LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

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-BG011216.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	3.050	31	36	40	rBV	60274	108186	9.56%	0.626%
2	3.085	40	42	46	rVV	33541	48175	4.26%	0.279%
3	3.132	46	50	56	rVV	126209	195538	17.27%	1.131%
4	3.943	183	188	194	rBV	32389	47250	4.17%	0.273%
5	7.204	737	743	752	rBV2	24395	44061	3.89%	0.255%
6	7.363	763	770	778	rBV	22220	39071	3.45%	0.226%
7	7.574	800	806	816	rVB	30045	50213	4.44%	0.290%
8	8.044	879	886	899	rBV	71802	124232	10.97%	0.719%
9	9.214	1078	1085	1095	rBV2	29699	53069	4.69%	0.307%
10	9.936	1202	1208	1217	rBV	25917	45126	3.99%	0.261%
11	10.483	1295	1301	1311	rBV	36543	65566	5.79%	0.379%
12	10.859	1358	1365	1371	rBV	107960	192080	16.97%	1.111%
13	14.078	1905	1913	1918	rVV	98371	148793	13.14%	0.861%
14	14.125	1918	1921	1929	rVB	35658	47731	4.22%	0.276%
15	14.378	1957	1964	1973	rBV	103534	170593	15.07%	0.987%
16	14.684	2002	2016	2022	rBV2	190908	310710	27.44%	1.797%
17	14.901	2044	2053	2061	rVV3	17016	38297	3.38%	0.222%
18	15.671	2179	2184	2189	rVV	150796	212598	18.78%	1.230%
19	15.724	2189	2193	2202	rVB3	16695	30948	2.73%	0.179%
20	15.800	2202	2206	2211	rBV2	30140	51632	4.56%	0.299%
21	16.393	2304	2307	2316	rVB5	22232	41710	3.68%	0.241%
22	16.728	2355	2364	2368	rBV4	20394	56119	4.96%	0.325%
23	16.781	2368	2373	2378	rVV2	23418	40898	3.61%	0.237%
24	16.875	2385	2389	2395	rVB3	17967	31159	2.75%	0.180%
25	17.087	2418	2425	2430	rVV3	23798	43130	3.81%	0.249%
26	17.157	2432	2437	2441	rVV5	17467	30368	2.68%	0.176%
27	17.427	2477	2483	2487	rBV2	267386	411870	36.38%	2.382%
28	17.469	2487	2490	2495	rVV	302415	442036	39.04%	2.557%
29	17.527	2495	2500	2504	rVV2	167813	262835	23.22%	1.520%
30	17.563	2504	2506	2510	rVV	31988	38650	3.41%	0.224%
31	17.621	2510	2516	2520	rVV3	17188	37544	3.32%	0.217%
32	17.833	2547	2552	2560	rBV5	17659	53946	4.76%	0.312%
33	18.009	2574	2582	2589	rVB3	32717	68130	6.02%	0.394%
34	18.227	2614	2619	2623	rBV2	19366	29445	2.60%	0.170%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

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-BG011216.M
Title : SVOA CALIBRATION

35	18.303	2627	2632	2636	rBV	140607	205041	18.11%	1.186%
36	18.350	2636	2640	2647	rVB	157974	241757	21.35%	1.398%
37	18.432	2647	2654	2659	rBV2	36837	68705	6.07%	0.397%
38	18.491	2659	2664	2668	rBV2	169078	312763	27.63%	1.809%
39	18.532	2668	2671	2677	rVB	126117	182637	16.13%	1.056%
40	18.697	2695	2699	2703	rVB3	19718	28546	2.52%	0.165%
41	18.796	2711	2716	2720	rBV	78408	115258	10.18%	0.667%
42	18.849	2720	2725	2733	rVB	68021	119111	10.52%	0.689%
43	18.920	2733	2737	2749	rBV4	18285	49533	4.38%	0.287%
44	19.020	2749	2754	2755	rBV4	24554	34066	3.01%	0.197%
45	19.037	2755	2757	2762	rVB2	38999	49118	4.34%	0.284%
46	19.090	2762	2766	2770	rVB	47278	59424	5.25%	0.344%
47	19.131	2770	2773	2780	rVB	37516	48269	4.26%	0.279%
48	19.214	2781	2787	2791	rBV	168643	272183	24.04%	1.574%
49	19.272	2792	2797	2801	rBV2	43593	86745	7.66%	0.502%
50	19.361	2806	2812	2822	rBV6	89312	222126	19.62%	1.285%
51	19.478	2824	2832	2838	rVV	550917	850949	75.16%	4.922%
52	19.537	2838	2842	2845	rVV	41435	60914	5.38%	0.352%
53	19.572	2845	2848	2852	rVB2	51899	72384	6.39%	0.419%
54	19.678	2862	2866	2869	rBV2	27643	34522	3.05%	0.200%
55	19.719	2869	2873	2876	rBV2	28750	42389	3.74%	0.245%
56	19.813	2883	2889	2891	rBV2	270675	407696	36.01%	2.358%
57	19.842	2891	2894	2901	rVB	777824	1132152	100.00%	6.548%
58	19.913	2901	2906	2911	rVB2	78874	126037	11.13%	0.729%
59	19.995	2911	2920	2923	rBV3	32063	82982	7.33%	0.480%
60	20.066	2929	2932	2938	rVB3	47472	86215	7.62%	0.499%
61	20.171	2941	2950	2957	rBV5	107506	295661	26.11%	1.710%
62	20.242	2958	2962	2967	rVV5	27291	57955	5.12%	0.335%
63	20.330	2967	2977	2985	rVB	144947	410635	36.27%	2.375%
64	20.430	2990	2994	2998	rVV	78953	112667	9.95%	0.652%
65	20.489	2999	3004	3008	rVV	153400	234435	20.71%	1.356%
66	20.630	3024	3028	3032	rBV	163267	220153	19.45%	1.273%
67	20.677	3032	3036	3040	rVV	126528	158160	13.97%	0.915%
68	20.788	3047	3055	3061	rBV7	31759	85381	7.54%	0.494%
69	20.882	3068	3071	3073	rBV4	22004	29793	2.63%	0.172%
70	21.094	3103	3107	3113	rVB	107733	188057	16.61%	1.088%
71	21.188	3120	3123	3128	rVB	32804	50850	4.49%	0.294%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

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-BG011216.M
Title : SVOA CALIBRATION

72	21.276	3130	3138	3142	rVV5	91189	230923	20.40%	1.336%
73	21.323	3142	3146	3150	rVV	95425	149569	13.21%	0.865%
74	21.370	3150	3154	3159	rVV3	79487	135423	11.96%	0.783%
75	21.435	3162	3165	3172	rVB	71425	123739	10.93%	0.716%
76	21.699	3202	3210	3215	rBV2	426086	1128231	99.65%	6.526%
77	21.752	3215	3219	3225	rVB	337723	561296	49.58%	3.247%
78	21.852	3232	3236	3241	rBV4	30996	53143	4.69%	0.307%
79	21.905	3241	3245	3252	rBV2	50451	83286	7.36%	0.482%
80	21.981	3253	3258	3261	rBV3	35402	69683	6.15%	0.403%
81	22.175	3288	3291	3297	rBV4	30336	54594	4.82%	0.316%
82	22.357	3318	3322	3326	rBV	27126	40931	3.62%	0.237%
83	22.439	3327	3336	3343	rVV	117981	283387	25.03%	1.639%
84	22.510	3344	3348	3355	rVB	74826	137737	12.17%	0.797%
85	22.598	3358	3363	3367	rBV5	36775	63157	5.58%	0.365%
86	22.715	3378	3383	3387	rBV	67991	129906	11.47%	0.751%
87	22.856	3401	3407	3415	rVB3	43075	101795	8.99%	0.589%
88	23.462	3506	3510	3516	rBV4	17817	44588	3.94%	0.258%
89	23.926	3581	3589	3598	rBV2	176899	668918	59.08%	3.869%
90	24.184	3629	3633	3641	rVB	32931	75206	6.64%	0.435%
91	24.654	3706	3713	3720	rBV	124854	322897	28.52%	1.868%
92	24.737	3720	3727	3732	rVV	104342	280014	24.73%	1.620%
93	24.807	3732	3739	3750	rVB2	197909	558296	49.31%	3.229%
94	24.960	3757	3765	3773	rVV2	148025	399465	35.28%	2.311%
95	25.042	3775	3779	3792	rVB5	49570	144513	12.76%	0.836%
96	26.035	3943	3948	3958	rVB6	36096	103740	9.16%	0.600%
97	26.352	3995	4002	4014	rBV5	27614	93763	8.28%	0.542%
98	28.685	4387	4399	4416	rVB4	86822	429350	37.92%	2.483%
99	29.860	4584	4599	4613	rBV2	66666	341743	30.19%	1.977%
100	30.483	4697	4705	4708	rBV4	11539	32582	2.88%	0.188%

Sum of corrected areas: 17288853

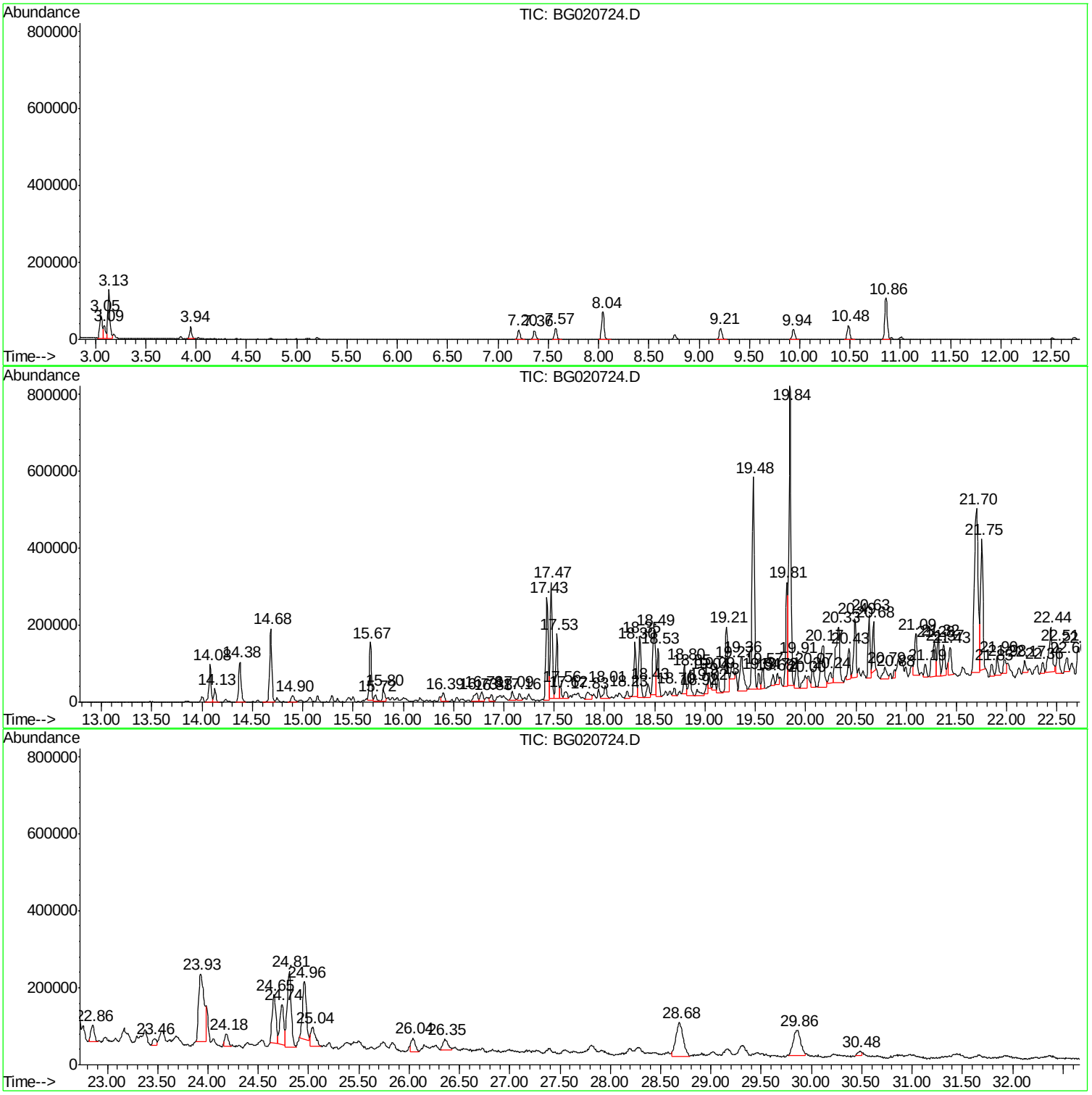
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

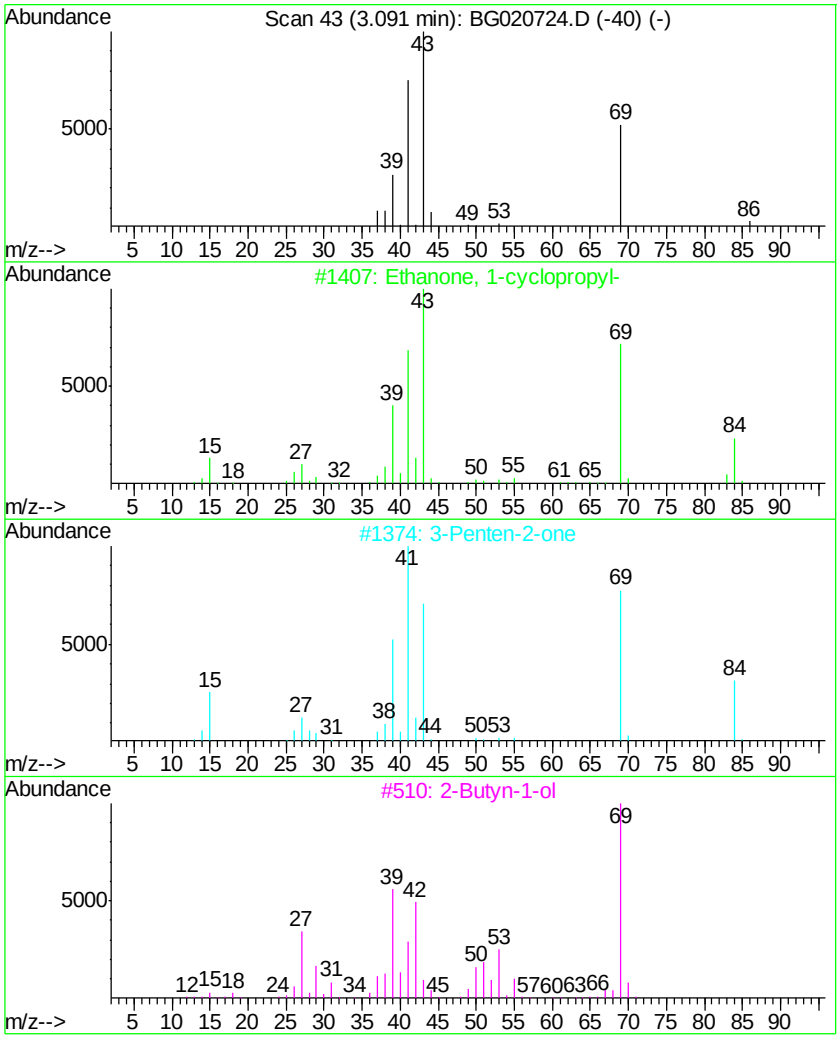
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

