LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021869.D
Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

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-BG050916.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	7.321	753	763	772	rBV2	69059	142496	1.45%	0.181%
2	7.491	786	792	806	rBV	58509	115923	1.18%	0.147%
3	7.703	820	828	838	rBV	88356	175133	1.78%	0.222%
4	8.173	900	908	922	rBV	150752	295230	3.01%	0.374%
5	8.872	1019	1027	1037	rBV	107406	218021	2.22%	0.276%
6	9.342	1099	1107	1118	rBV	65407	141412	1.44%	0.179%
7	10.071	1223	1231	1246	rBV	60739	133658	1.36%	0.169%
8	10.605	1314	1322	1339	rBV	119303	251314	2.56%	0.318%
9	10.993	1379	1388	1404	rBV	284698	585833	5.96%	0.742%
10	11.128	1404	1411	1420	rBV2	49992	120394	1.23%	0.153%
11	12.638	1662	1668	1676	rVB3	8007	15539	0.16%	0.020%
12	12.856	1699	1705	1710	rBV3	7967	15309	0.16%	0.019%
13	13.672	1840	1844	1850	rVB5	5915	9993	0.10%	0.013%
14	14.119	1914	1920	1924	rBV4	6030	11072	0.11%	0.014%
15	14.195	1924	1933	1937	rVV	229950	390374	3.97%	0.495%
16	14.242	1937	1941	1948	rVV	43876	76534	0.78%	0.097%
17	14.489	1976	1983	1995	rBV	317448	550550	5.61%	0.698%
18	14.671	2007	2014	2018	rBV2	12956	20926	0.21%	0.027%
19	14.795	2022	2035	2042	rBV2	491307	894058	9.10%	1.133%
20	14.859	2042	2046	2053	rVB	72777	117549	1.20%	0.149%
21	14.989	2063	2068	2077	rBV2	26744	80449	0.82%	0.102%
22	15.188	2098	2102	2109	rVB2	11076	21512	0.22%	0.027%
23	15.617	2171	2175	2180	rVB3	21989	31811	0.32%	0.040%
24	15.782	2194	2203	2209	rBV	389114	678241	6.91%	0.859%
25	15.835	2209	2212	2218	rVB2	30164	50790	0.52%	0.064%
26	15.917	2220	2226	2229	rBV7	9116	19745	0.20%	0.025%
27	15.958	2231	2233	2237	rVV3	6409	10169	0.10%	0.013%
28	16.011	2238	2242	2247	rVB6	10817	23822	0.24%	0.030%
29	16.275	2283	2287	2296	rVB4	6231	12760	0.13%	0.016%
30	16.475	2316	2321	2324	rBV2	20633	33200	0.34%	0.042%
31	16.816	2371	2379	2380	rBV6	8045	16777	0.17%	0.021%
32	16.892	2388	2392	2397	rVB5	7574	11216	0.11%	0.014%
33	17.063	2414	2421	2423	rBV8	5257	10044	0.10%	0.013%
34	17.192	2437	2443	2449	rBV	14703	25762	0.26%	0.033%

LSC Area Percent Report

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Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

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-BG050916.M
Title : SVOA CALIBRATION

35	17.292	2452	2460	2466	rVV5	26016	70832	0.72%	0.090%
36	17.356	2468	2471	2480	rVB	21647	37351	0.38%	0.047%
37	17.538	2495	2502	2506	rBV2	575280	1018981	10.37%	1.291%
38	17.580	2506	2509	2514	rVV	500470	784287	7.98%	0.994%
39	17.638	2514	2519	2530	rVV3	403320	823943	8.39%	1.044%
40	17.726	2530	2534	2541	rVB	21487	41679	0.42%	0.053%
41	17.938	2561	2570	2579	rBV2	99681	207891	2.12%	0.263%
42	18.061	2587	2591	2595	rBV6	8363	11234	0.11%	0.014%
43	18.108	2595	2599	2604	rVB4	45623	65446	0.67%	0.083%
44	18.267	2620	2626	2631	rVB9	6421	14661	0.15%	0.019%
45	18.414	2644	2651	2654	rBV	62293	107621	1.10%	0.136%
46	18.461	2654	2659	2666	rVB2	90489	164845	1.68%	0.209%
47	18.537	2668	2672	2677	rVB2	23097	38072	0.39%	0.048%
48	18.608	2677	2684	2695	rBV3	114036	287871	2.93%	0.365%
49	18.696	2697	2699	2705	rBV6	9726	16041	0.16%	0.020%
50	18.755	2705	2709	2713	rBV4	15736	24938	0.25%	0.032%
51	18.902	2730	2734	2738	rBV	44231	75154	0.77%	0.095%
52	19.148	2770	2776	2779	rBV6	27376	54032	0.55%	0.068%
53	19.313	2801	2804	2811	rVB4	32863	56269	0.57%	0.071%
54	19.460	2825	2829	2836	rVB4	31856	65153	0.66%	0.083%
55	19.524	2837	2840	2843	rBV4	20966	33784	0.34%	0.043%
56	19.583	2843	2850	2857	rVB	1929722	3024938	30.80%	3.833%
57	19.677	2863	2866	2871	rVB2	32102	44456	0.45%	0.056%
58	19.824	2887	2891	2899	rVB2	74682	143267	1.46%	0.182%
59	19.918	2900	2907	2908	rBV3	865805	1293168	13.17%	1.639%
60	19.947	2908	2912	2918	rVV	1898513	3090296	31.46%	3.916%
61	20.006	2919	2922	2926	rVB2	53369	73603	0.75%	0.093%
62	20.118	2936	2941	2946	rBV	78686	126579	1.29%	0.160%
63	20.182	2946	2952	2958	rBV	195610	340098	3.46%	0.431%
64	20.259	2960	2965	2971	rVV4	135917	314495	3.20%	0.398%
65	20.318	2971	2975	2981	rVB	106194	153530	1.56%	0.195%
66	20.429	2981	2994	2999	rBV	459835	981110	9.99%	1.243%
67	20.476	3000	3002	3005	rVB3	26721	23397	0.24%	0.030%
68	20.529	3006	3011	3015	rBV	365825	538811	5.49%	0.683%
69	20.588	3016	3021	3024	rVV2	162204	251057	2.56%	0.318%
70	20.623	3024	3027	3032	rVB	113826	149233	1.52%	0.189%
71	20.729	3040	3045	3049	rBV	166493	271020	2.76%	0.343%

