LSC Area Percent Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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	3.055	32	37	41	rBV2	17124	34620	4.20%	0.303%
2	3.131	46	50	55	rVV	25769	40507	4.92%	0.354%
3	8.043	879	886	895	rVB2	55043	92500	11.23%	0.809%
4	10.487	1297	1302	1311	rBV2	8176	15023	1.82%	0.131%
5	10.858	1357	1365	1372	rBV	82129	143643	17.43%	1.257%
6	14.001	1895	1900	1905	rBV3	8524	14228	1.73%	0.124%
7	14.077	1905	1913	1918	rVV2	23788	40191	4.88%	0.352%
8	14.124	1918	1921	1927	rVB	11228	15357	1.86%	0.134%
9	14.377	1958	1964	1976	rBV	25378	46168	5.60%	0.404%
10	14.683	2005	2016	2022	rBV2	138289	222039	26.95%	1.943%
11	14.747	2022	2027	2033	rVB3	8975	14300	1.74%	0.125%
12	15.076	2076	2083	2090	rVV2	12129	20628	2.50%	0.180%
13	15.147	2090	2095	2101	rVV2	12547	18828	2.28%	0.165%
14	15.294	2114	2120	2125	rBV	11761	18922	2.30%	0.166%
15	15.464	2141	2149	2152	rBV5	6073	14044	1.70%	0.123%
16	15.670	2180	2184	2189	rVB	35120	47510	5.77%	0.416%
17	15.722	2189	2193	2198	rBV3	13079	19265	2.34%	0.169%
18	16.392	2304	2307	2314	rVB6	14047	24678	2.99%	0.216%
19	16.727	2354	2364	2369	rBV4	16385	39136	4.75%	0.342%
20	16.780	2369	2373	2378	rVB2	11806	17846	2.17%	0.156%
21	16.880	2386	2390	2394	rVB3	9808	15761	1.91%	0.138%
22	16.956	2394	2403	2407	rBV6	9415	27122	3.29%	0.237%
23	17.086	2420	2425	2431	rBV3	15625	26576	3.23%	0.233%
24	17.156	2433	2437	2442	rVV3	13427	19320	2.34%	0.169%
25	17.250	2448	2453	2459	rVB	18033	30041	3.65%	0.263%
26	17.426	2478	2483	2487	rBV2	178867	285355	34.63%	2.497%
27	17.468	2487	2490	2496	rVV	234898	339658	41.22%	2.972%
28	17.526	2496	2500	2503	rVV	40281	58158	7.06%	0.509%
29	17.561	2503	2506	2510	rVB	28397	36181	4.39%	0.317%
30	17.620	2510	2516	2521	rBV3	12128	24590	2.98%	0.215%
31	17.832	2546	2552	2560	rBV4	18943	50151	6.09%	0.439%
32	17.943	2567	2571	2574	rVB	14407	17781	2.16%	0.156%
33	18.008	2577	2582	2589	rVB2	36267	58262	7.07%	0.510%
34	18.155	2602	2607	2614	rVB	18135	33459	4.06%	0.293%

LSC Area Percent Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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	18.302	2627	2632	2636	rBV	114581	169544	20.58%	1.483%
36	18.349	2636	2640	2647	rVB	141251	216482	26.27%	1.894%
37	18.431	2647	2654	2659	rBV	30215	55960	6.79%	0.490%
38	18.490	2659	2664	2669	rBV2	117706	237319	28.80%	2.076%
39	18.537	2669	2672	2677	rVB	88577	120125	14.58%	1.051%
40	18.695	2695	2699	2704	rVB3	20392	28804	3.50%	0.252%
41	18.795	2712	2716	2720	rBV2	66875	97229	11.80%	0.851%
42	18.848	2720	2725	2734	rVB2	68946	121118	14.70%	1.060%
43	18.919	2734	2737	2740	rBV	13561	19674	2.39%	0.172%
44	19.019	2749	2754	2755	rBV	19470	26315	3.19%	0.230%
45	19.042	2755	2758	2763	rVB	37423	44999	5.46%	0.394%
46	19.095	2763	2767	2770	rBV	48202	60974	7.40%	0.533%
47	19.130	2770	2773	2777	rVB2	42533	55448	6.73%	0.485%
48	19.213	2781	2787	2792	rBV	154992	247907	30.09%	2.169%
49	19.271	2792	2797	2801	rVV3	45279	89382	10.85%	0.782%
50	19.307	2801	2803	2806	rVB	43156	40776	4.95%	0.357%
51	19.359	2806	2812	2824	rVB4	54825	160568	19.49%	1.405%
52	19.483	2826	2833	2838	rBV	403597	605857	73.53%	5.301%
53	19.536	2838	2842	2845	rBV2	33142	48004	5.83%	0.420%
54	19.571	2845	2848	2853	rVB2	38698	54704	6.64%	0.479%
55	19.677	2862	2866	2869	rVB3	18988	25582	3.10%	0.224%
56	19.718	2869	2873	2877	rBV2	29576	50632	6.14%	0.443%
57	19.812	2883	2889	2891	rBV2	113491	183667	22.29%	1.607%
58	19.847	2891	2895	2901	rVB	510681	759364	92.16%	6.644%
59	19.912	2901	2906	2911	rVB	79056	118932	14.43%	1.041%
60	19.994	2911	2920	2923	rBV3	24602	63547	7.71%	0.556%
61	20.029	2923	2926	2929	rVB3	25908	34625	4.20%	0.303%
62	20.070	2929	2933	2941	rVB4	39511	71684	8.70%	0.627%
63	20.170	2941	2950	2957	rBV5	82349	231449	28.09%	2.025%
64	20.247	2957	2963	2967	rBV6	19176	43010	5.22%	0.376%
65	20.329	2967	2977	2982	rVB	111262	278295	33.77%	2.435%
66	20.429	2986	2994	2998	rBV2	69973	124540	15.11%	1.090%
67	20.493	2998	3005	3009	rVV2	124187	192322	23.34%	1.683%
68	20.529	3009	3011	3015	rVB2	21476	24032	2.92%	0.210%
69	20.628	3024	3028	3032	rBV	112579	156588	19.00%	1.370%
70	20.676	3032	3036	3040	rVV	83780	106125	12.88%	0.928%
71	20.881	3067	3071	3075	rBV4	42809	70843	8.60%	0.620%