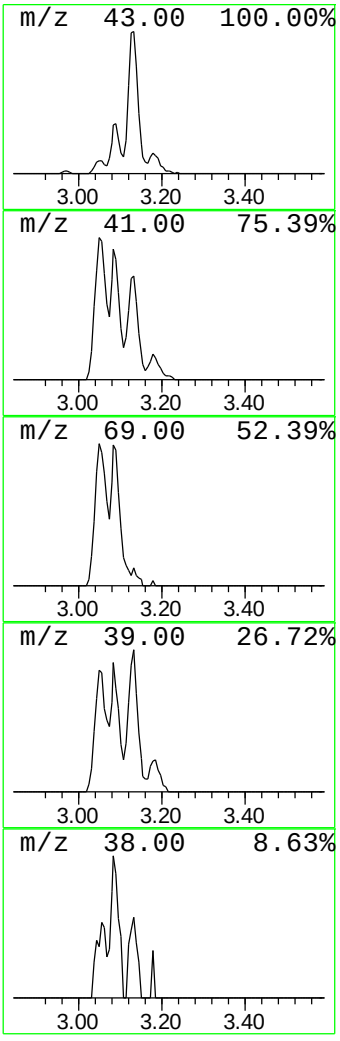
****

Peak Number 2 Ethanone, 1-cyclopropyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.09	7.76 ng/ul	48175	1,4-Dichlorobenzene-d4	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-cyclopropyl-	84	C5H8O	000765-43-5	78
2	3-Penten-2-one	84	C5H8O	000625-33-2	50
3	2-Butyn-1-ol	70	C4H6O	000764-01-2	47
4	Methacryloyl chloride	104	C4H5ClO	000920-46-7	38
5	Cyclopropanecarboxylic acid chlo...	104	C4H5ClO	004023-34-1	37





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

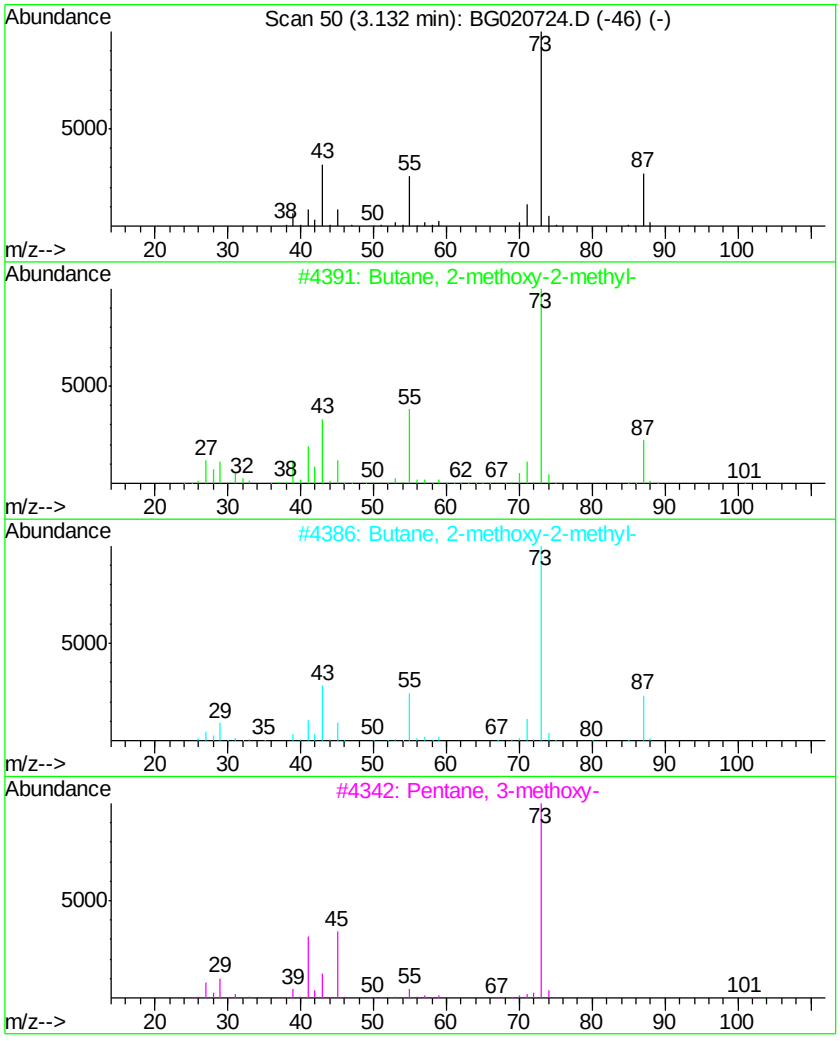
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

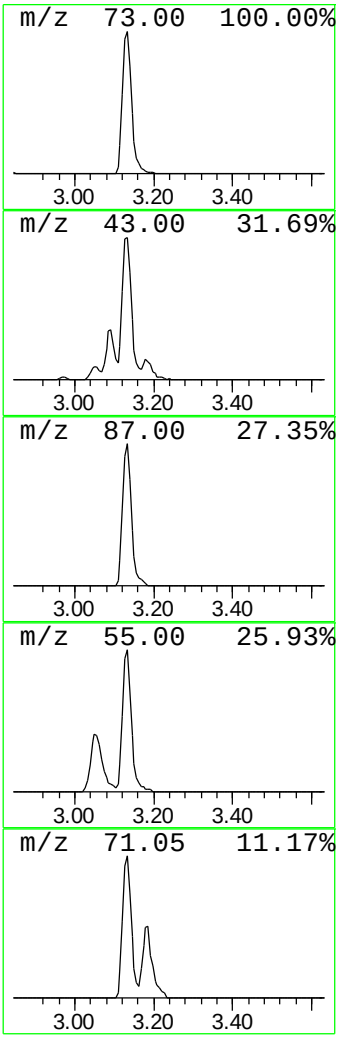
****

Peak Number 3 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.13	31.48 ng/ul	195538	1,4-Dichlorobenzene-d4	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	N-Ethylformamide	73	C3H7NO	000627-45-2	9
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

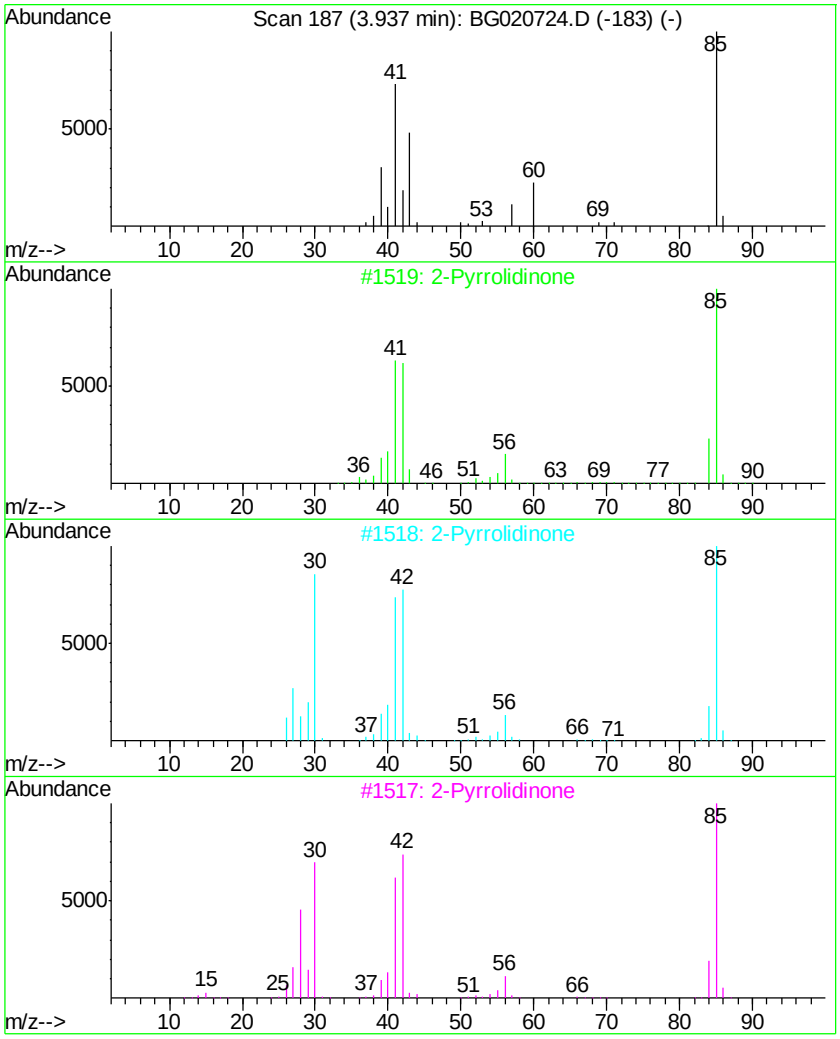
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

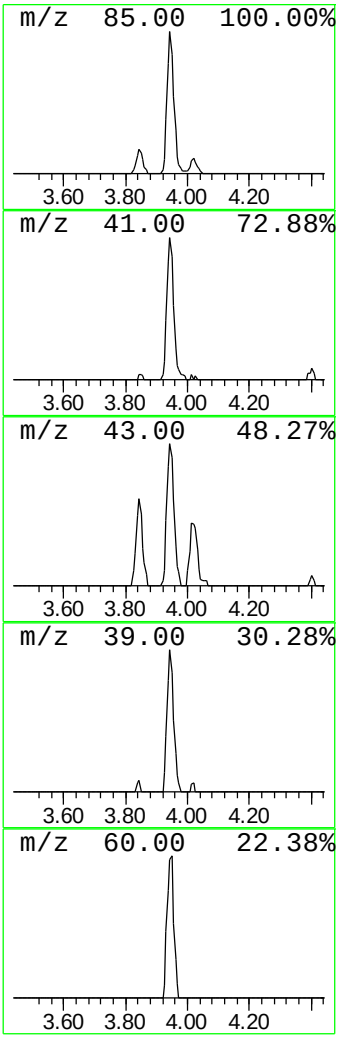
****

Peak Number 4 unknown-01 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.94	7.61 ng/ul	47250	1,4-Dichlorobenzene-d4	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pyrrolidinone	85	C4H7NO	000616-45-5	38
2	2-Pyrrolidinone	85	C4H7NO	000616-45-5	9
3	2-Pyrrolidinone	85	C4H7NO	000616-45-5	9
4	Azetidine, 1-nitroso-	86	C3H6N2O	015216-10-1	9
5	Methacrylamide	85	C4H7NO	000079-39-0	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

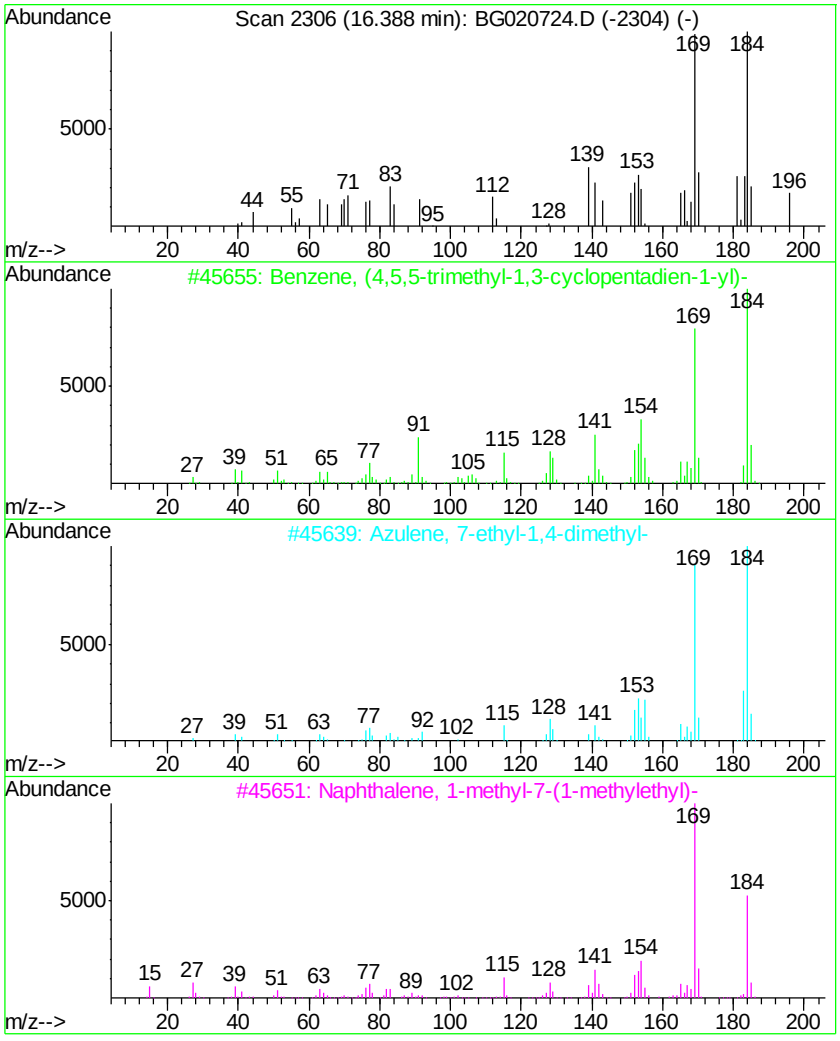
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

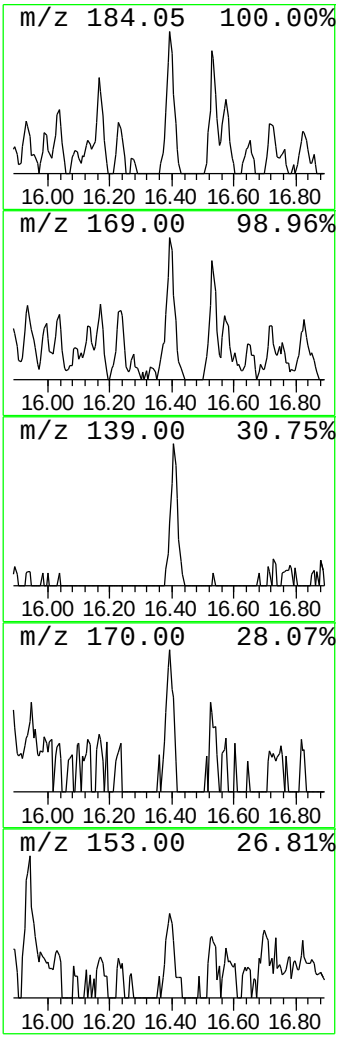
****

Peak Number 5 Benzene, (4,5,5-trimethyl-1... Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.39	2.03 ng/ul	41710	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (4,5,5-trimethyl-1,3-cy...	184	C14H16	033930-85-7	76
2	Azulene, 7-ethyl-1,4-dimethyl-	184	C14H16	000529-05-5	76
3	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	68
4	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	59
5	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	58