LSC Area Percent Report

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Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

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-BG050916.M
Title : SVOA CALIBRATION

72	20.776	3049	3053	3062	rVB	162151	278798	2.84%	0.353%
73	21.070	3099	3103	3113	rVB2	167932	350887	3.57%	0.445%
74	21.158	3114	3118	3122	rVV4	76611	159966	1.63%	0.203%
75	21.205	3122	3126	3133	rVB2	128288	249893	2.54%	0.317%
76	21.393	3152	3158	3162	rBV	414715	739847	7.53%	0.937%
77	21.434	3162	3165	3169	rVB	191443	283297	2.88%	0.359%
78	21.493	3169	3175	3180	rBV2	312805	598715	6.10%	0.759%
79	21.687	3203	3208	3214	rVB3	162098	309271	3.15%	0.392%
80	21.816	3218	3230	3236	rVV3	2337402	6394400	65.10%	8.102%
81	21.880	3236	3241	3253	rVB	2113892	4204611	42.81%	5.328%
82	22.033	3262	3267	3274	rBV	346431	635595	6.47%	0.805%
83	22.180	3287	3292	3298	rVV	265469	505618	5.15%	0.641%
84	22.245	3298	3303	3311	rVB2	484446	1008281	10.27%	1.278%
85	22.580	3357	3360	3366	rVB	278977	485783	4.95%	0.616%
86	22.656	3369	3373	3380	rVB	184520	351737	3.58%	0.446%
87	22.868	3403	3409	3412	rBV2	230869	507650	5.17%	0.643%
88	22.915	3413	3417	3424	rVB5	258461	609843	6.21%	0.773%
89	24.137	3610	3625	3631	rBV	2550459	9822329	100.00%	12.446%
90	24.383	3659	3667	3676	rBV	357692	950883	9.68%	1.205%
91	24.589	3697	3702	3713	rBV2	108705	325785	3.32%	0.413%
92	24.889	3740	3753	3767	rBV	1446538	5653254	57.56%	7.163%
93	25.047	3768	3780	3791	rVB	2371754	7376492	75.10%	9.347%
94	25.182	3795	3803	3808	rBV	354600	1028934	10.48%	1.304%
95	25.265	3810	3817	3832	rVB3	748945	2581544	26.28%	3.271%
96	29.084	4449	4467	4483	rVB3	1260302	7533281	76.70%	9.545%
97	30.282	4648	4671	4695	rBV	908049	5847384	59.53%	7.409%

Sum of corrected areas: 78920837

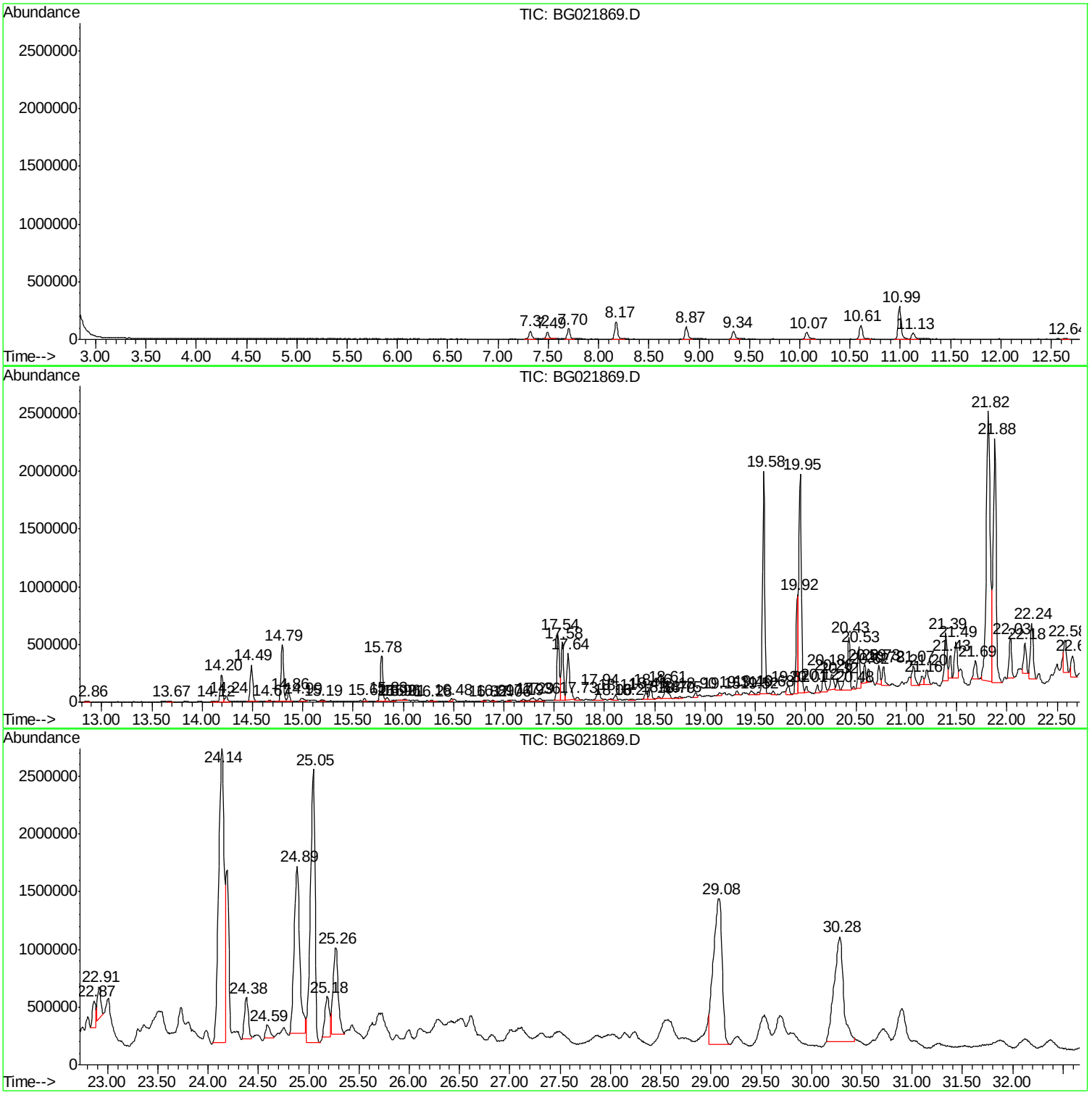
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021869.D
Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021869.D
Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

