LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

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:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.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	7.292	750	758	767	rBV	422504	758710	7.32%	0.442%
2	7.450	778	785	793	rBV	378299	623438	6.01%	0.364%
3	7.662	814	821	831	rBV	414145	750233	7.23%	0.437%
4	8.138	891	902	911	rBV	704141	1250736	12.06%	0.729%
5	8.848	1017	1023	1035	rBV2	516622	929086	8.96%	0.542%
6	9.312	1095	1102	1114	rBV	460160	832514	8.03%	0.485%
7	10.041	1218	1226	1235	rBV	393793	710667	6.85%	0.414%
8	10.593	1312	1320	1330	rBV	547306	1073419	10.35%	0.626%
9	10.969	1376	1384	1390	rBV	1094249	2038261	19.65%	1.189%
10	11.104	1399	1407	1416	rBV	324383	665673	6.42%	0.388%
11	12.620	1660	1665	1675	rVB	228878	375280	3.62%	0.219%
12	12.843	1694	1703	1709	rBV	309876	522691	5.04%	0.305%
13	13.959	1884	1893	1894	rBV2	198705	351787	3.39%	0.205%
14	14.112	1913	1919	1924	rVV	474690	843227	8.13%	0.492%
15	14.188	1924	1932	1937	rVV	1253523	2244137	21.64%	1.309%
16	14.235	1937	1940	1947	rVB	583049	839647	8.10%	0.490%
17	14.347	1954	1959	1963	rBV2	234794	380615	3.67%	0.222%
18	14.488	1976	1983	1998	rBV2	1327731	2923869	28.19%	1.705%
19	14.799	2024	2036	2042	rBV2	1919070	3352298	32.32%	1.955%
20	14.864	2042	2047	2053	rVV3	230380	428009	4.13%	0.250%
21	15.011	2064	2072	2080	rBV3	293991	701456	6.76%	0.409%
22	15.193	2096	2103	2110	rVV2	398527	723859	6.98%	0.422%
23	15.263	2110	2115	2121	rVV	268687	413015	3.98%	0.241%
24	15.410	2131	2140	2144	rBV2	220556	446199	4.30%	0.260%
25	15.580	2161	2169	2172	rBV5	157424	380982	3.67%	0.222%
26	15.792	2200	2205	2209	rVV	1944765	2954737	28.49%	1.723%
27	15.845	2209	2214	2221	rVV	878216	1546882	14.91%	0.902%
28	15.915	2221	2226	2232	rVV2	454490	802430	7.74%	0.468%
29	16.138	2256	2264	2271	rVB2	243957	503219	4.85%	0.293%
30	16.285	2284	2289	2297	rVB	263381	492330	4.75%	0.287%
31	16.849	2376	2385	2390	rBV2	421673	924390	8.91%	0.539%
32	16.902	2390	2394	2399	rVV2	295767	464430	4.48%	0.271%
33	17.002	2407	2411	2416	rVB2	229408	349518	3.37%	0.204%
34	17.078	2416	2424	2428	rBV5	181493	414373	4.00%	0.242%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

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:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Title : SVOA CALIBRATION

35	17.208	2442	2446	2453	rVV2	265600	453267	4.37%	0.264%
36	17.278	2453	2458	2464	rVV	252669	417732	4.03%	0.244%
37	17.372	2470	2474	2481	rVB	632477	952231	9.18%	0.555%
38	17.560	2499	2506	2509	rBV2	2362390	3954301	38.13%	2.306%
39	17.601	2509	2513	2518	rVV	6439227	10371933	100.00%	6.048%
40	17.654	2518	2522	2526	rVV2	1911835	3032708	29.24%	1.768%
41	17.689	2526	2528	2533	rVV	667973	856930	8.26%	0.500%
42	17.965	2568	2575	2582	rBV2	306765	650131	6.27%	0.379%
43	18.071	2589	2593	2598	rBV	291537	415344	4.00%	0.242%
44	18.142	2600	2605	2612	rVB	629760	971169	9.36%	0.566%
45	18.283	2624	2629	2637	rVB	353003	749903	7.23%	0.437%
46	18.435	2649	2655	2659	rVV	1992049	3169853	30.56%	1.848%
47	18.482	2659	2663	2669	rVB	2241051	3393877	32.72%	1.979%
48	18.565	2672	2677	2682	rBV	303172	456940	4.41%	0.266%
49	18.629	2682	2688	2691	rBV2	2026803	3912565	37.72%	2.281%
50	18.664	2691	2694	2700	rVB	1457363	2085454	20.11%	1.216%
51	18.929	2734	2739	2743	rBV	1181158	1692317	16.32%	0.987%
52	18.976	2743	2747	2756	rVB2	1122326	1805694	17.41%	1.053%
53	19.170	2772	2780	2785	rBV3	473607	1011094	9.75%	0.590%
54	19.223	2785	2789	2792	rVV	602202	824922	7.95%	0.481%
55	19.264	2792	2796	2800	rVB2	434843	589263	5.68%	0.344%
56	19.346	2804	2810	2814	rBV	1343928	2178007	21.00%	1.270%
57	19.399	2814	2819	2823	rVV2	599760	1420851	13.70%	0.829%
58	19.434	2823	2825	2829	rVB	452776	554715	5.35%	0.323%
59	19.493	2829	2835	2845	rBV5	625406	1577577	15.21%	0.920%
60	19.616	2849	2856	2861	rVV	6348849	10237451	98.70%	5.969%
61	19.669	2861	2865	2868	rVV	374303	525280	5.06%	0.306%
62	19.704	2868	2871	2876	rVB2	446433	615218	5.93%	0.359%
63	19.763	2876	2881	2885	rBV	550322	851301	8.21%	0.496%
64	19.804	2885	2888	2892	rVV2	304775	457664	4.41%	0.267%
65	19.851	2892	2896	2905	rVB2	413613	857994	8.27%	0.500%
66	19.945	2906	2912	2914	rVV2	2848764	4635351	44.69%	2.703%
67	19.980	2914	2918	2924	rVB	6299890	9724611	93.76%	5.670%
68	20.039	2924	2928	2933	rVB	700692	1027174	9.90%	0.599%
69	20.151	2933	2947	2952	rBV2	495613	1317513	12.70%	0.768%
70	20.198	2952	2955	2963	rVB3	279049	520536	5.02%	0.304%
71	20.298	2965	2972	2978	rBV3	817584	2004390	19.33%	1.169%

LSC Area Percent Report

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Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

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:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Title : SVOA CALIBRATION

72	20.462	2989	3000	3007	rVB	1425631	3432368	33.09%	2.001%
73	20.562	3013	3017	3021	rVV	782934	1043154	10.06%	0.608%
74	20.621	3021	3027	3031	rVV2	1018593	1561907	15.06%	0.911%
75	20.762	3047	3051	3055	rVV	858826	1199182	11.56%	0.699%
76	20.809	3055	3059	3069	rVB	798122	1433776	13.82%	0.836%
77	21.243	3128	3133	3140	rVB	732082	1207134	11.64%	0.704%
78	21.437	3157	3166	3169	rVV3	695636	1546711	14.91%	0.902%
79	21.478	3169	3173	3178	rVV	761825	1238013	11.94%	0.722%
80	21.531	3178	3182	3187	rVV2	519840	1002435	9.66%	0.585%
81	21.590	3187	3192	3207	rVB2	669879	1502955	14.49%	0.876%
82	21.866	3231	3239	3245	rBV4	3315967	9400261	90.63%	5.481%
83	21.925	3245	3249	3261	rVB	2712520	4906570	47.31%	2.861%
84	22.083	3272	3276	3282	rBV3	232168	408516	3.94%	0.238%
85	22.154	3283	3288	3297	rVV3	415779	913312	8.81%	0.533%
86	22.307	3307	3314	3319	rBV3	268233	652168	6.29%	0.380%
87	22.636	3362	3370	3376	rVV	638117	1510563	14.56%	0.881%
88	22.712	3379	3383	3391	rVB	389413	782013	7.54%	0.456%
89	22.923	3415	3419	3424	rBV2	304769	527488	5.09%	0.308%
90	23.787	3560	3566	3576	rVB7	257305	670477	6.46%	0.391%
91	24.192	3626	3635	3642	rBV3	1354969	4632124	44.66%	2.701%
92	24.462	3676	3681	3688	rVB2	223925	545212	5.26%	0.318%
93	24.956	3756	3765	3772	rBV2	705727	2095233	20.20%	1.222%
94	25.038	3772	3779	3785	rVV2	911517	2646585	25.52%	1.543%
95	25.115	3785	3792	3806	rVB	1255649	3699701	35.67%	2.157%
96	25.273	3809	3819	3827	rBV3	1322988	3981905	38.39%	2.322%
97	25.350	3829	3832	3849	rVB4	313241	1030899	9.94%	0.601%
98	26.448	4013	4019	4030	rVB2	166132	472662	4.56%	0.276%
99	29.162	4469	4481	4503	rVB4	467072	2536287	24.45%	1.479%
100	30.372	4676	4687	4704	rVB3	335726	1631781	15.73%	0.951%

Sum of corrected areas: 171496770

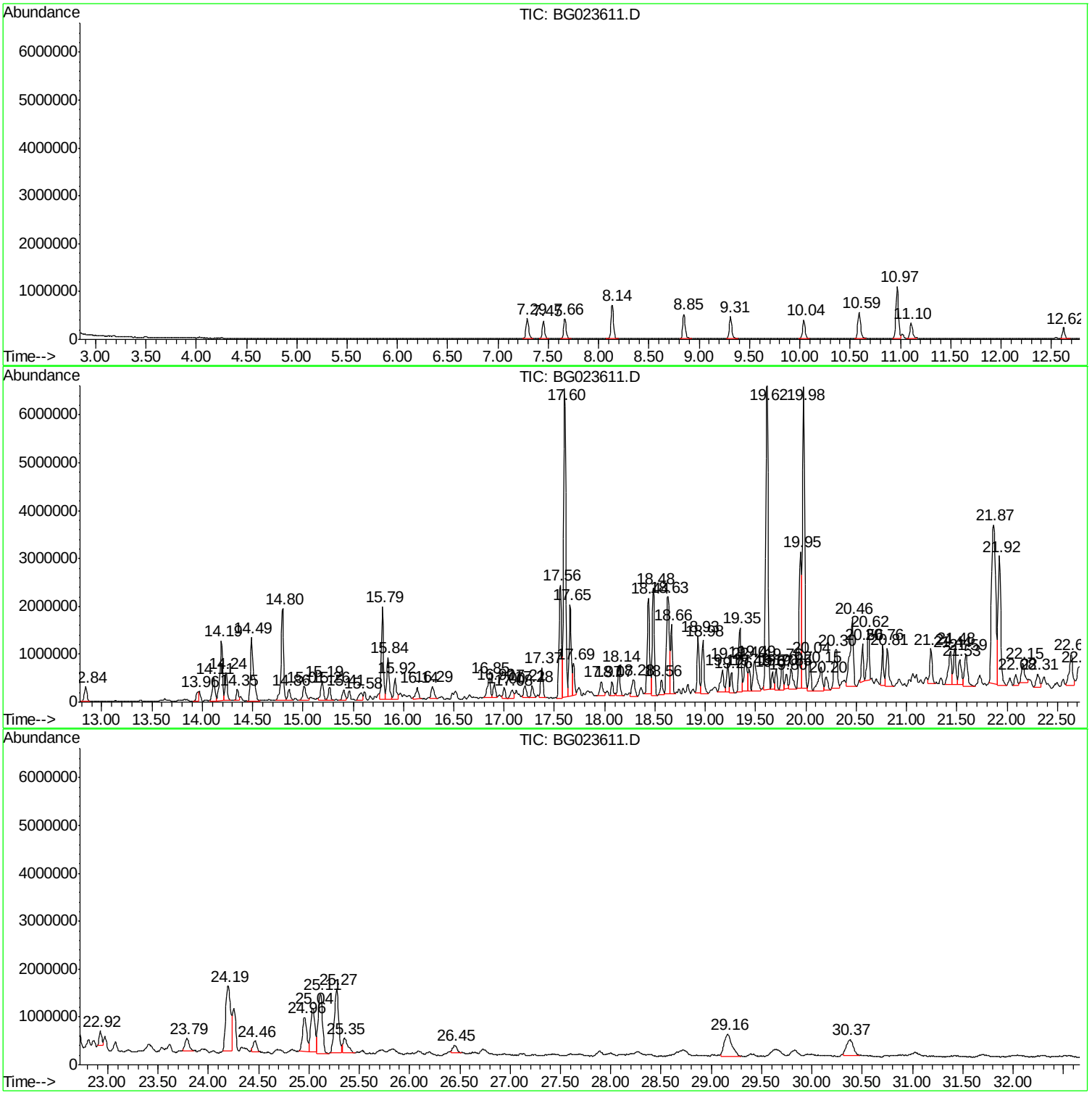
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
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Sample : H4384-16
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Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

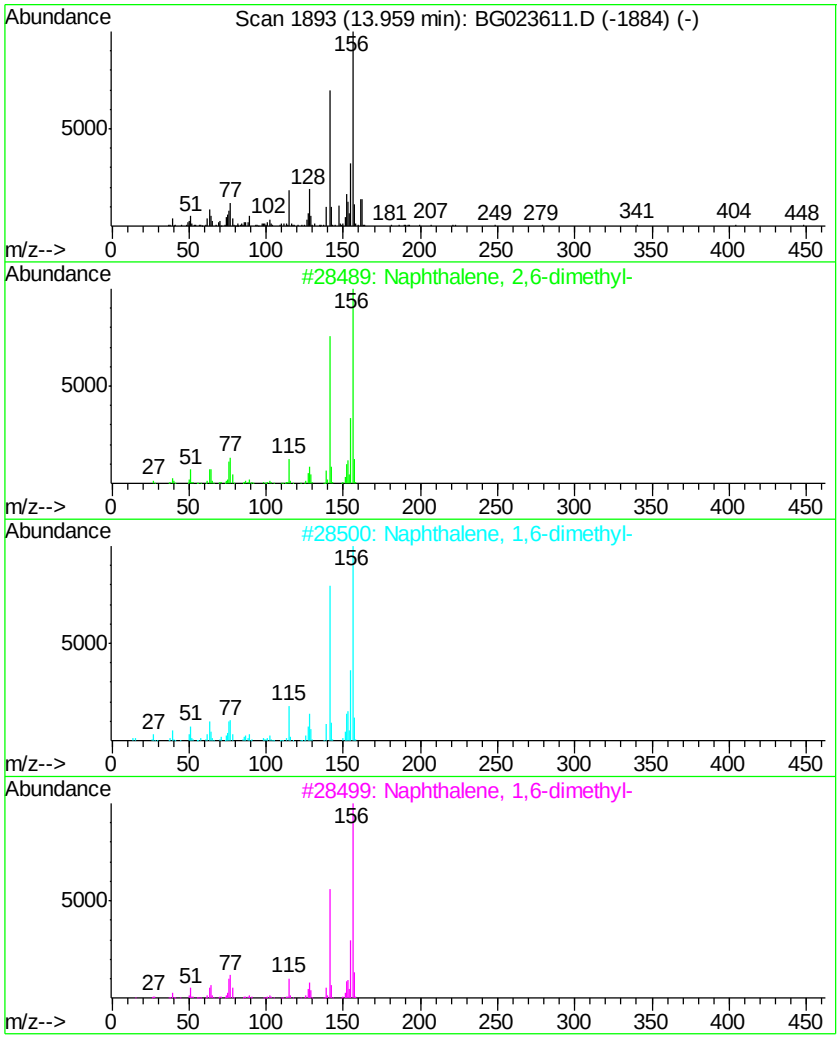
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