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

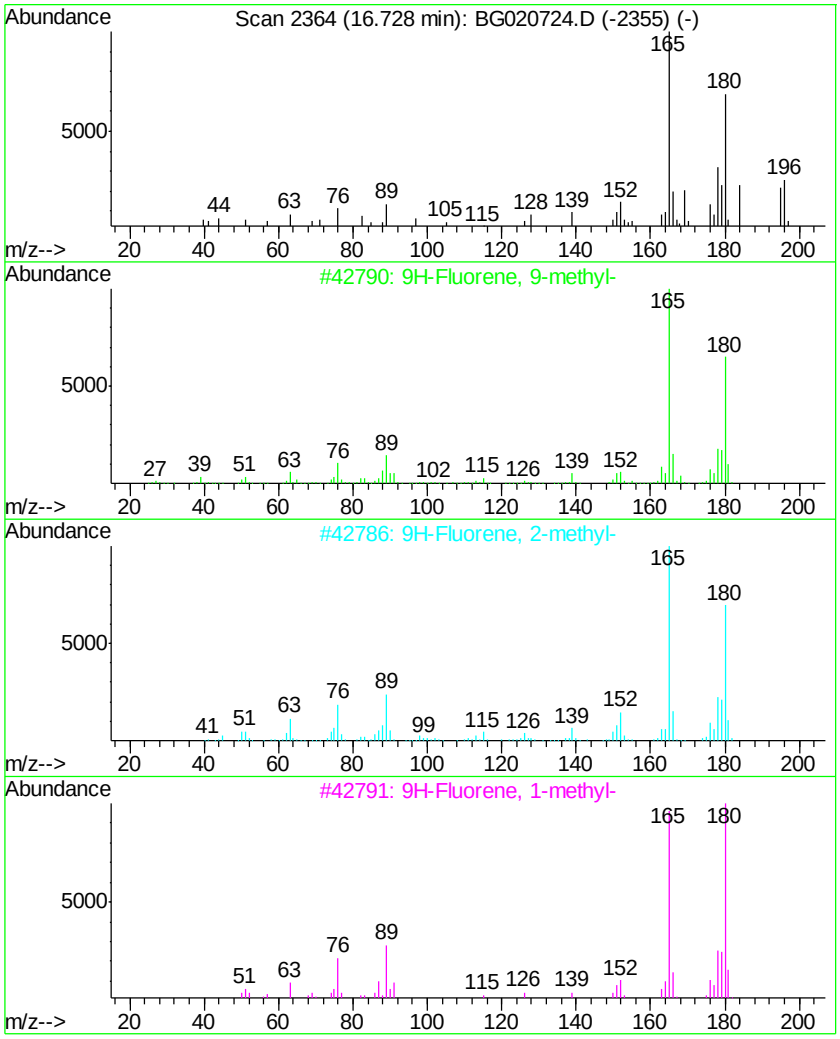
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

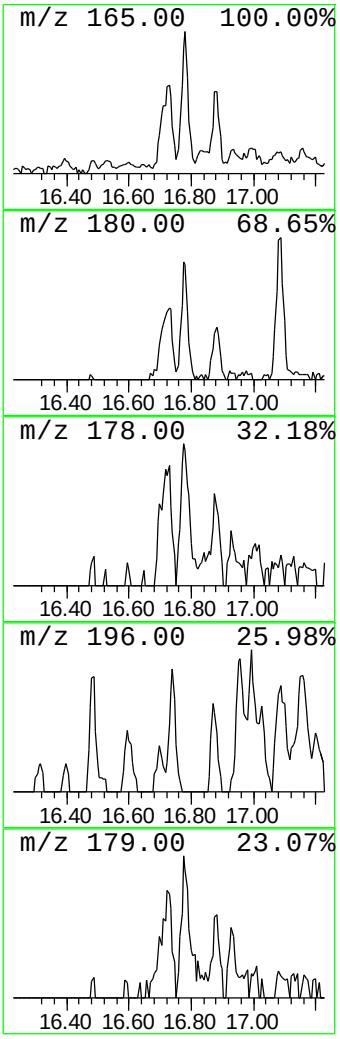
****

Peak Number 6 9H-Fluorene, 9-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	2.73 ng/ul	56119	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	78
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	78
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	78
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	60
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	60





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Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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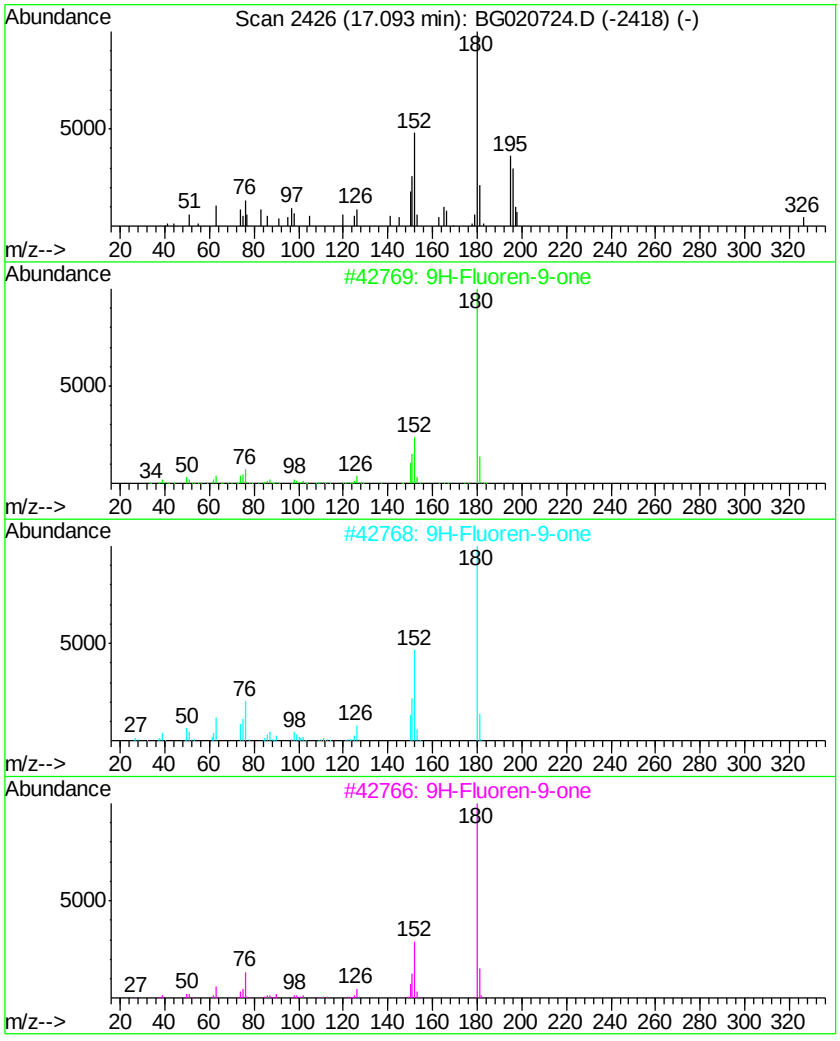
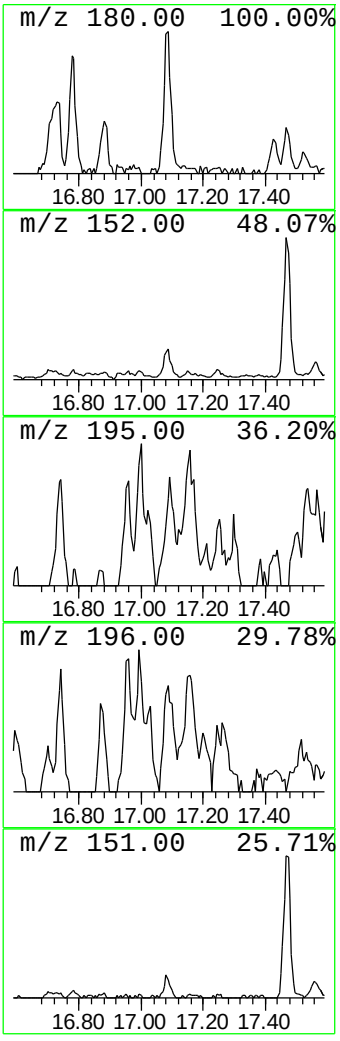
Peak Number 7 9H-Fluoren-9-one Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.09	2.09 ng/ul	43130	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	86
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	70
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	62
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	53





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Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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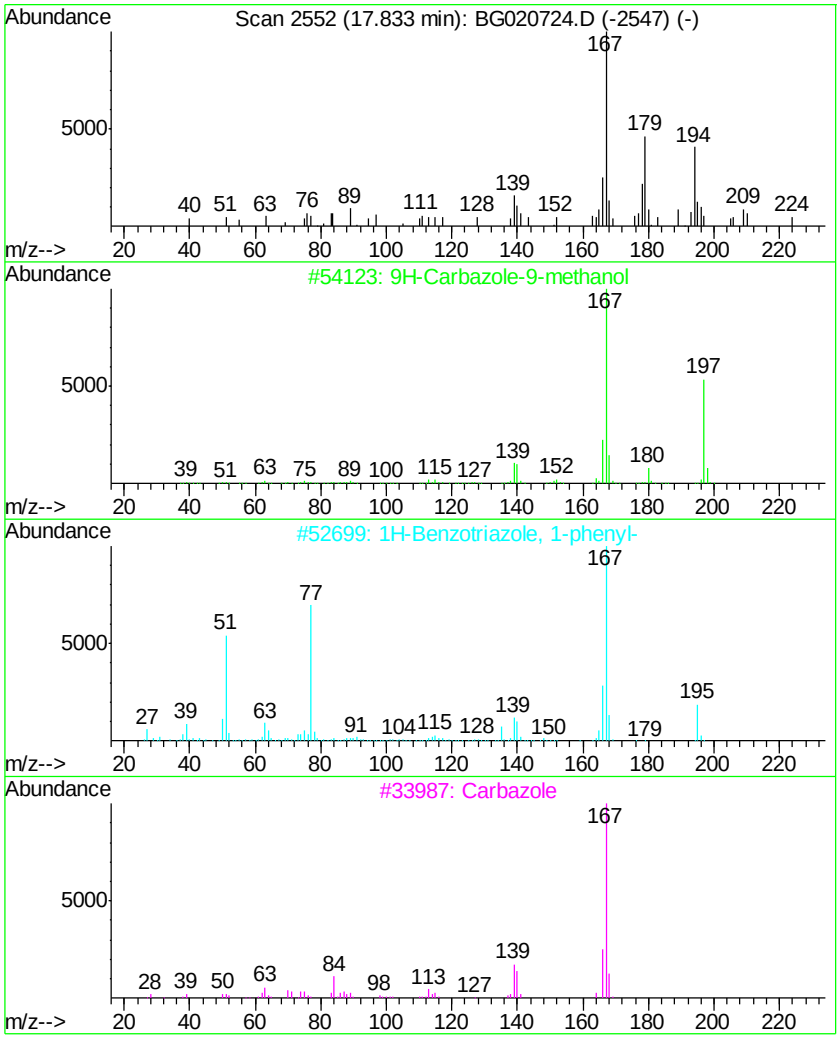
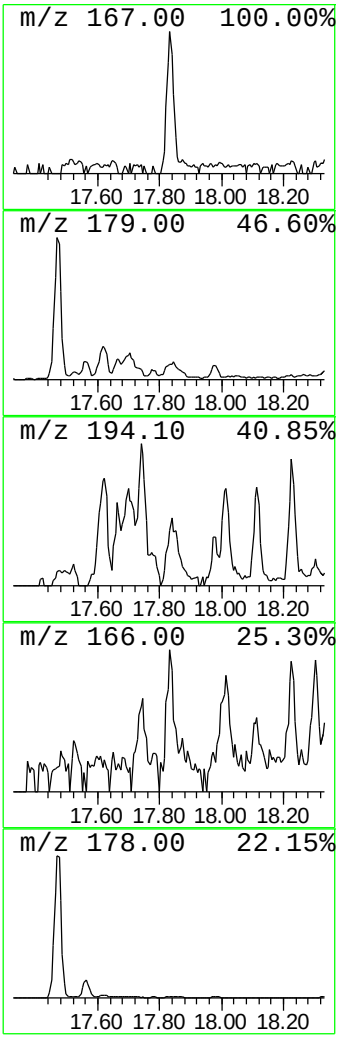
Peak Number 8 unknown-02 Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	2.62 ng/ul	53946	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Carbazole-9-methanol	197	C13H11NO	002409-36-1	42
2	1H-Benzotriazole, 1-phenyl-	195	C12H9N3	000883-39-6	30
3	Carbazole	167	C12H9N	000086-74-8	30
4	Thiazolo[3,2-a]pyridinium, 2,3-d...	167	C8H9NOS	023003-43-2	30
5	2-Propanone, 1,1-diphenyl-	210	C15H14O	000781-35-1	30





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Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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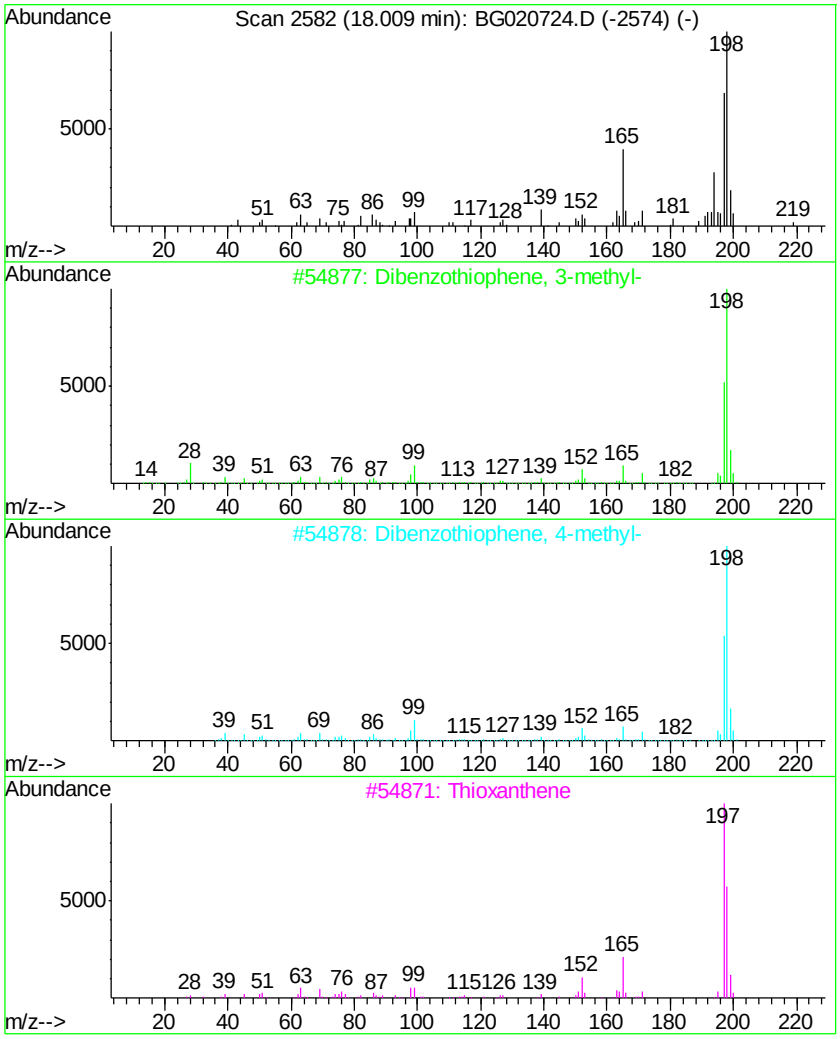
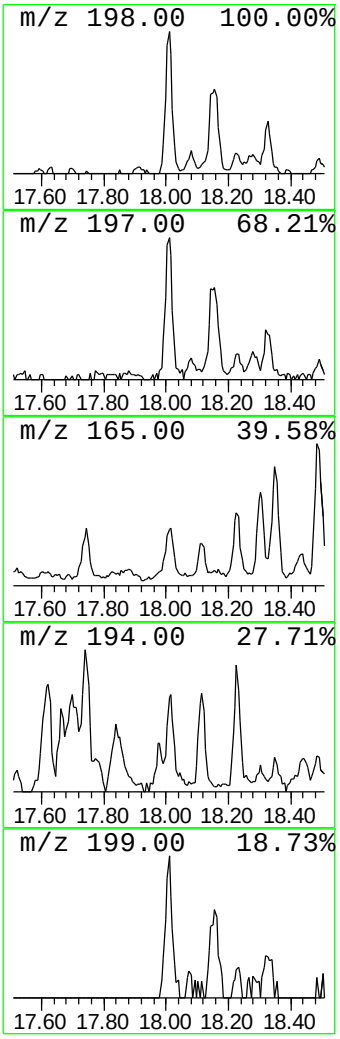
Peak Number 9 Dibenzothiophene, 3-methyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.01	3.31 ng/ul	68130	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	76
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	76
3	Thioxanthene	198	C13H10S	000261-31-4	64
4	Methanethione, diphenyl-	198	C13H10S	001450-31-3	59
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	52





