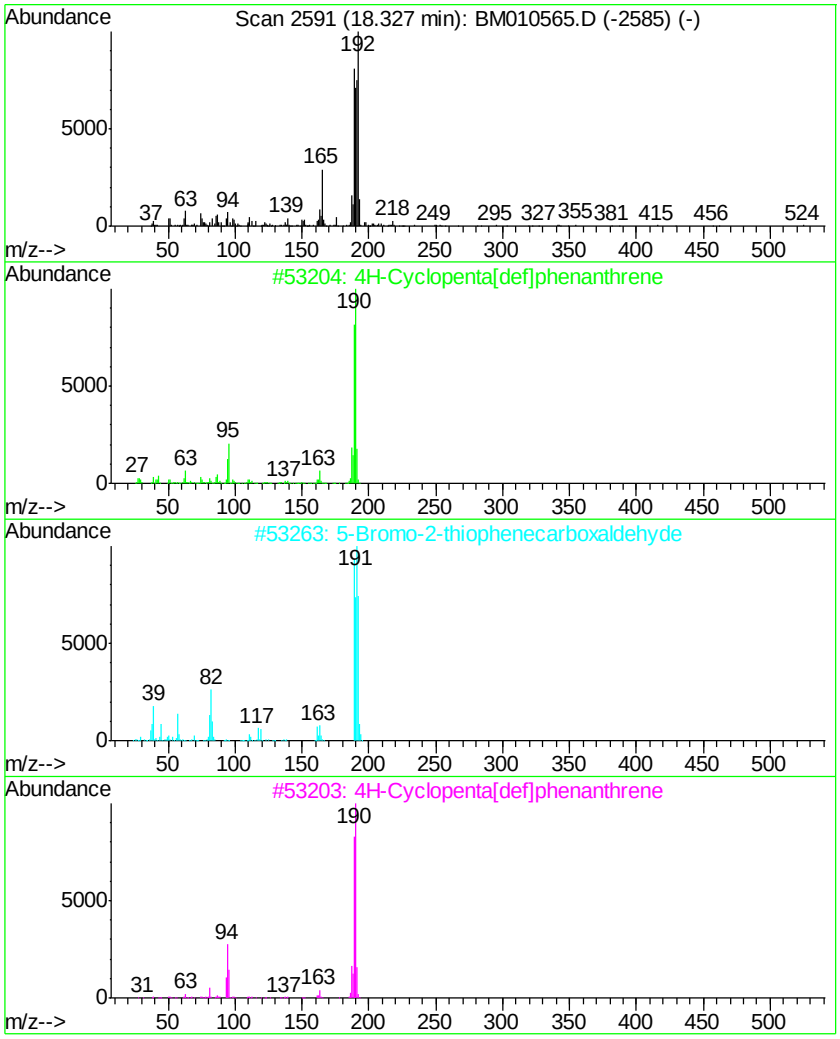
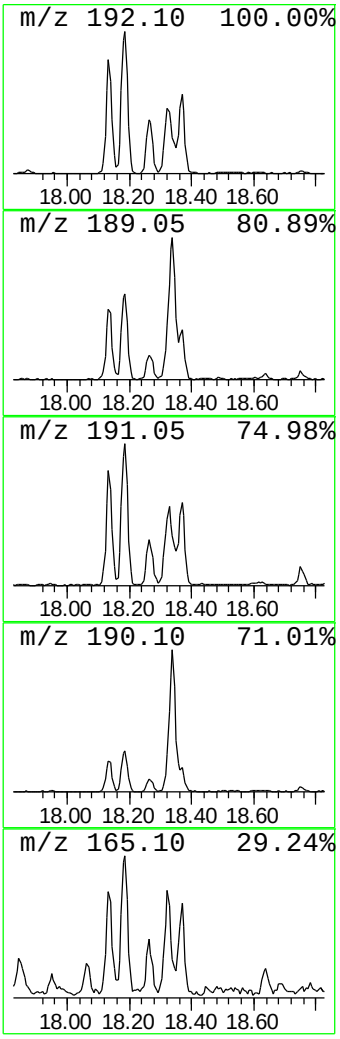
Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	20.54 ng/ul	1676170	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
2	5-Bromo-2-thiophenecarboxaldehyde	190	C5H3BrOS	004701-17-1	58
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	53
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50





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Quant Title : SVOA CALIBRATION

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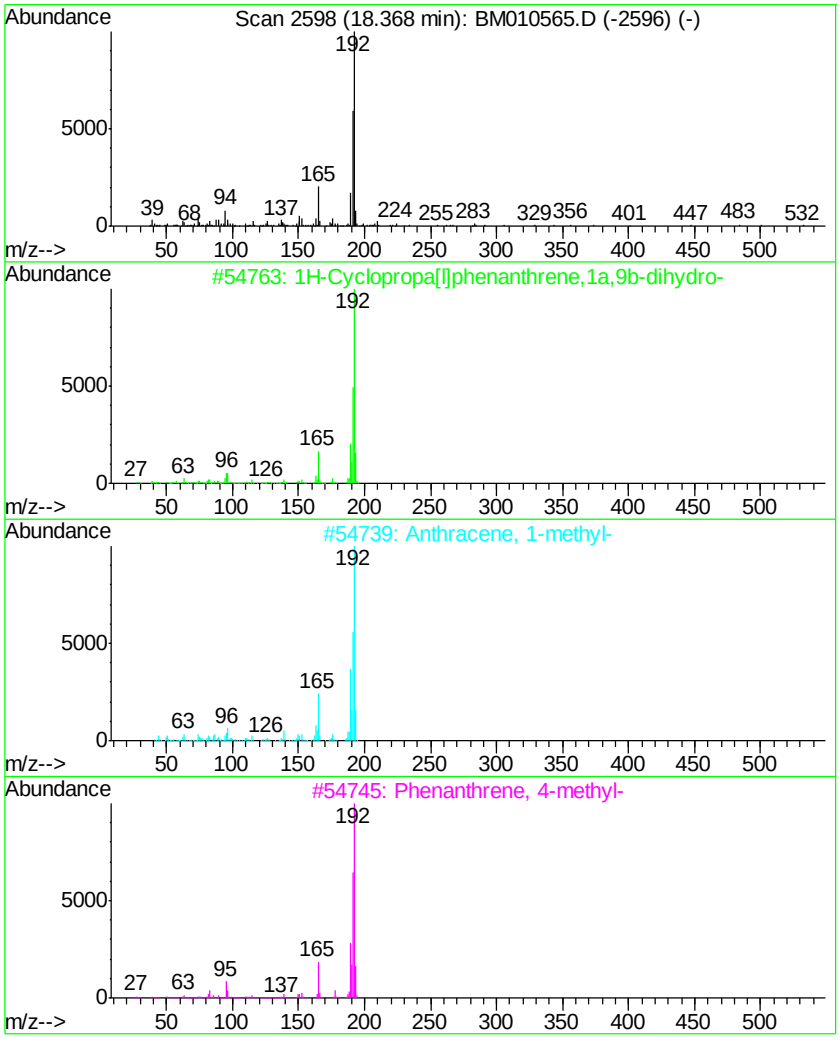
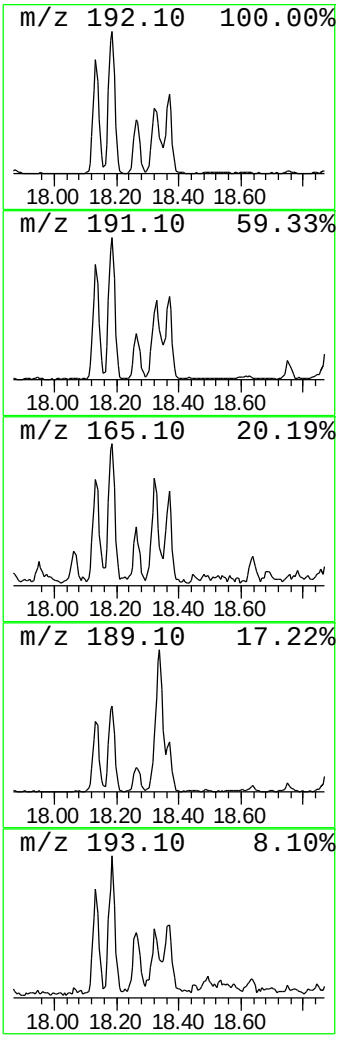
Peak Number 16 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.37	8.16 ng/ul	666019	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	80
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	72





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Quant Title : SVOA CALIBRATION