LSC Area Percent Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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	20.999	3089	3091	3094	rVB2	21492	19928	2.42%	0.174%
73	21.099	3103	3108	3114	rVB2	77608	133478	16.20%	1.168%
74	21.193	3120	3124	3129	rVB	27992	41400	5.02%	0.362%
75	21.281	3130	3139	3143	rBV3	87674	202473	24.57%	1.771%
76	21.322	3143	3146	3150	rVV	62104	83967	10.19%	0.735%
77	21.375	3151	3155	3159	rVV2	37532	66587	8.08%	0.583%
78	21.439	3159	3166	3173	rVB2	49754	110052	13.36%	0.963%
79	21.569	3183	3188	3193	rVB2	15687	30095	3.65%	0.263%
80	21.692	3202	3209	3215	rBV2	302583	824005	100.00%	7.209%
81	21.751	3215	3219	3230	rVB	254788	448536	54.43%	3.924%
82	21.851	3232	3236	3241	rVB3	27549	47901	5.81%	0.419%
83	21.903	3241	3245	3250	rBV4	27745	51150	6.21%	0.448%
84	21.980	3254	3258	3267	rBV5	25537	67055	8.14%	0.587%
85	22.180	3288	3292	3296	rBV3	22234	36877	4.48%	0.323%
86	22.438	3327	3336	3344	rVV	90941	213450	25.90%	1.867%
87	22.509	3344	3348	3357	rVB2	52516	101011	12.26%	0.884%
88	22.714	3377	3383	3387	rBV2	49191	100994	12.26%	0.884%
89	23.296	3478	3482	3485	rBV2	12250	18718	2.27%	0.164%
90	23.925	3581	3589	3597	rBV2	116349	402758	48.88%	3.524%
91	24.183	3627	3633	3640	rVB2	23833	59168	7.18%	0.518%
92	24.383	3663	3667	3674	rBV10	11920	30559	3.71%	0.267%
93	24.653	3705	3713	3721	rBV	84292	226631	27.50%	1.983%
94	24.800	3732	3738	3750	rVB	124202	349298	42.39%	3.056%
95	24.959	3753	3765	3773	rBV2	112833	332451	40.35%	2.909%
96	26.351	3996	4002	4003	rBV6	16222	23168	2.81%	0.203%
97	28.684	4387	4399	4418	rVB3	49583	238091	28.89%	2.083%
98	29.142	4471	4477	4479	rBV2	7707	14382	1.75%	0.126%
99	29.307	4497	4505	4506	rBV4	9331	19590	2.38%	0.171%
100	29.847	4582	4597	4609	rVV2	37290	177835	21.58%	1.556%

