LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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	4.013	197	200	206	rVB4	20950	35329	0.74%	0.055%
2	4.460	273	276	284	rVB6	18713	26769	0.56%	0.042%
3	4.642	305	307	309	rBV2	6494	7787	0.16%	0.012%
4	4.877	343	347	350	rBV4	10140	12212	0.25%	0.019%
5	6.028	542	543	549	rBV5	4623	8193	0.17%	0.013%
6	6.175	565	568	570	rVB3	6360	8201	0.17%	0.013%
7	6.410	603	608	609	rBV4	5983	8210	0.17%	0.013%
8	7.097	722	725	732	rBV6	10164	18268	0.38%	0.029%
9	7.262	747	753	763	rBV	552221	992610	20.66%	1.551%
10	7.426	774	781	793	rVB	456418	768161	15.99%	1.200%
11	7.638	811	817	827	rVB	561894	957347	19.93%	1.496%
12	8.107	891	897	906	rBV	658828	1141083	23.75%	1.783%
13	8.536	966	970	973	rVB4	6783	7556	0.16%	0.012%
14	8.660	988	991	992	rBV3	9660	8041	0.17%	0.013%
15	8.824	1012	1019	1032	rVV2	683526	1257046	26.17%	1.964%
16	8.989	1045	1047	1051	rVB4	9168	9731	0.20%	0.015%
17	9.288	1091	1098	1106	rBV	568481	1028546	21.41%	1.607%
18	9.400	1112	1117	1127	rVB5	36732	79742	1.66%	0.125%
19	10.017	1214	1222	1233	rBV	503717	919171	19.13%	1.436%
20	10.569	1308	1316	1329	rBV	730997	1406823	29.28%	2.198%
21	10.945	1372	1380	1388	rBV	1031335	1871510	38.96%	2.924%
22	11.086	1397	1404	1418	rBV2	639605	1217327	25.34%	1.902%
23	11.750	1513	1517	1522	rBV7	9438	18132	0.38%	0.028%
24	11.914	1540	1545	1548	rVB6	10578	14783	0.31%	0.023%
25	12.049	1564	1568	1571	rBV2	6957	12290	0.26%	0.019%
26	12.173	1586	1589	1592	rBV3	7480	9998	0.21%	0.016%
27	12.243	1596	1601	1602	rBV4	6510	7874	0.16%	0.012%
28	12.349	1614	1619	1621	rBV6	6420	12097	0.25%	0.019%
29	12.419	1624	1631	1632	rBV6	10452	12872	0.27%	0.020%
30	12.531	1646	1650	1653	rBV4	15988	20409	0.42%	0.032%
31	12.613	1656	1664	1667	rBV9	11129	21786	0.45%	0.034%
32	12.748	1682	1687	1689	rVB5	6994	7567	0.16%	0.012%
33	12.825	1697	1700	1705	rBV5	11052	18620	0.39%	0.029%
34	13.118	1746	1750	1756	rVB5	21303	32907	0.68%	0.051%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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	13.371	1787	1793	1798	rBV3	39619	56950	1.19%	0.089%
36	13.424	1798	1802	1806	rBV6	18073	27773	0.58%	0.043%
37	13.571	1822	1827	1828	rBV4	6423	10013	0.21%	0.016%
38	13.653	1833	1841	1849	rVV2	56004	100819	2.10%	0.158%
39	13.847	1872	1874	1878	rVB5	7213	7453	0.16%	0.012%
40	13.953	1886	1892	1894	rBV7	10299	19596	0.41%	0.031%
41	14.094	1912	1916	1922	rBV4	22722	44733	0.93%	0.070%
42	14.176	1922	1930	1934	rVV	1528526	2356766	49.06%	3.682%
43	14.223	1934	1938	1945	rVV	1357510	2002126	41.68%	3.128%
44	14.293	1947	1950	1953	rVB5	7440	8540	0.18%	0.013%
45	14.340	1953	1958	1961	rBV7	18549	31948	0.67%	0.050%
46	14.475	1974	1981	1993	rBV	1670732	2778011	57.83%	4.340%
47	14.652	2008	2011	2014	rVB3	16216	14136	0.29%	0.022%
48	14.740	2020	2026	2027	rBV6	11864	20861	0.43%	0.033%
49	14.781	2027	2033	2042	rVV2	1760801	2997596	62.40%	4.683%
50	14.845	2042	2044	2051	rVB8	22343	30145	0.63%	0.047%