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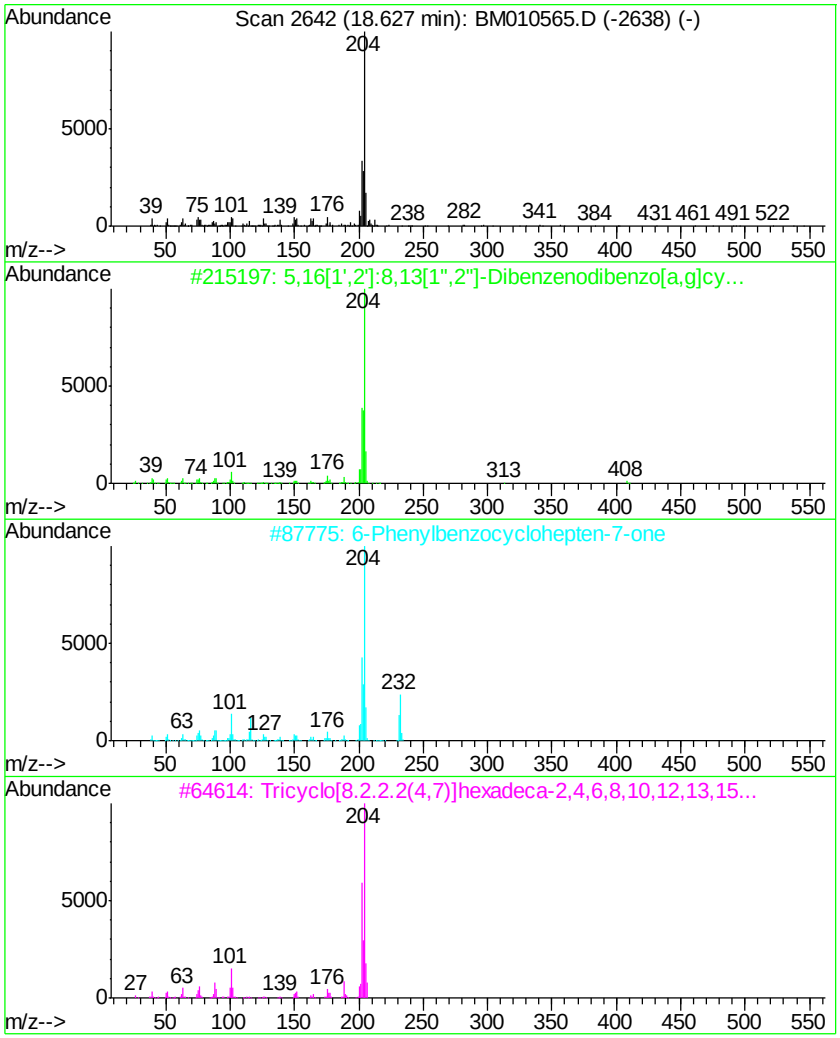
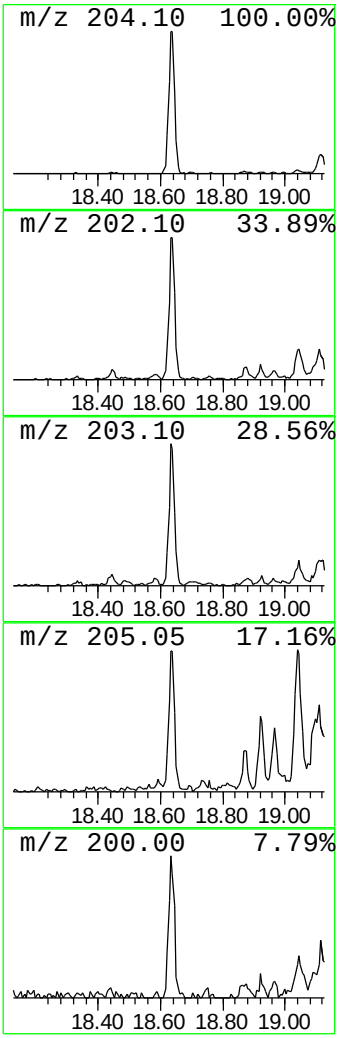
Peak Number 17 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.63	12.03 ng/ul	981331	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	64
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	62
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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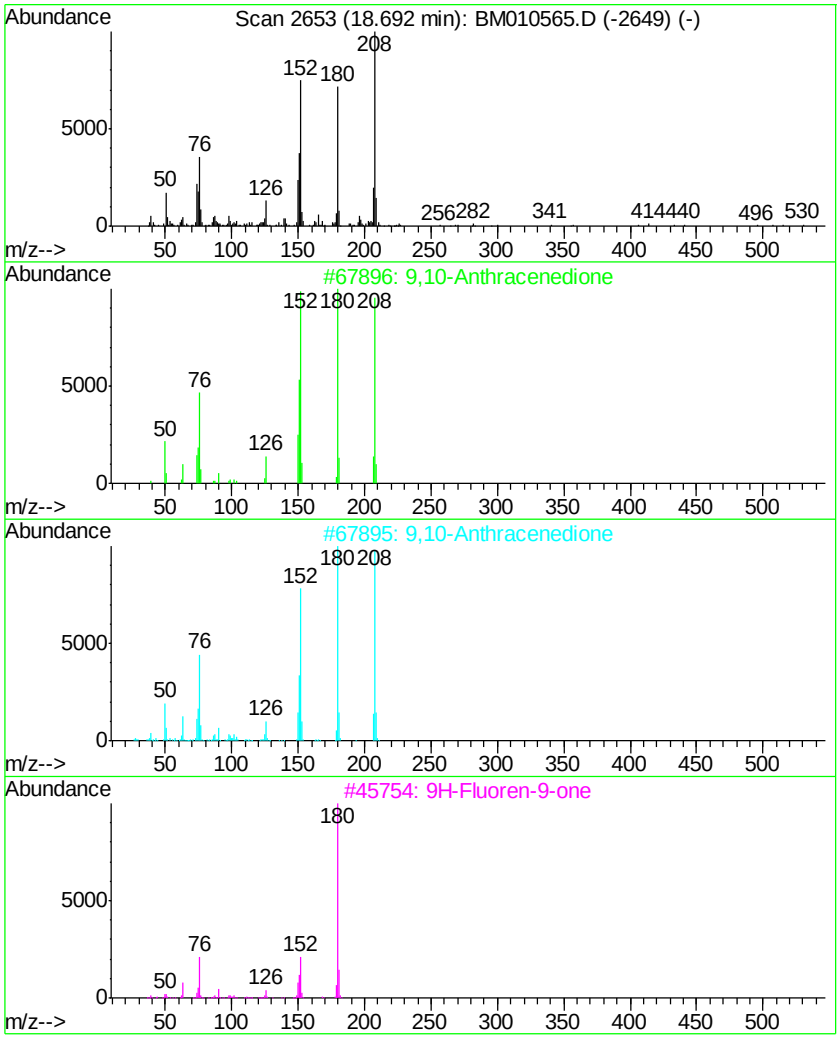
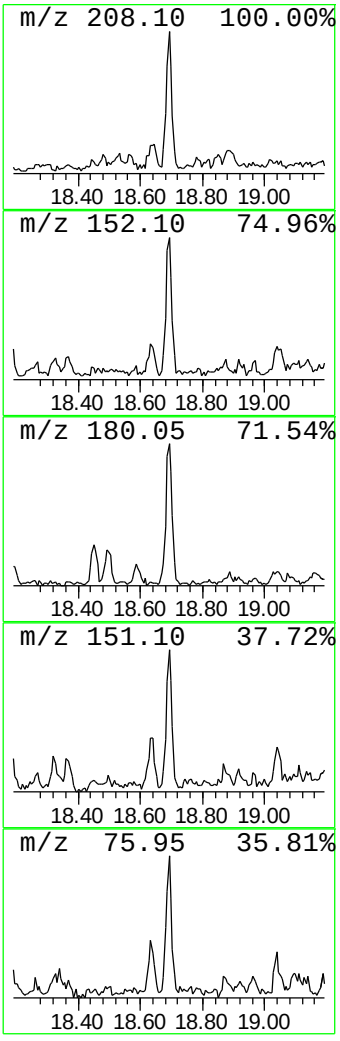
Peak Number 18 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.69	5.27 ng/ul	430110	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	78
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	76
5	5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	70





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ALS Vial : 8 Sample Multiplier: 1