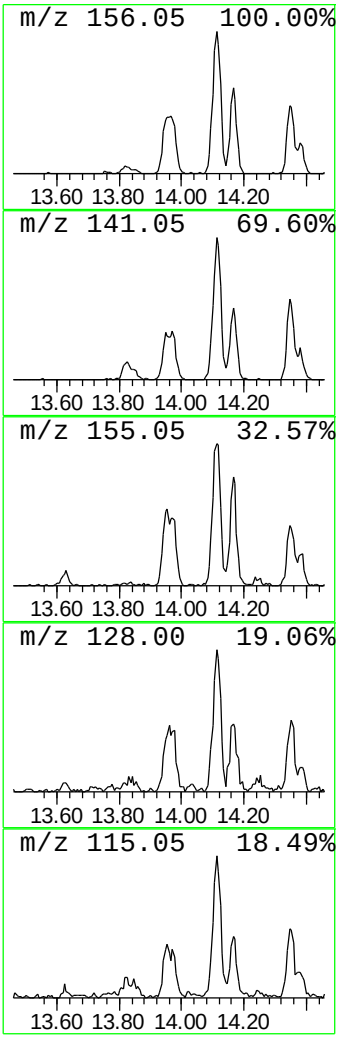
****

Peak Number 2 Naphthalene, 2,6-dimethyl- Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.96	2.10 ng/ul	351787	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

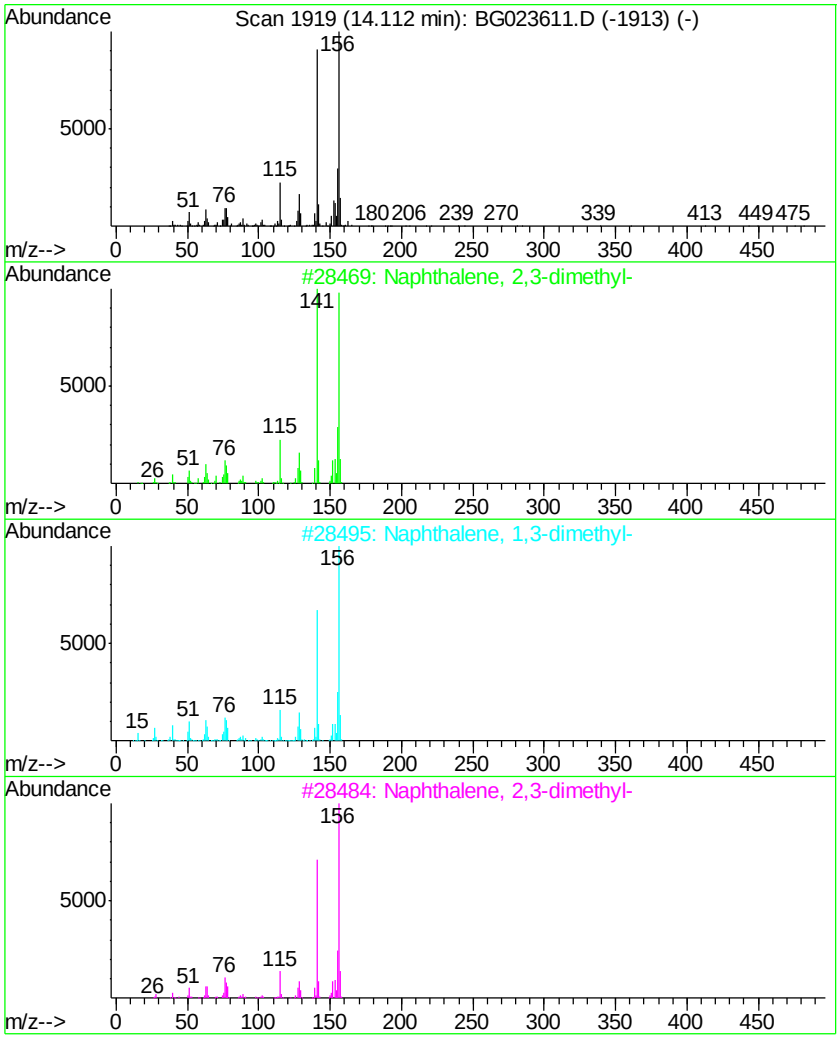
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

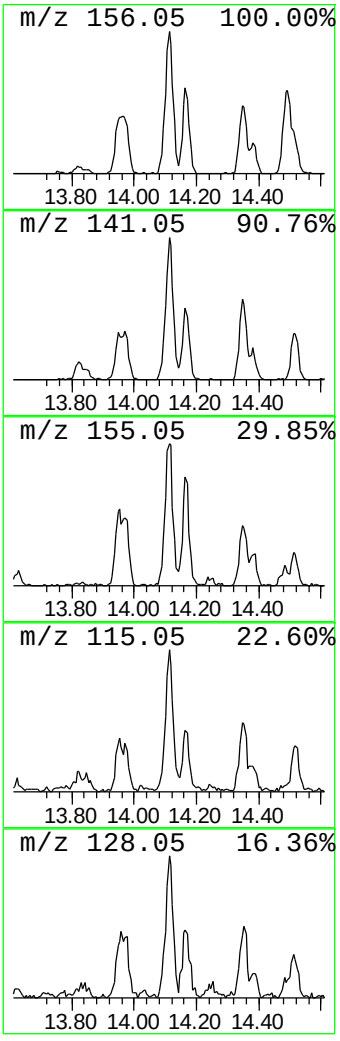
****

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	5.03 ng/ul	843227	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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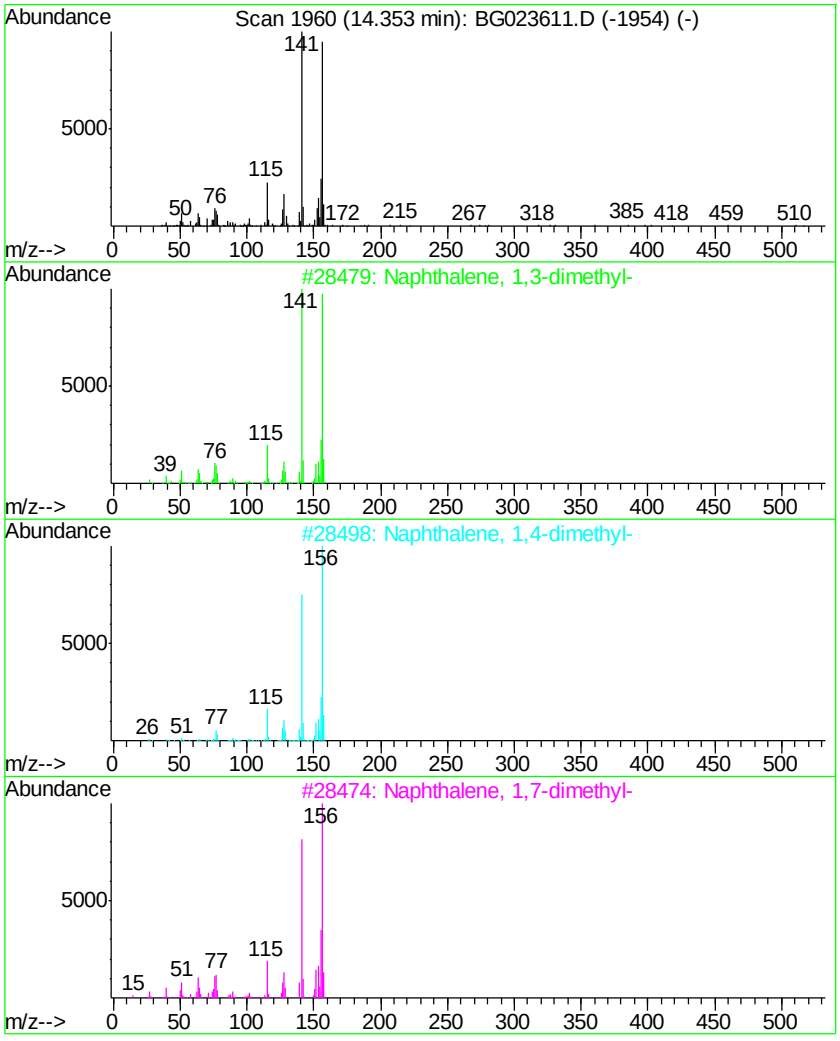
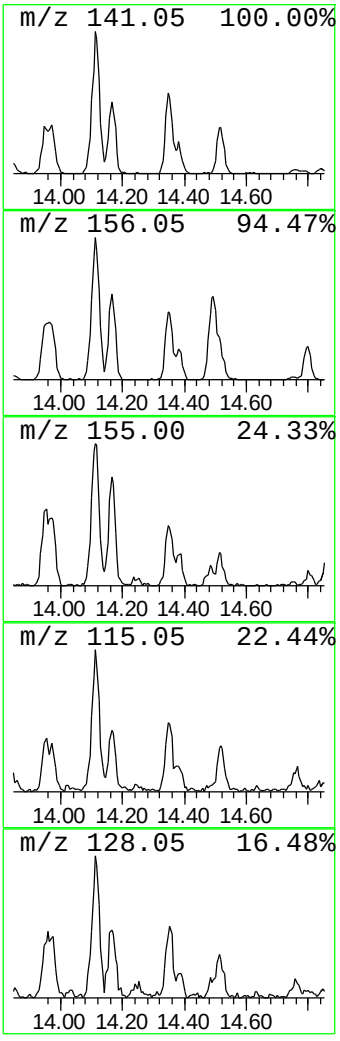
Peak Number 4 Naphthalene, 1,3-dimethyl- Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.35	2.27 ng/ul	380615	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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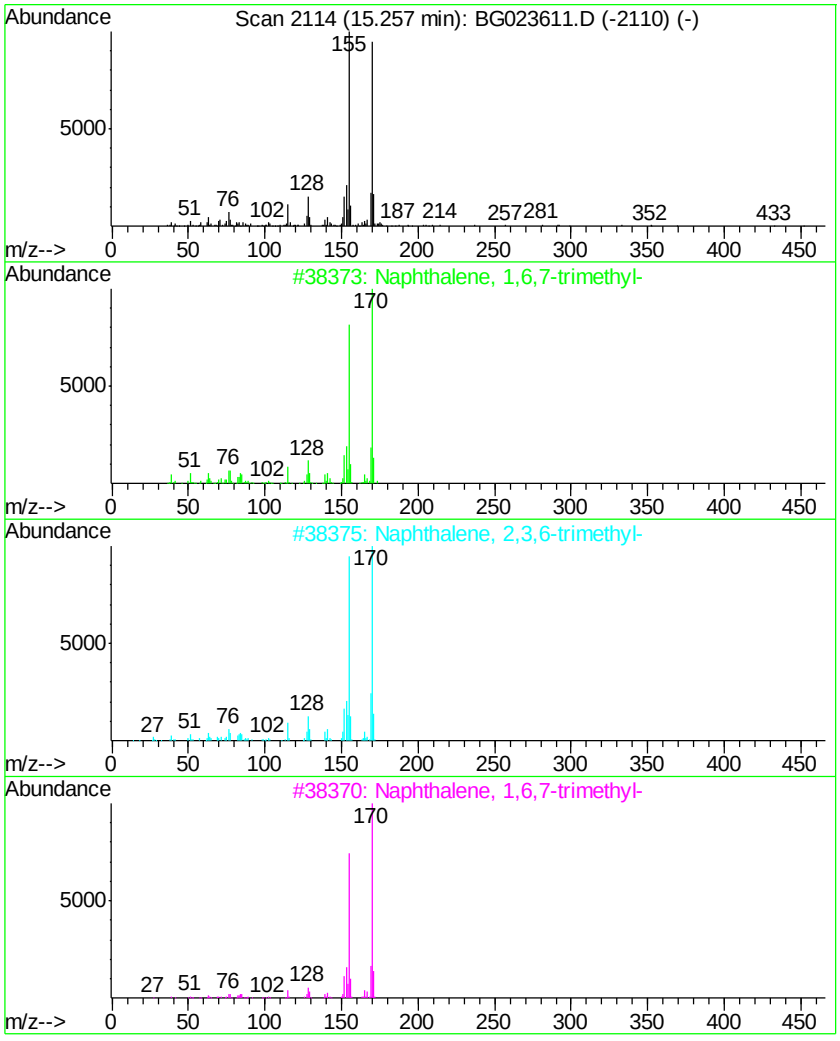
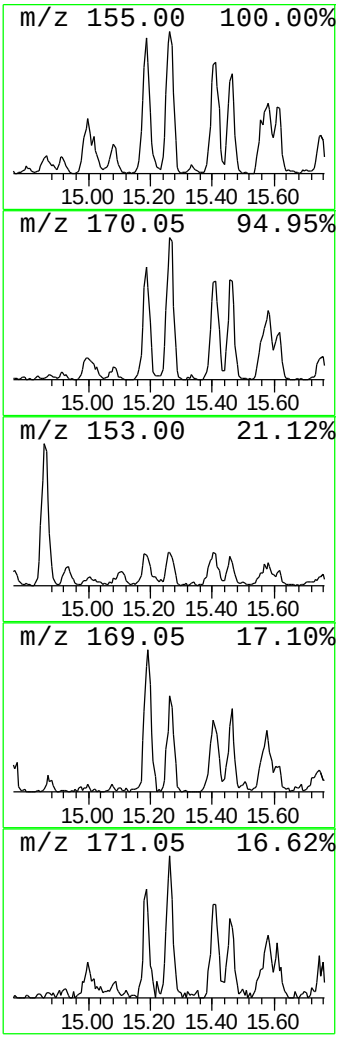
Peak Number 5 Naphthalene, 1,6,7-trimethyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.26	2.46 ng/ul	413015	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	98
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
4	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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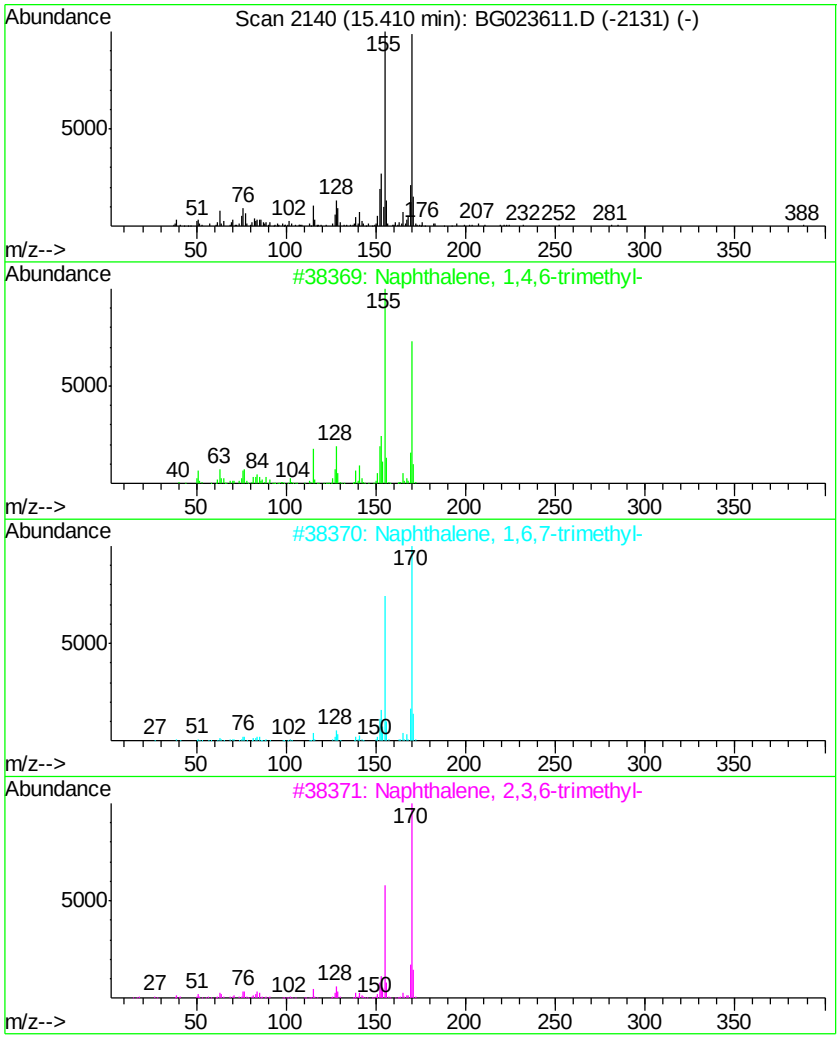
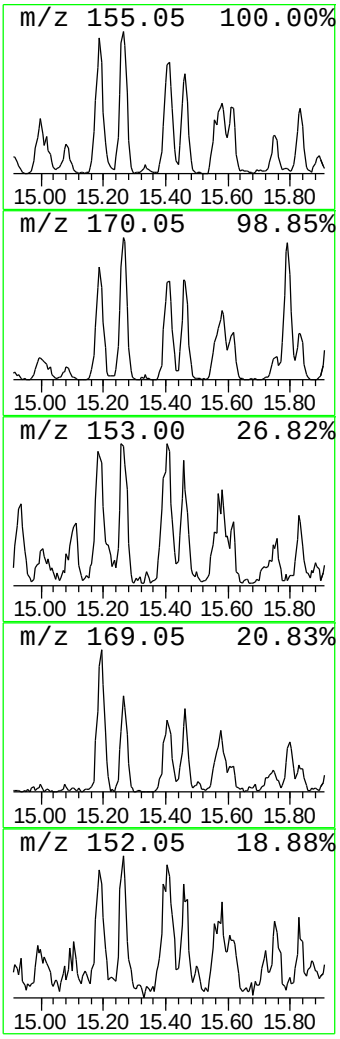
Peak Number 6 Naphthalene, 1,4,6-trimethyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.41	2.66 ng/ul	446199	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	97
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
4	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97