Sum of corrected areas: 11429882

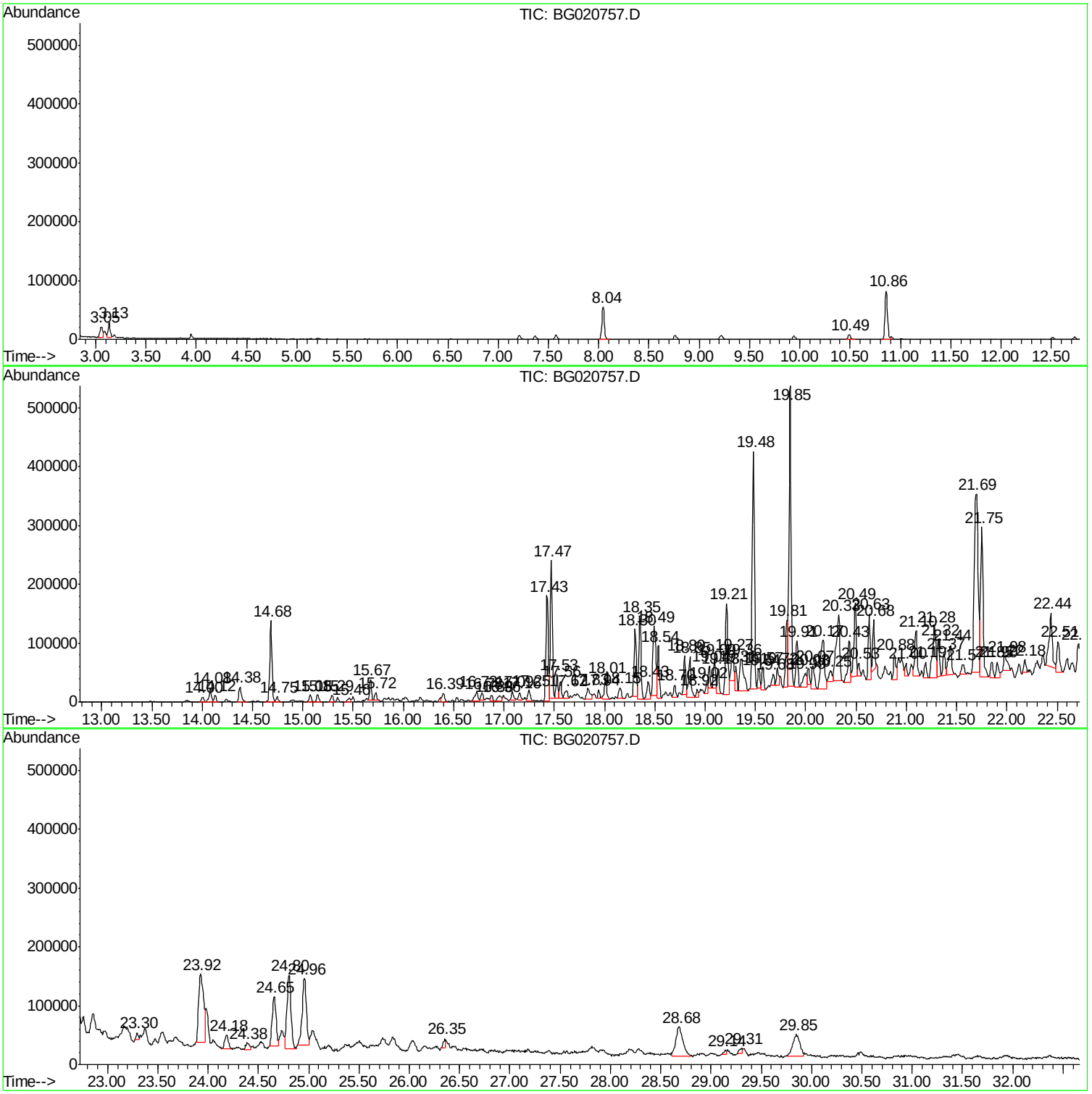
LSC Report - Integrated Chromatogram

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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 : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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

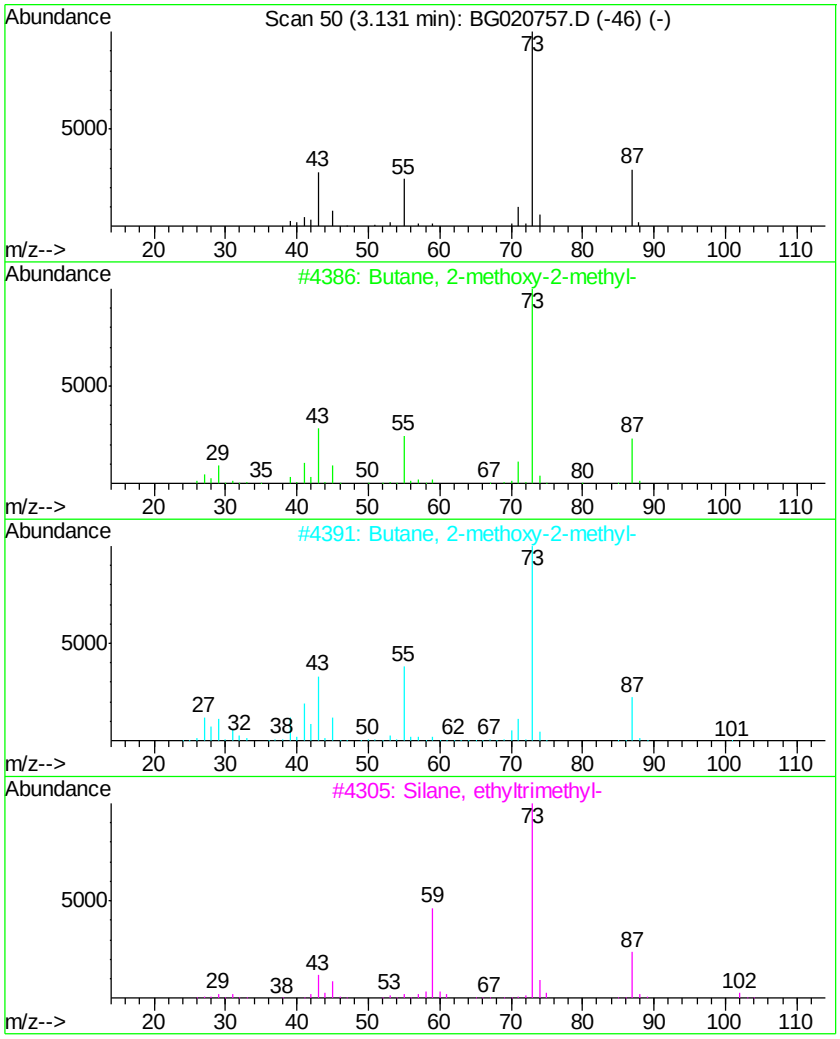
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

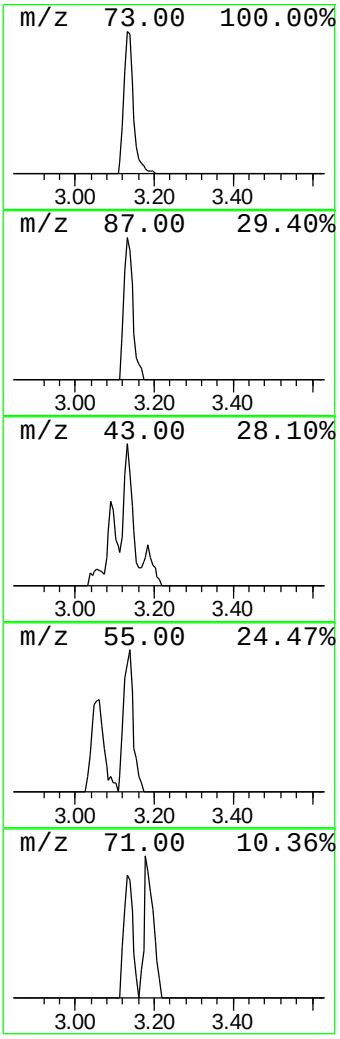
****

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.13	8.76 ng/ul	40507	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	90
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	64
3	Silane, ethyltrimethyl-	102	C5H14Si	003439-38-1	36
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	32
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9





Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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