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ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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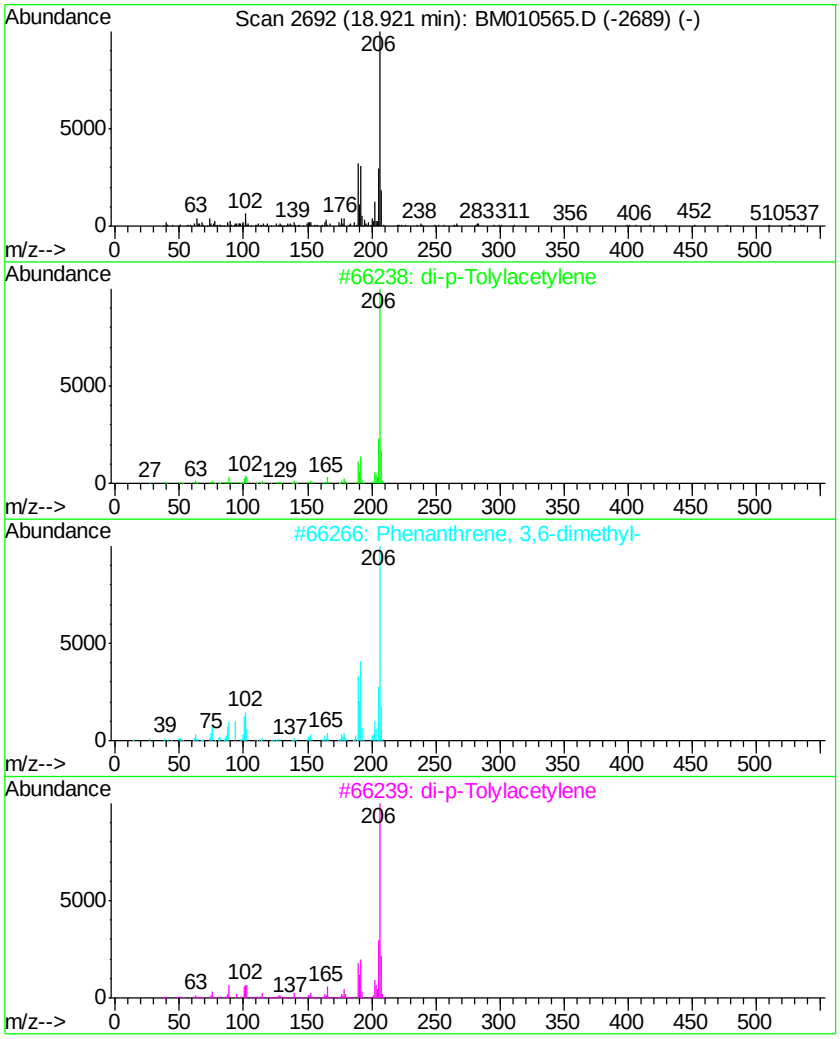
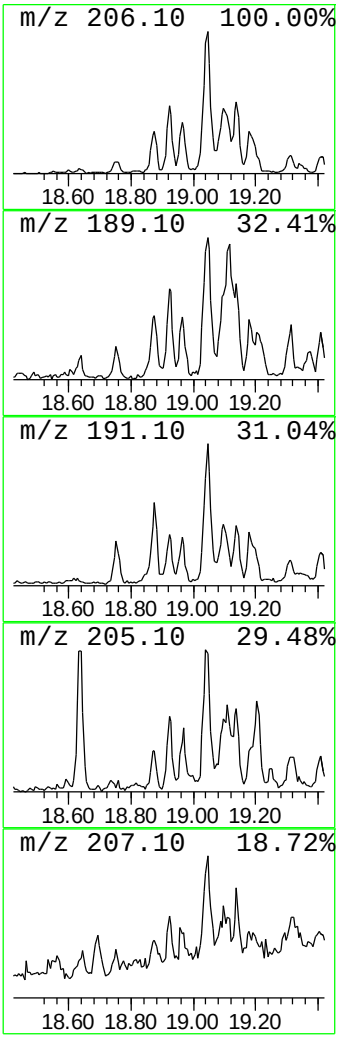
Peak Number 20 di-p-Tolylacetylene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	3.94 ng/ul	321643	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	87
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	86





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Acq On : 13 Jun 2017 18:06
Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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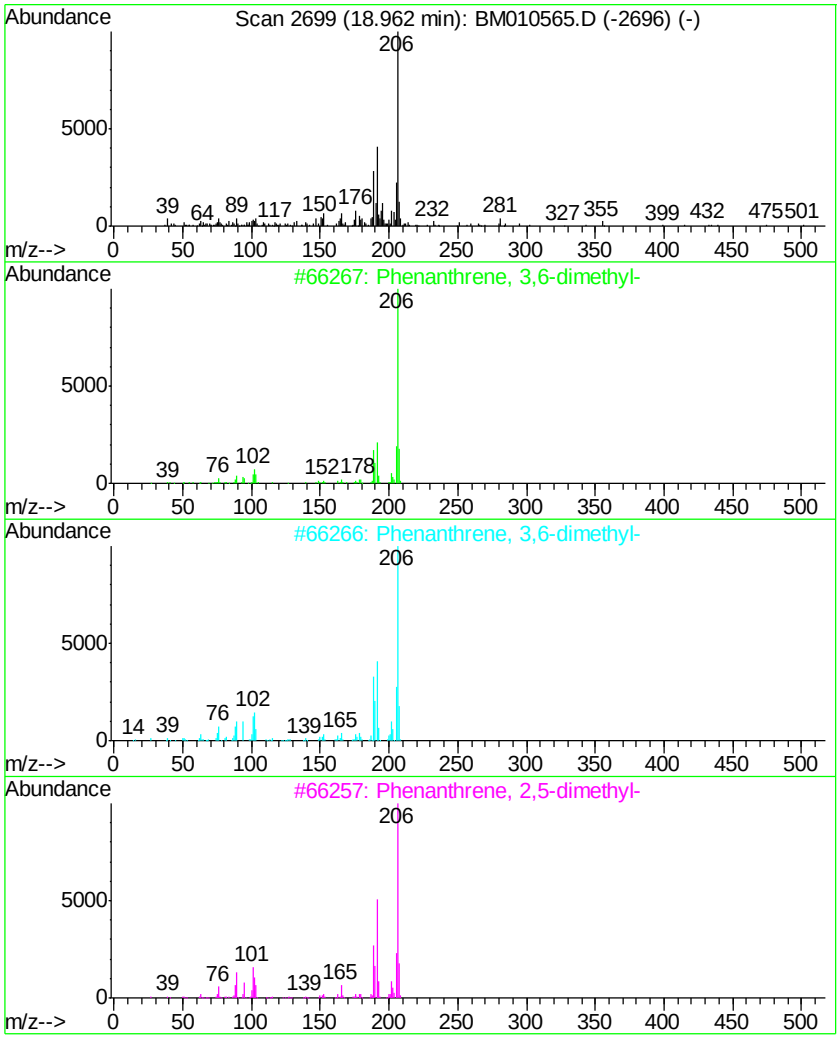
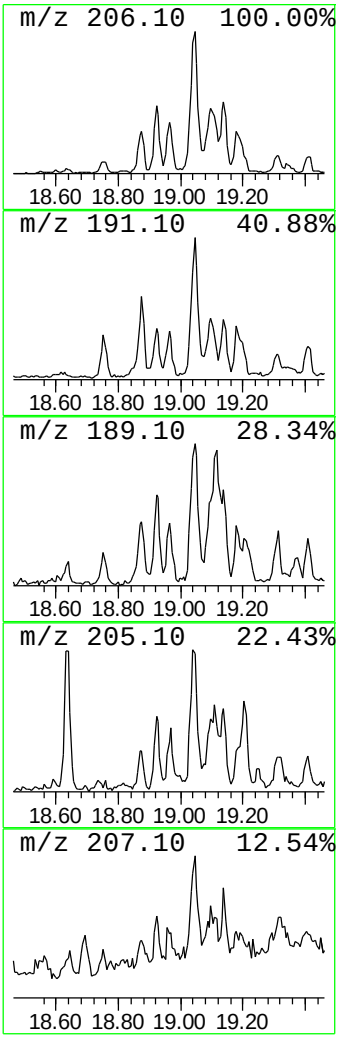
Peak Number 21 Phenanthrene, 3,6-dimethyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.96	3.33 ng/ul	271813	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	81
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	74
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	70