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Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

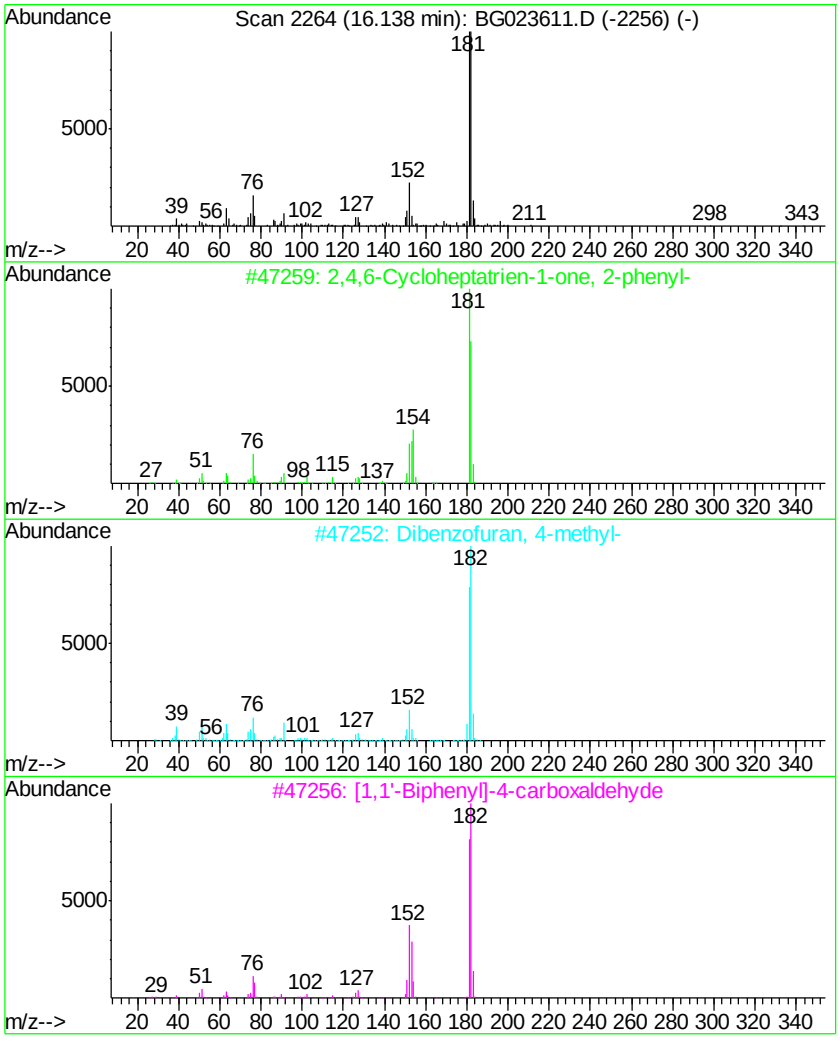
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

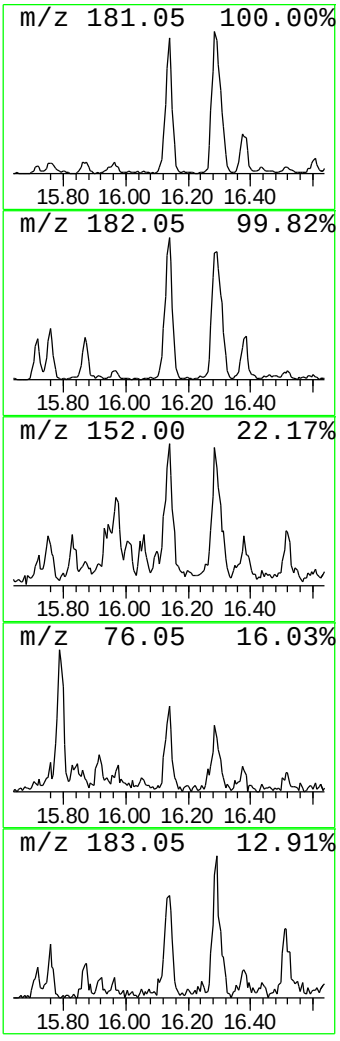
****

Peak Number 8 2,4,6-Cycloheptatrien-1-one... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.14	3.00 ng/ul	503219	Acenaphthene-d10	14.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	90
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	87
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	86
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72





Library Search Compound Report

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ALS Vial : 22 Sample Multiplier: 1

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ClientSampleId :
P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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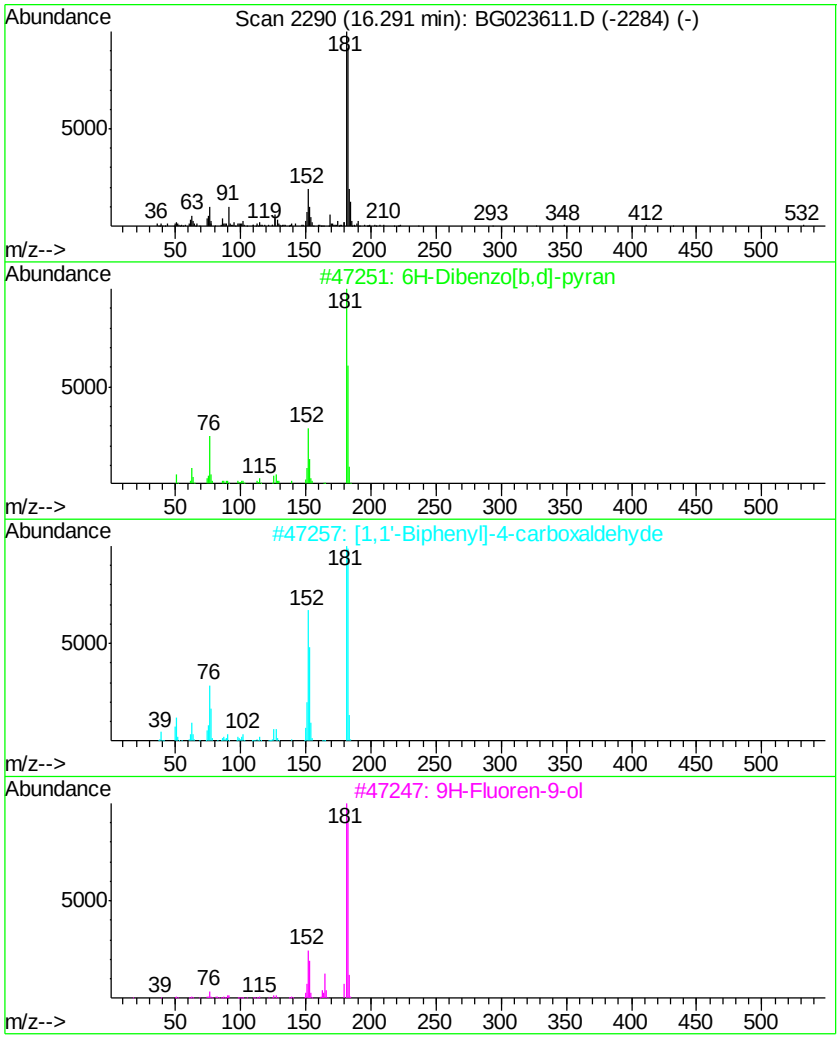
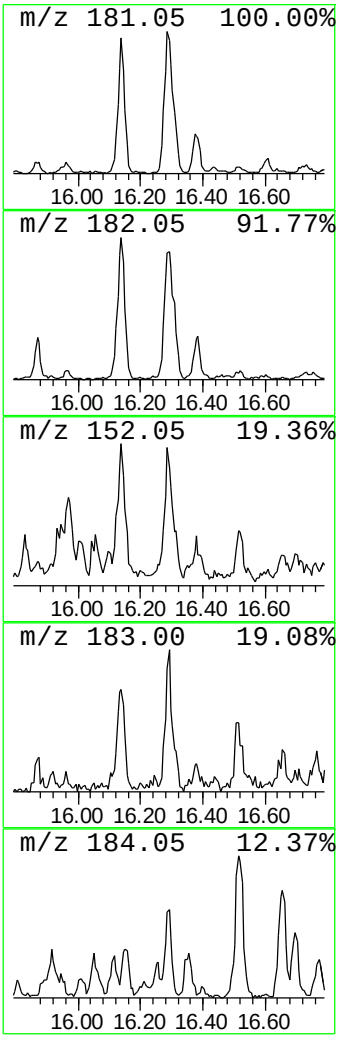
Peak Number 9 6H-Dibenzo[b,d]-pyran Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.29	2.49 ng/ul	492330	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	90
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	83
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78





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ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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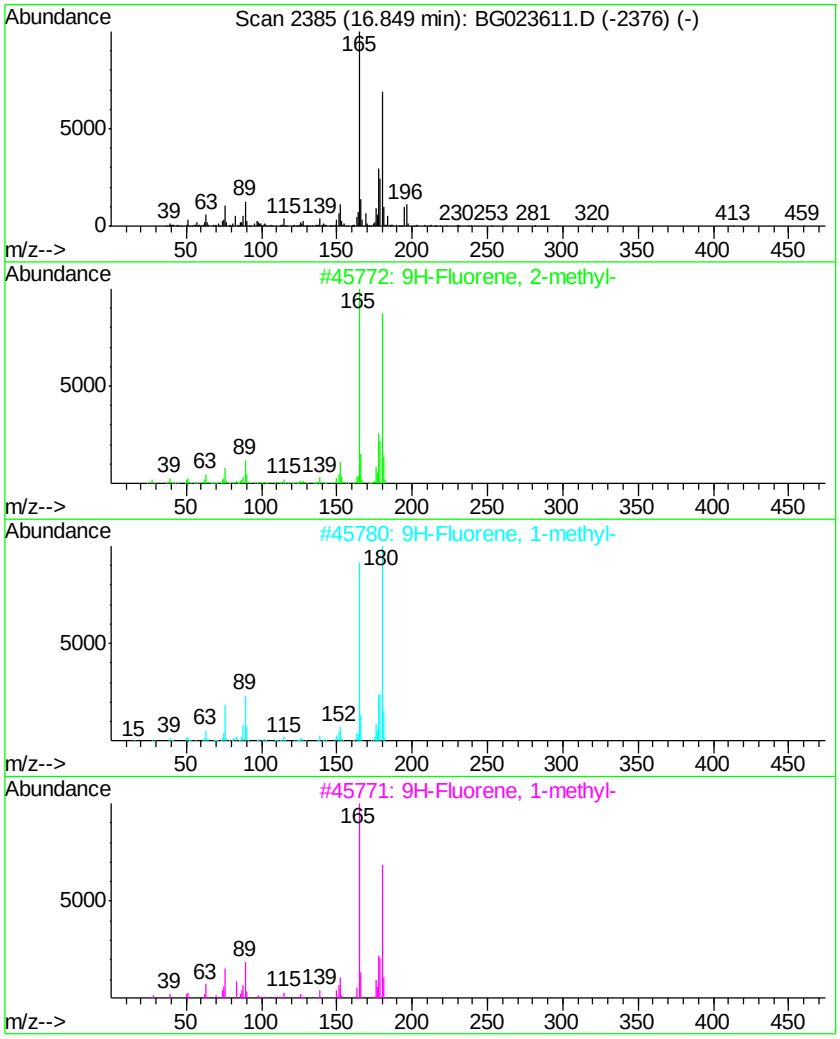
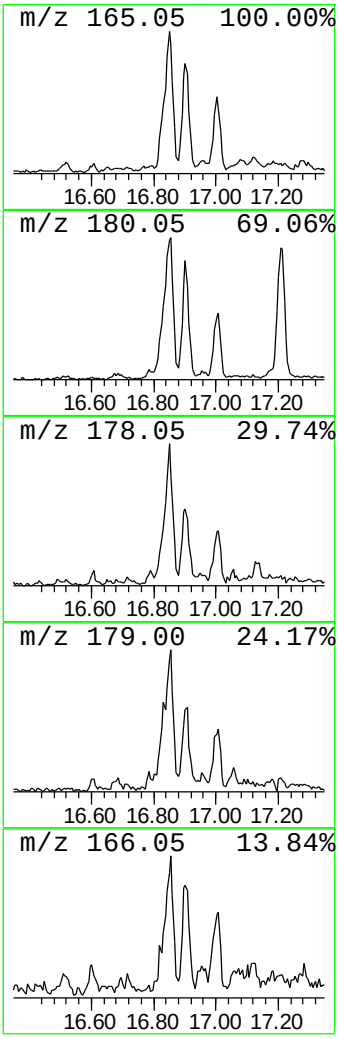
Peak Number 10 9H-Fluorene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.85	4.68 ng/ul	924390	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89
4	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	86
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	86





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Misc :
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Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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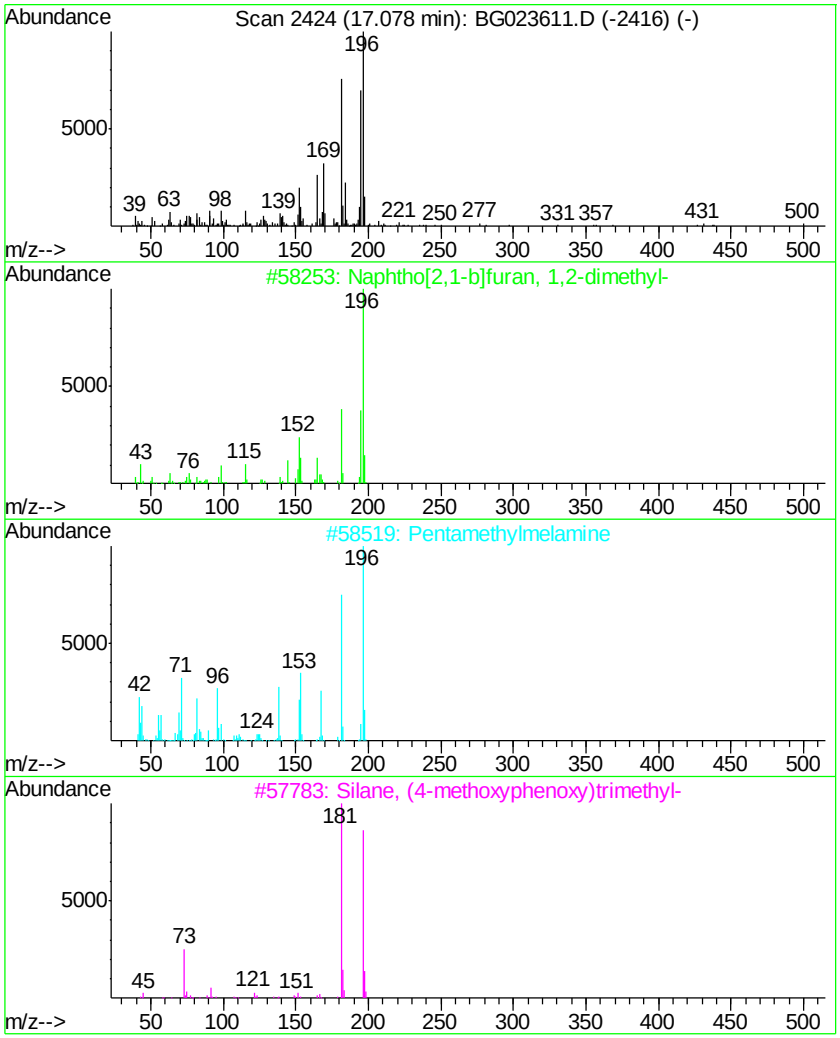
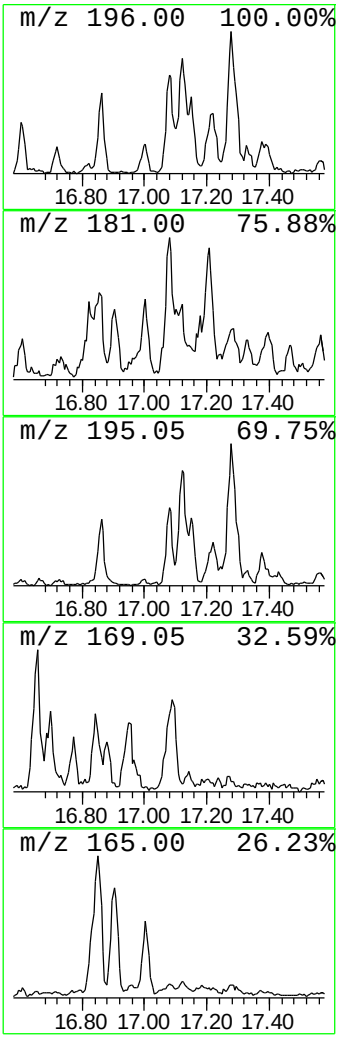
Peak Number 12 Naphtho[2,1-b]furan, 1,2-di... Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.08	2.10 ng/ul	414373	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	50
2	Pentamethylmelamine	196	C8H16N6	035832-09-8	49
3	Silane, (4-methoxyphenoxy)trimet...	196	C10H16O2Si	006689-38-9	46
4	2-Fluorenamine	181	C13H11N	000153-78-6	30
5	Ethanone, 1-(4-hydroxy-3,5-dimet...	196	C10H12O4	002478-38-8	27