51	14.904	2051	2054	2056	rBV4	6895	8006	0.17%	0.013%
52	14.998	2063	2070	2083	rBV2	556568	1178131	24.52%	1.841%
53	15.251	2110	2113	2117	rVB5	25382	38579	0.80%	0.060%
54	15.392	2132	2137	2142	rBV5	27986	51067	1.06%	0.080%
55	15.456	2144	2148	2152	rVB4	19776	25326	0.53%	0.040%
56	15.562	2161	2166	2169	rBV2	56771	85665	1.78%	0.134%
57	15.603	2171	2173	2178	rVB3	53713	59730	1.24%	0.093%
58	15.656	2178	2182	2188	rBV8	23166	33502	0.70%	0.052%
59	15.779	2196	2203	2210	rBV	2334206	3627592	75.51%	5.667%
60	15.903	2218	2224	2232	rBV2	780147	1162472	24.20%	1.816%
61	16.014	2241	2243	2252	rVB10	50885	81805	1.70%	0.128%
62	16.120	2255	2261	2262	rBV6	23028	36969	0.77%	0.058%
63	16.343	2296	2299	2304	rBV6	14641	26817	0.56%	0.042%
64	16.473	2317	2321	2324	rBV2	69314	102145	2.13%	0.160%
65	16.661	2345	2353	2359	rBV4	45188	131158	2.73%	0.205%
66	17.272	2453	2457	2462	rVB3	89529	125988	2.62%	0.197%
67	17.324	2462	2466	2470	rBV6	40624	66260	1.38%	0.104%
68	17.360	2470	2472	2478	rVB	50296	74831	1.56%	0.117%
69	17.548	2498	2504	2508	rBV2	2398879	3756735	78.20%	5.869%
70	17.589	2508	2511	2515	rVV	520705	740358	15.41%	1.157%
71	17.648	2515	2521	2531	rVB2	2513319	3837985	79.89%	5.996%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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	17.812	2547	2549	2553	rVB	51098	46867	0.98%	0.073%
73	17.906	2561	2565	2572	rBV6	104905	235578	4.90%	0.368%
74	18.018	2581	2584	2589	rVB4	62128	77636	1.62%	0.121%
75	18.129	2600	2603	2610	rVB	118994	185995	3.87%	0.291%
76	18.276	2623	2628	2637	rVB2	79039	184755	3.85%	0.289%
77	18.358	2639	2642	2647	rVV6	62310	107050	2.23%	0.167%
78	18.423	2648	2653	2658	rVV2	755190	1232507	25.66%	1.925%
79	18.476	2658	2662	2670	rVB2	474742	753941	15.69%	1.178%
80	18.617	2681	2686	2690	rBV2	363578	654574	13.63%	1.023%
81	18.658	2690	2693	2698	rVB	289903	396794	8.26%	0.620%
82	18.705	2698	2701	2704	rBV2	44891	67210	1.40%	0.105%
83	18.916	2733	2737	2741	rBV2	166344	256650	5.34%	0.401%
84	19.216	2784	2788	2791	rBV	271070	350307	7.29%	0.547%
85	19.257	2791	2795	2799	rVB3	179619	239383	4.98%	0.374%
86	19.333	2804	2808	2813	rBV	602540	939340	19.55%	1.467%
87	19.392	2814	2818	2822	rBV3	172421	271013	5.64%	0.423%
88	19.474	2828	2832	2838	rBV4	204691	448408	9.33%	0.701%
89	19.604	2849	2854	2859	rVB	987296	1412164	29.40%	2.206%
90	19.692	2866	2869	2875	rVB3	239571	342254	7.12%	0.535%
91	19.939	2906	2911	2914	rBV	2807144	4329752	90.13%	6.764%
92	20.033	2923	2927	2932	rVB2	283362	436178	9.08%	0.681%
93	20.303	2966	2973	2978	rVB5	205085	502522	10.46%	0.785%
94	20.614	3023	3026	3030	rVB	371779	476481	9.92%	0.744%
95	20.755	3047	3050	3054	rBV2	328408	436944	9.10%	0.683%
96	20.802	3055	3058	3070	rVB2	295317	544144	11.33%	0.850%
97	21.472	3169	3172	3177	rVB2	173970	232491	4.84%	0.363%
98	21.865	3231	3239	3244	rBV3	2291903	4804071	100.00%	7.505%
99	25.026	3770	3777	3785	rVB2	1099038	2724021	56.70%	4.256%
100	25.261	3808	3817	3828	rVB2	1246525	3583921	74.60%	5.599%