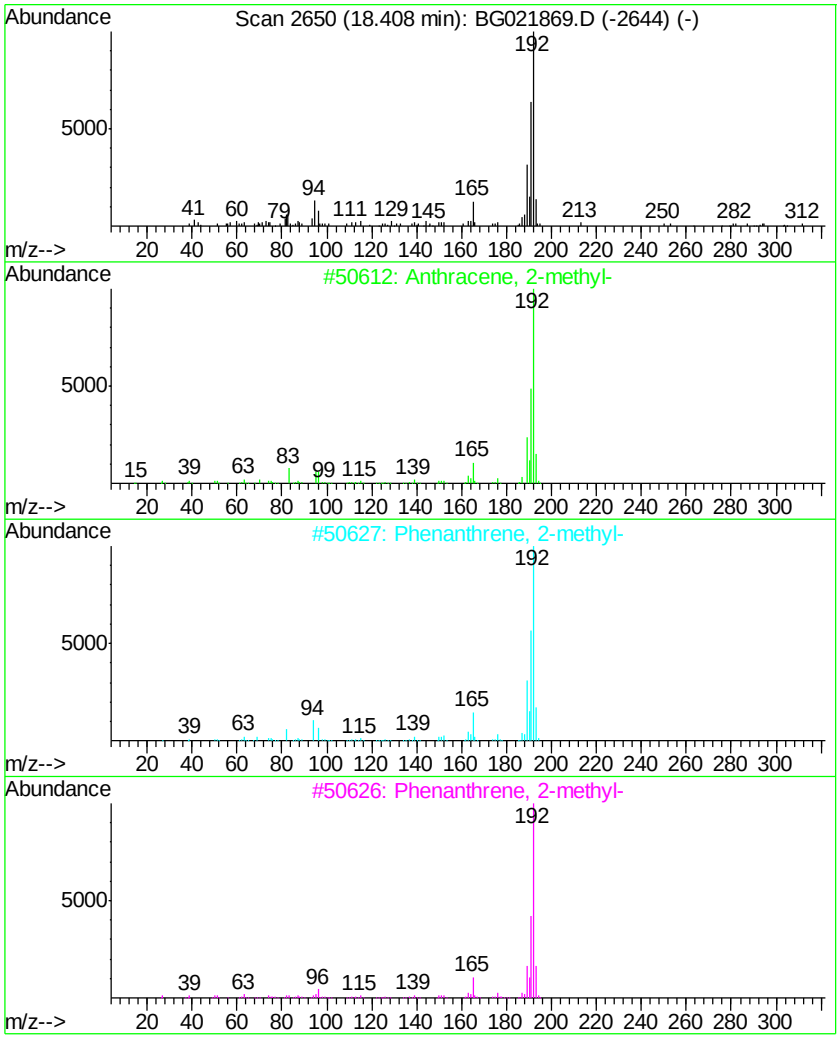
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