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ClientSampleId : P002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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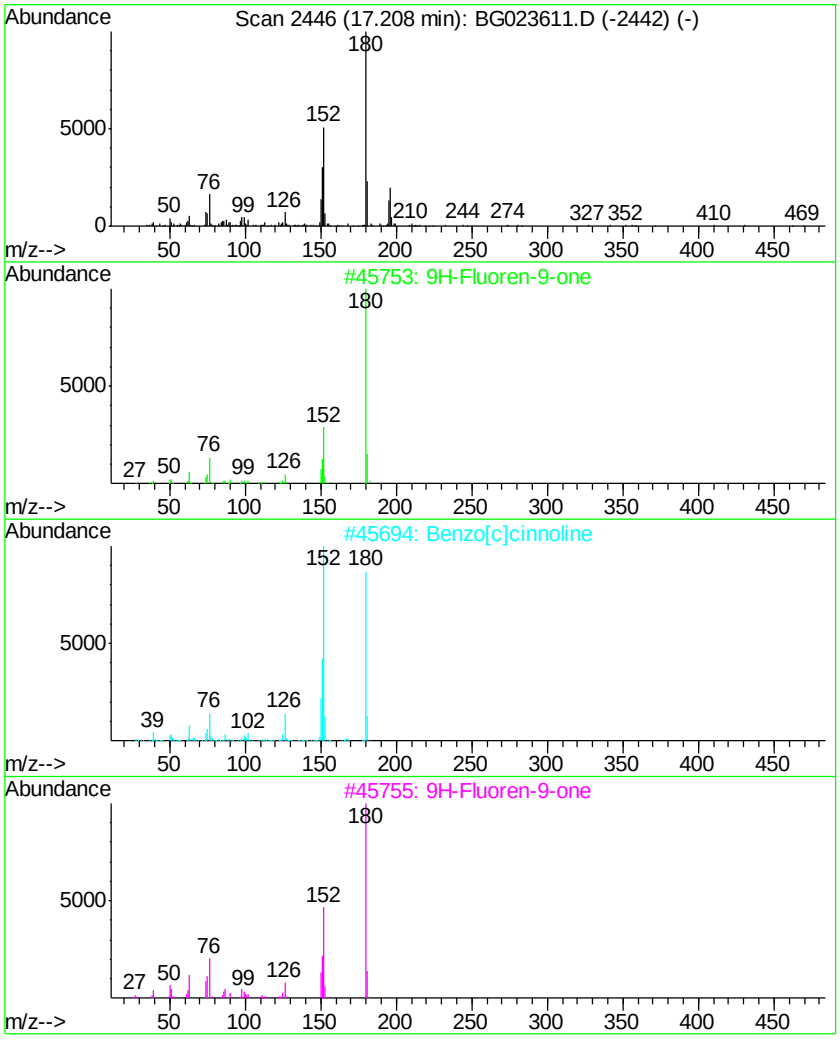
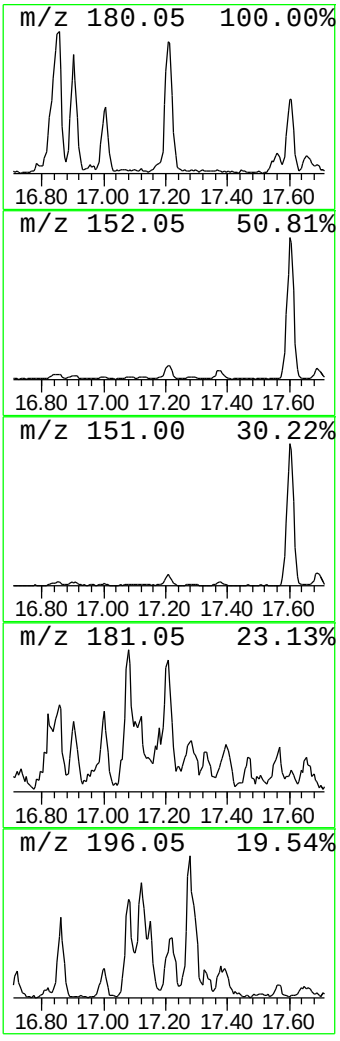
Peak Number 13 9H-Fluoren-9-one Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.21	2.29 ng/ul	453267	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	81
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	72
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64





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Sample : H4384-16
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Quant Title : SVOA CALIBRATION

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

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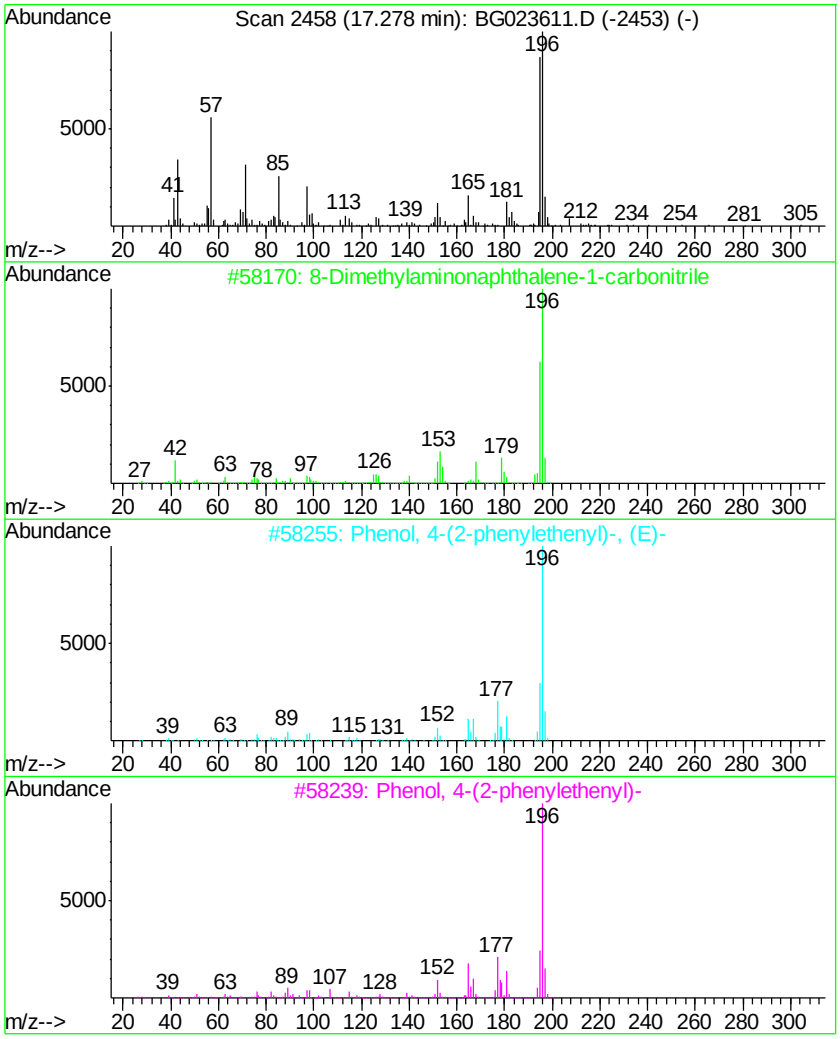
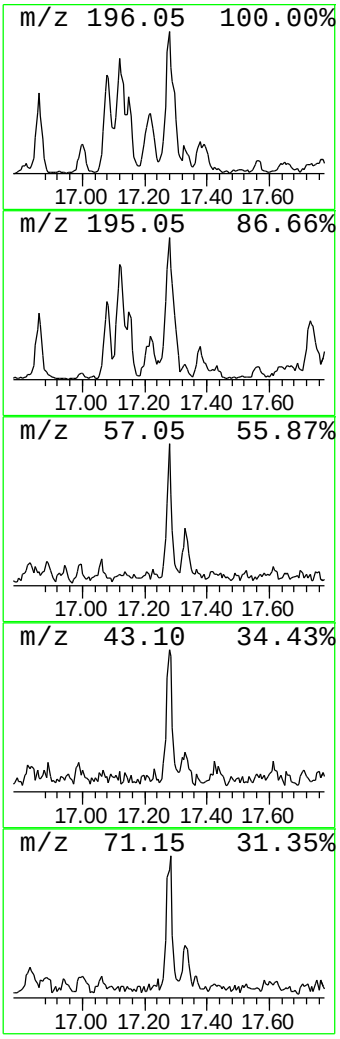
Peak Number 14 8-Dimethylaminonaphthalene-... Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.28	2.11 ng/ul	417732	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	68
2	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	49
3	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	49
4	5,7-Dimethylpyrimido-[3,4-a]-indole	196	C13H12N2	038349-21-2	47
5	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	46





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Operator : UM/SJ
Sample : H4384-16
Misc :
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Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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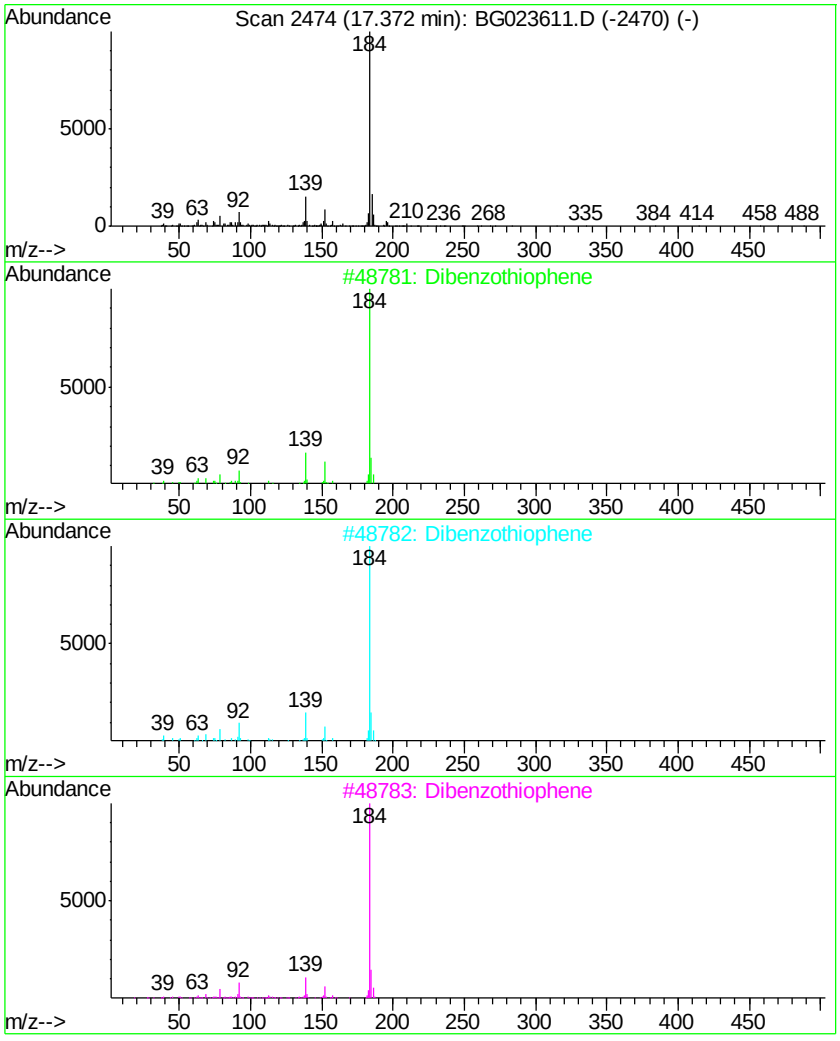
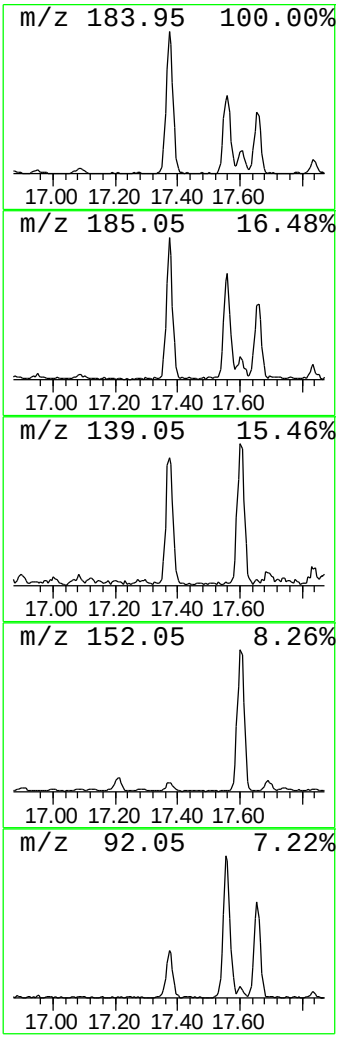
Peak Number 15 Dibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.37	4.82 ng/ul	952231	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Dibenzothiophene	184	C12H8S	000132-65-0	95
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
5	Dibenzothiophene	184	C12H8S	000132-65-0	94