Sum of corrected areas: 64010536

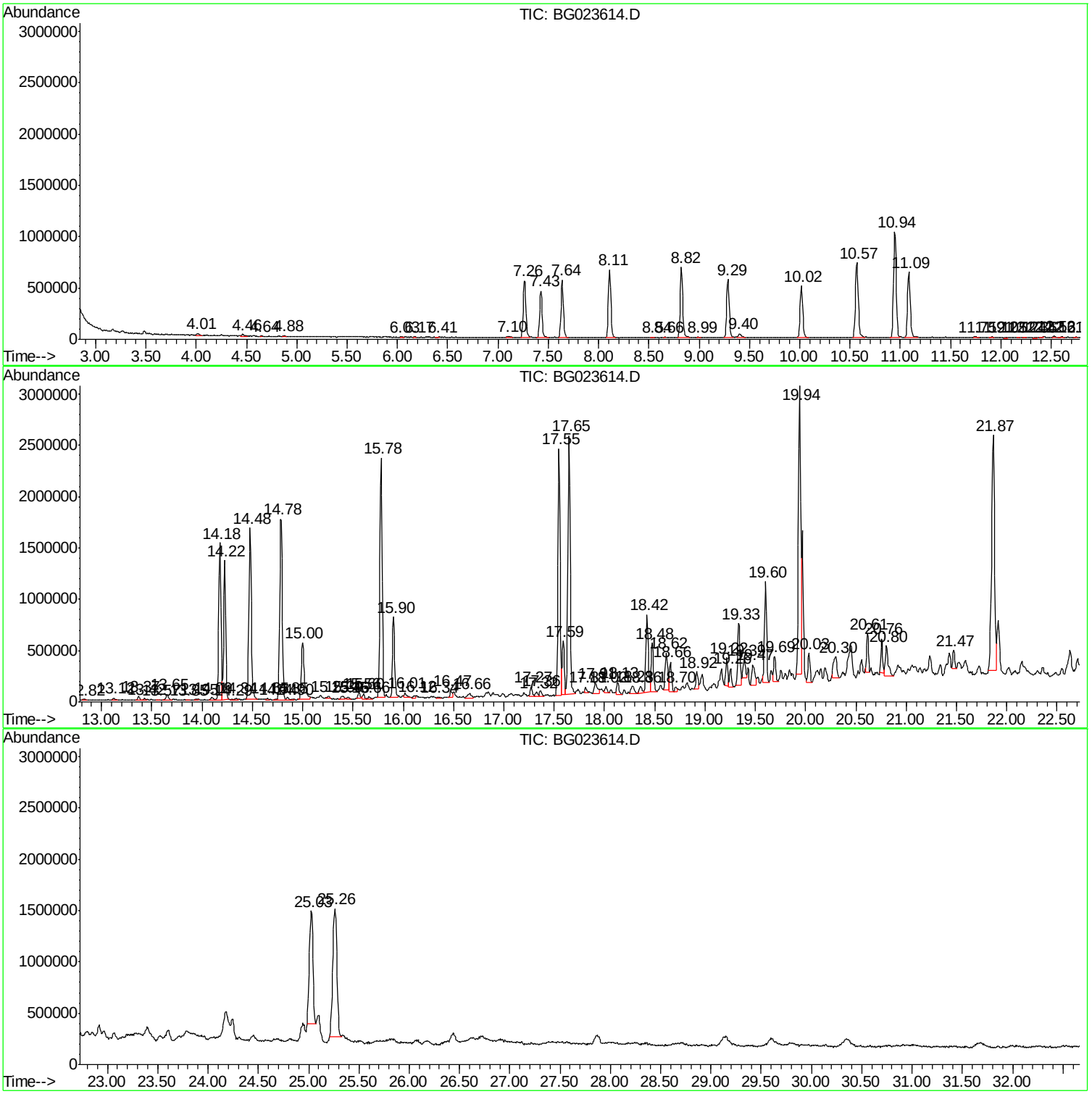
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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

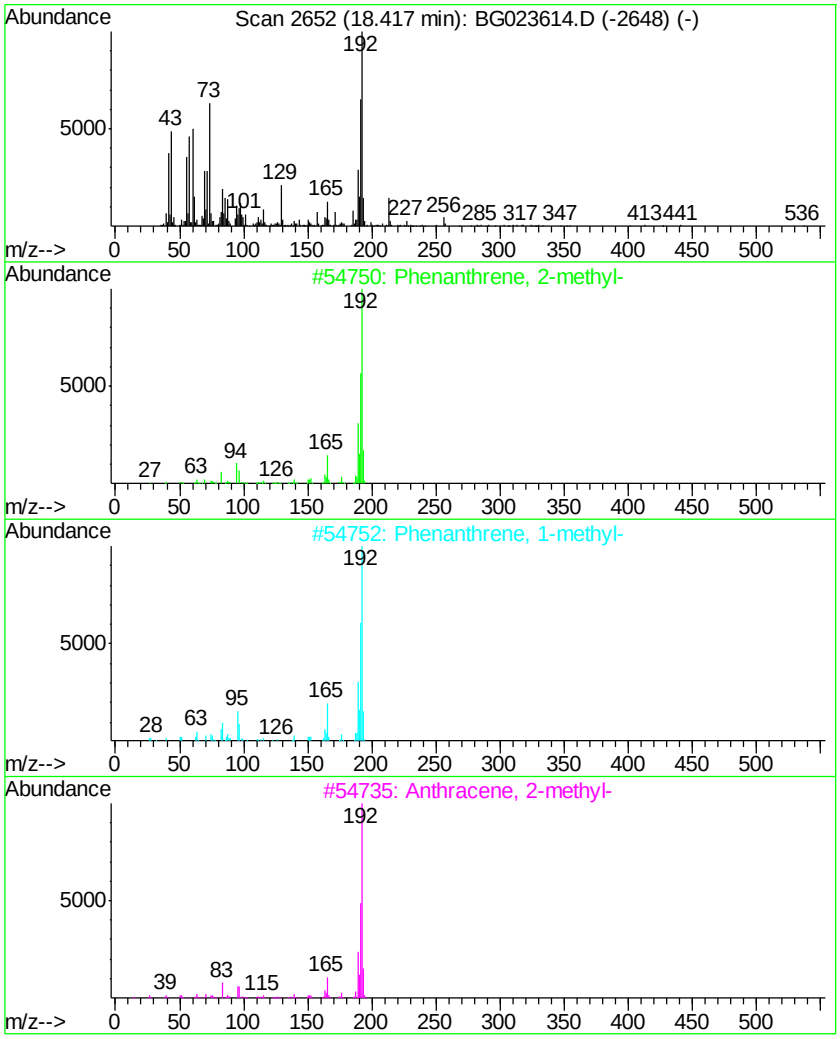
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