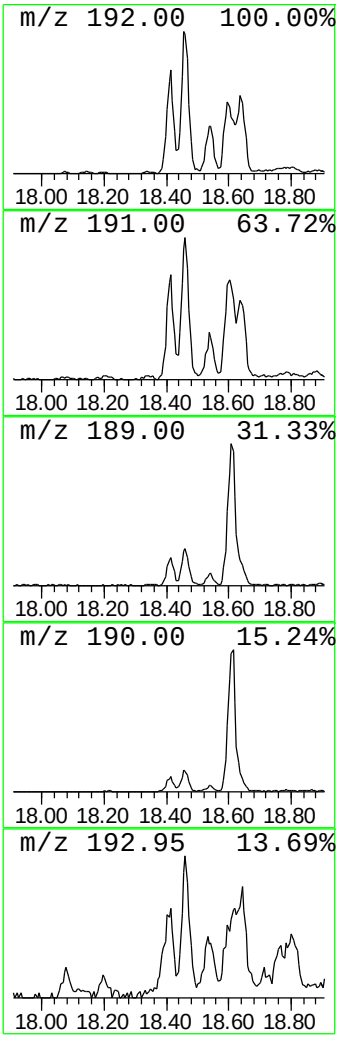
****

Peak Number 1 Anthracene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.41	2.11 ng/ul	107621	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	81





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021869.D
Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

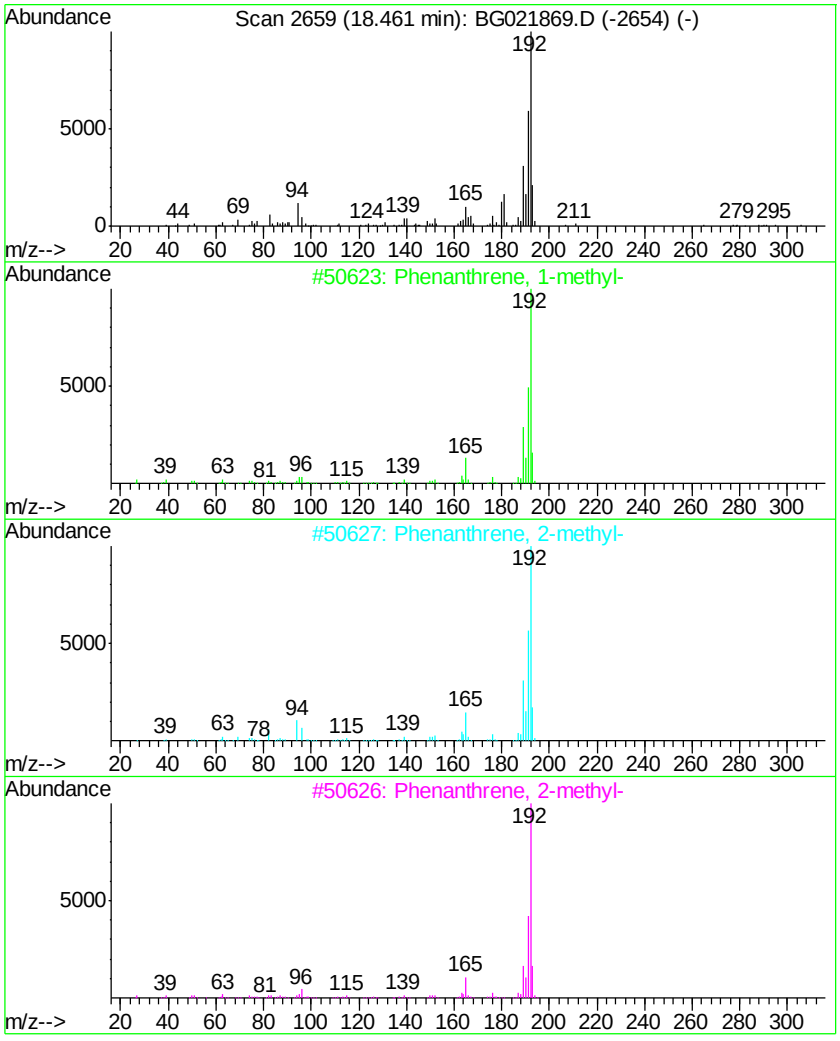
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

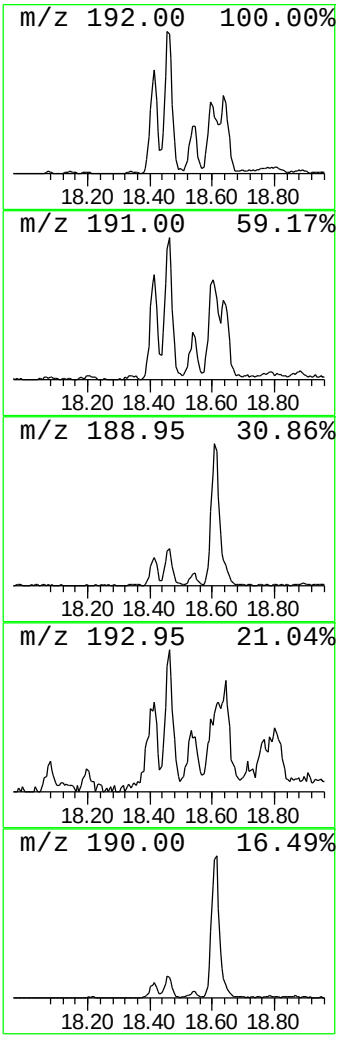
****

Peak Number 2 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.46	3.24 ng/ul	164845	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	86
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	76
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	76
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	76
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	76





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021869.D
Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