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Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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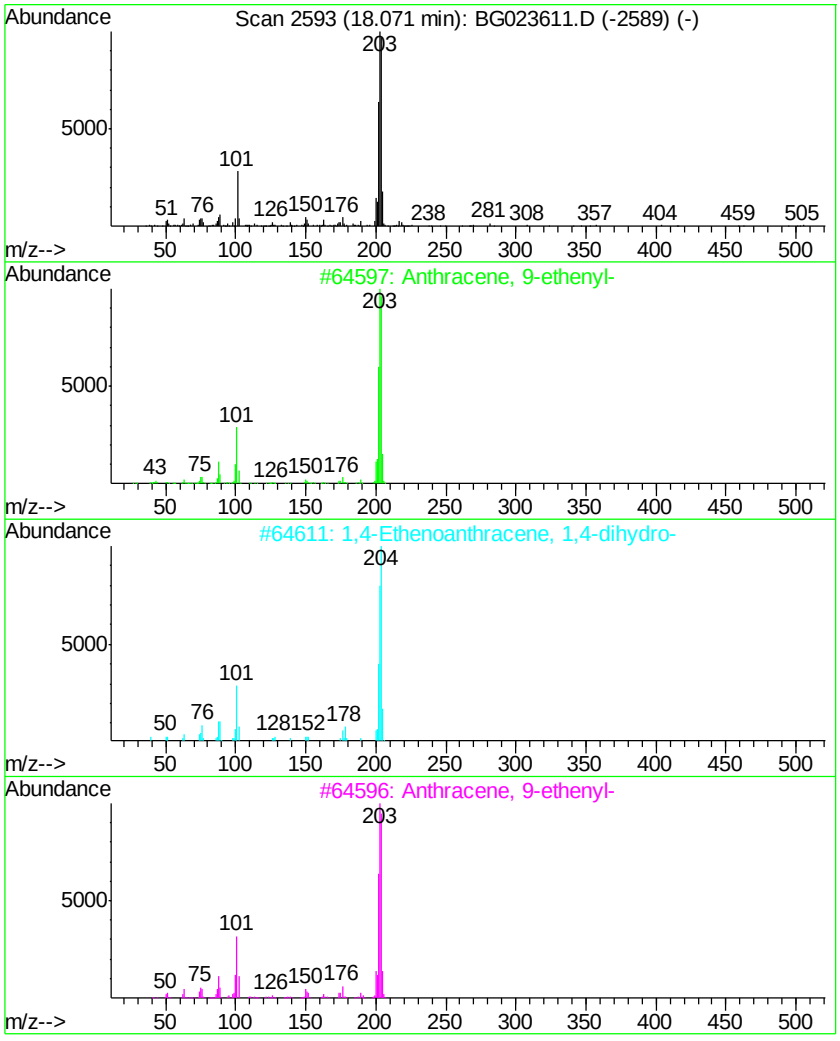
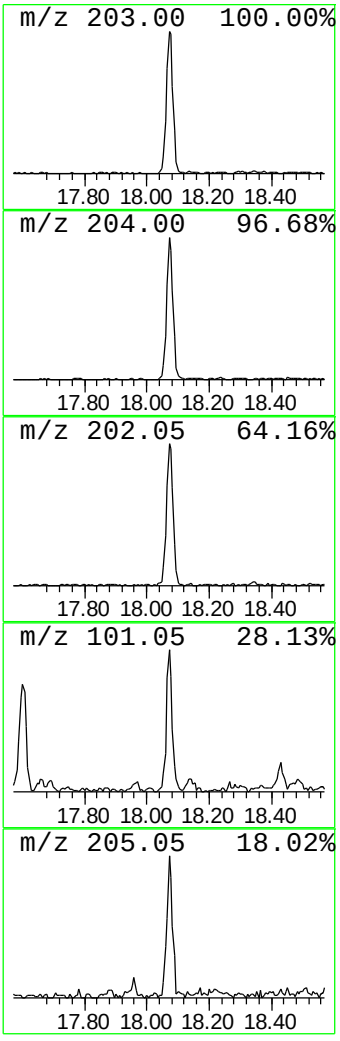
Peak Number 16 Anthracene, 9-ethenyl- Concentration Rank 51

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.07	2.10 ng/ul	415344	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	89
2	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	72
3	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	64
4	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	64
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64





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ClientSampleId : P002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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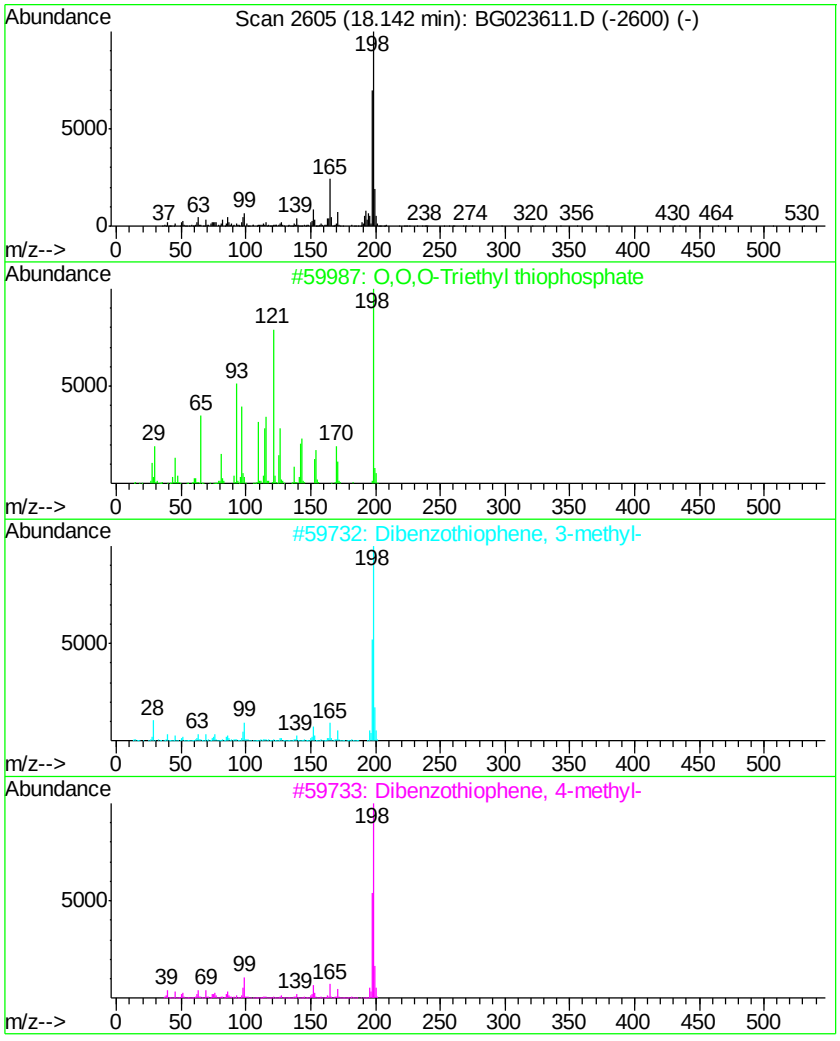
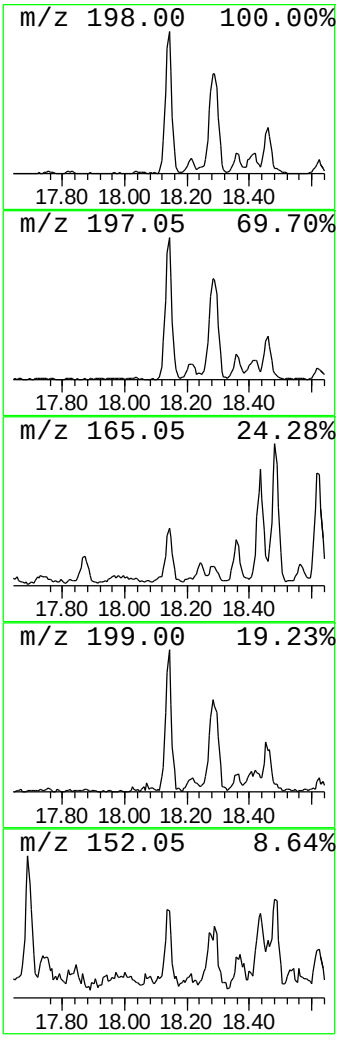
Peak Number 17 O,O,O-Triethyl thiophosphate Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.14	4.91 ng/ul	971169	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	O,O,O-Triethyl thiophosphate	198	C6H15O3PS	000126-68-1	83
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	81
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	81
4	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	80
5	Thioxanthene	198	C13H10S	000261-31-4	70





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

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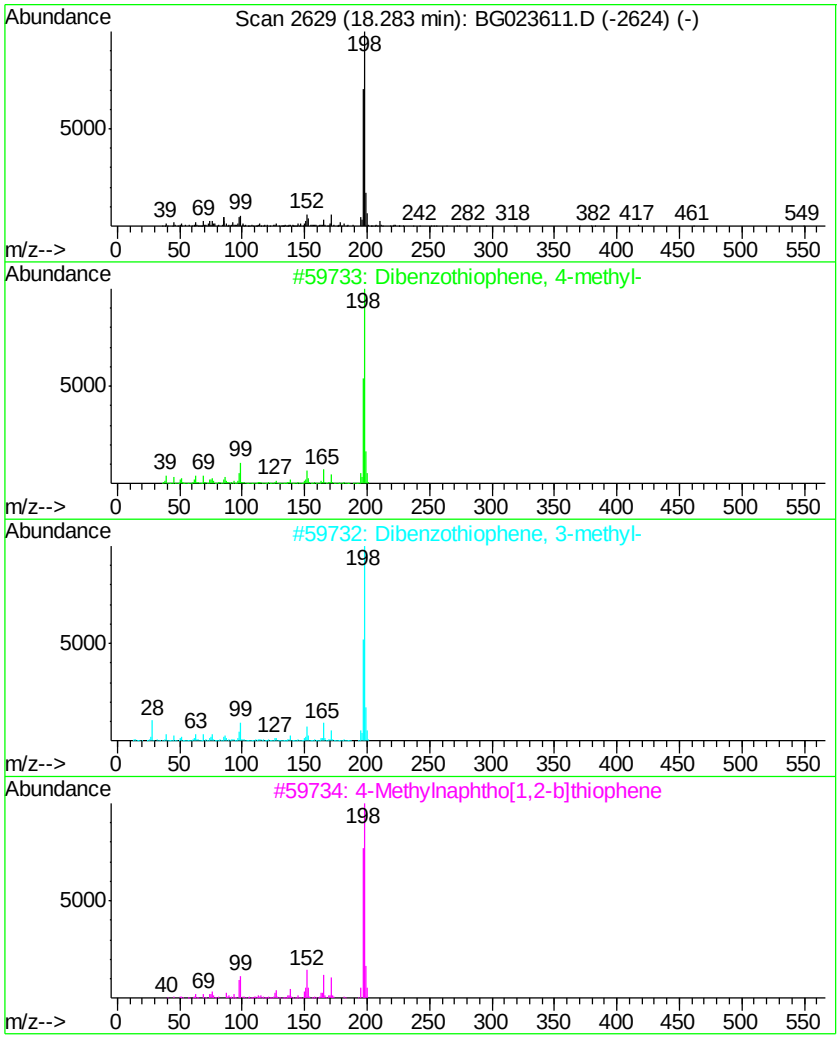
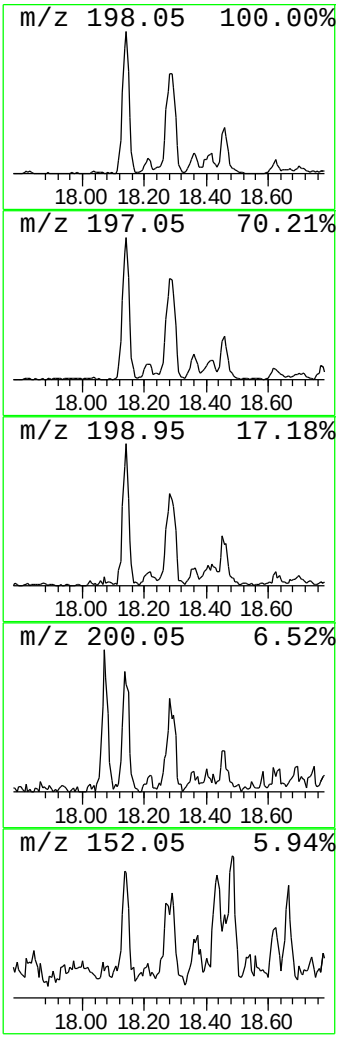
Peak Number 18 Dibenzothiophene, 4-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.28	3.79 ng/ul	749903	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	91
3	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	90
4	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	86
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	72





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Quant Title : SVOA CALIBRATION

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

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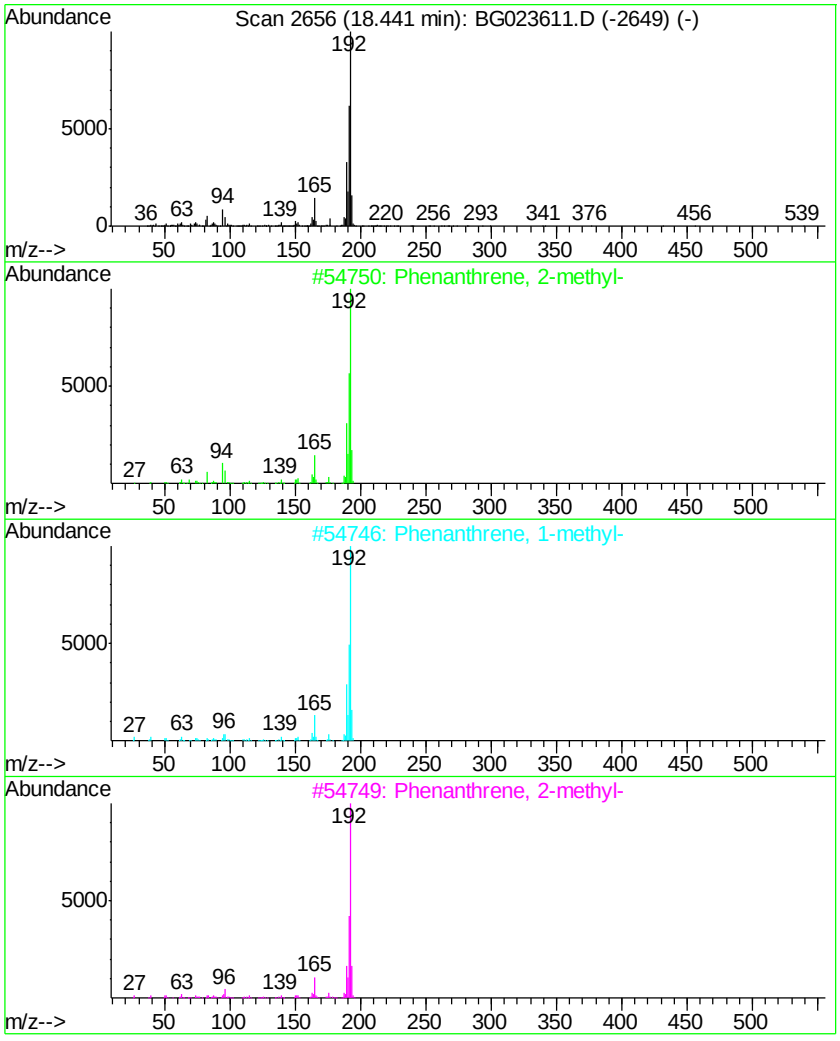
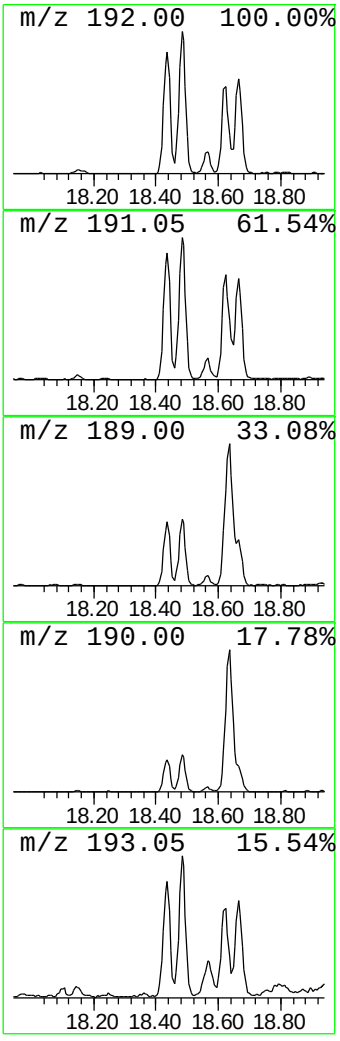
Peak Number 19 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.44	16.03 ng/ul	3169850	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