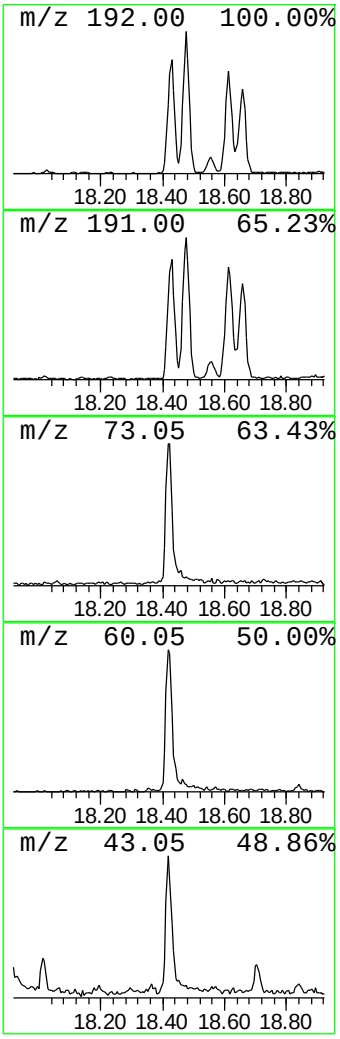
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.42	6.56 ng/ul	1232510	Phenanthrene-d10	17.55

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	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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

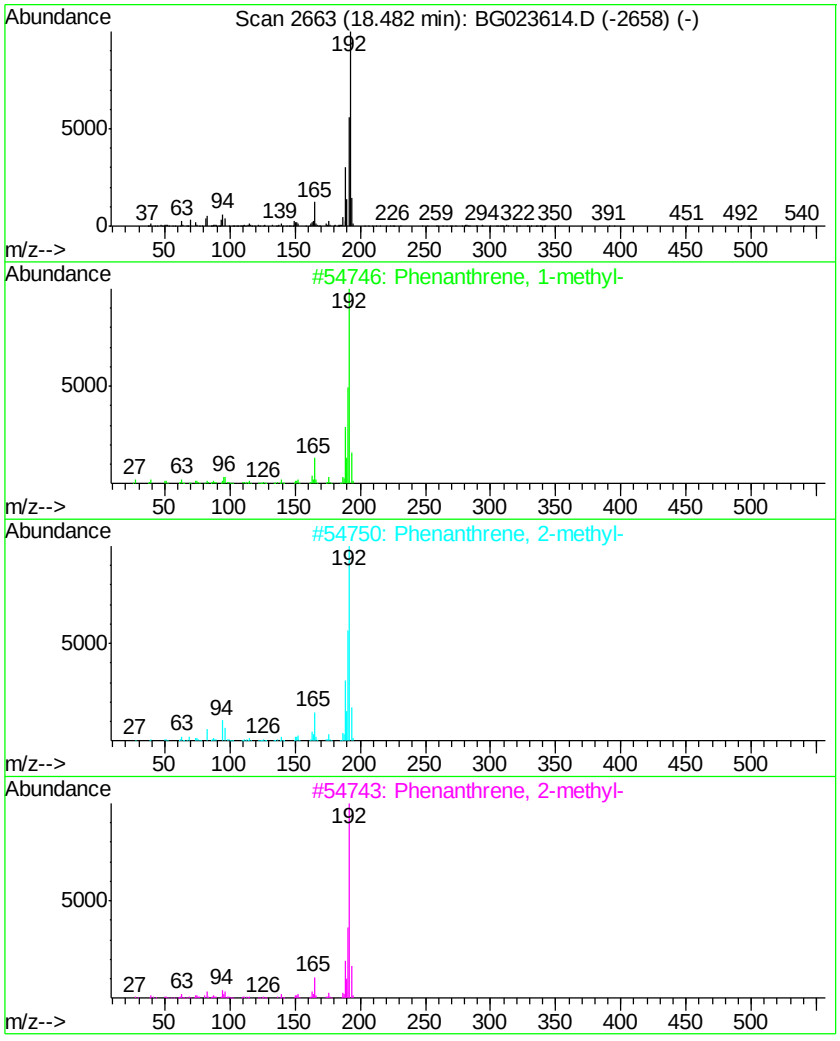
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