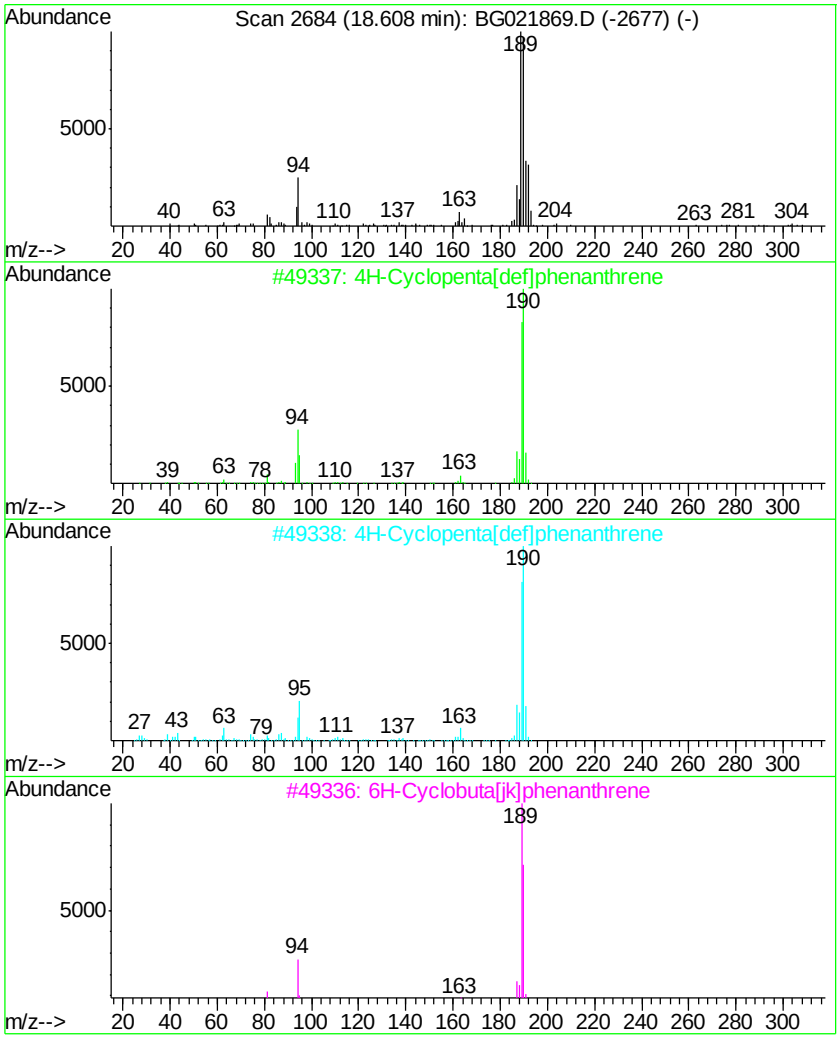
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

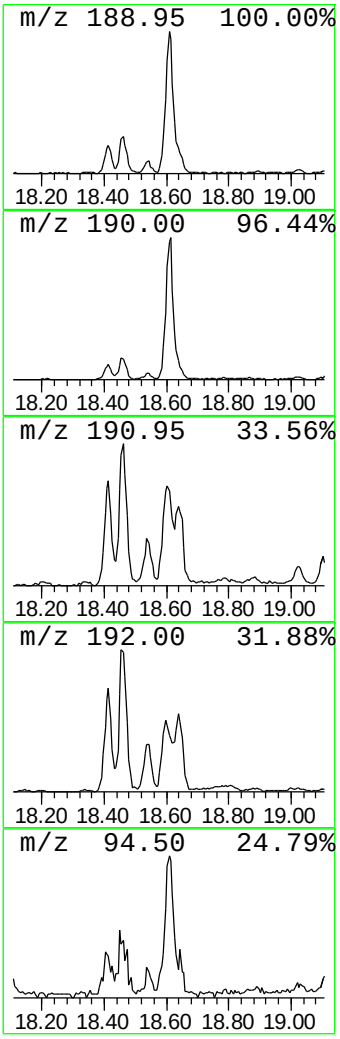
****

Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.61	5.65 ng/ul	287871	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021869.D
Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

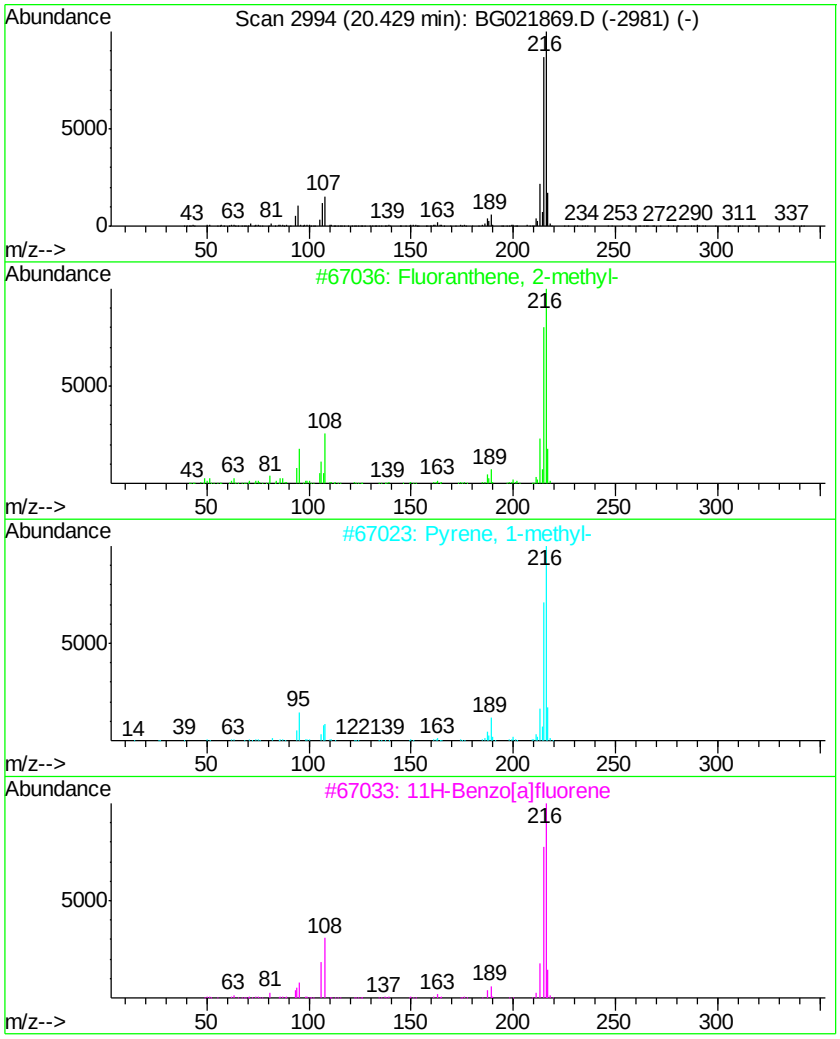
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