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ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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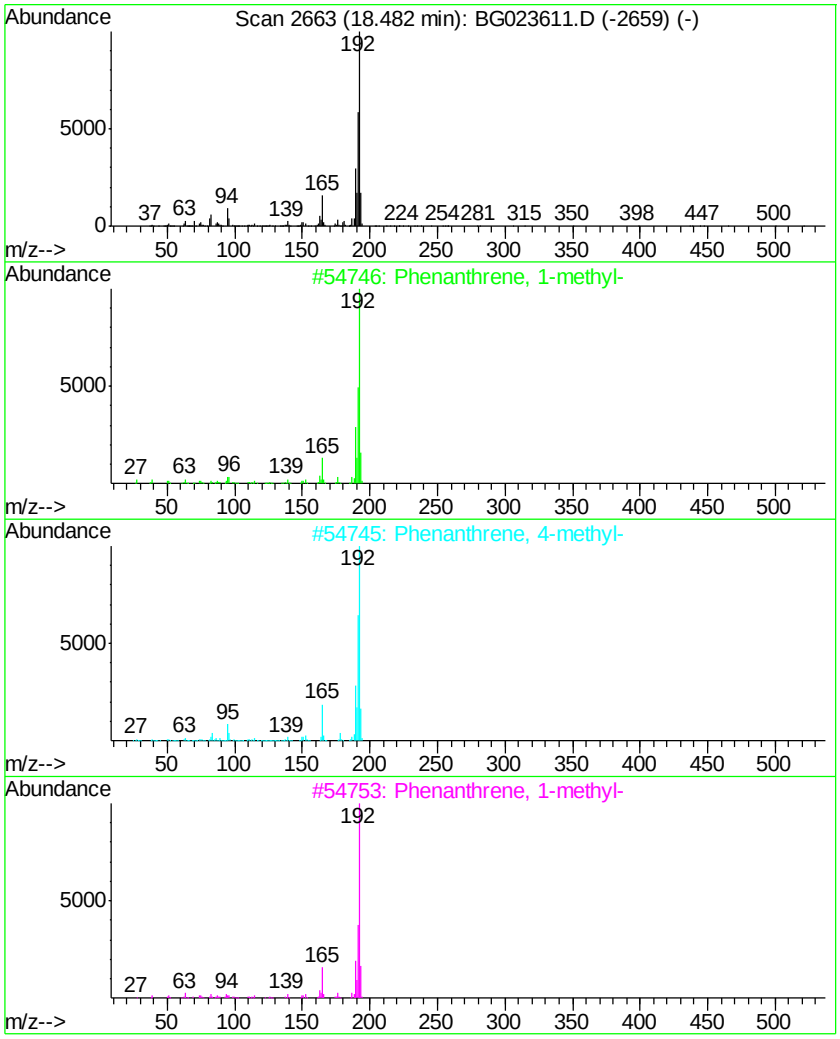
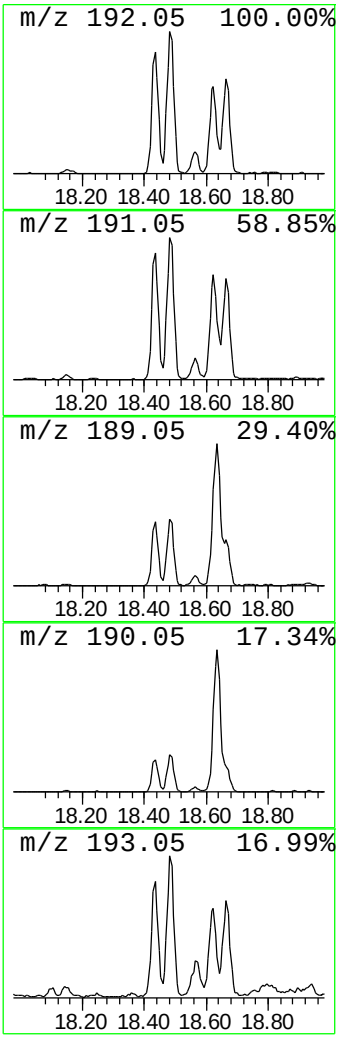
Peak Number 20 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	17.17 ng/ul	3393880	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

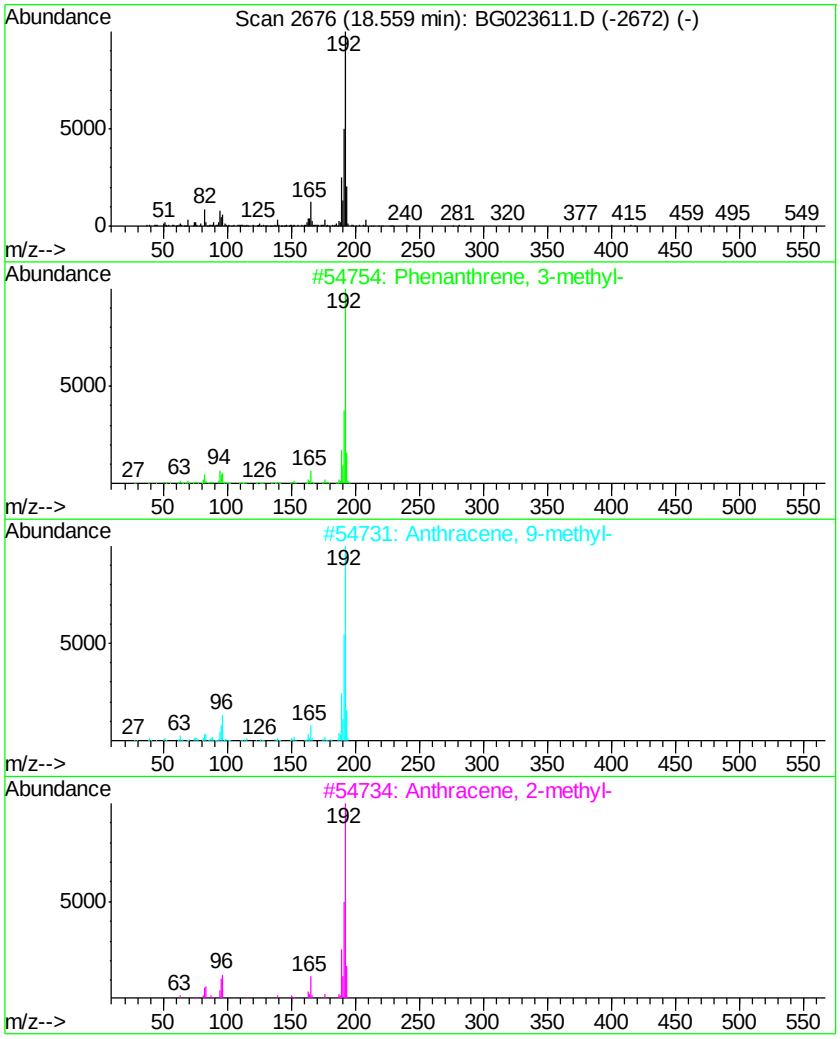
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

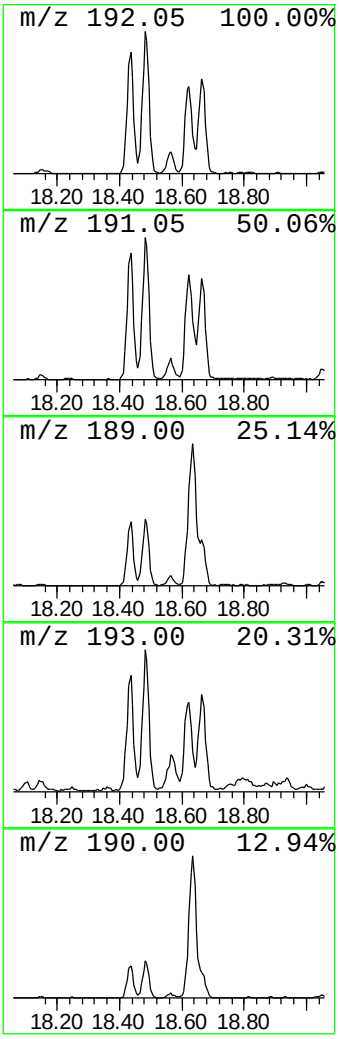
****

Peak Number 21 Phenanthrene, 3-methyl- Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	2.31 ng/ul	456940	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	81
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	81
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	76
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	76





Library Search Compound Report

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Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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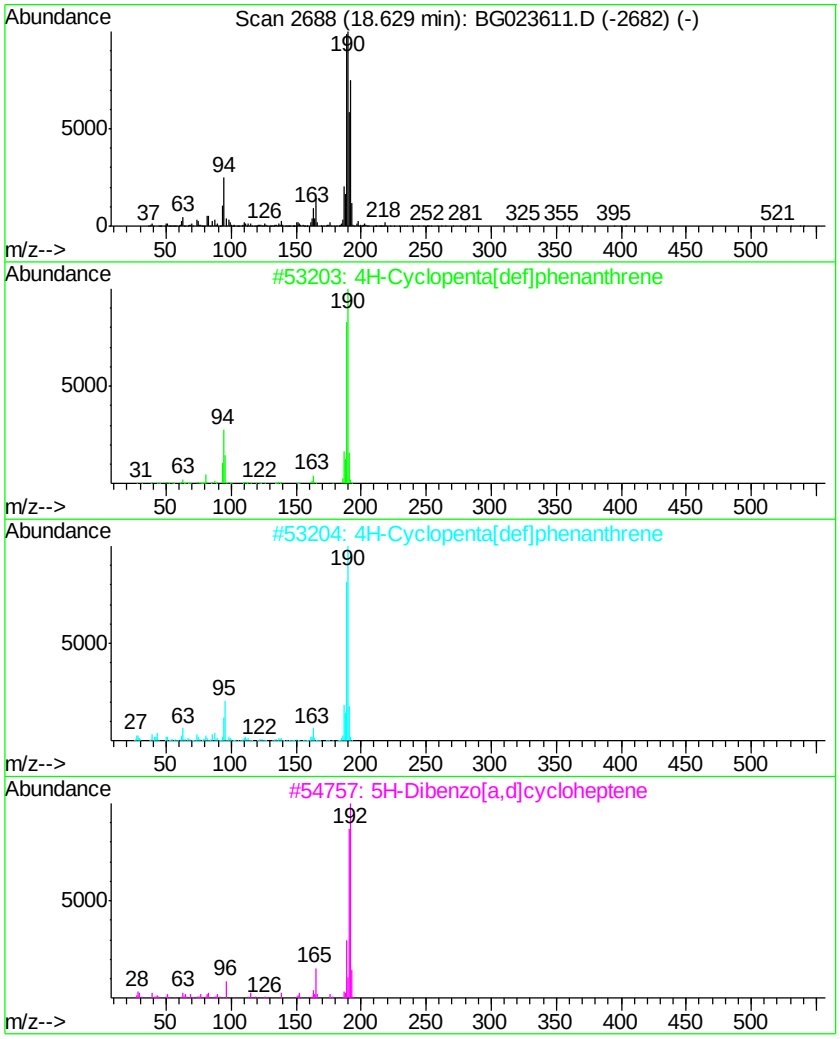
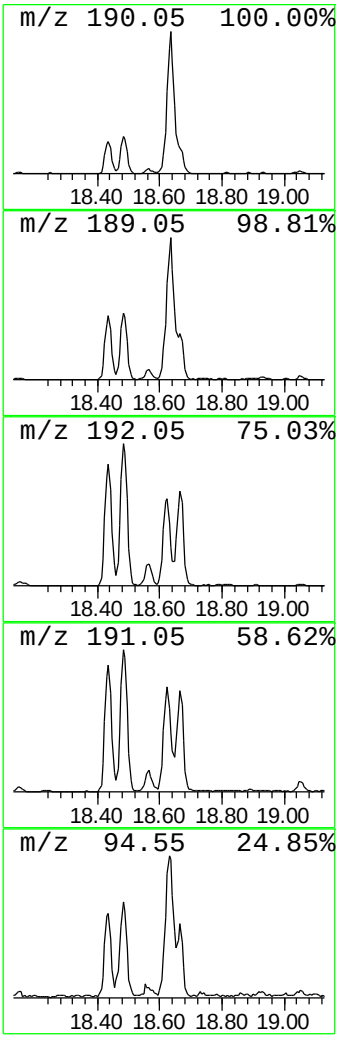
Peak Number 22 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.63	19.79 ng/ul	3912570	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
5	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	38





Library Search Compound Report

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Acq On : 11 Aug 2016 3:14
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Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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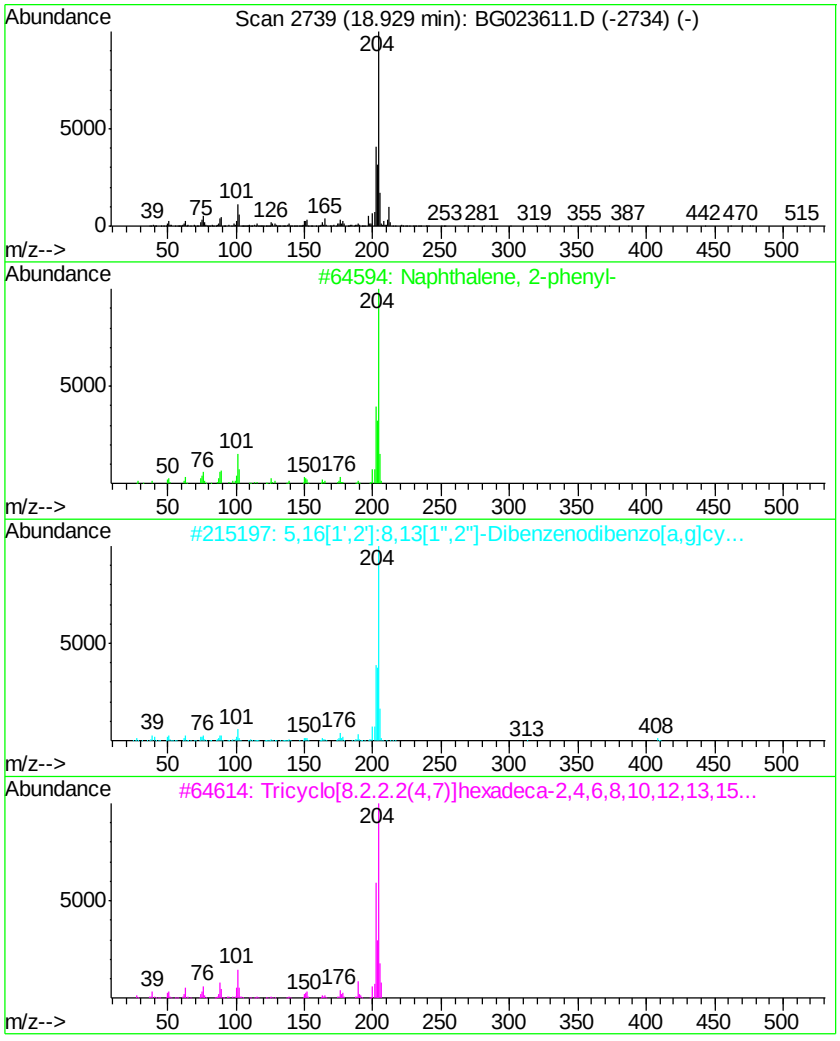
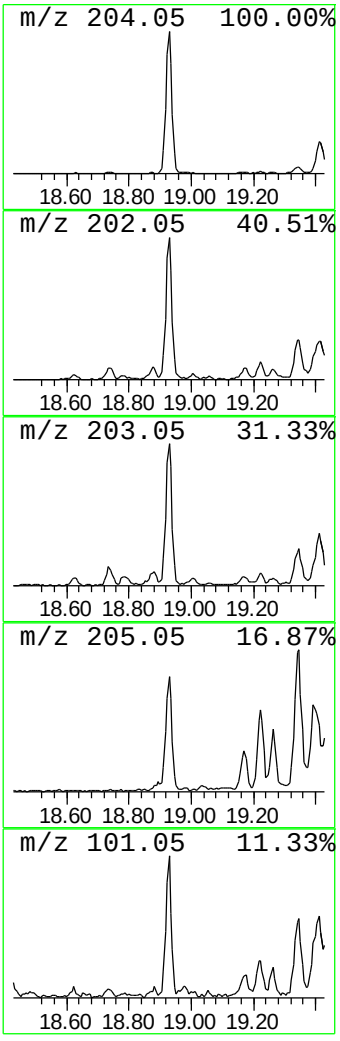
Peak Number 24 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	8.56 ng/ul	1692320	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	92
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	86
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83