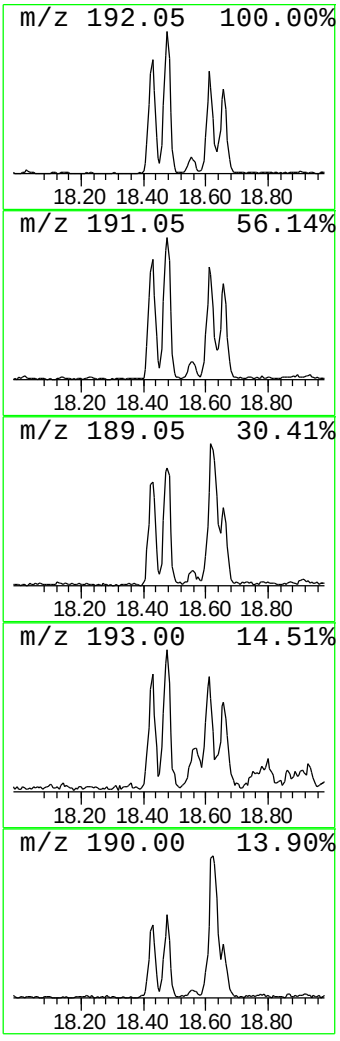
****

Peak Number 2 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	4.01 ng/ul	753941	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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

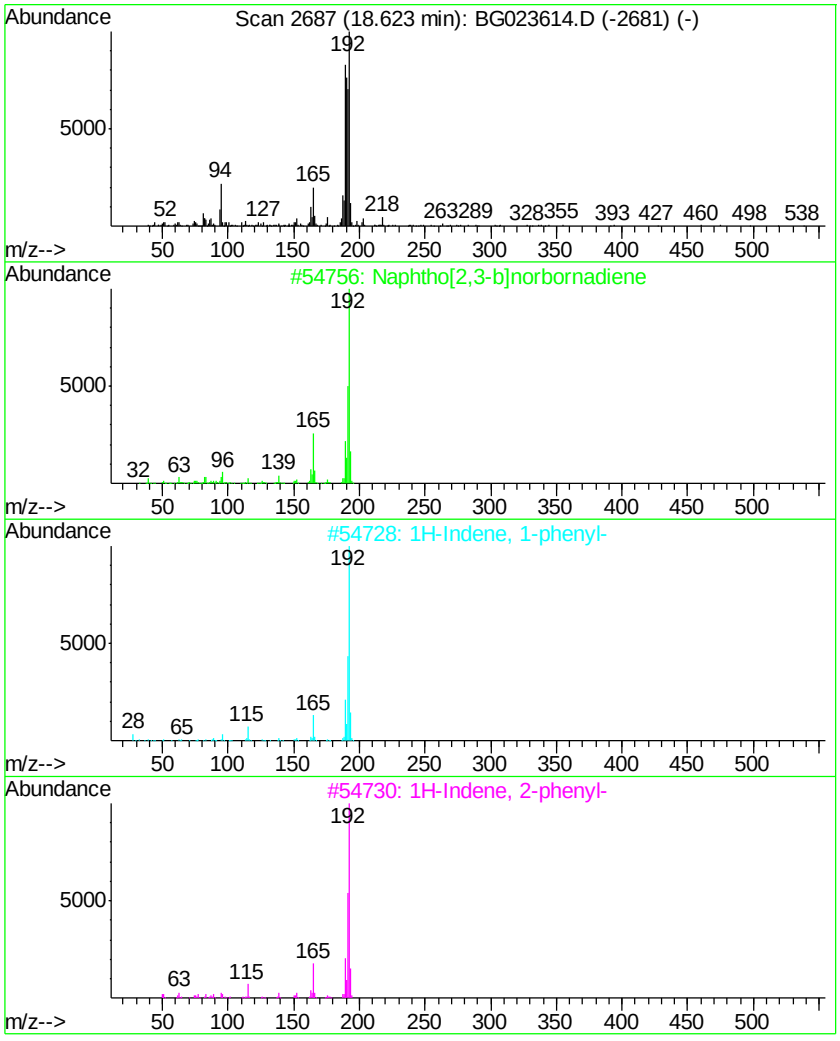
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