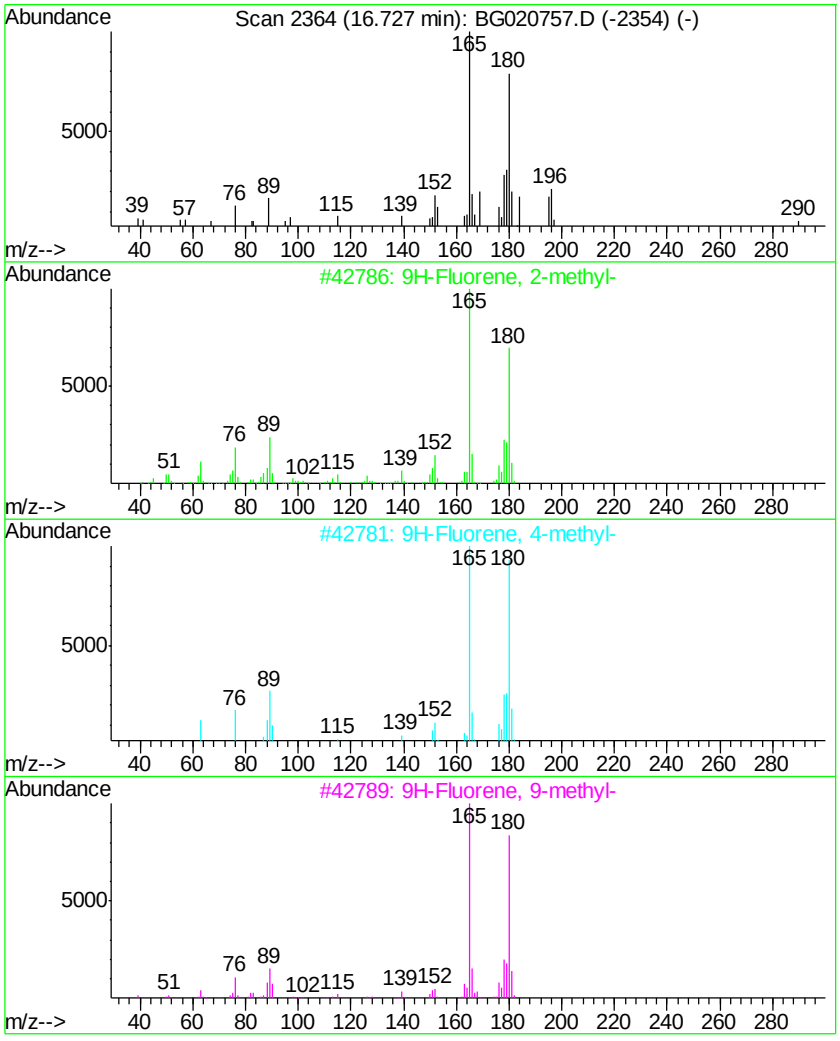
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

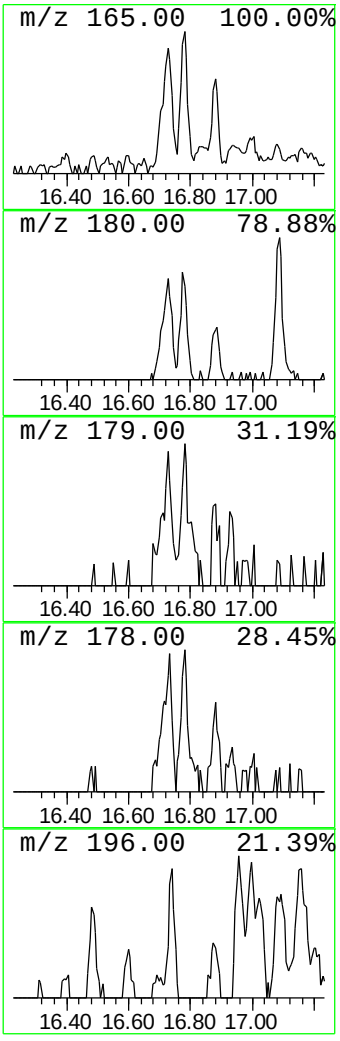
****

Peak Number 3 9H-Fluorene, 2-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	2.74 ng/ul	39136	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
2	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	70
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	64
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	60
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	60





Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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

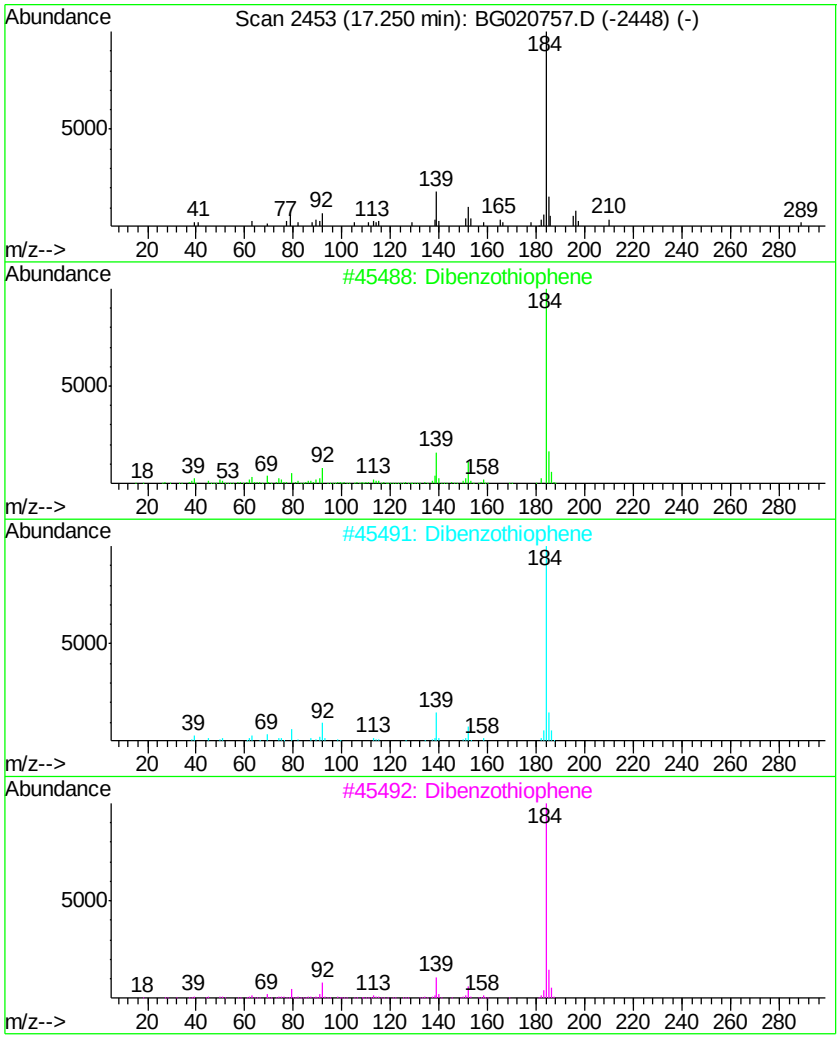
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