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Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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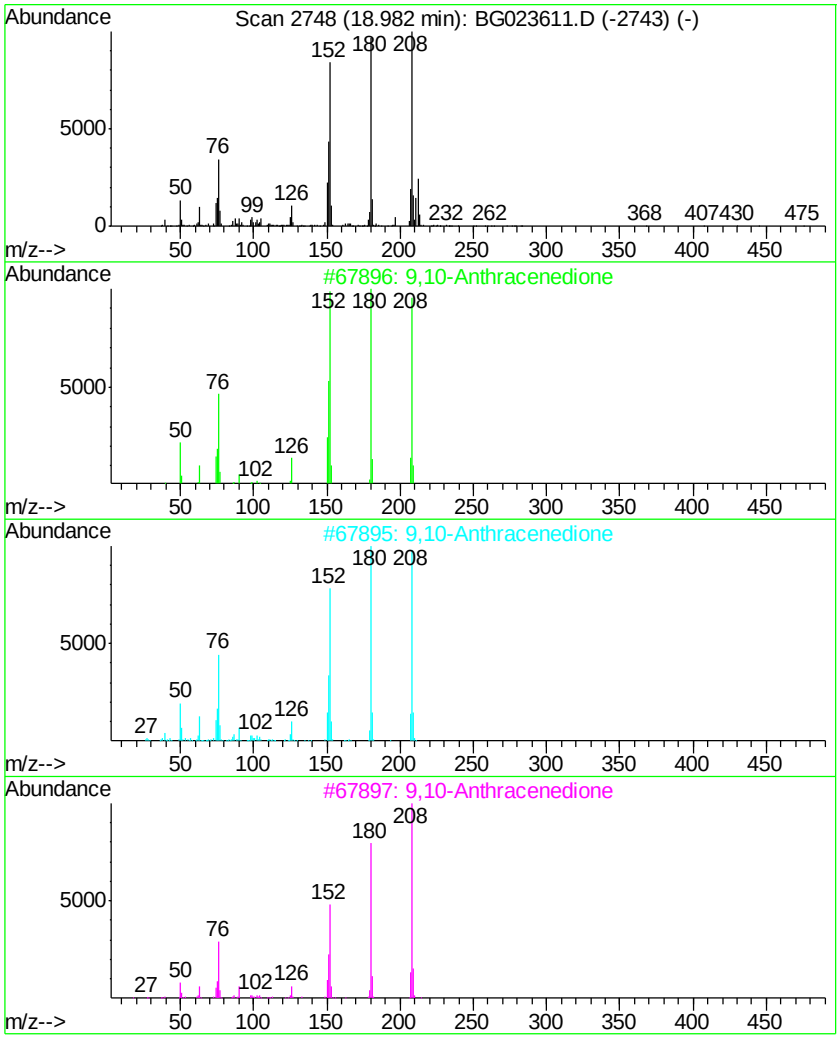
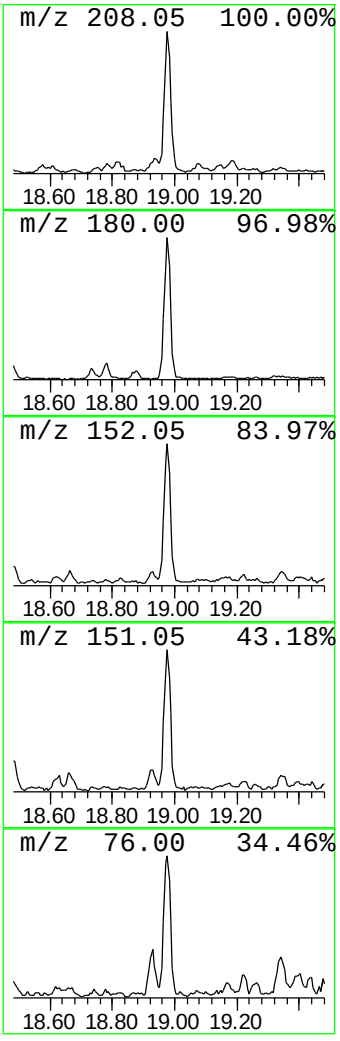
Peak Number 25 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.98	9.13 ng/ul	1805690	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64





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Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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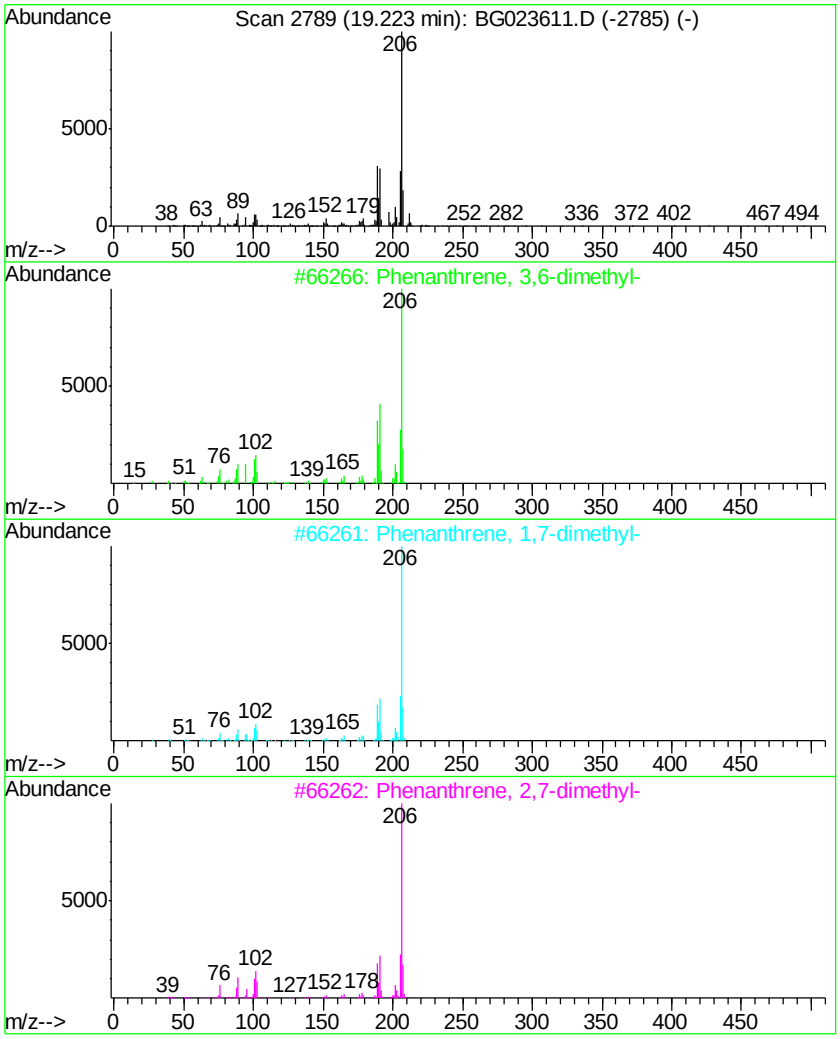
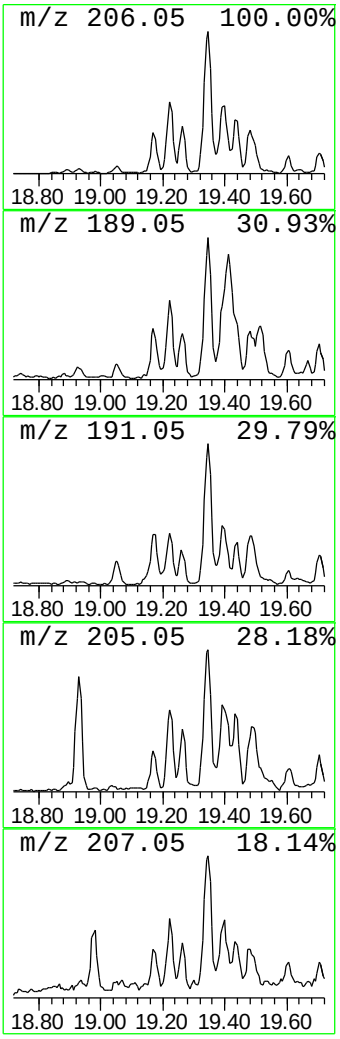
Peak Number 27 Phenanthrene, 3,6-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.22	4.17 ng/ul	824922	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





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Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

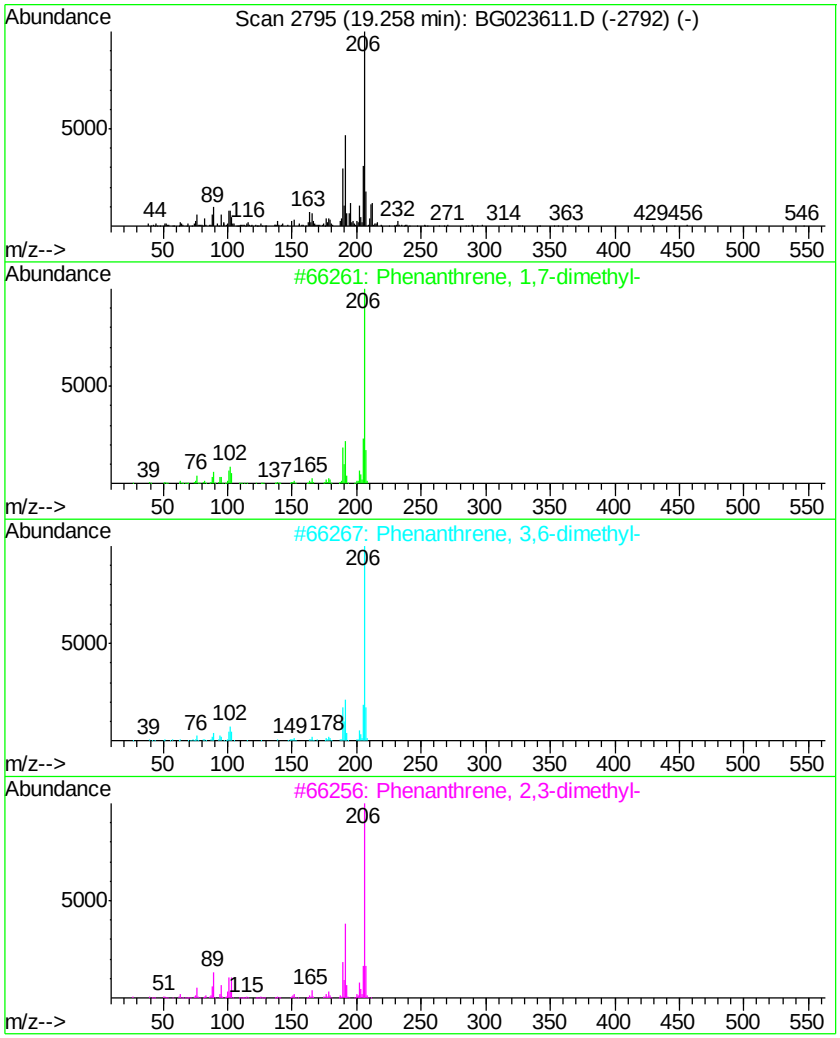
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

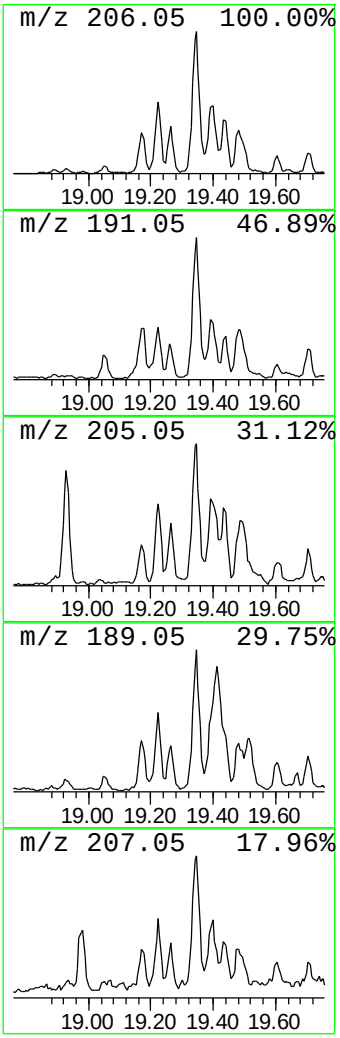
****

Peak Number 28 Phenanthrene, 1,7-dimethyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.26	2.98 ng/ul	589263	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	89
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	86
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	81
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	81





Library Search Compound Report

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Acq On : 11 Aug 2016 3:14
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Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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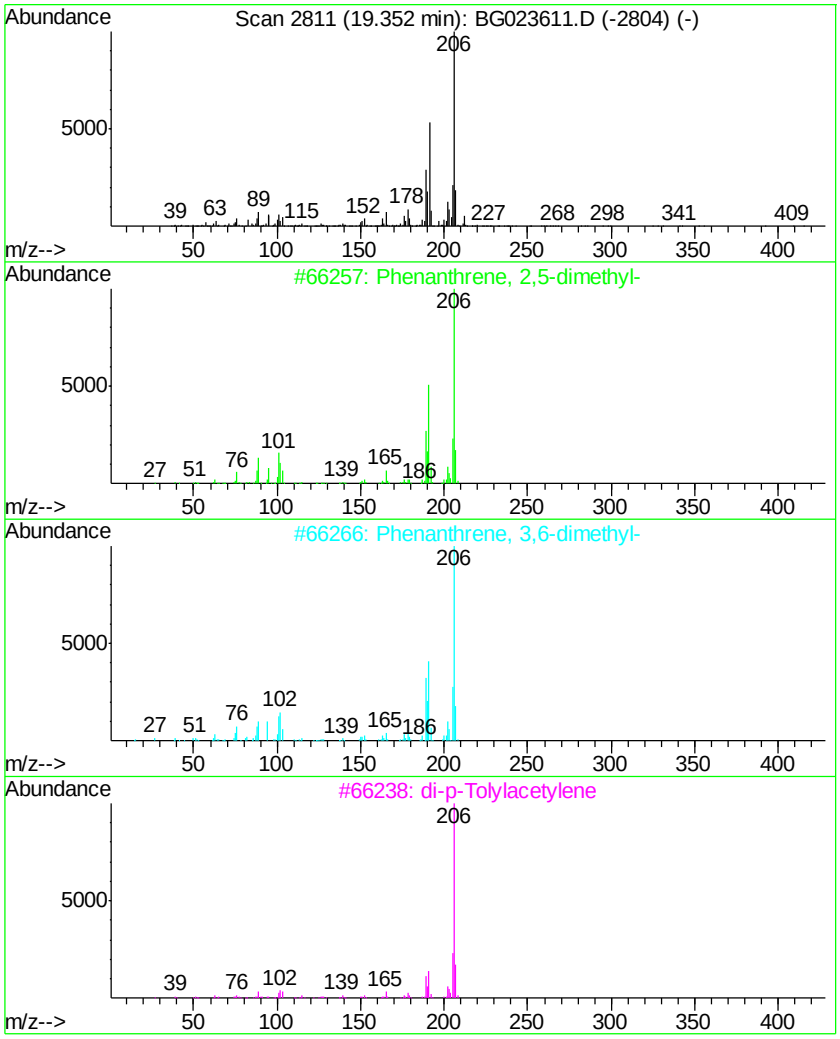
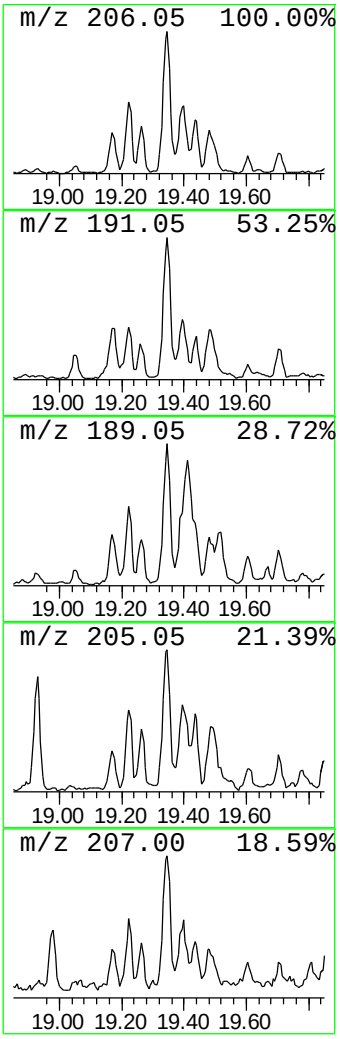
Peak Number 29 Phenanthrene, 2,5-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.35	11.02 ng/ul	2178010	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90