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Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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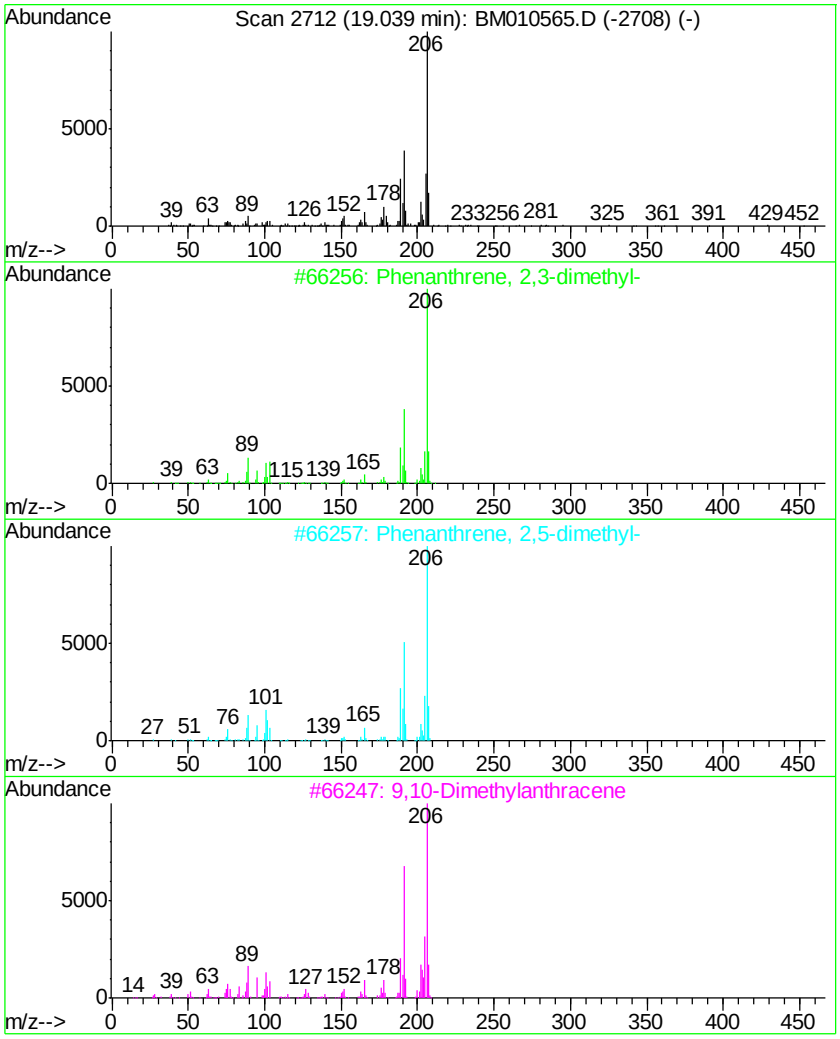
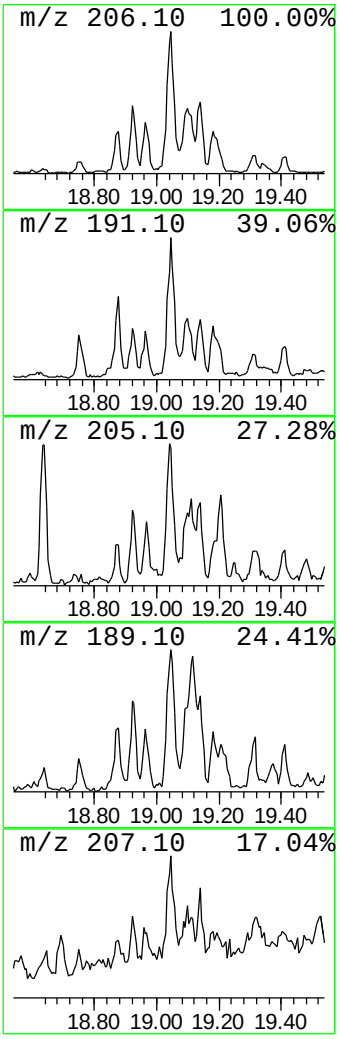
Peak Number 22 Phenanthrene, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.04	12.06 ng/ul	983722	Phenanthrene-d10	17.27

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





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Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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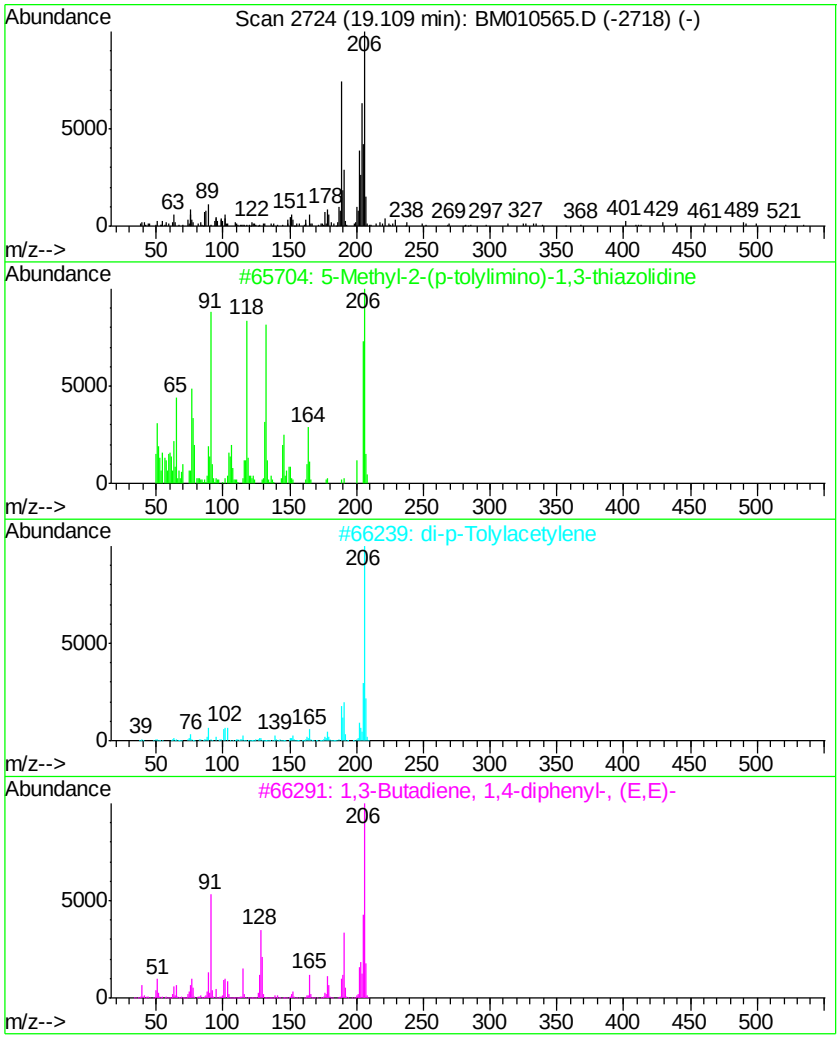
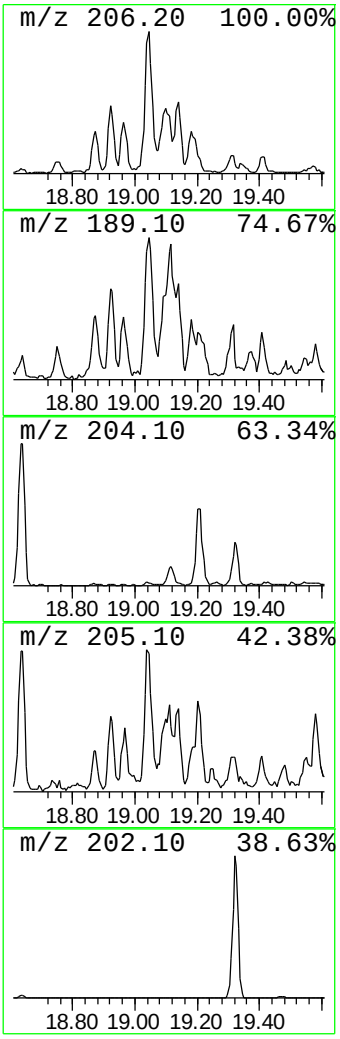
Peak Number 23 unknown-01 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.11	7.66 ng/ul	624587	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Methyl-2-(p-tolylimino)-1,3-th...	206	C11H14N2S	070446-87-6	38
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	38
3	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	35
4	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	35
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	35