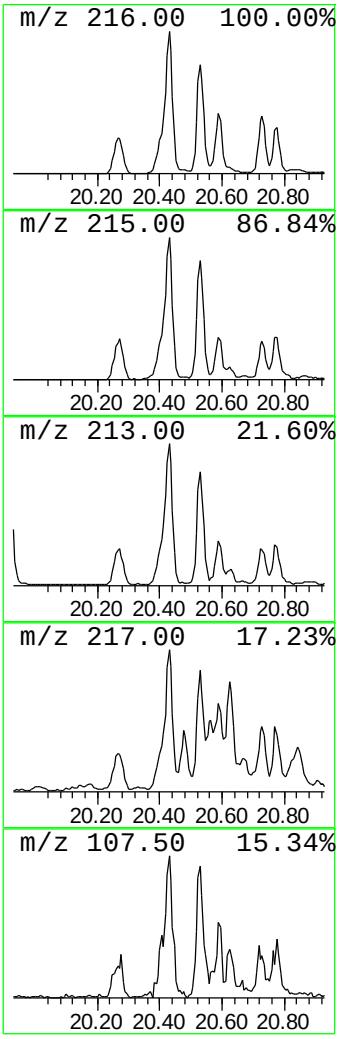
****

Peak Number 4 Fluoranthene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.43	3.07 ng/ul	981110	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021869.D
Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

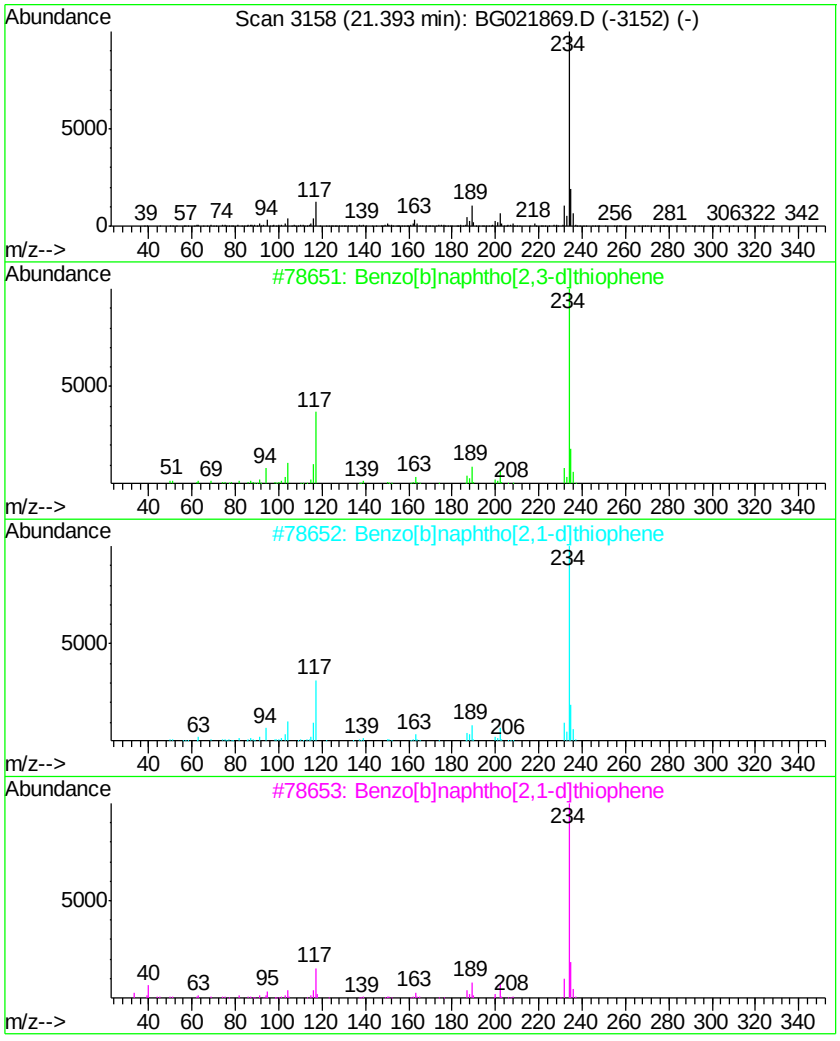
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