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Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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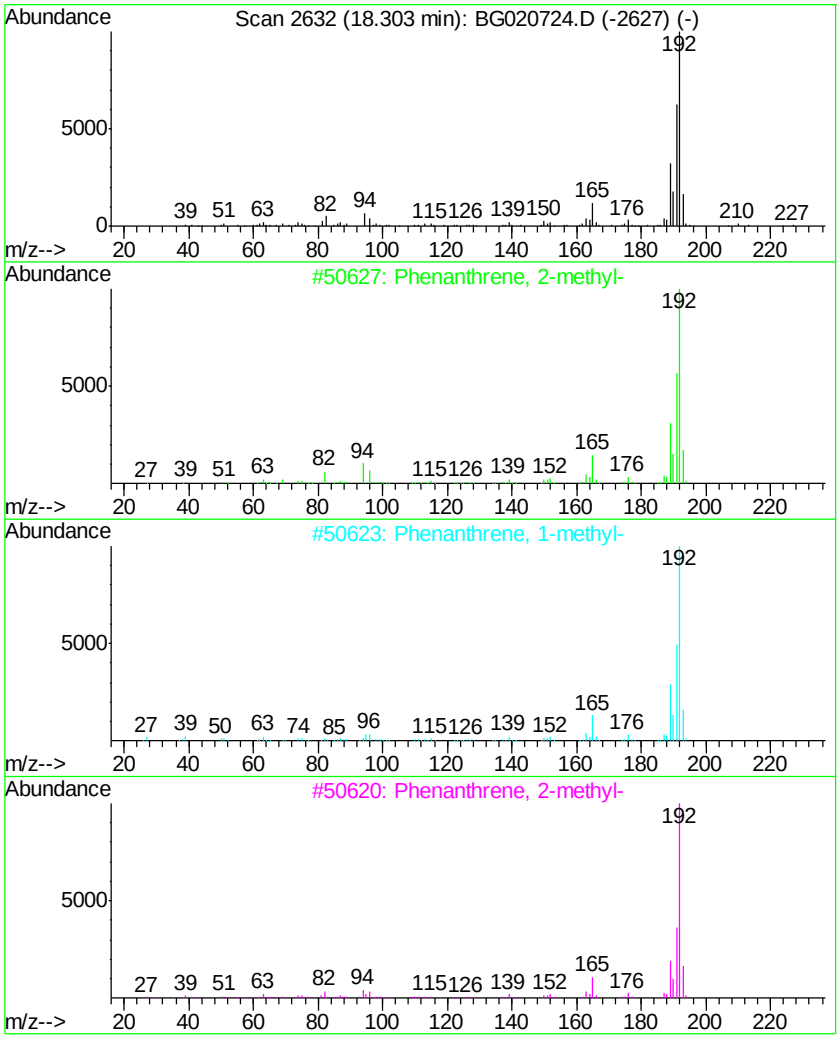
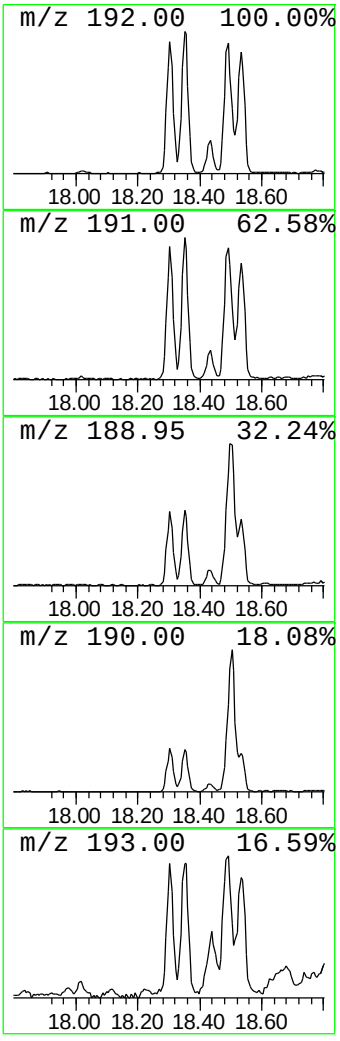
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.30	9.96 ng/ul	205041	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





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Acq On : 14 Jan 2016 6:46
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Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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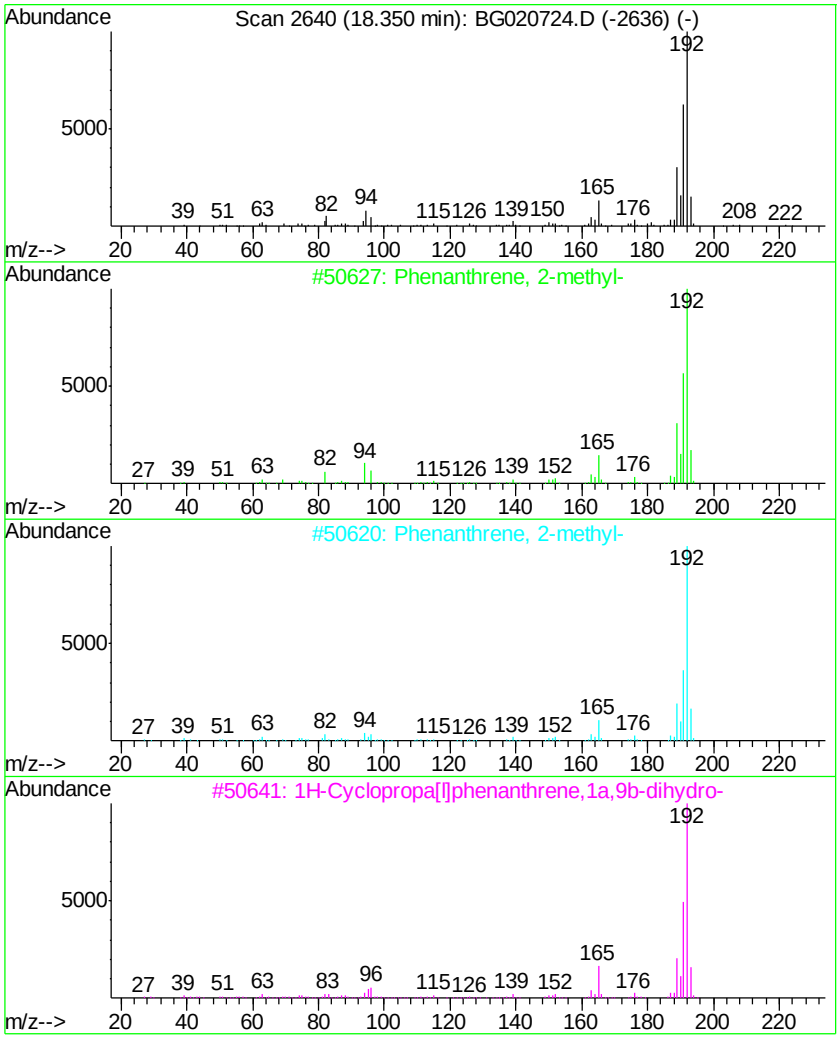
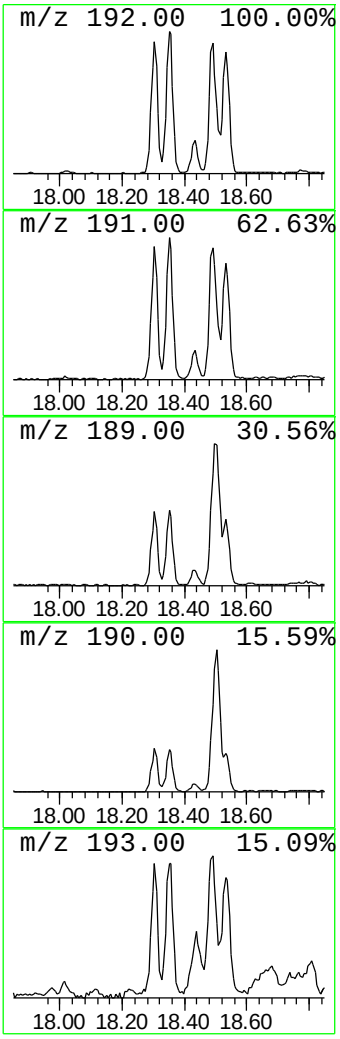
Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.35	11.74 ng/ul	241757	Phenanthrene-d10	17.43

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





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ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

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Quant Title : SVOA CALIBRATION

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

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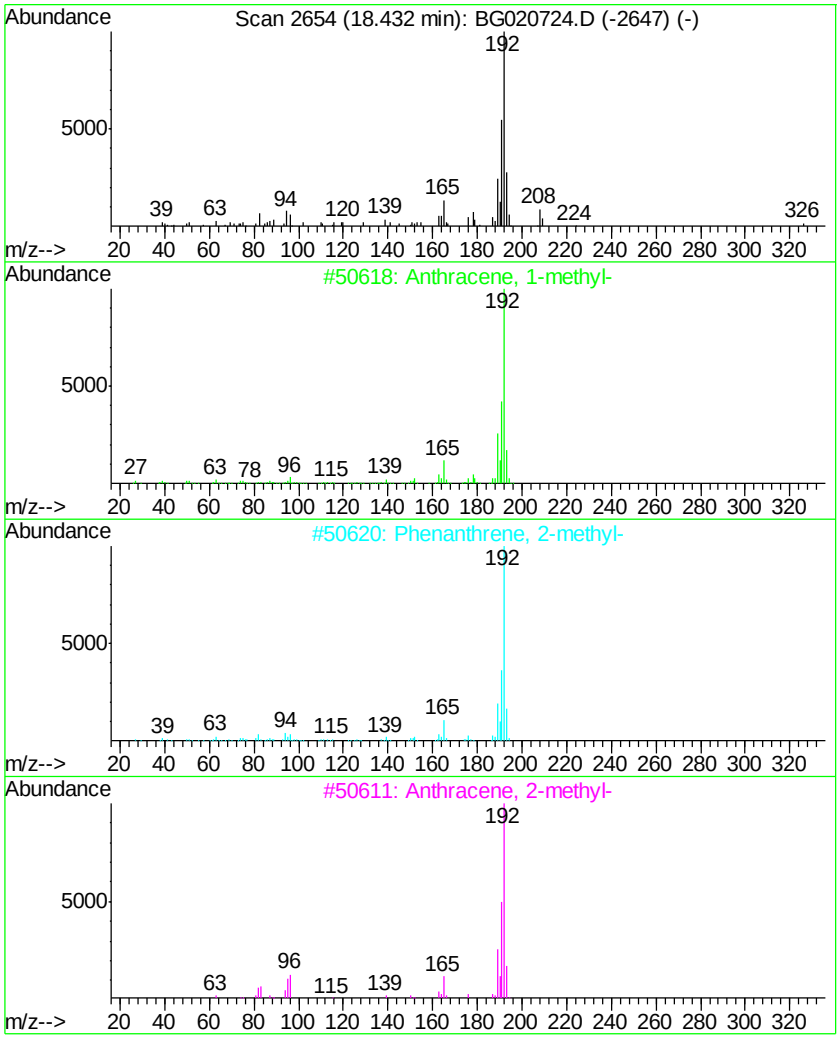
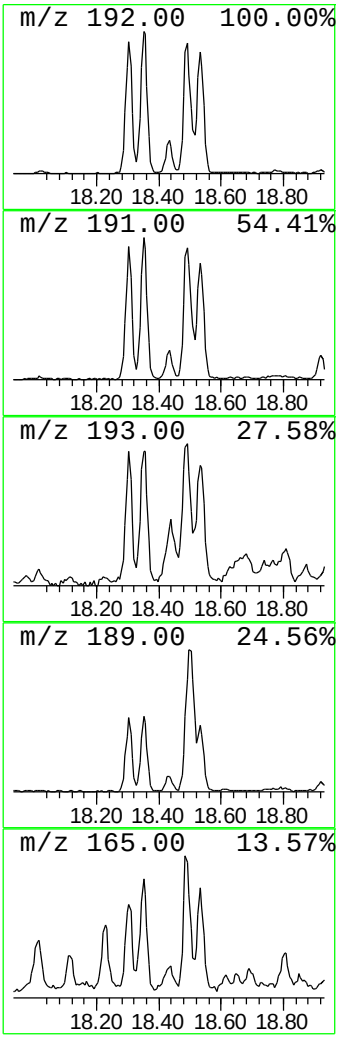
Peak Number 12 Anthracene, 1-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	3.34 ng/ul	68705	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	89
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	89
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	89
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	76