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Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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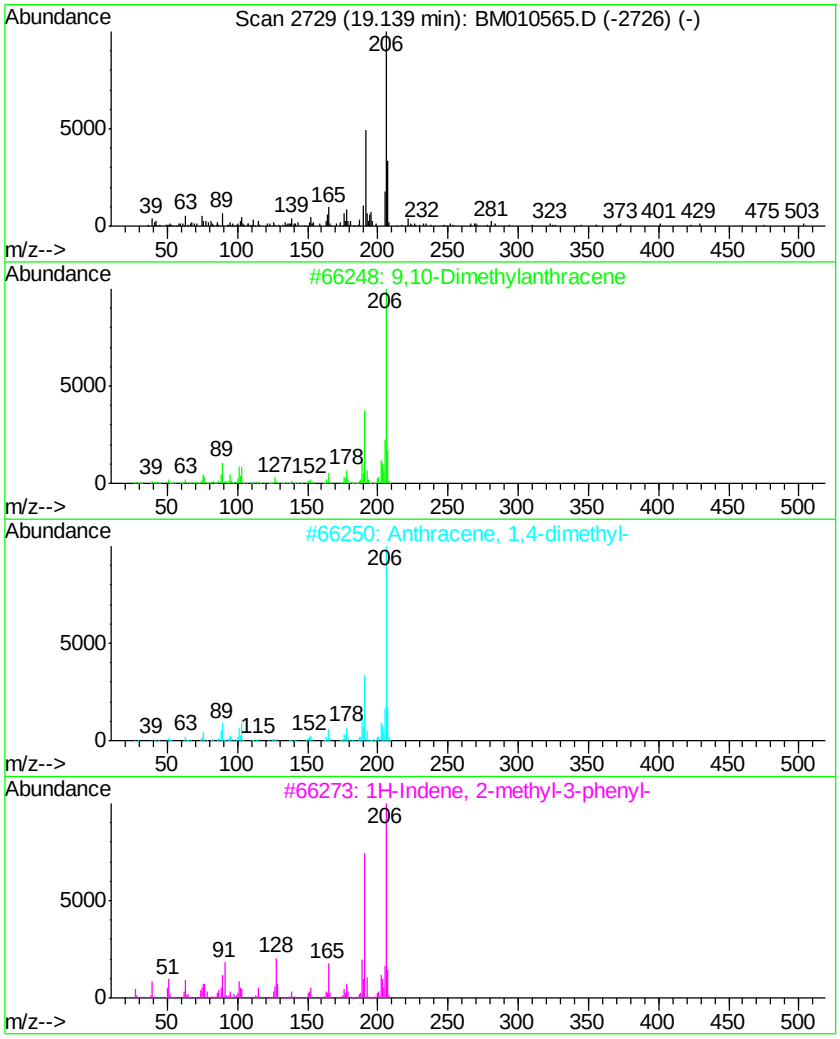
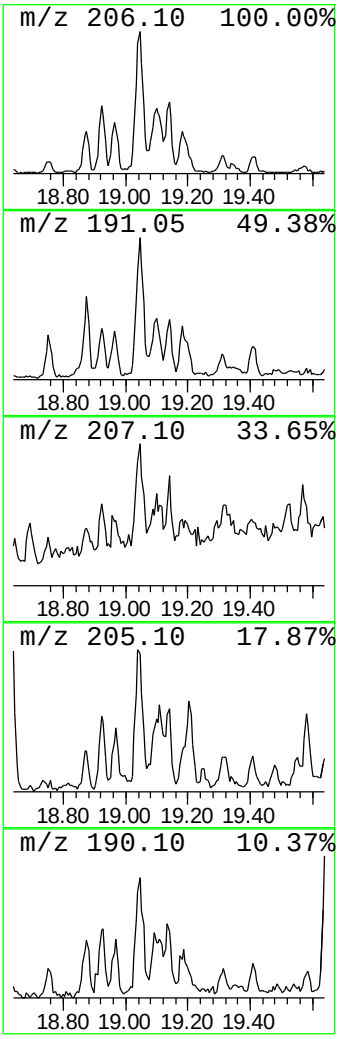
Peak Number 24 9,10-Dimethylanthracene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.14	4.49 ng/ul	366431	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83
2	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	80
3	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	72
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	72
5	2H,6H-Pyrido[2,1-b]-1,3-thiazine...	206	C10H10N2OS	1000277-29-6	72





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Acq On : 13 Jun 2017 18:06
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Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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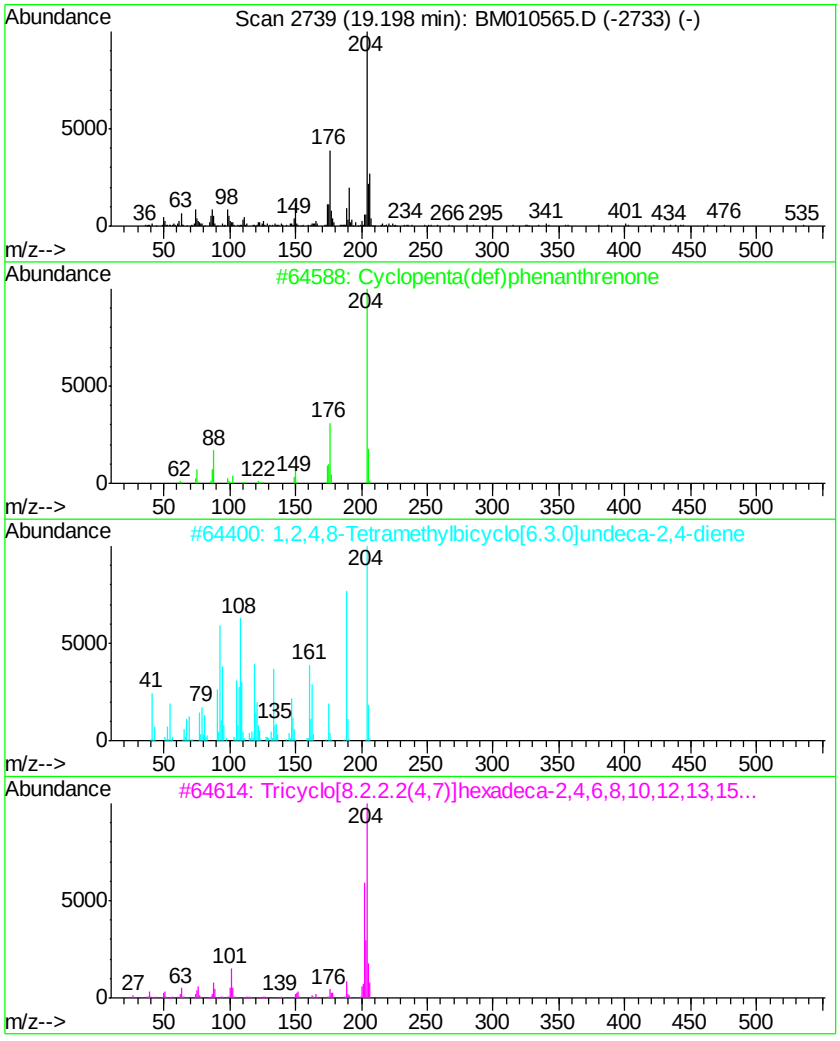
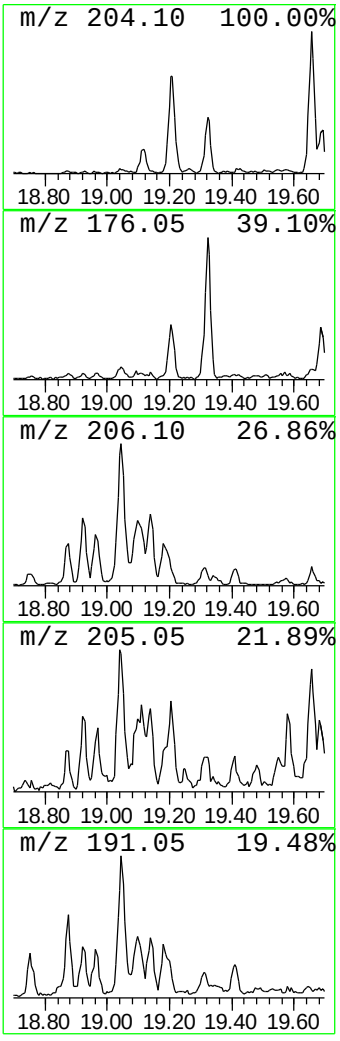
Peak Number 25 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.20	10.63 ng/ul	866933	Phenanthrene-d10	17.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	81
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	64
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	59
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
5	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	52





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Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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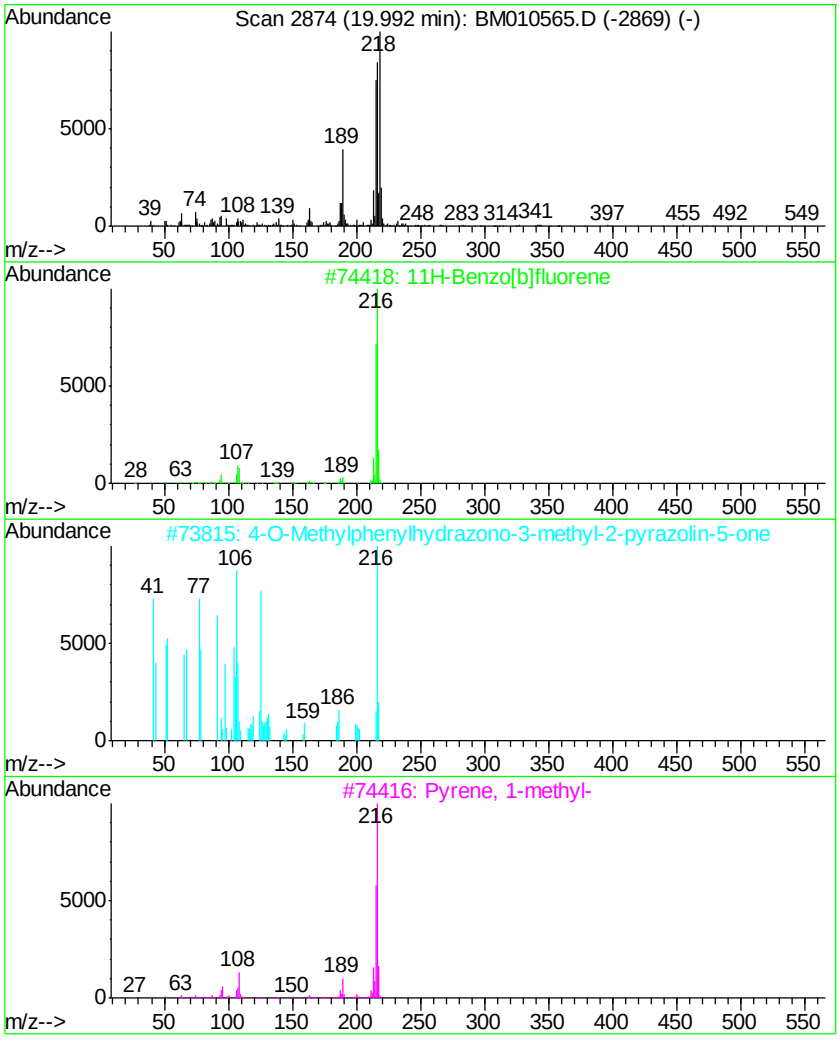
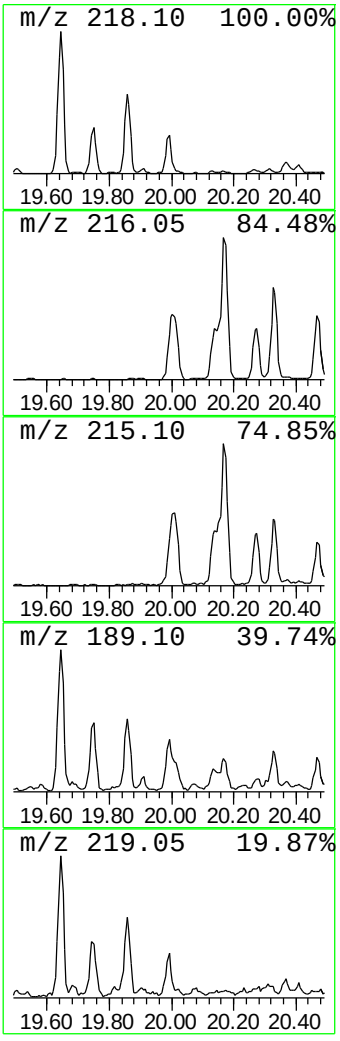
Peak Number 26 11H-Benzo[b]fluorene Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.99	3.27 ng/ul	2170630	Chrysene-d12	21.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	60
2	4-O-Methylphenylhydrazono-3-meth...	216	C11H12N4O	065078-60-6	59
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	52
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	49
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	49