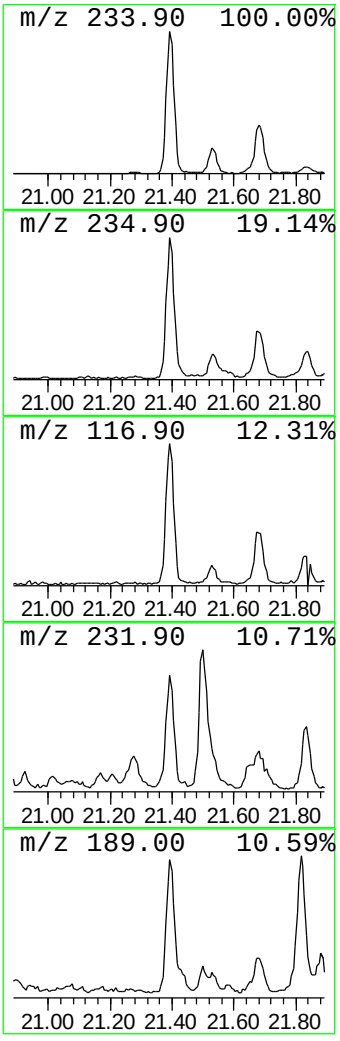
****

Peak Number 5 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.39	2.31 ng/ul	739847	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	96
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021869.D
Acq On : 12 May 2016 15:13
Operator : UM/SJ
Sample : H2936-10 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9WJ9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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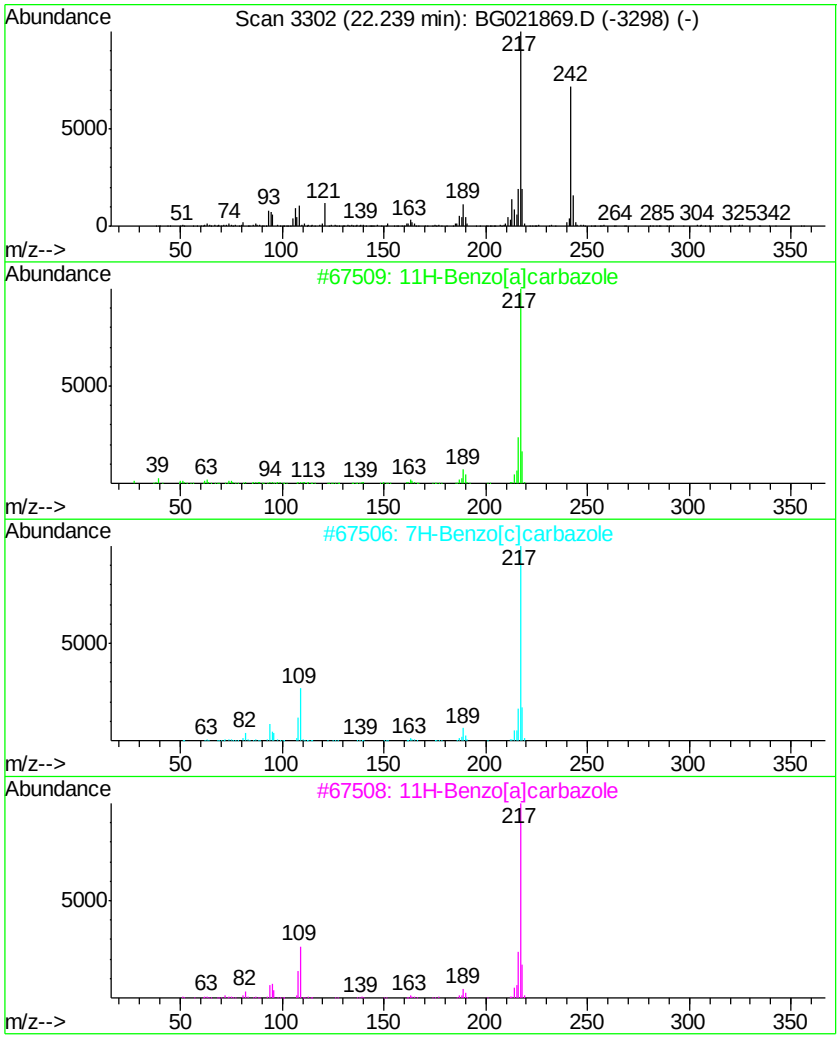
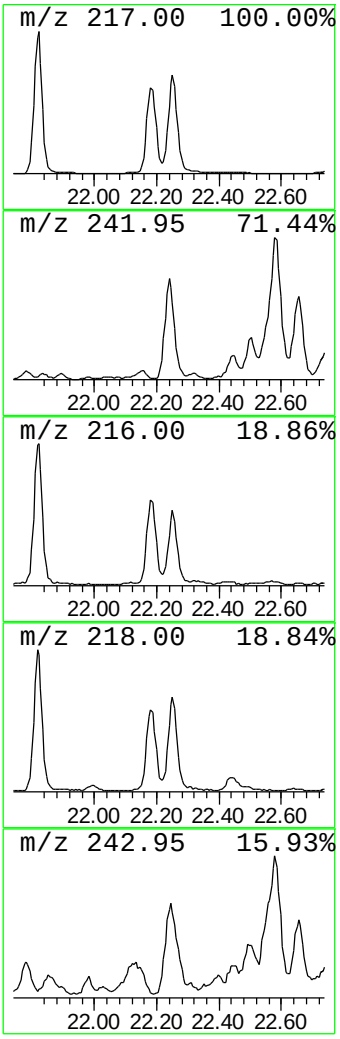
Peak Number 6 11H-Benzo[a]carbazole Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.24	3.15 ng/ul	1008280	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	78
2	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	64
3	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	64
4	Benzo(c)carbazole	217	C16H11N	034777-33-8	64
5	Benzo(b)carbazole	217	C16H11N	000243-28-7	60