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Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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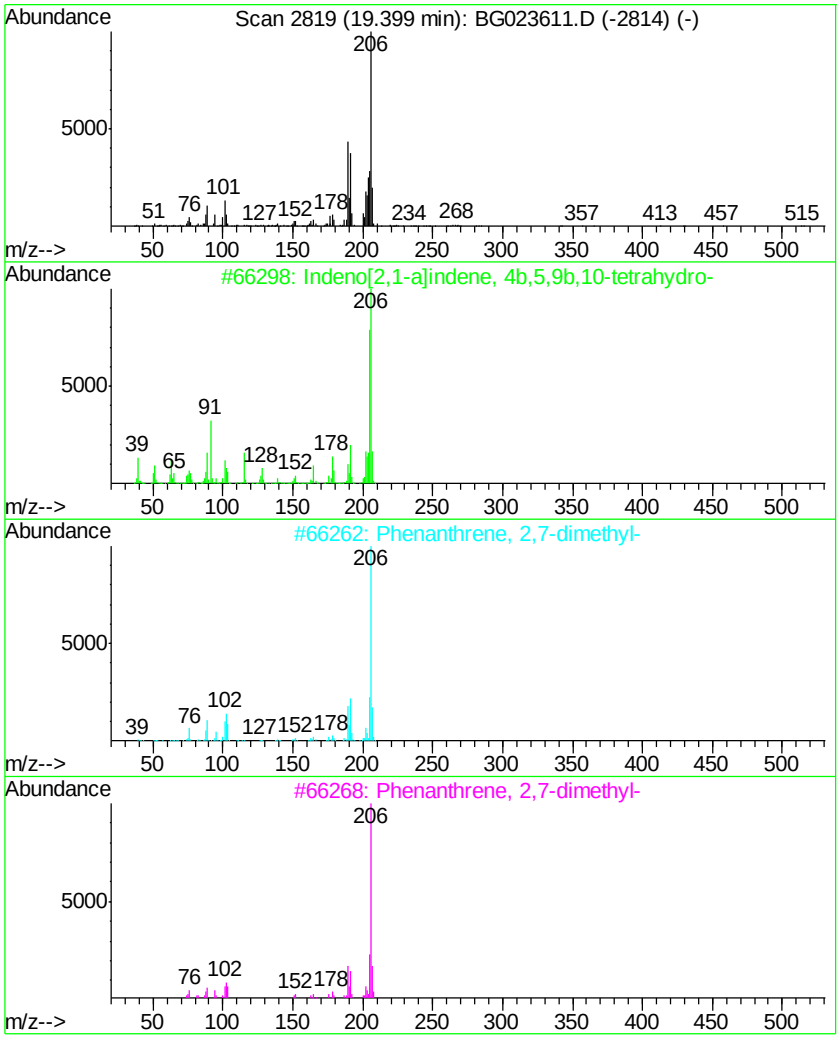
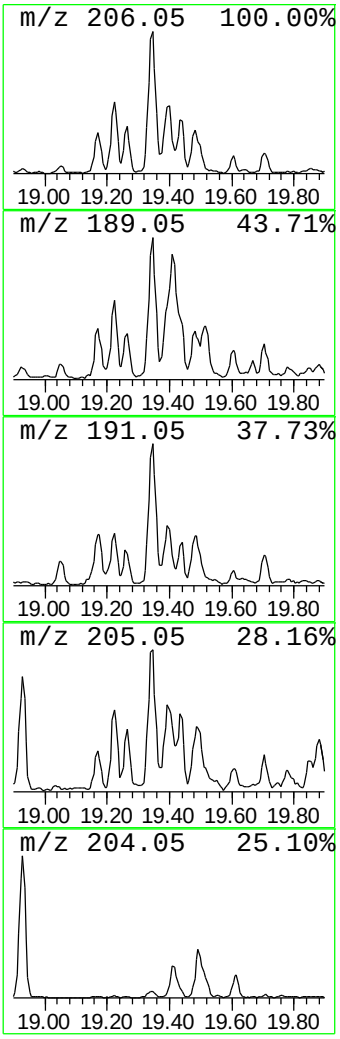
Peak Number 30 Indeno[2,1-a]indene, 4b,5,9... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.40	7.19 ng/ul	1420850	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 4b,5,9b,10-...	206	C16H14	005695-17-0	89
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	76





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Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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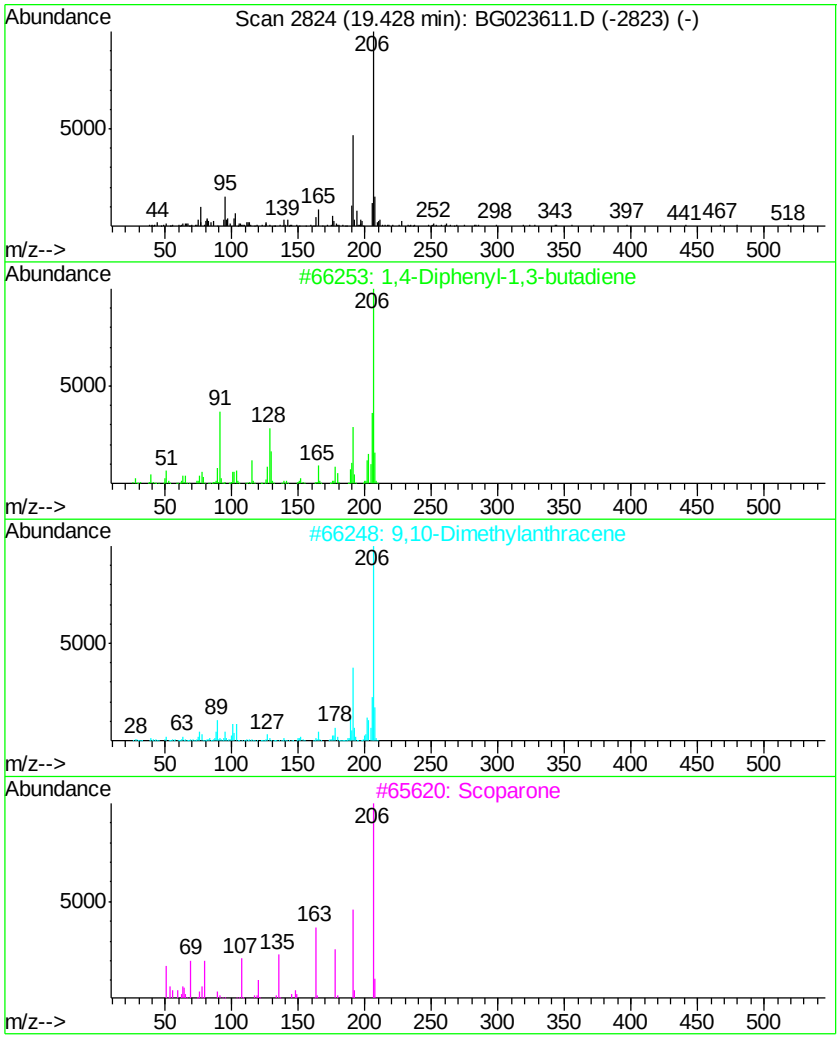
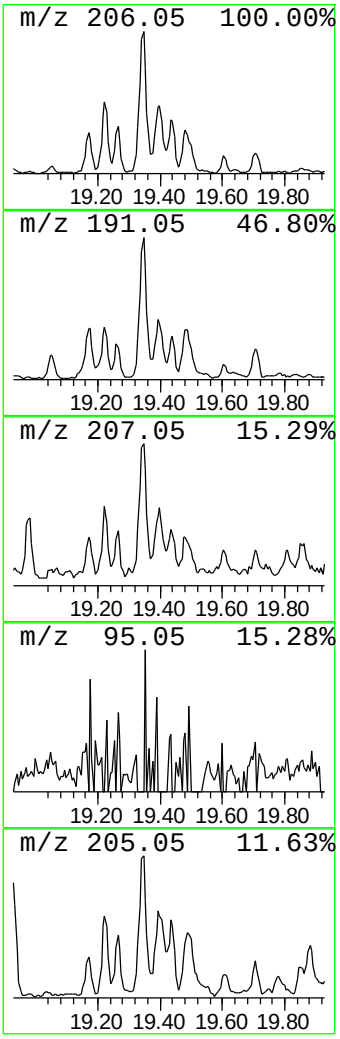
Peak Number 31 1,4-Diphenyl-1,3-butadiene Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.43	2.81 ng/ul	554715	Phenanthrene-d10	17.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	74
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	74
3	Scoparone	206	C11H10O4	000120-08-1	72
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	72
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	64





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Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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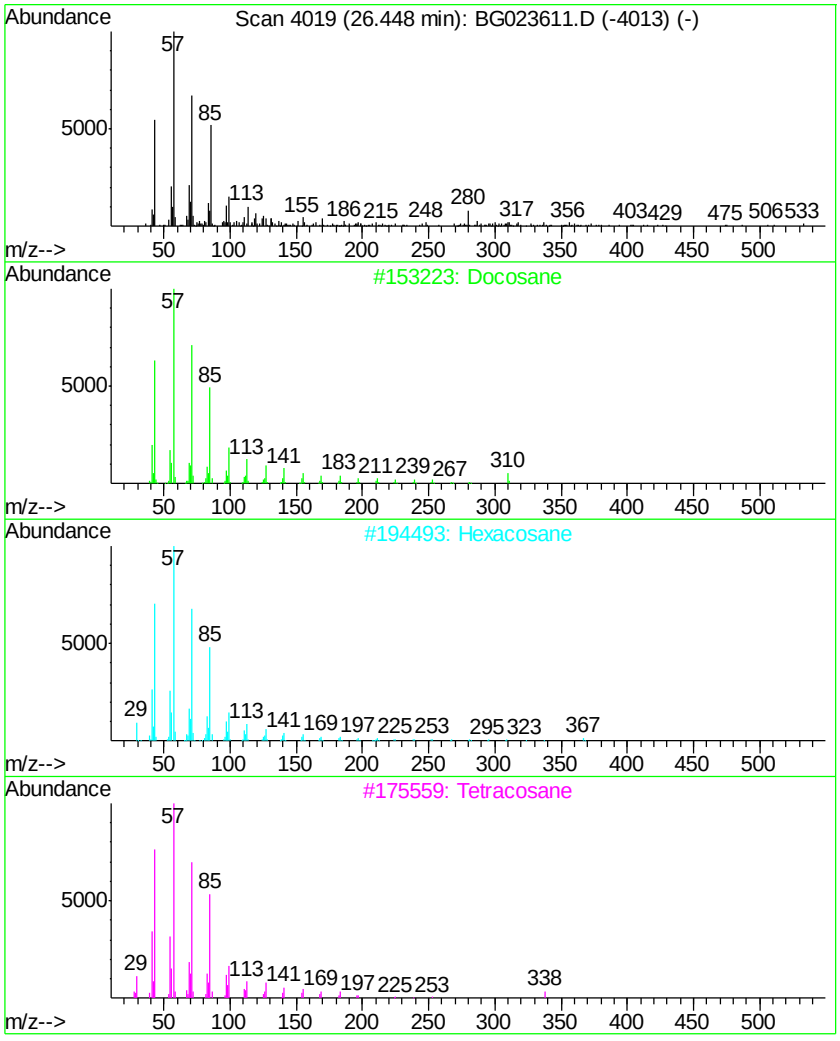
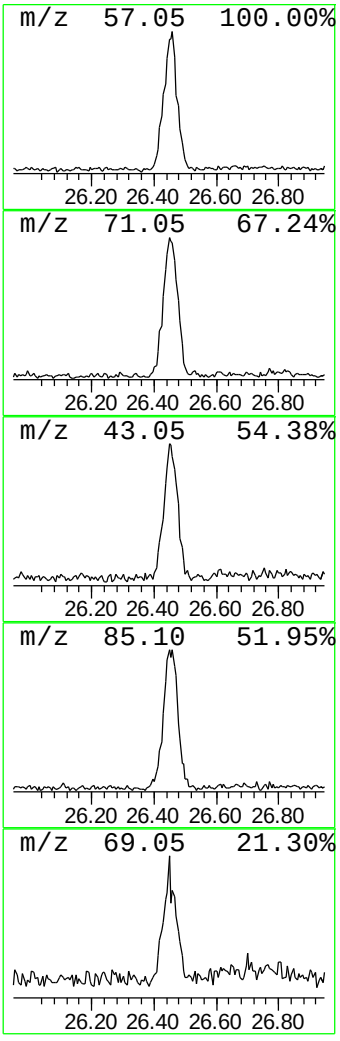
Peak Number 53 (DEL) Alkane: Straight-Chai... Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.45	2.37 ng/ul	472662	Perylene-d12	25.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane	310	C22H46	000629-97-0	83
2	Hexacosane	366	C26H54	000630-01-3	83
3	Tetracosane	338	C24H50	000646-31-1	83
4	Tridecanol, 2-ethyl-2-methyl-	242	C16H34O	1000115-66-1	80
5	10-Methylnonadecane	282	C20H42	056862-62-5	80





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023611.D
Acq On : 11 Aug 2016 3:14
Operator : UM/SJ
Sample : H4384-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.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
Naphthalene, 2,6-...	13.96	2.1	ng/ul	351787	3	14.79	3352300	20.0
Naphthalene, 2,3-...	14.11	5.0	ng/ul	843227	3	14.79	3352300	20.0
Naphthalene, 1,3-...	14.35	2.3	ng/ul	380615	3	14.79	3352300	20.0
Naphthalene, 1,6,...	15.26	2.5	ng/ul	413015	3	14.79	3352300	20.0
Naphthalene, 1,4,...	15.41	2.7	ng/ul	446199	3	14.79	3352300	20.0
2,4,6-Cycloheptat...	16.14	3.0	ng/ul	503219	3	14.79	3352300	20.0
6H-Dibenzo[b,d]-p...	16.29	2.5	ng/ul	492330	4	17.56	3954300	20.0
9H-Fluorene, 2-me...	16.85	4.7	ng/ul	924390	4	17.56	3954300	20.0
Naphtho[2,1-b]fur...	17.08	2.1	ng/ul	414373	4	17.56	3954300	20.0
9H-Fluoren-9-one	17.21	2.3	ng/ul	453267	4	17.56	3954300	20.0
8-Dimethylaminona...	17.28	2.1	ng/ul	417732	4	17.56	3954300	20.0
Dibenzothiophene	17.37	4.8	ng/ul	952231	4	17.56	3954300	20.0
Anthracene, 9-eth...	18.07	2.1	ng/ul	415344	4	17.56	3954300	20.0
O,O,O-Triethyl th...	18.14	4.9	ng/ul	971169	4	17.56	3954300	20.0
Dibenzothiophene,...	18.28	3.8	ng/ul	749903	4	17.56	3954300	20.0
Phenanthrene, 2-m...	18.44	16.0	ng/ul	3169850	4	17.56	3954300	20.0
Phenanthrene, 1-m...	18.48	17.2	ng/ul	3393880	4	17.56	3954300	20.0
Phenanthrene, 3-m...	18.56	2.3	ng/ul	456940	4	17.56	3954300	20.0
4H-Cyclopenta[def...	18.63	19.8	ng/ul	3912570	4	17.56	3954300	20.0
Naphthalene, 2-ph...	18.93	8.6	ng/ul	1692320	4	17.56	3954300	20.0
9,10-Anthracenedione	18.98	9.1	ng/ul	1805690	4	17.56	3954300	20.0
Phenanthrene, 3,6...	19.22	4.2	ng/ul	824922	4	17.56	3954300	20.0
Phenanthrene, 1,7...	19.26	3.0	ng/ul	589263	4	17.56	3954300	20.0
Phenanthrene, 2,5...	19.35	11.0	ng/ul	2178010	4	17.56	3954300	20.0
Indeno[2,1-a]inde...	19.40	7.2	ng/ul	1420850	4	17.56	3954300	20.0
1,4-Diphenyl-1,3-...	19.43	2.8	ng/ul	554715	4	17.56	3954300	20.0
(DEL) Alkane: Str...	26.45	2.4	ng/ul	472662	6	25.28	3981910	20.0