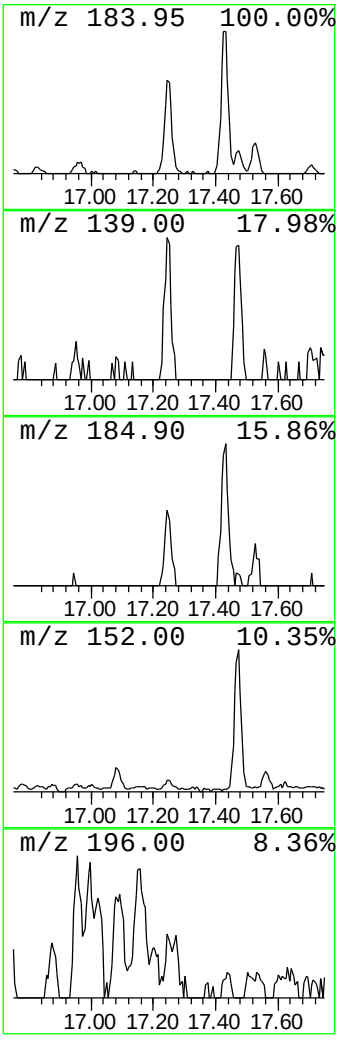
****

Peak Number 4 Dibenzothiophene Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.25	2.11 ng/ul	30041	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	94
2	Dibenzothiophene	184	C12H8S	000132-65-0	91
3	Dibenzothiophene	184	C12H8S	000132-65-0	91
4	Dibenzothiophene	184	C12H8S	000132-65-0	87
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





Library Search Compound Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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

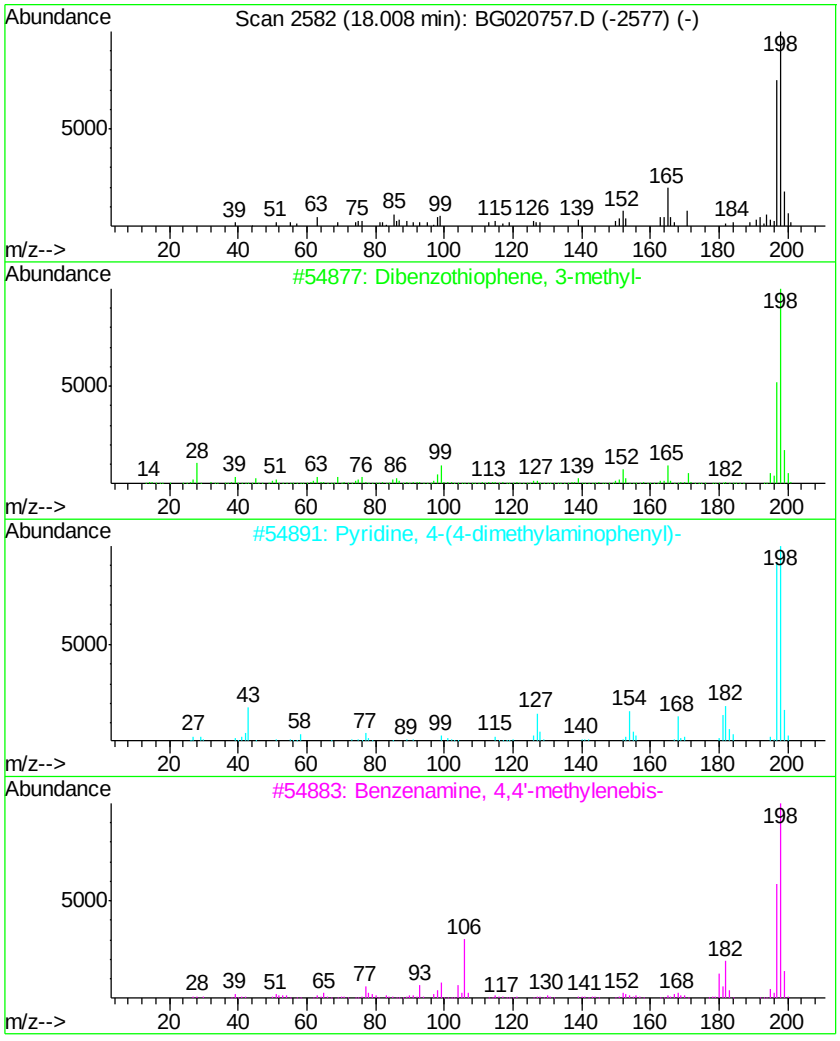
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

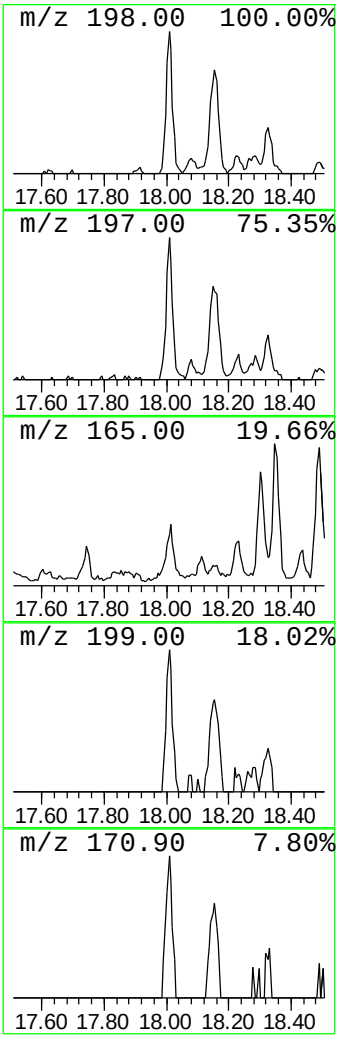
****

Peak Number 5 Dibenzothiophene, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.01	4.08 ng/ul	58262	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	74
2	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	64
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	64
4	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	64
5	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	64





Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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

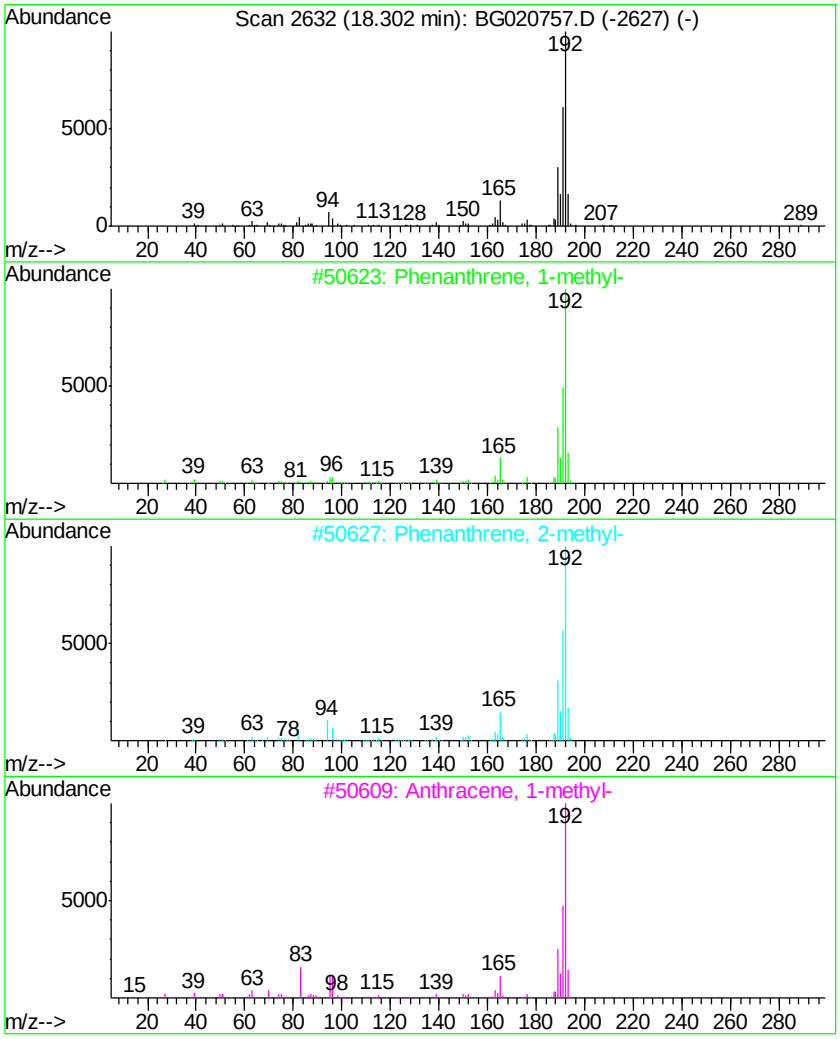
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

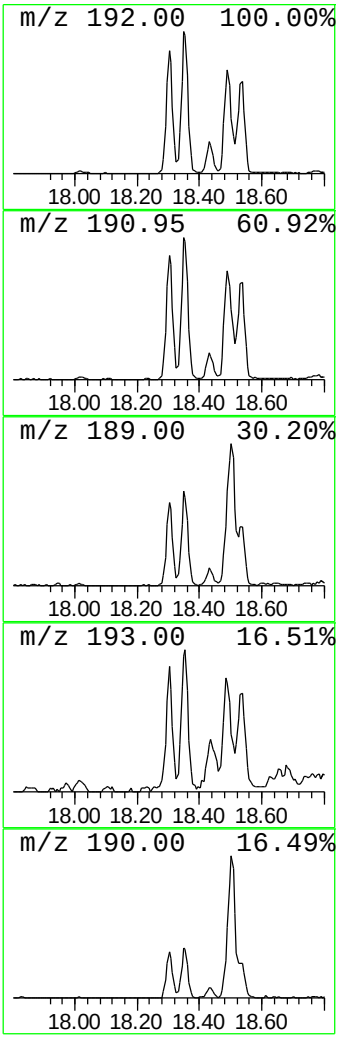
****

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.30	11.88 ng/ul	169544	Phenanthrene-d10	17.43

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	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