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Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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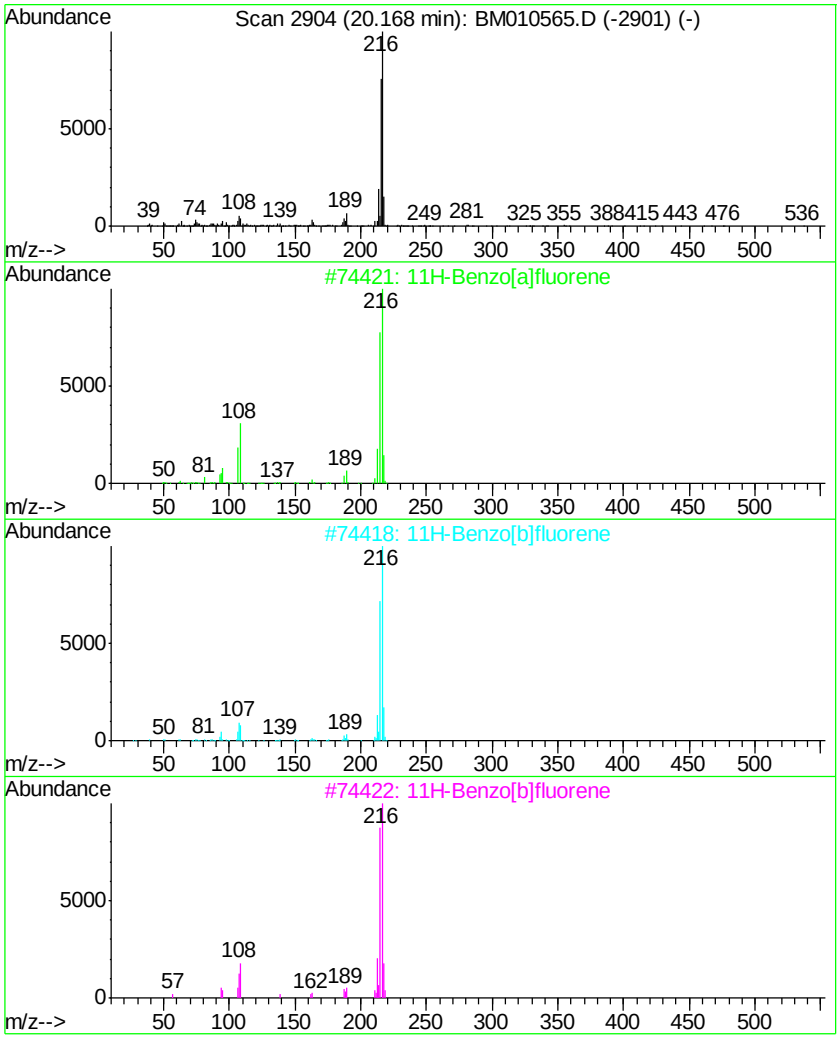
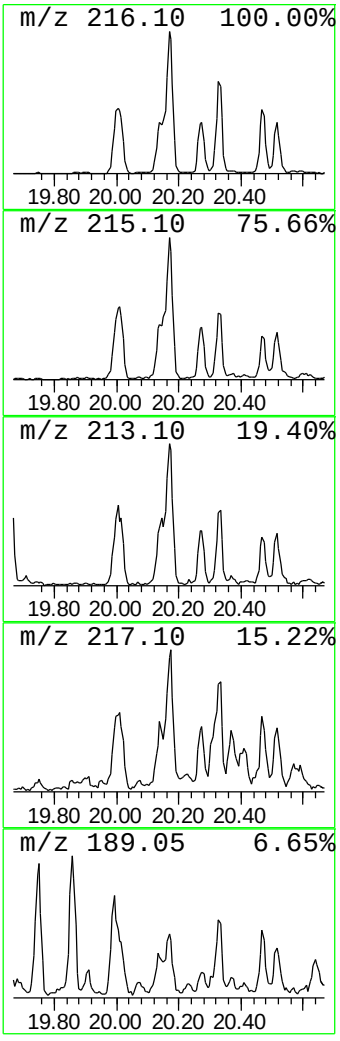
Peak Number 27 11H-Benzo[a]fluorene Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.17	2.92 ng/ul	1935510	Chrysene-d12	21.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	86
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80





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Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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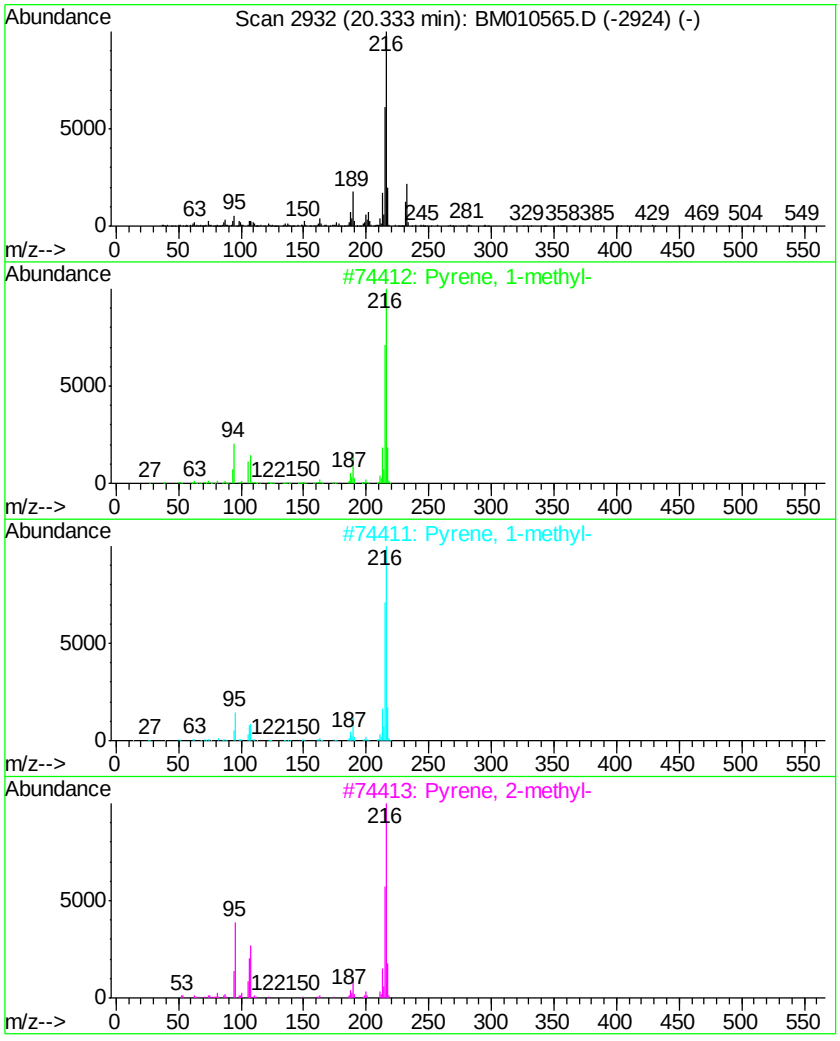
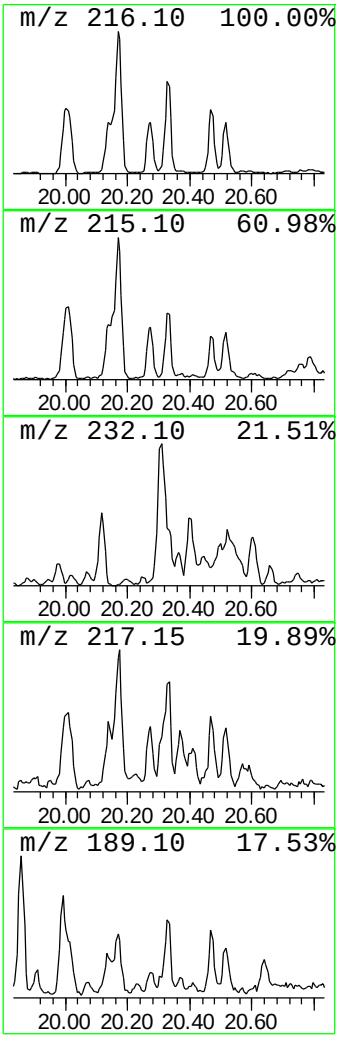
Peak Number 28 Pyrene, 1-methyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.33	3.04 ng/ul	2020920	Chrysene-d12	21.44