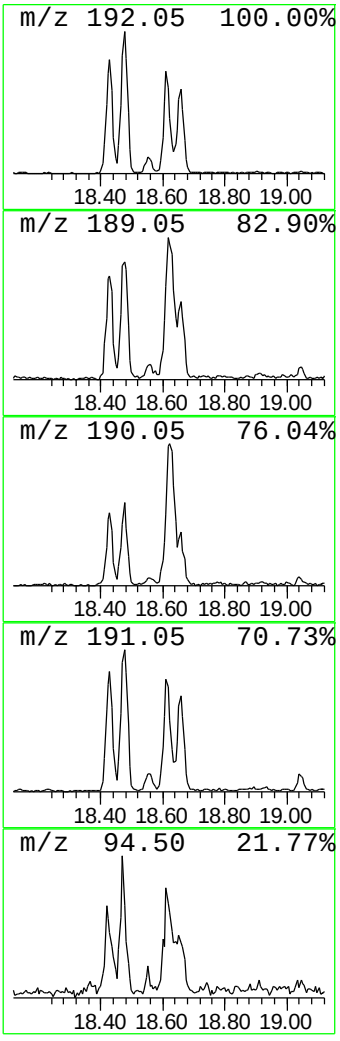
****

Peak Number 3 Naphtho[2,3-b]norbornadiene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.62	3.48 ng/ul	654574	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	64
2	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	64
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	60
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	60
5	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	60





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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

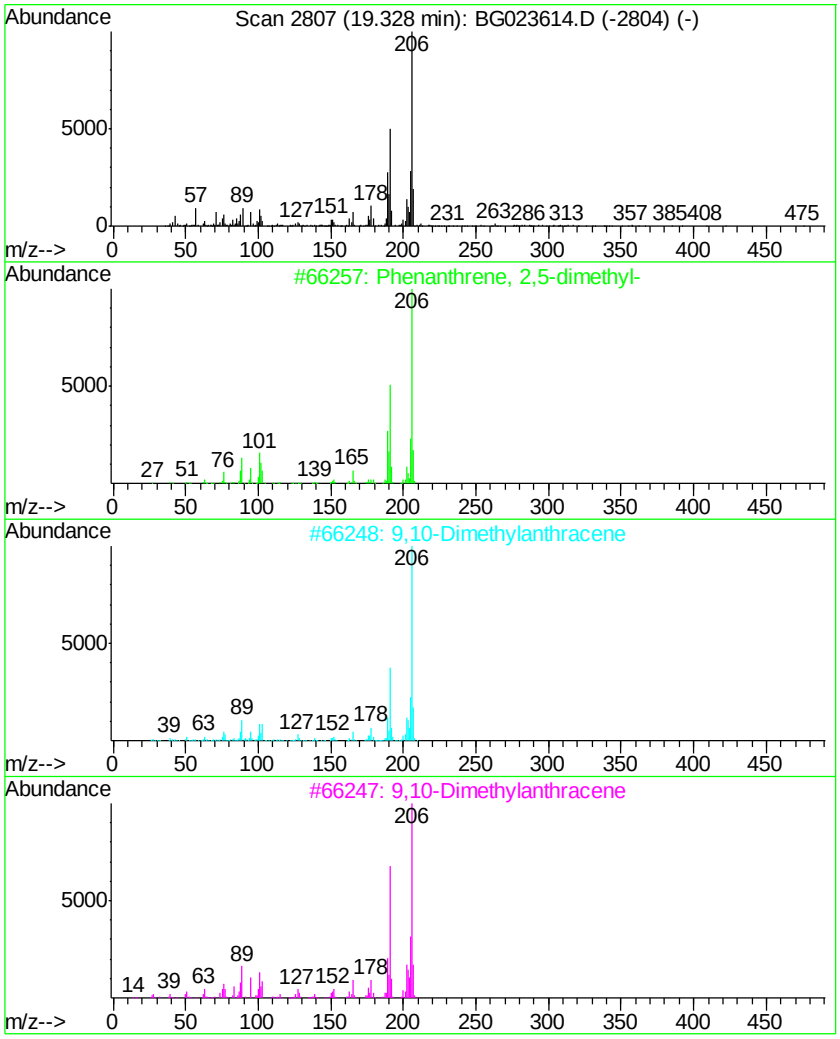
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

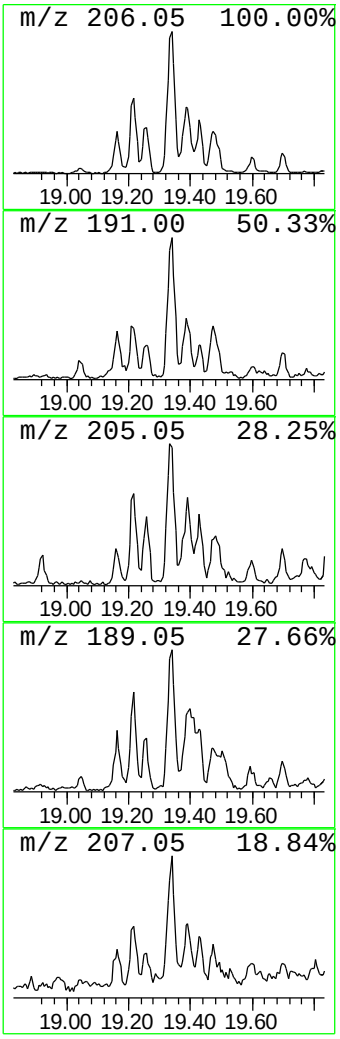
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.33	5.00 ng/ul	939340	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	90