Library Search Compound Report

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Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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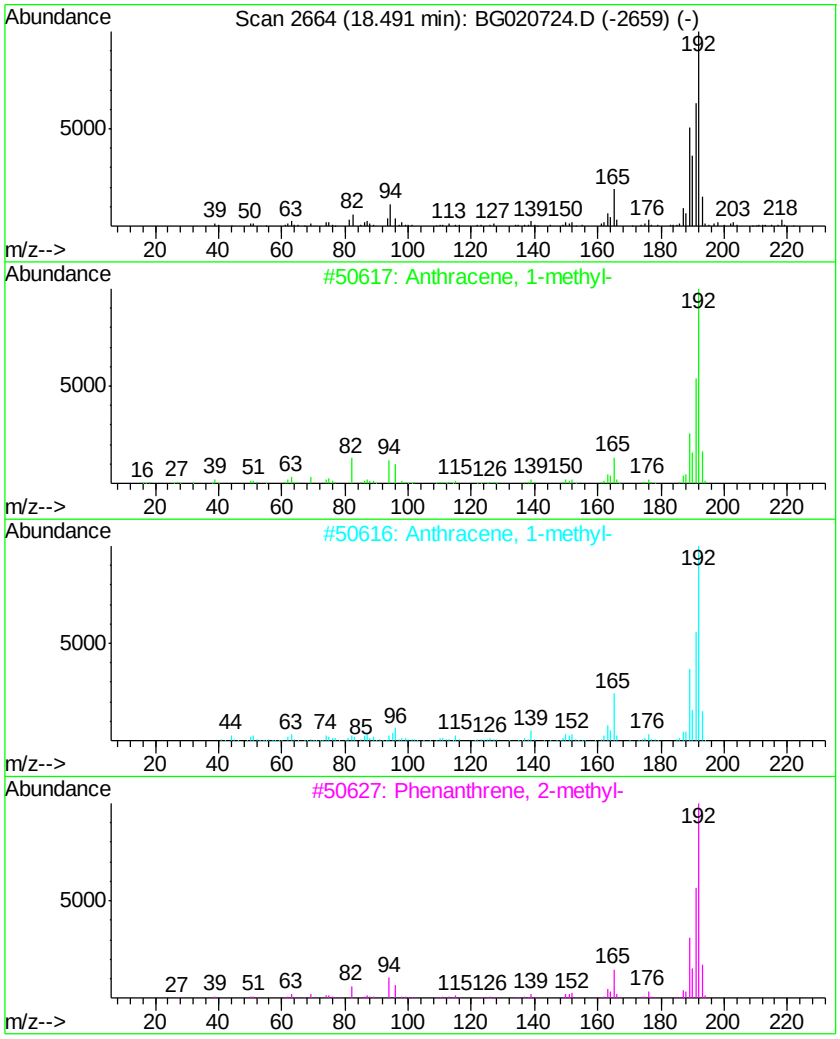
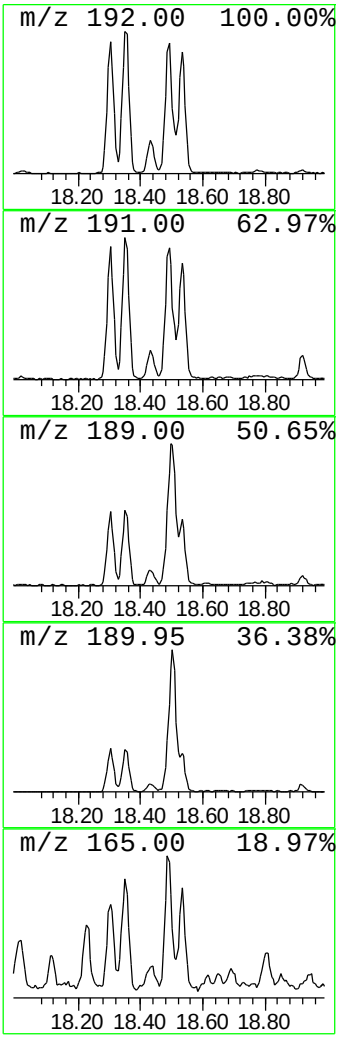
Peak Number 13 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	15.19 ng/ul	312763	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	78
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	70
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	70
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	64





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Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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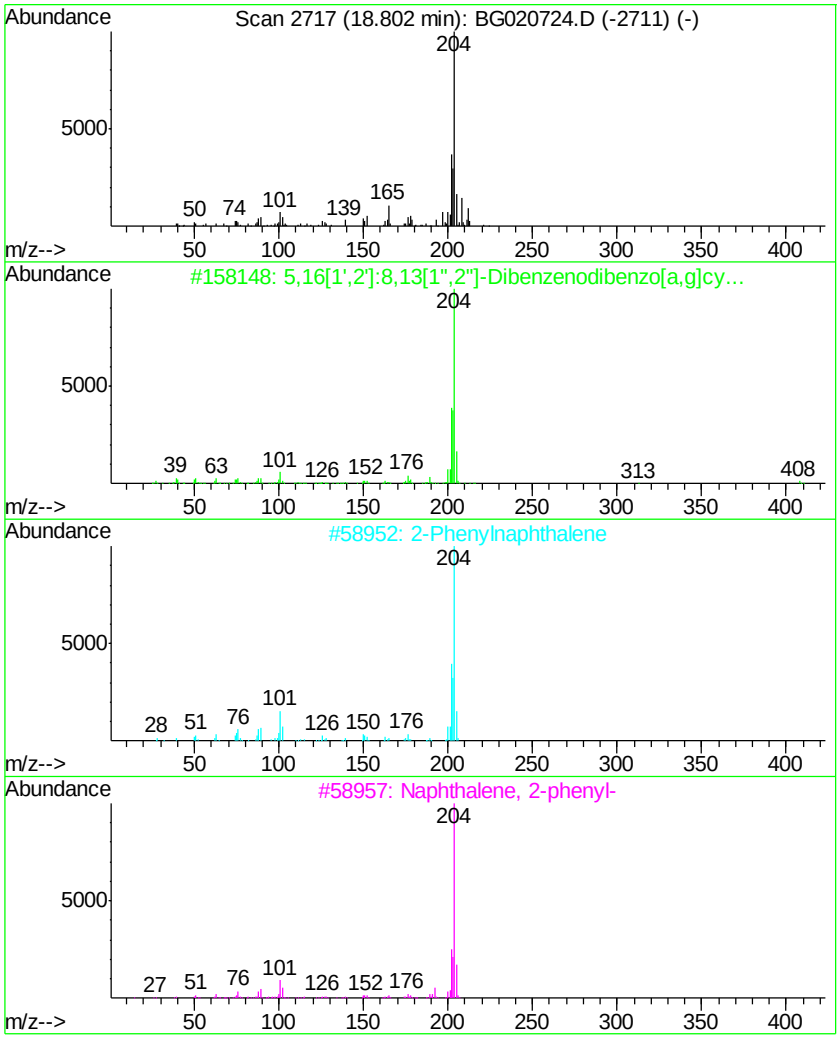
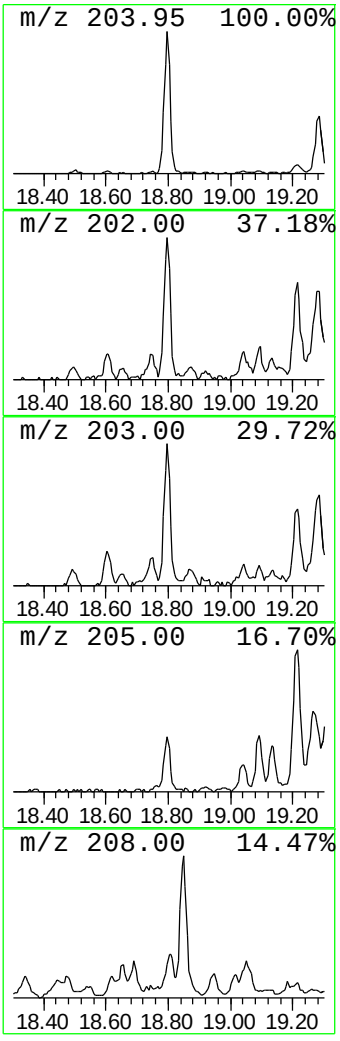
Peak Number 15 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	5.60 ng/ul	115258	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	70
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	62
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62





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Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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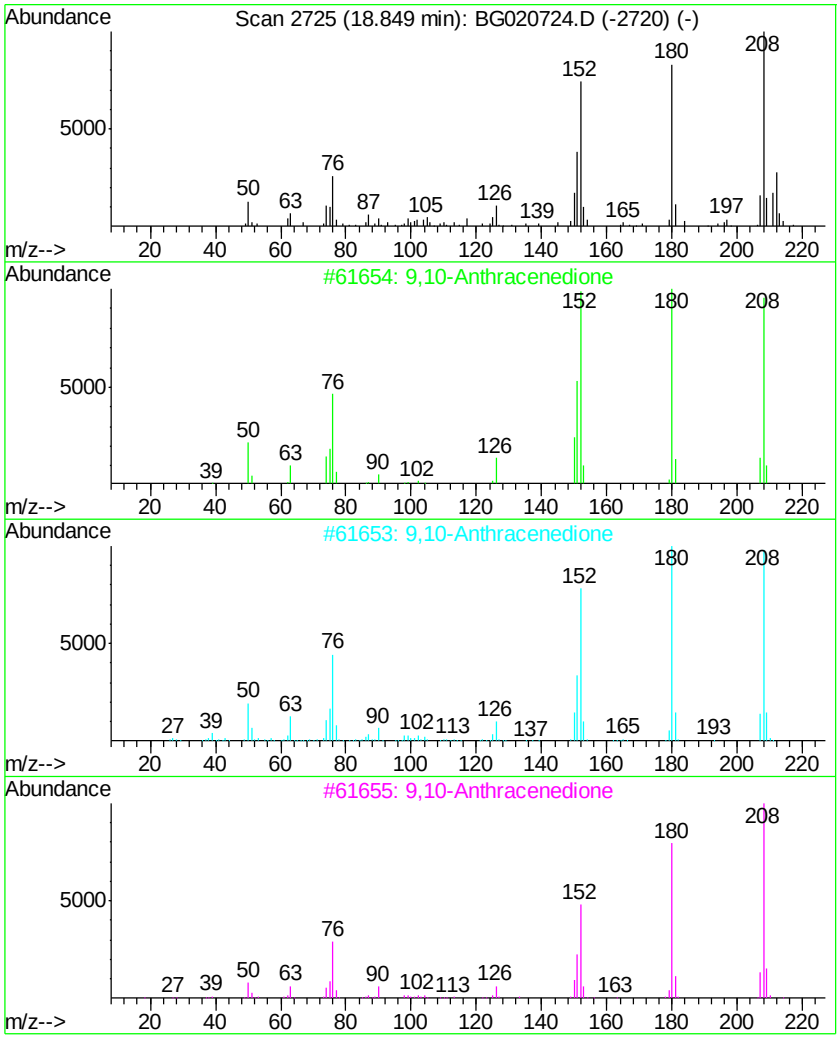
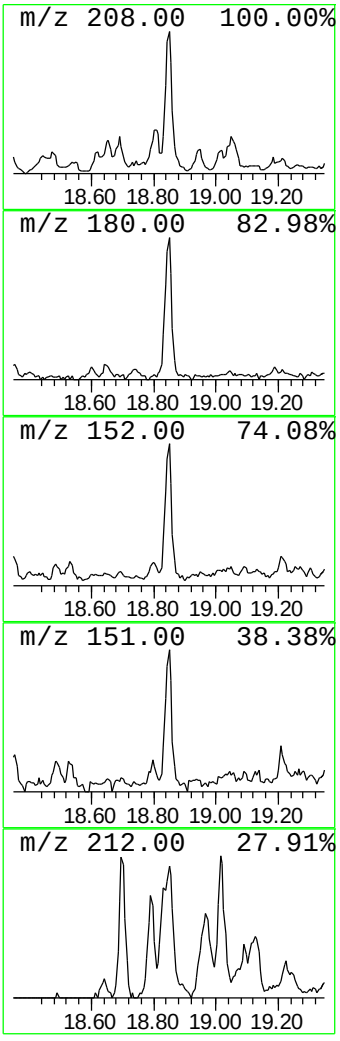
Peak Number 16 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	5.78 ng/ul	119111	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	89
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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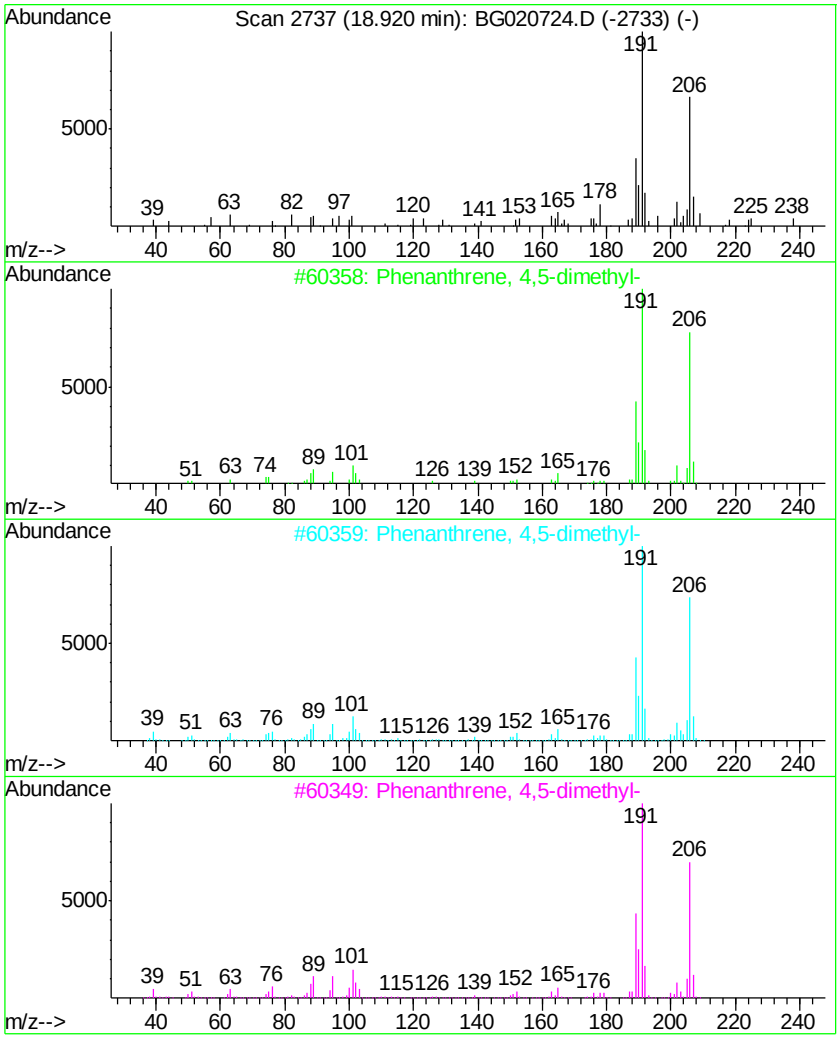
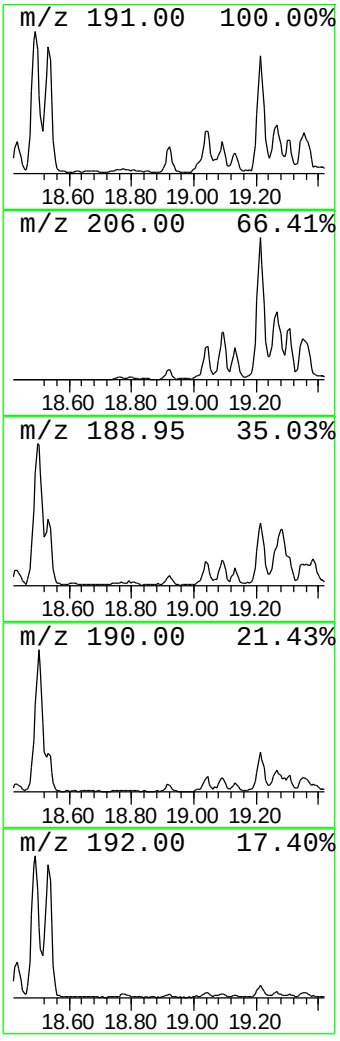
Peak Number 17 Phenanthrene, 4,5-dimethyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	2.41 ng/ul	49533	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	95
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
4	Phenanthrene, 9-ethyl-	206	C16H14	003674-75-7	91
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	90