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	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	89





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Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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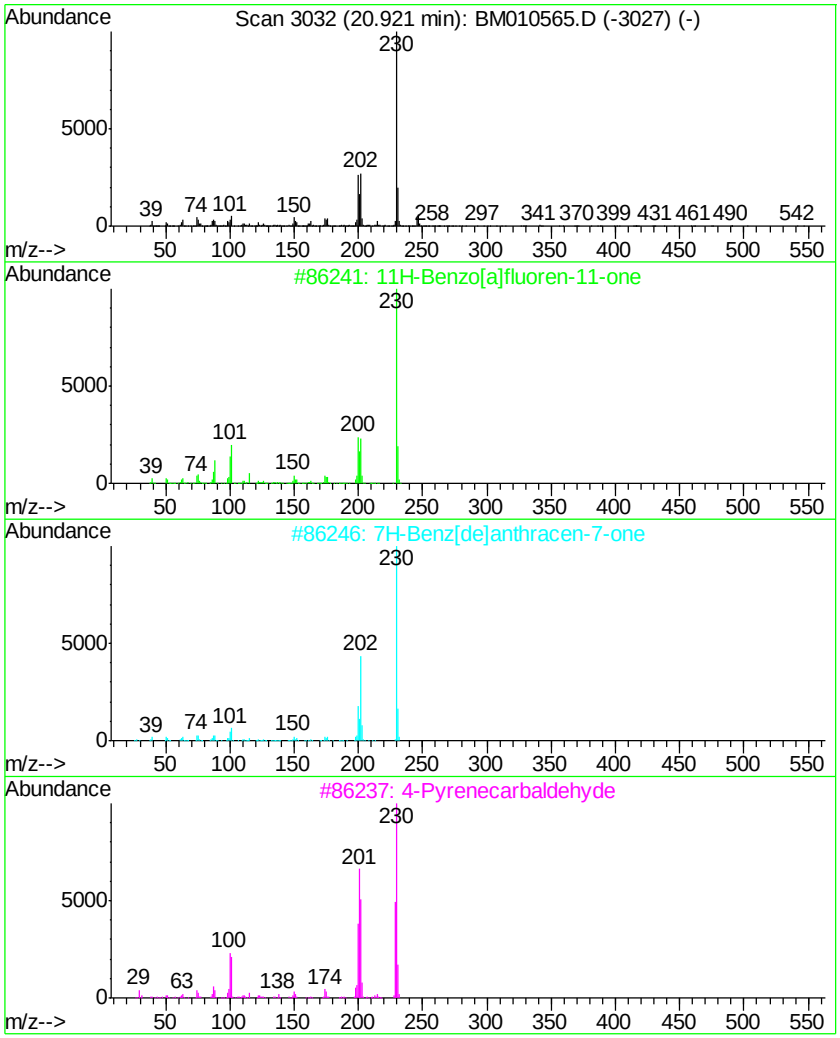
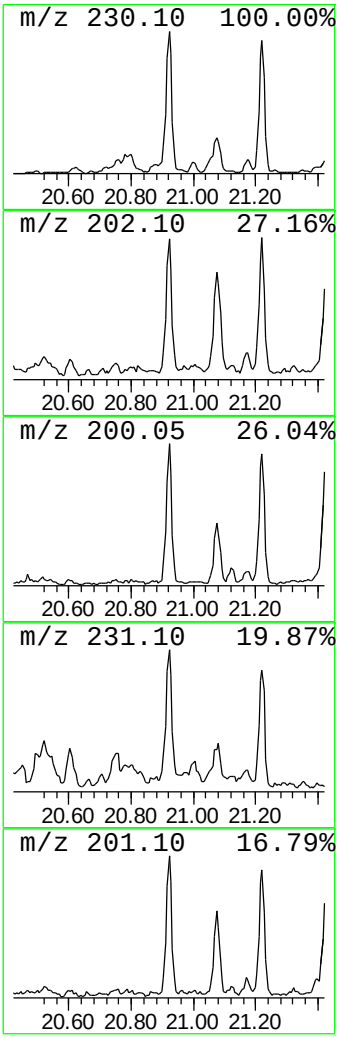
Peak Number 29 11H-Benzo[a]fluoren-11-one Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.92	3.59 ng/ul	2385540	Chrysene-d12	21.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	95
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
3	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	74
4	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	72
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64





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Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

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Quant Title : SVOA CALIBRATION

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

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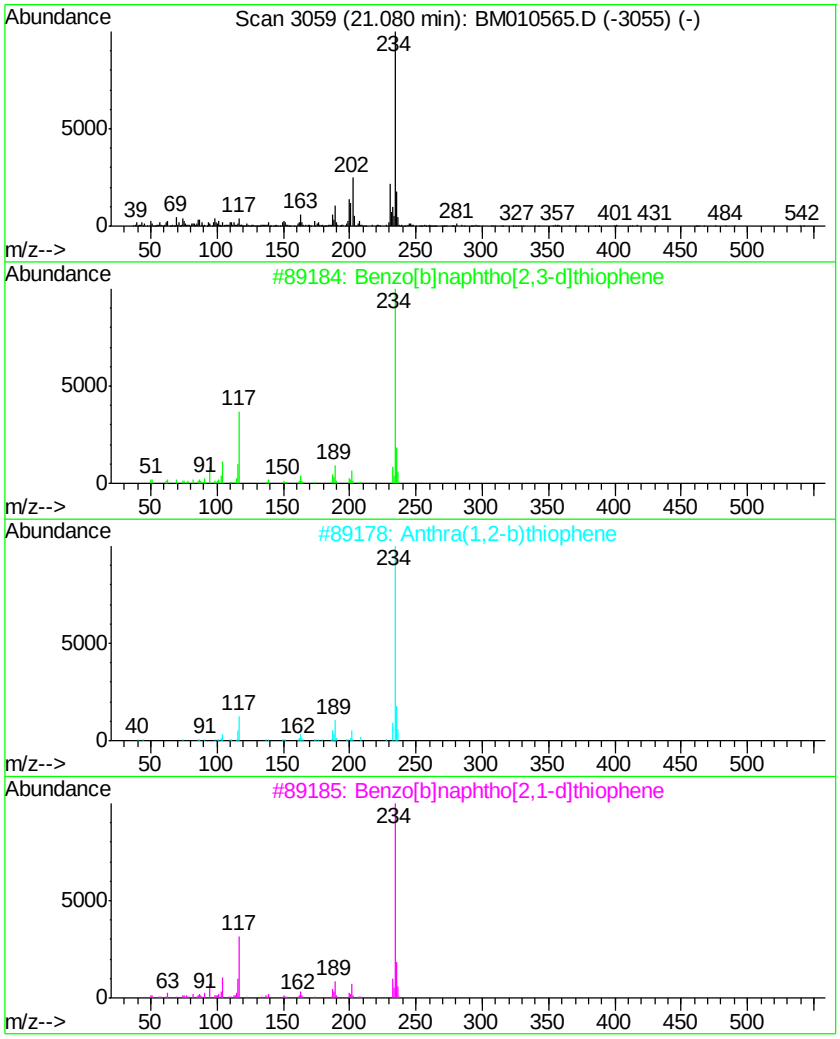
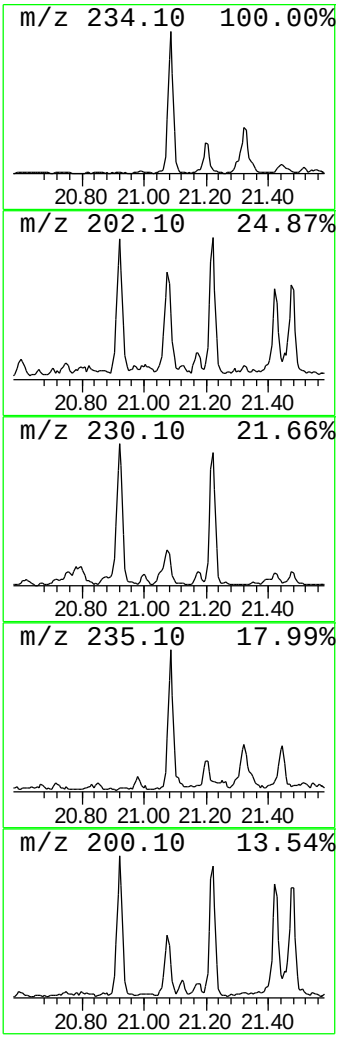
Peak Number 30 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.08	3.46 ng/ul	2295490	Chrysene-d12	21.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	70
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	64
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	62
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	62
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	58