Library Search Compound Report

Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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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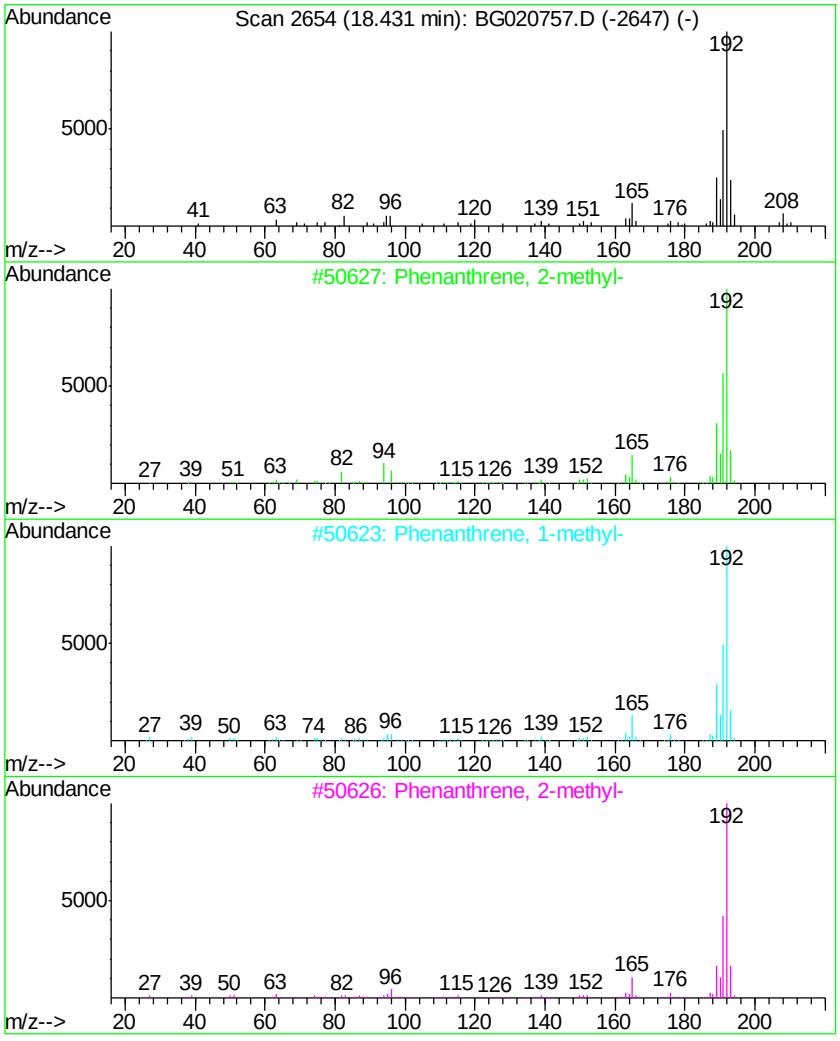
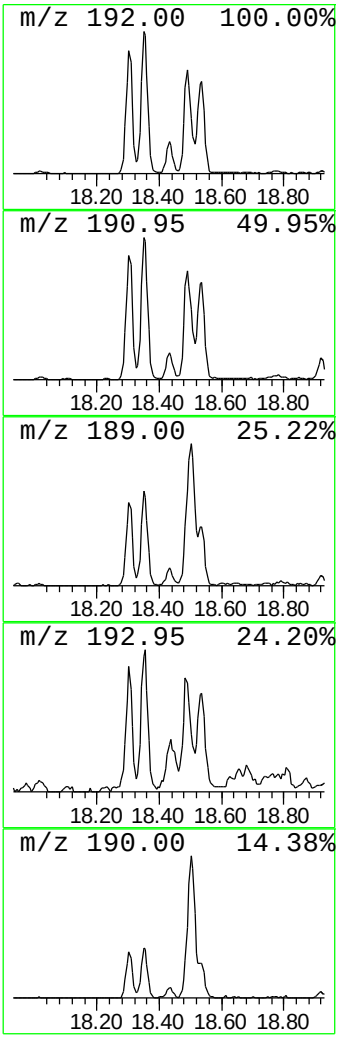
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	3.92 ng/ul	55960	Phenanthrene-d10	17.43

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





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Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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TIC Library : C:\DATABASE\NIST02.L
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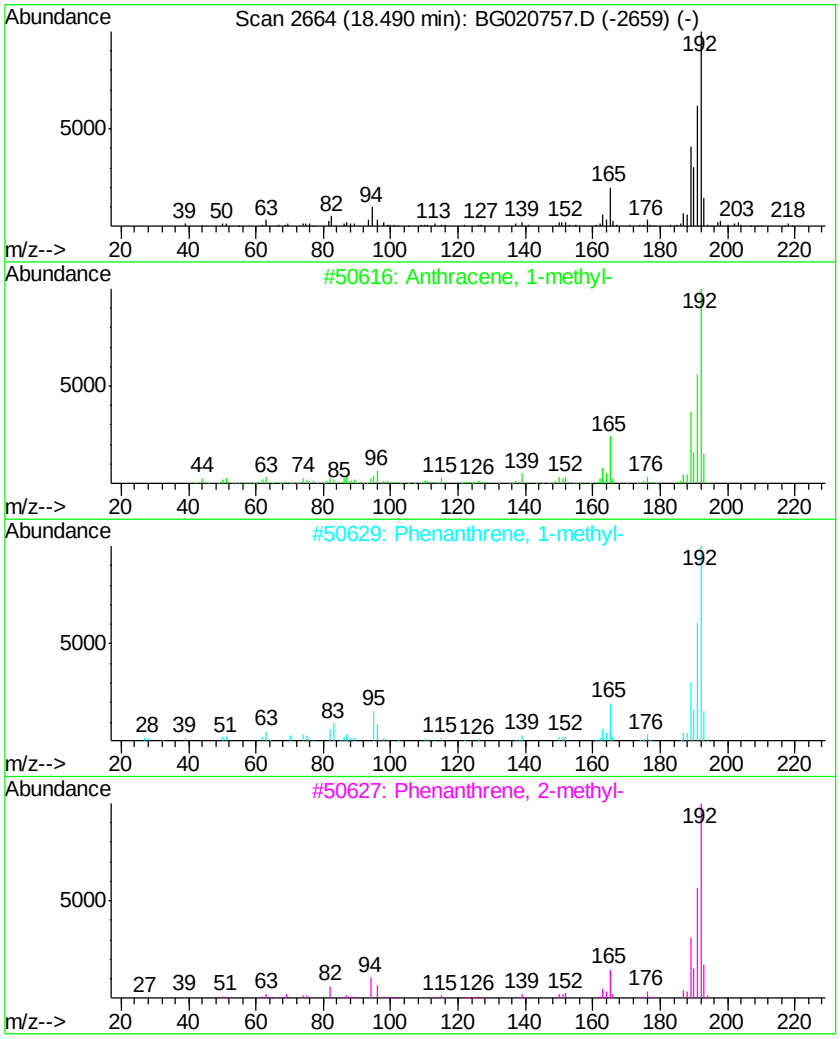
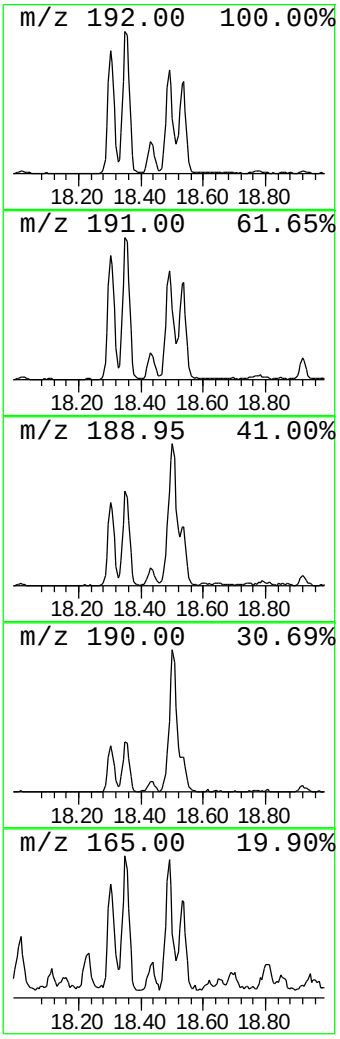
Peak Number 10 Anthracene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	16.63 ng/ul	237319	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	70