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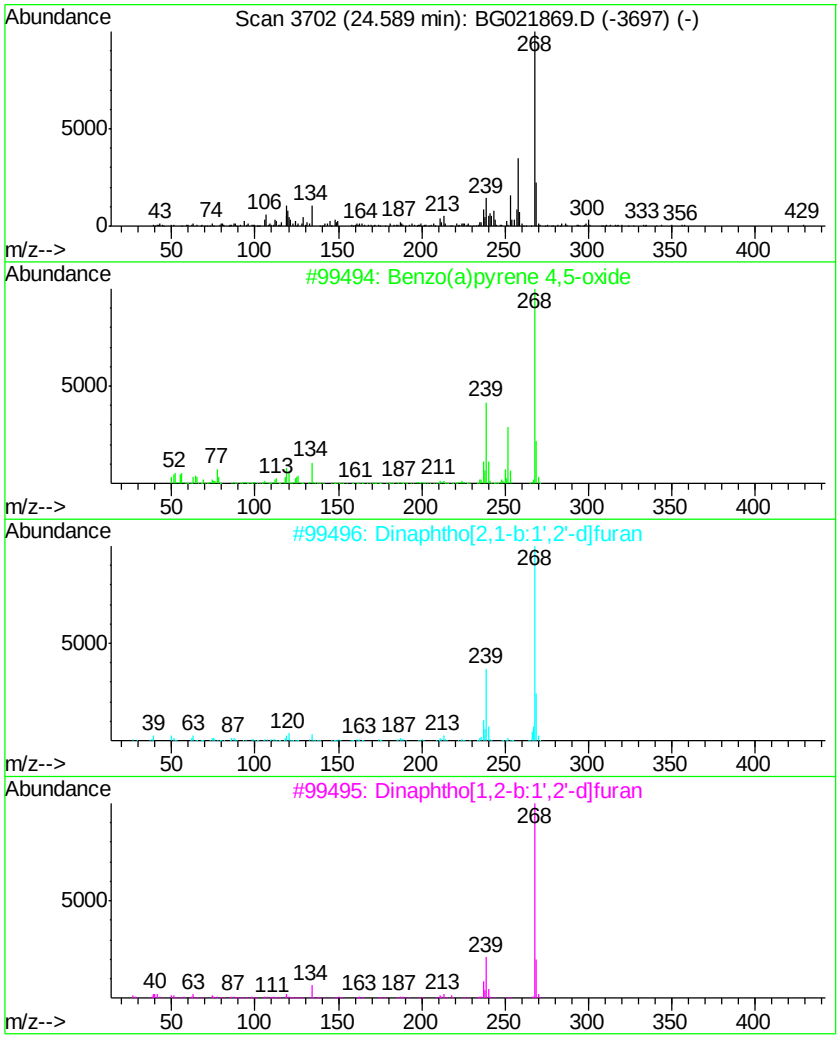
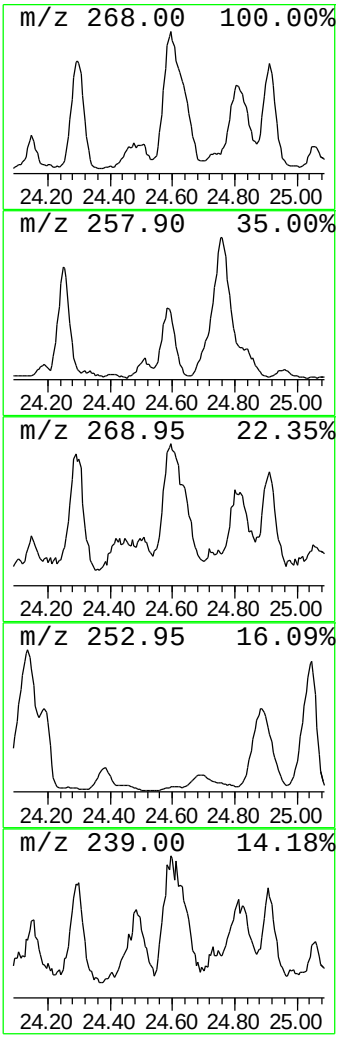
Peak Number 8 Benzo(a)pyrene 4,5-oxide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.59	6.33 ng/ul	325785	Perylene-d12	25.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	64
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	64
3	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	62
4	Naphthalene, 1-(2-naphthalenylme...	268	C21H16	000611-48-3	59
5	9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	58





Tentatively Identified Compound (LSC) summary

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					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Anthracene, 2-met...	18.41	2.1	ng/ul	107621	4	17.54	1018980	20.0
Phenanthrene, 1-m...	18.46	3.2	ng/ul	164845	4	17.54	1018980	20.0
4H-Cyclopenta[def...	18.61	5.7	ng/ul	287871	4	17.54	1018980	20.0
Fluoranthene, 2-m...	20.43	3.1	ng/ul	981110	5	21.83	6394400	20.0
Benzo[b]naphtho[2...	21.39	2.3	ng/ul	739847	5	21.83	6394400	20.0
11H-Benzo[a]carba...	22.24	3.1	ng/ul	1008280	5	21.83	6394400	20.0
Benzo(a)pyrene 4,...	24.59	6.3	ng/ul	325785	6	25.18	1028930	20.0