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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

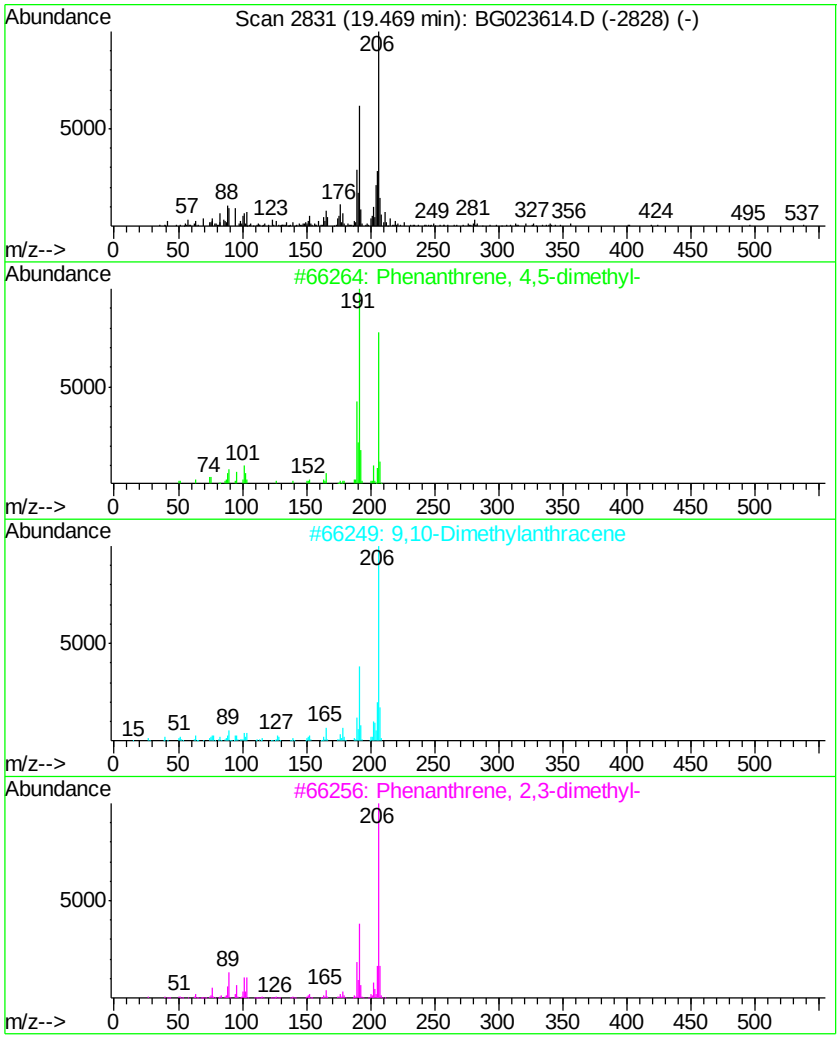
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

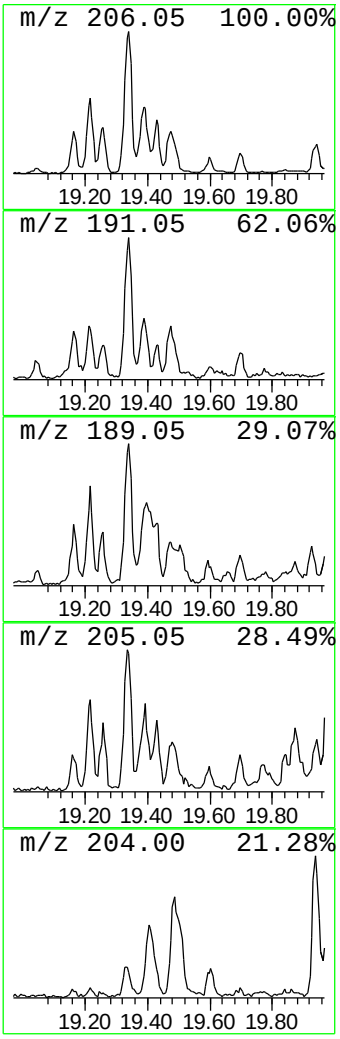
****

Peak Number 6 Phenanthrene, 4,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.47	2.39 ng/ul	448408	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	86
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	86
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	81
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	81
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	76





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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