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Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

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Quant Title : SVOA CALIBRATION

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

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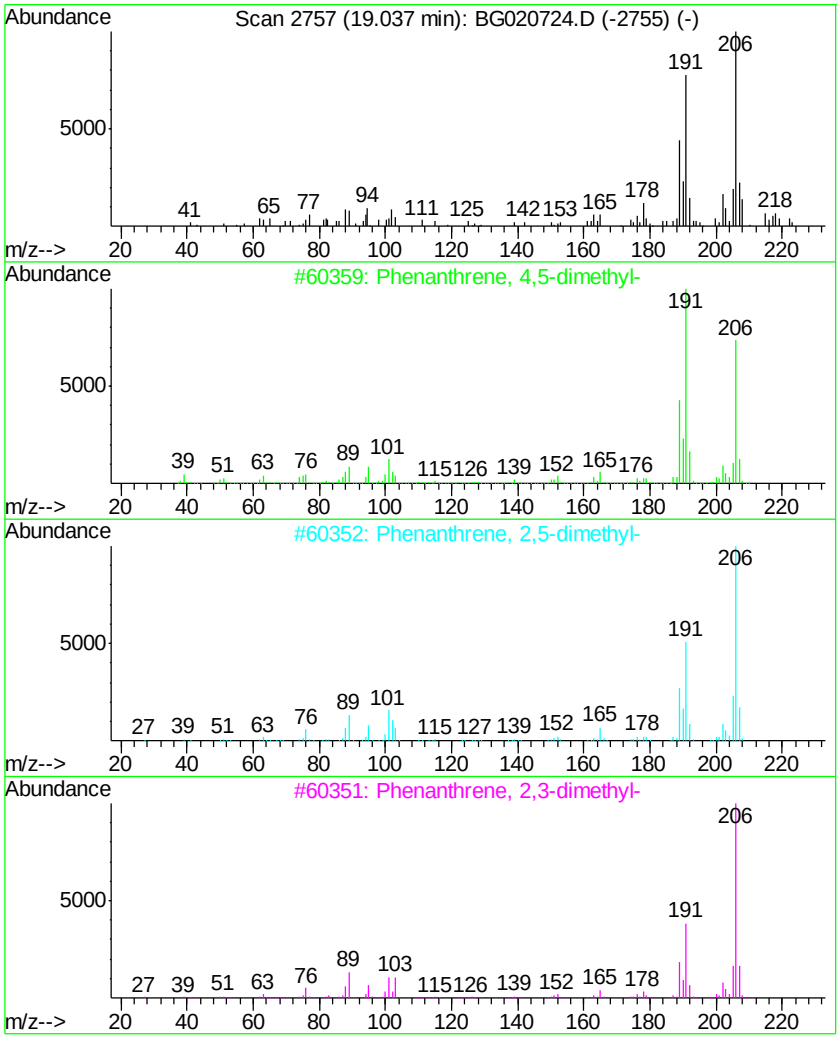
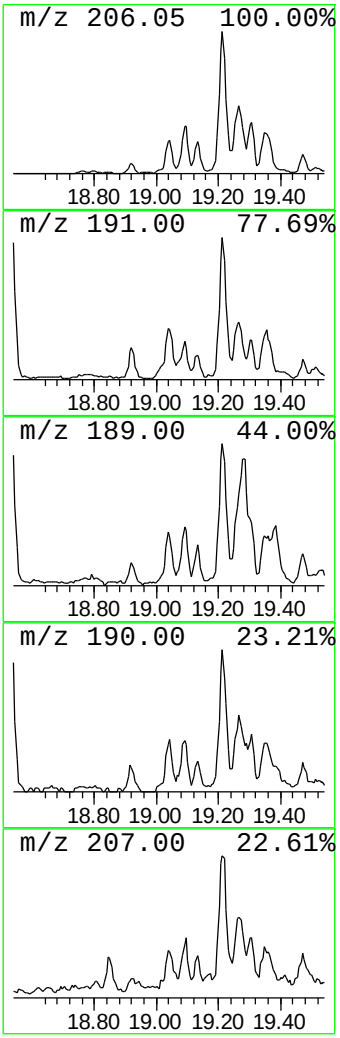
Peak Number 18 Phenanthrene, 2,5-dimethyl- Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.04	2.39 ng/ul	49118	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87





Library Search Compound Report

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Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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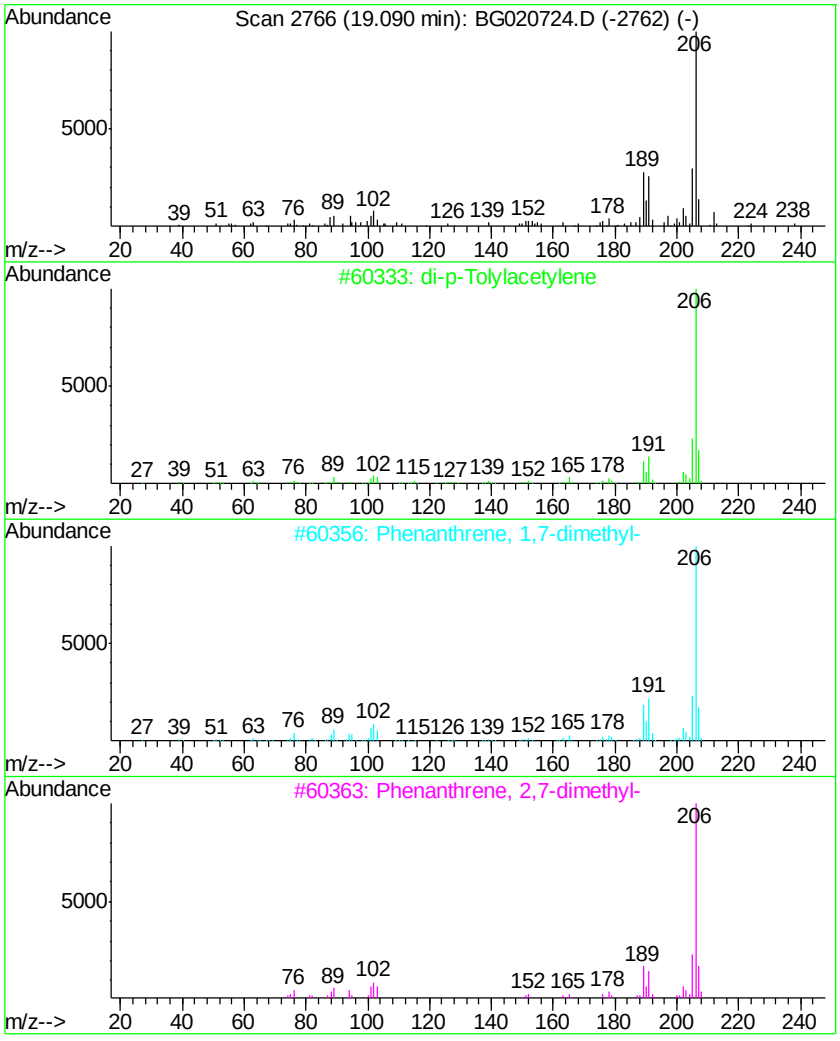
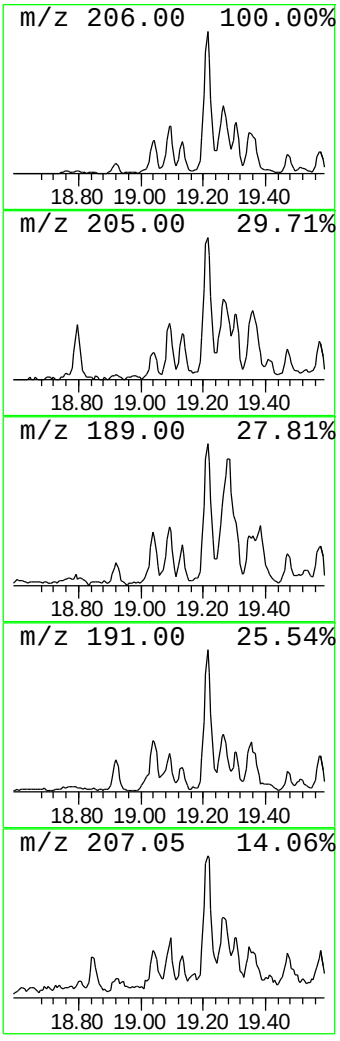
Peak Number 19 di-p-Tolylacetylene Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.09	2.89 ng/ul	59424	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	76





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Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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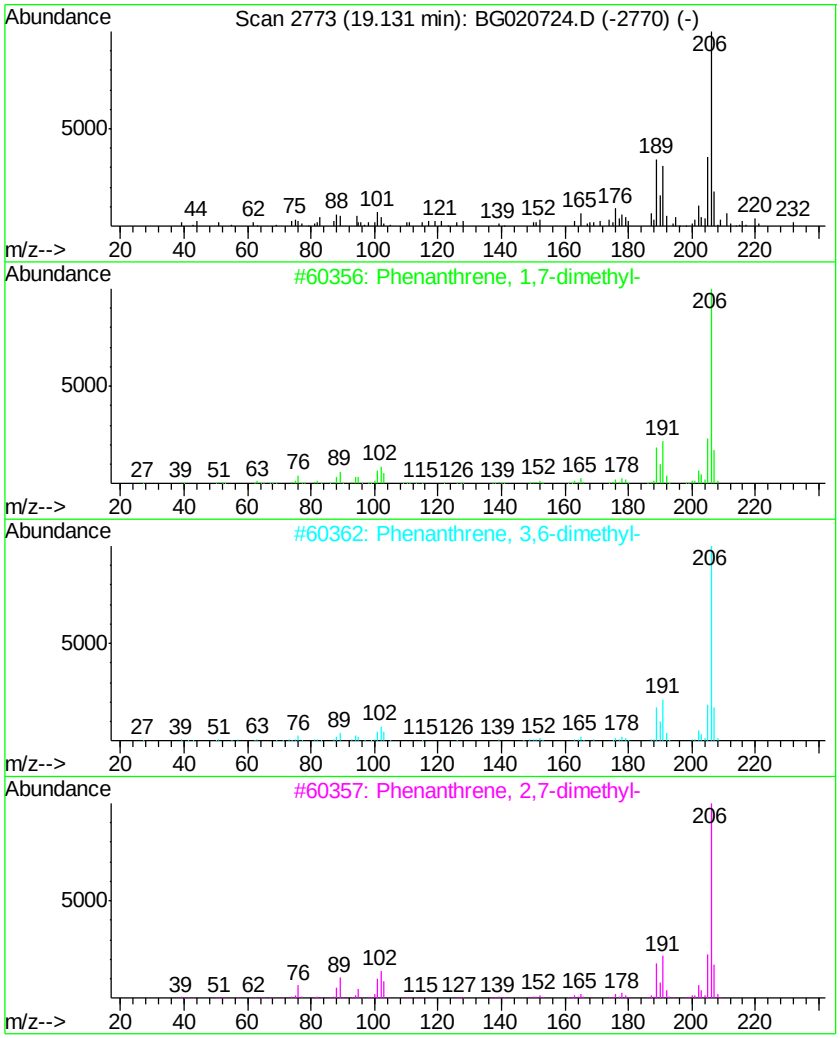
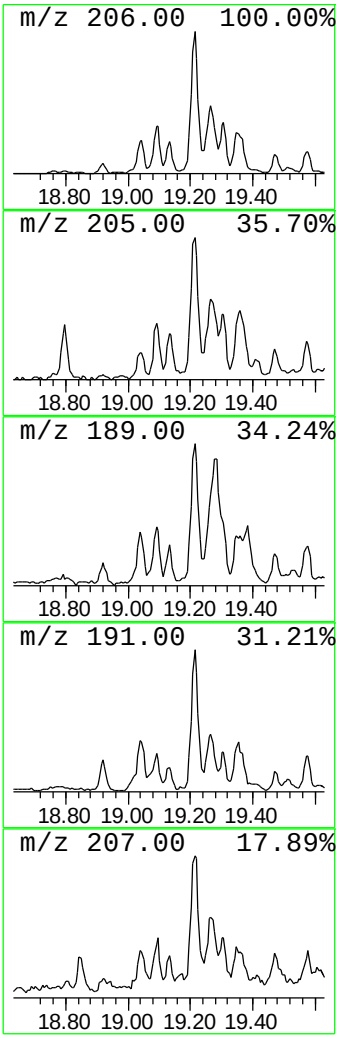
Peak Number 20 Phenanthrene, 1,7-dimethyl- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.13	2.34 ng/ul	48269	Phenanthrene-d10	17.43

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	87
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	86
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	86
5	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	83





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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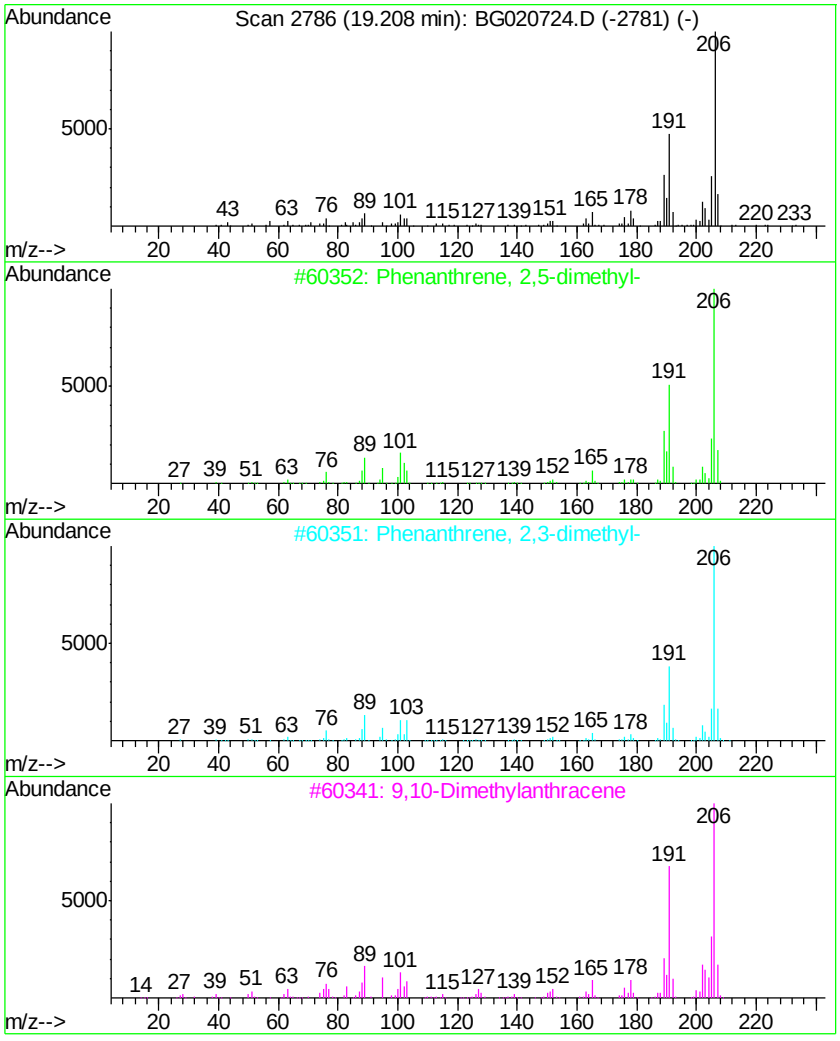
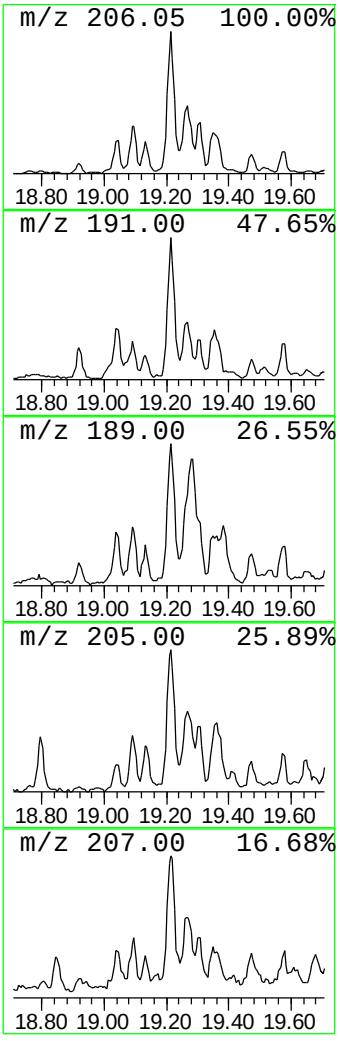
Peak Number 21 9,10-Dimethylanthracene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.21	13.22 ng/ul	272183	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83