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Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

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

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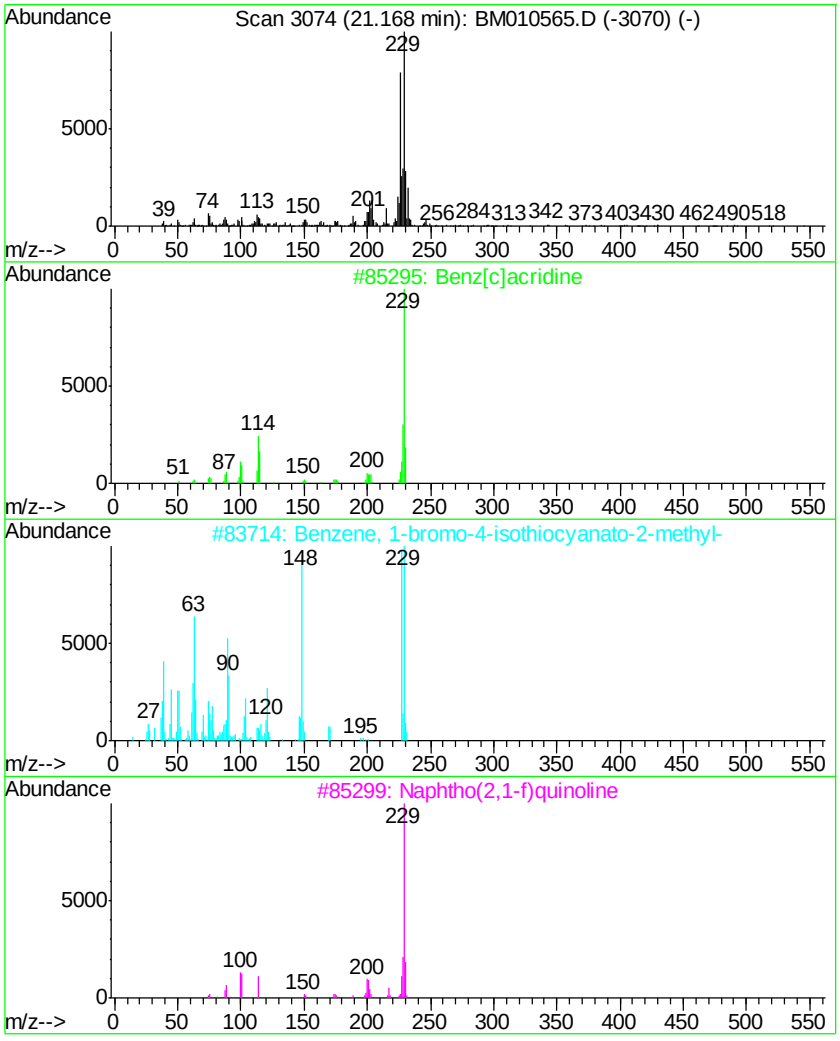
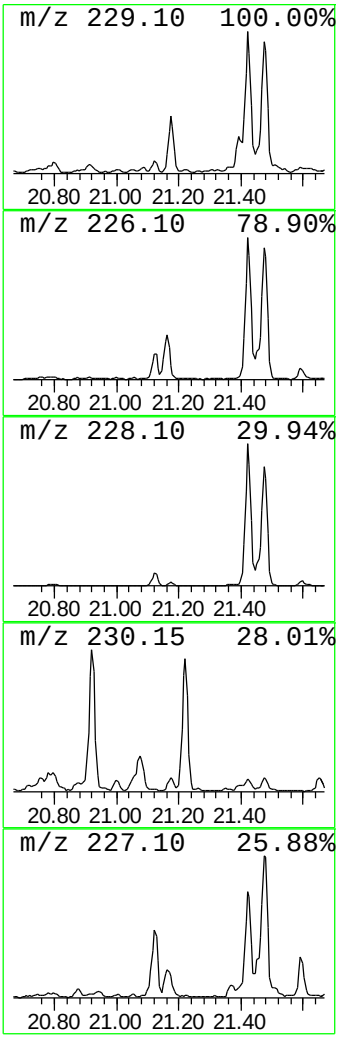
Peak Number 31 unknown-02 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.17	2.37 ng/ul	1575460	Chrysene-d12	21.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[c]acridine	229	C17H11N	000225-51-4	38
2	Benzene, 1-bromo-4-isothiocyanat...	227	C8H6BrNS	071672-88-3	35
3	Naphtho(2,1-f)quinoline	229	C17H11N	000218-08-6	35
4	Benzo(a)acridine	229	C17H11N	000225-11-6	27
5	Benzo(a)acridine	229	C17H11N	000225-11-6	27





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061317\
Data File : BM010565.D
Acq On : 13 Jun 2017 18:06
Operator : SJ/MA
Sample : I3522-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5A62

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.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
.beta.-copaene	14.44	4.2	ng/ul	252350	3	14.52	1190300	20.0
[1,1'-Biphenyl]-4...	15.85	3.6	ng/ul	212348	3	14.52	1190300	20.0
Pyridine, 4,4'-(1...	16.00	3.6	ng/ul	296782	4	17.27	1631780	20.0
3H-Benz[e]indene,...	16.56	3.7	ng/ul	298885	4	17.27	1631780	20.0
Naphtho[2,1-b]fur...	16.79	3.3	ng/ul	268868	4	17.27	1631780	20.0
9H-Fluoren-9-one	16.93	2.4	ng/ul	191936	4	17.27	1631780	20.0
8-Dimethylaminona...	16.98	3.8	ng/ul	305768	4	17.27	1631780	20.0
Phenanthrene, 1,2...	17.01	3.4	ng/ul	276613	4	17.27	1631780	20.0
Dibenzothiophene	17.09	3.6	ng/ul	293703	4	17.27	1631780	20.0
2-Fluoro-4-bromob...	17.78	3.2	ng/ul	258017	4	17.27	1631780	20.0
Benzo[c]cinnoline...	17.85	2.4	ng/ul	191864	4	17.27	1631780	20.0
Phenanthrene, 1-m...	18.13	16.8	ng/ul	1370980	4	17.27	1631780	20.0
4H-Cyclopenta[def...	18.33	20.5	ng/ul	1676170	4	17.27	1631780	20.0
1H-Cyclopropa[l]p...	18.37	8.2	ng/ul	666019	4	17.27	1631780	20.0
5,16[1',2']:8,13[...	18.63	12.0	ng/ul	981331	4	17.27	1631780	20.0
9,10-Anthracenedione	18.69	5.3	ng/ul	430110	4	17.27	1631780	20.0
di-p-Tolylacetylene	18.92	3.9	ng/ul	321643	4	17.27	1631780	20.0
Phenanthrene, 3,6...	18.96	3.3	ng/ul	271813	4	17.27	1631780	20.0
Phenanthrene, 2,3...	19.04	12.1	ng/ul	983722	4	17.27	1631780	20.0
unknown-01	19.11	7.7	ng/ul	624587	4	17.27	1631780	20.0
9,10-Dimethylanth...	19.14	4.5	ng/ul	366431	4	17.27	1631780	20.0
Cyclopenta(def)ph...	19.20	10.6	ng/ul	866933	4	17.27	1631780	20.0
11H-Benzo[b]fluorene	19.99	3.3	ng/ul	2170630	5	21.44	13275900	20.0
11H-Benzo[a]fluorene	20.17	2.9	ng/ul	1935510	5	21.44	13275900	20.0
Pyrene, 1-methyl-	20.33	3.0	ng/ul	2020920	5	21.44	13275900	20.0
11H-Benzo[a]fluor...	20.92	3.6	ng/ul	2385540	5	21.44	13275900	20.0
Benzo[b]naphtho[2...	21.08	3.5	ng/ul	2295490	5	21.44	13275900	20.0
unknown-02	21.17	2.4	ng/ul	1575460	5	21.44	13275900	20.0