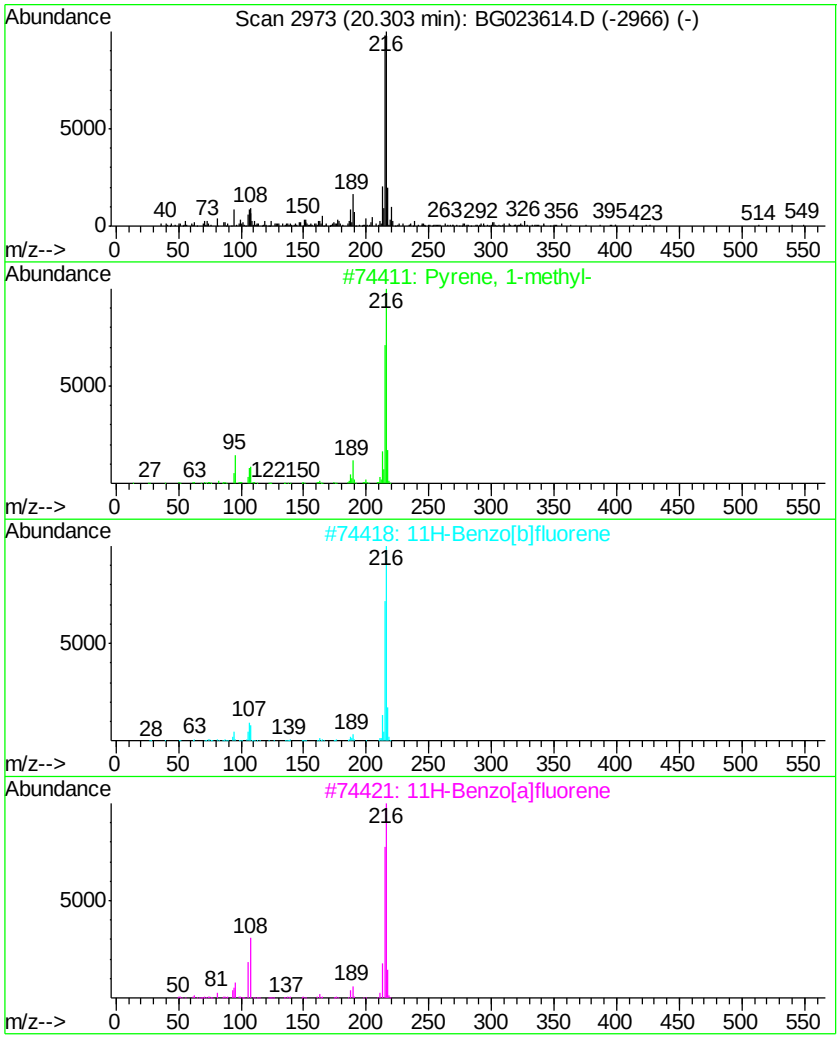
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

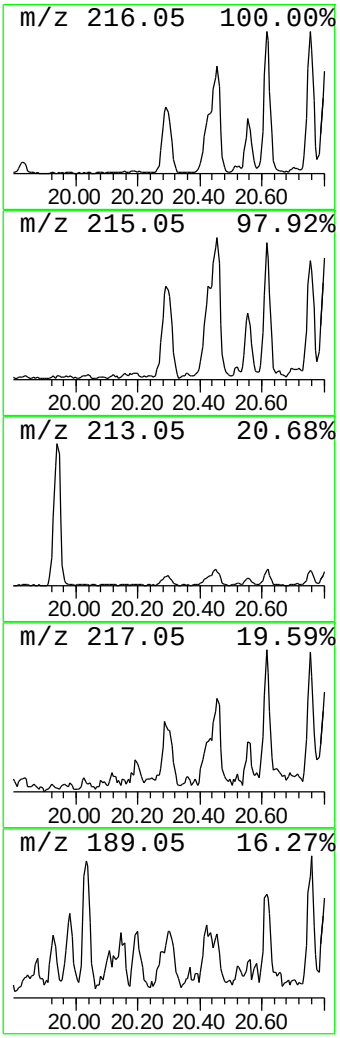
****

Peak Number 7 Pyrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.30	2.09 ng/ul	502522	Chrysene-d12	21.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	80





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
Data File : BG023614.D
Acq On : 11 Aug 2016 5:07
Operator : UM/SJ
Sample : H4384-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : P001-SS001-0206-01

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
Phenanthrene, 2-m...	18.42	6.6	ng/ul	1232510	4	17.55	3756740	20.0
Phenanthrene, 1-m...	18.48	4.0	ng/ul	753941	4	17.55	3756740	20.0
Naphtho[2,3-b]nor...	18.62	3.5	ng/ul	654574	4	17.55	3756740	20.0
Phenanthrene, 2,5...	19.33	5.0	ng/ul	939340	4	17.55	3756740	20.0
Phenanthrene, 4,5...	19.47	2.4	ng/ul	448408	4	17.55	3756740	20.0
Pyrene, 1-methyl-	20.30	2.1	ng/ul	502522	5	21.87	4804070	20.0