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Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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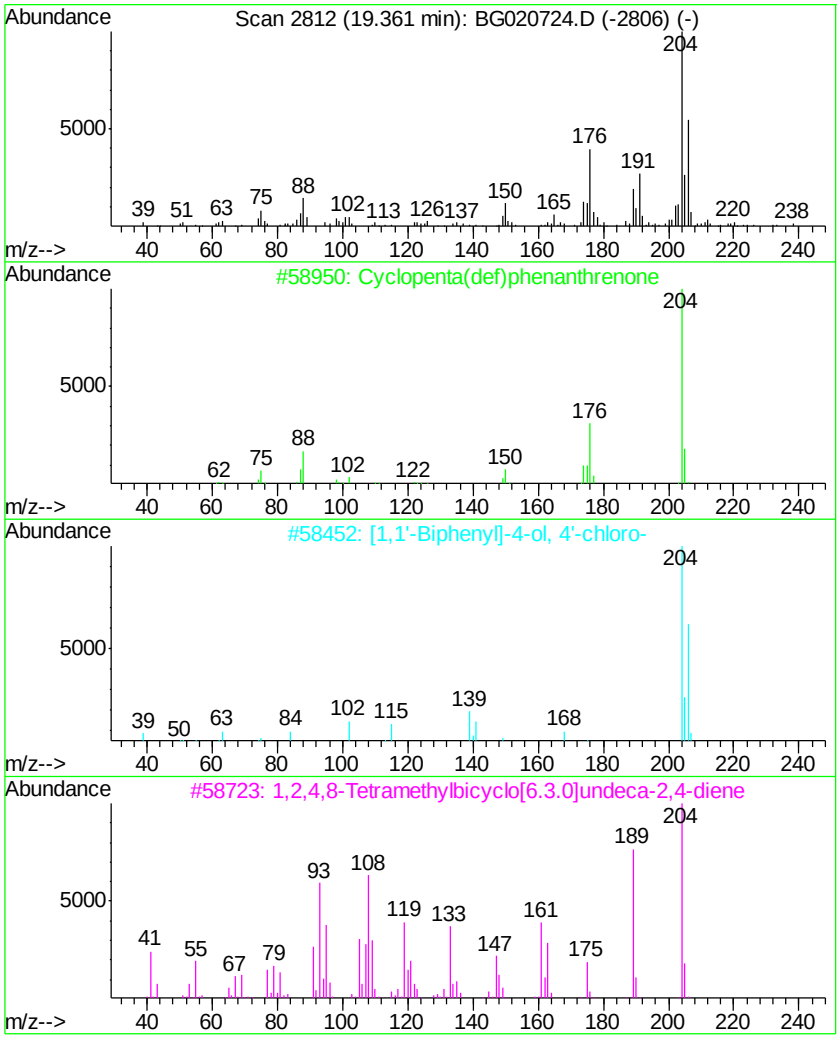
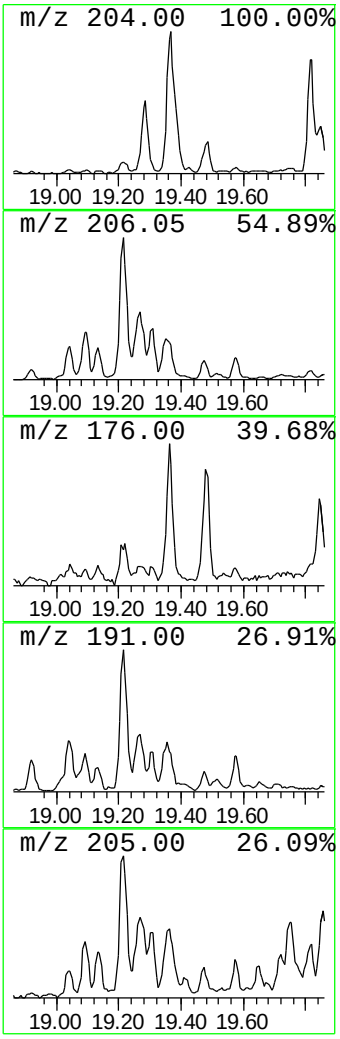
Peak Number 23 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.36	10.79 ng/ul	222126	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	89
2	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	46
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	46
4	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	41
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	38





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Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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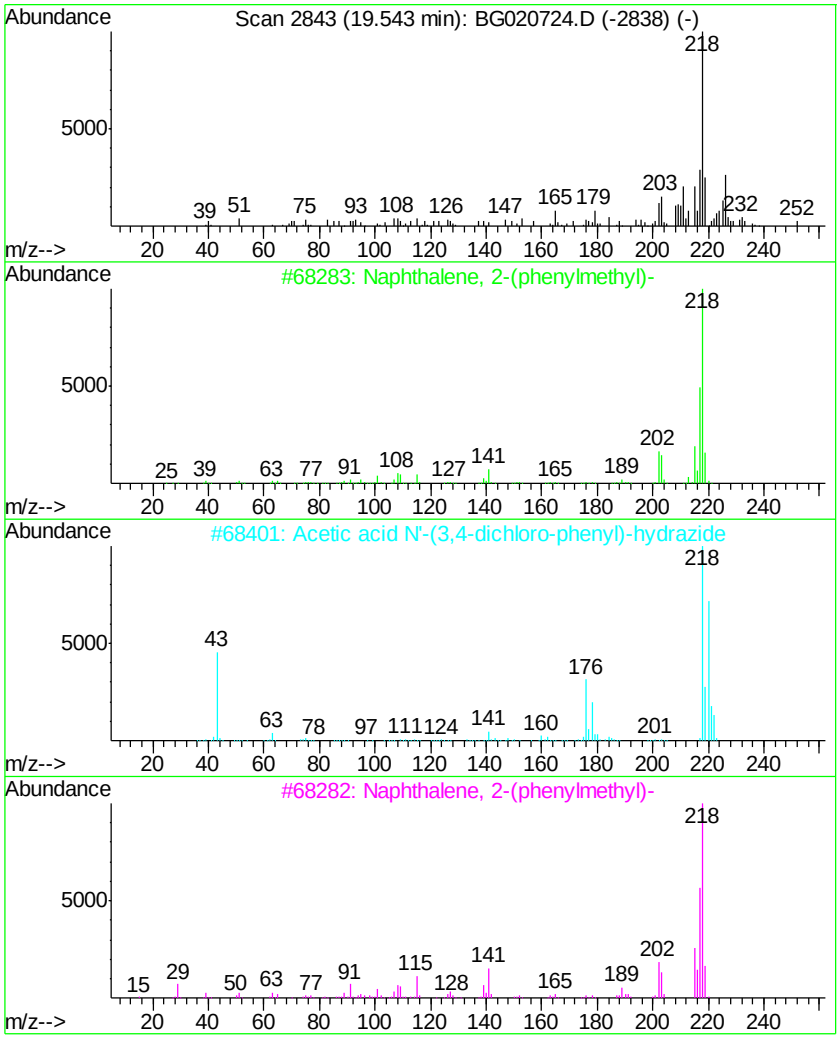
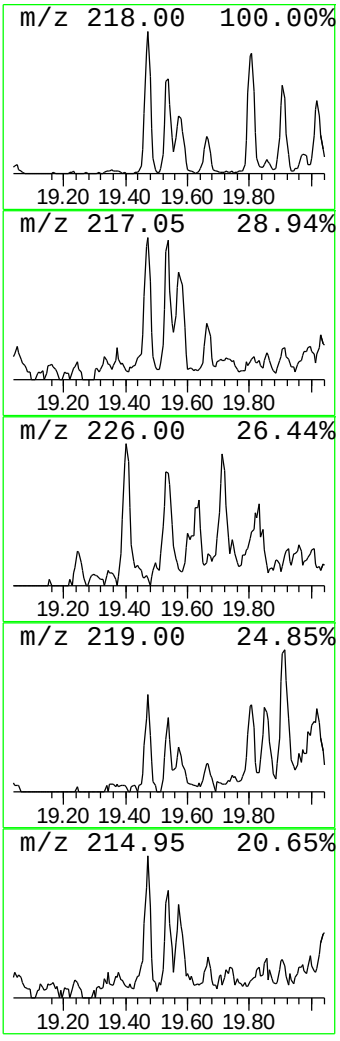
Peak Number 24 unknown-03 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.54	2.96 ng/ul	60914	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-(phenylmethyl)-	218	C17H14	000613-59-2	47
2	Acetic acid N'-(3,4-dichloro-phe...	218	C8H8Cl2N2O	1000294-80-9	38
3	Naphthalene, 2-(phenylmethyl)-	218	C17H14	000613-59-2	38
4	3,5-Cyclohexadiene-1,2-dione, 3,...	244	C6Cl4O2	002435-53-2	38
5	1H-Pyrrolo[3,4-c]quinoline-1,3,4...	218	C11H10N2O3	181021-85-2	38





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Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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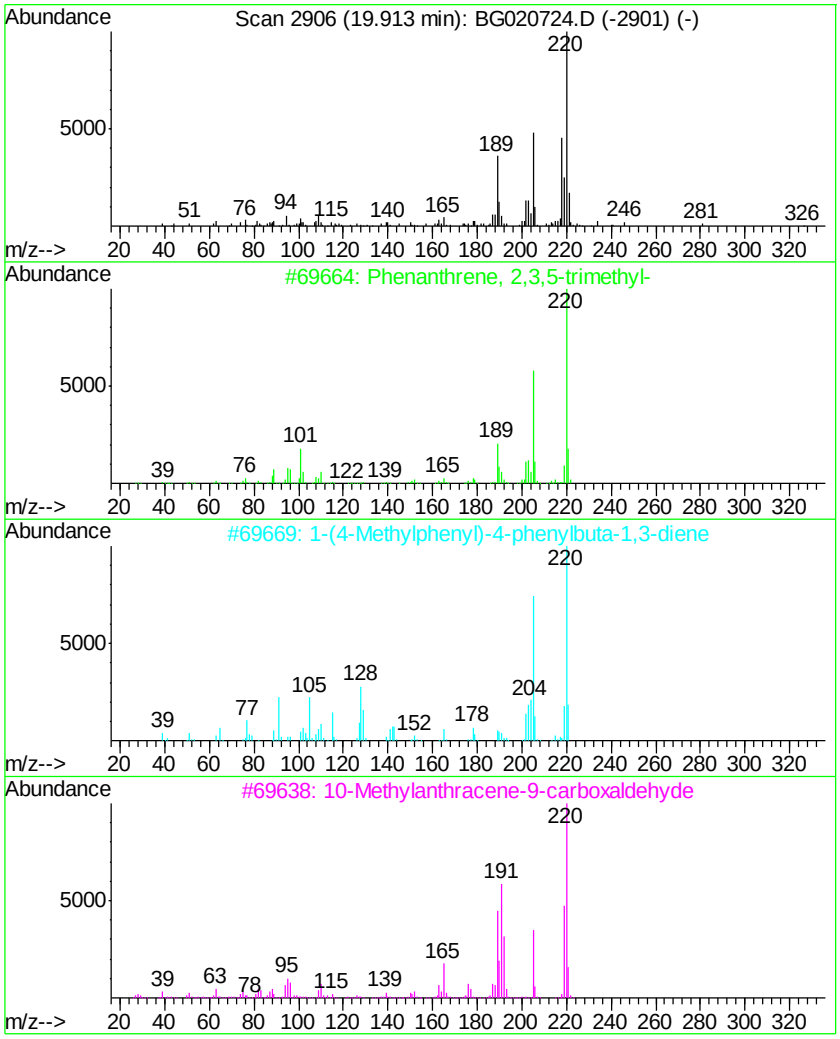
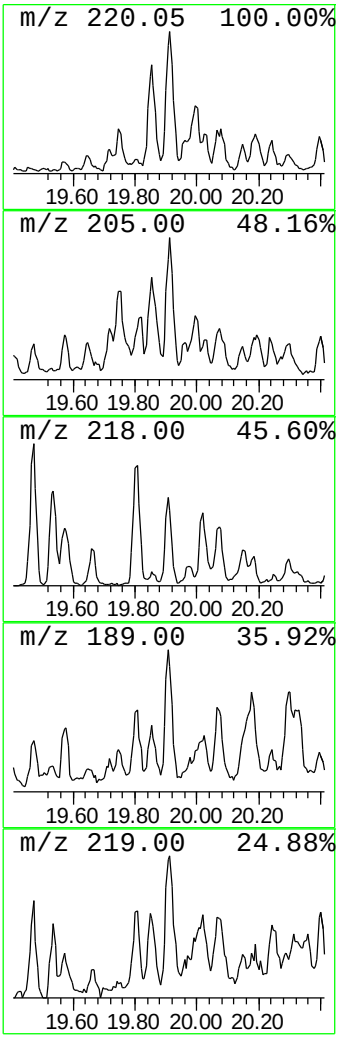
Peak Number 25 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.91	2.23 ng/ul	126037	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	86
2	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	58
3	10-Methylanthracene-9-carboxalde...	220	C16H12O	007072-00-6	53
4	1-Penten-3-one, 4-methyl-1-[2,6,...	220	C15H24O	1000132-20-9	47
5	Noscapine	413	C22H23NO7	000128-62-1	38





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Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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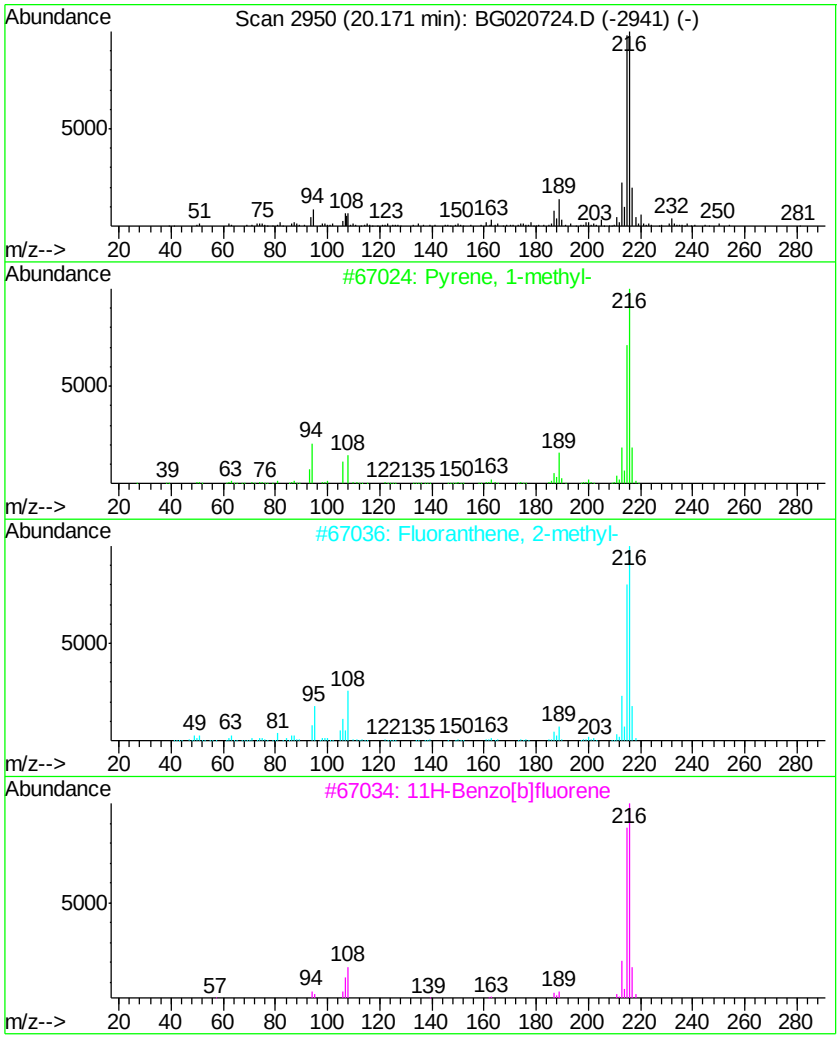
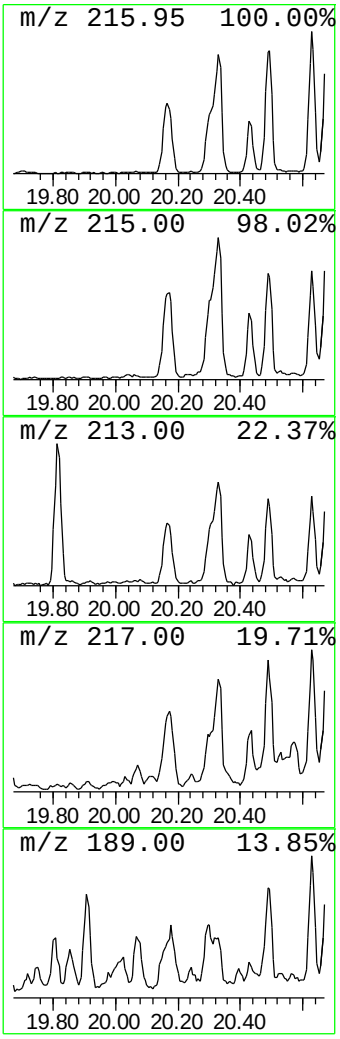
Peak Number 26 Pyrene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.17	5.24 ng/ul	295661	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





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Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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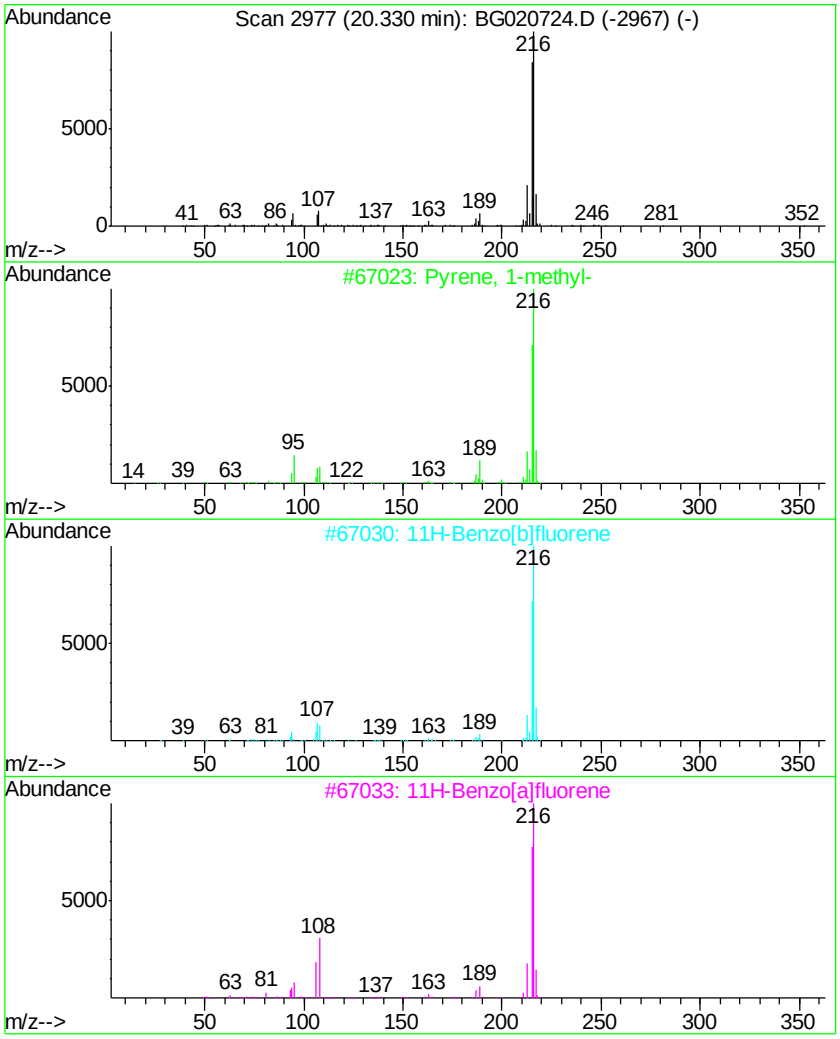
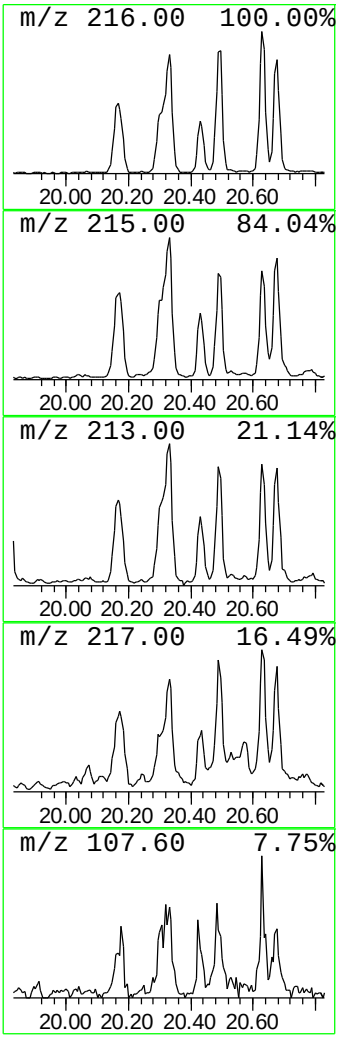
Peak Number 27 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.33	7.28 ng/ul	410635	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





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Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

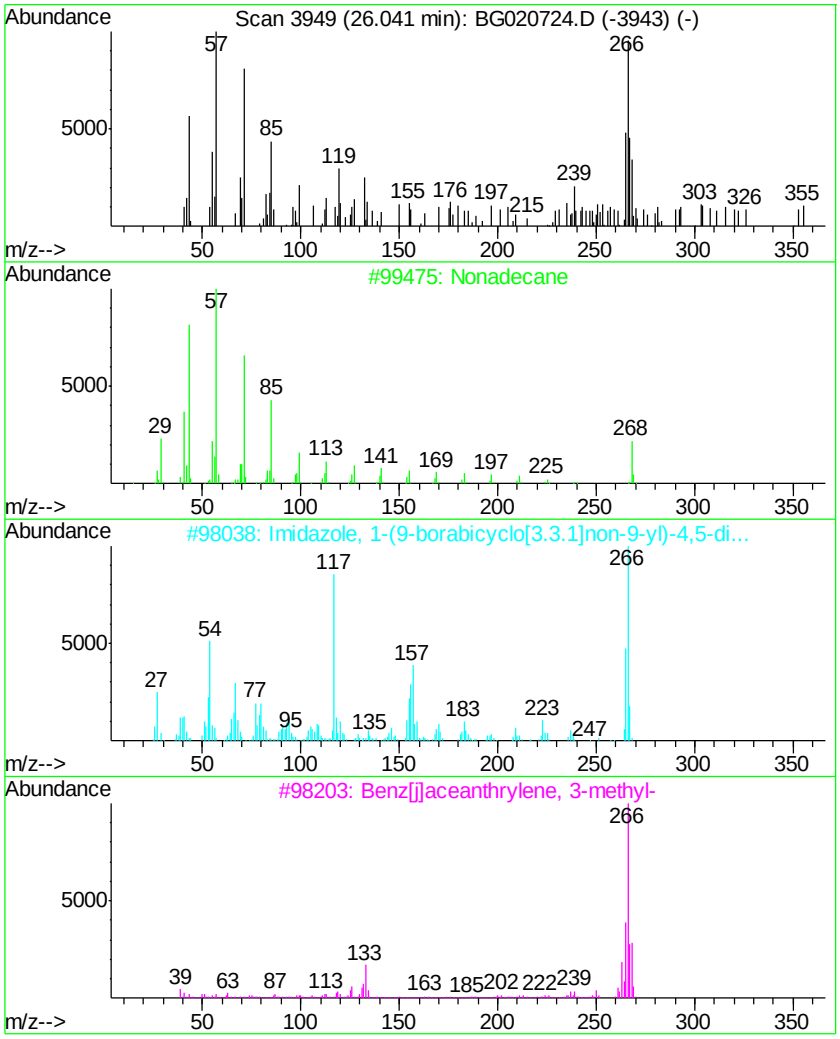
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

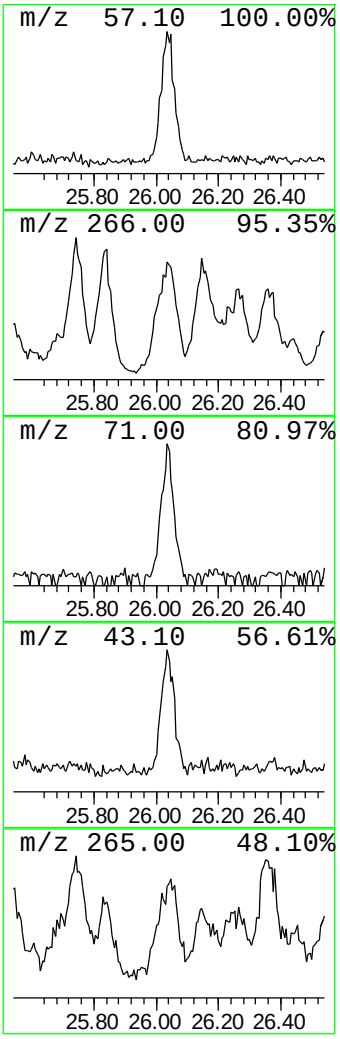
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 43 (DEL) Alkane: Straight-Chai... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.04	5.19 ng/ul	103740	Perylene-d12	24.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	41
2	Imidazole, 1-(9-borabicyclo[3.3....	266	C17H23BN2	1000162-57-9	38
3	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	35
4	6-Ethylphenazine-1-carboxylic ac...	266	C16H14N2O2	261351-38-6	27
5	1-Phosphacyclopent-2-ene, 1,5-di...	266	C18H19P	1000162-78-2	27





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020724.D
Acq On : 14 Jan 2016 6:46
Operator : SJ/IZ
Sample : H1096-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC938

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethanone, 1-cyclo...	3.09	7.8	ng/ul	48175	1	8.04	124232	20.0
Butane, 2-methoxy...	3.13	31.5	ng/ul	195538	1	8.04	124232	20.0
unknown-01	3.94	7.6	ng/ul	47250	1	8.04	124232	20.0
Benzene, (4,5,5-t...	16.39	2.0	ng/ul	41710	4	17.43	411870	20.0
9H-Fluorene, 9-me...	16.73	2.7	ng/ul	56119	4	17.43	411870	20.0
9H-Fluoren-9-one	17.09	2.1	ng/ul	43130	4	17.43	411870	20.0
unknown-02	17.83	2.6	ng/ul	53946	4	17.43	411870	20.0
Dibenzothiophene,...	18.01	3.3	ng/ul	68130	4	17.43	411870	20.0
Phenanthrene, 2-m...	18.30	10.0	ng/ul	205041	4	17.43	411870	20.0
1H-Cyclopropa[l]p...	18.35	11.7	ng/ul	241757	4	17.43	411870	20.0
Anthracene, 1-met...	18.43	3.3	ng/ul	68705	4	17.43	411870	20.0
Anthracene, 2-met...	18.49	15.2	ng/ul	312763	4	17.43	411870	20.0
5,16[1',2']:8,13[...	18.80	5.6	ng/ul	115258	4	17.43	411870	20.0
9,10-Anthracenedione	18.85	5.8	ng/ul	119111	4	17.43	411870	20.0
Phenanthrene, 4,5...	18.92	2.4	ng/ul	49533	4	17.43	411870	20.0
Phenanthrene, 2,5...	19.04	2.4	ng/ul	49118	4	17.43	411870	20.0
di-p-Tolylacetylene	19.09	2.9	ng/ul	59424	4	17.43	411870	20.0
Phenanthrene, 1,7...	19.13	2.3	ng/ul	48269	4	17.43	411870	20.0
9,10-Dimethylanth...	19.21	13.2	ng/ul	272183	4	17.43	411870	20.0
Cyclopenta(def)ph...	19.36	10.8	ng/ul	222126	4	17.43	411870	20.0
unknown-03	19.54	3.0	ng/ul	60914	4	17.43	411870	20.0
Phenanthrene, 2,3...	19.91	2.2	ng/ul	126037	5	21.70	1128230	20.0
Pyrene, 1-methyl-	20.17	5.2	ng/ul	295661	5	21.70	1128230	20.0
11H-Benzo[b]fluorene	20.33	7.3	ng/ul	410635	5	21.70	1128230	20.0
(DEL) Alkane: Str...	26.04	5.2	ng/ul	103740	6	24.96	399465	20.0