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Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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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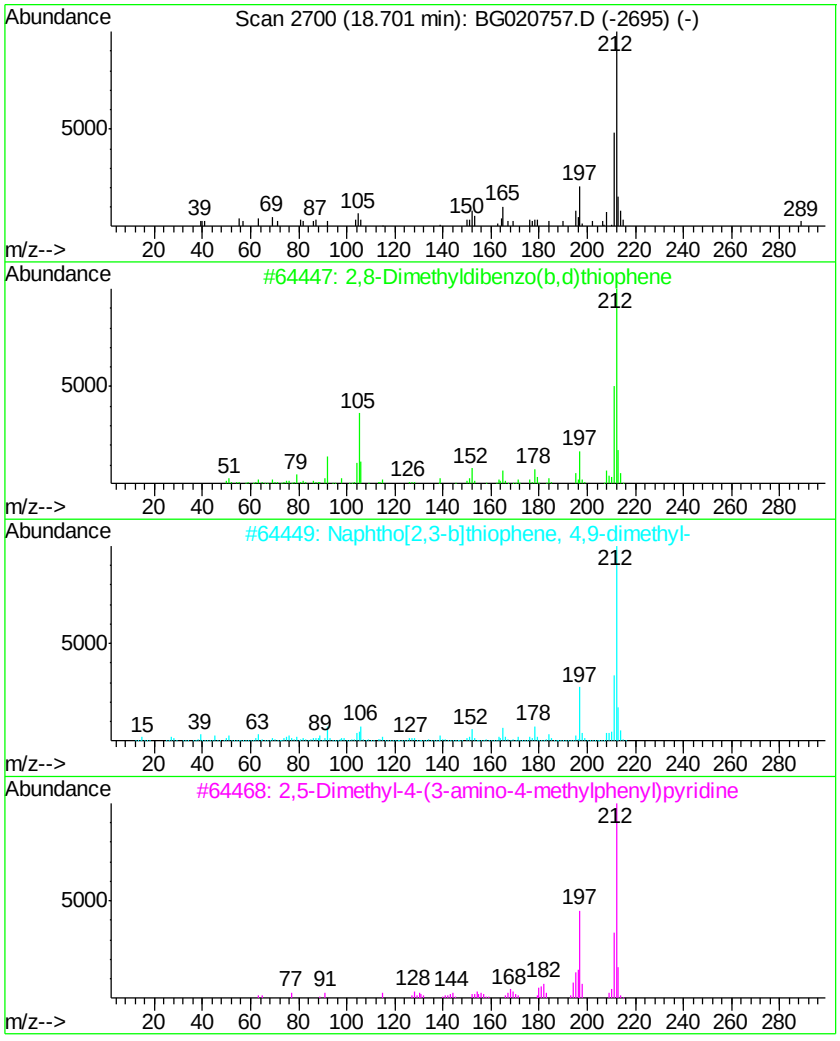
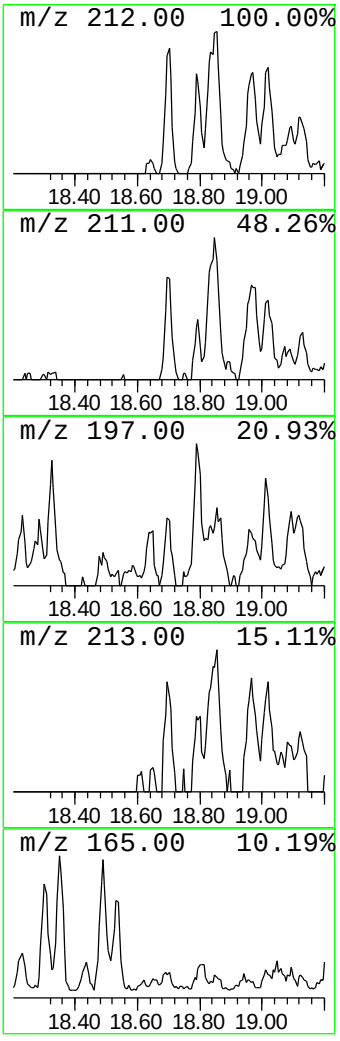
Peak Number 12 2,8-Dimethyldibenzo(b,d)thi... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	2.02 ng/ul	28804	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	93
2	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	90
3	2,5-Dimethyl-4-(3-amino-4-methyl...	212	C14H16N2	071153-33-8	59
4	5-Cyano-1,2,3,4-tetrahydro-6-met...	212	C13H12N2O	027036-92-6	50
5	Harmine	212	C13H12N2O	000442-51-3	50





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ClientSampleId : BC9F8

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TIC Integration Parameters: LSCINT.P

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Peak Number 13 2-Phenylnaphthalene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	6.81 ng/ul	97229	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	89
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55
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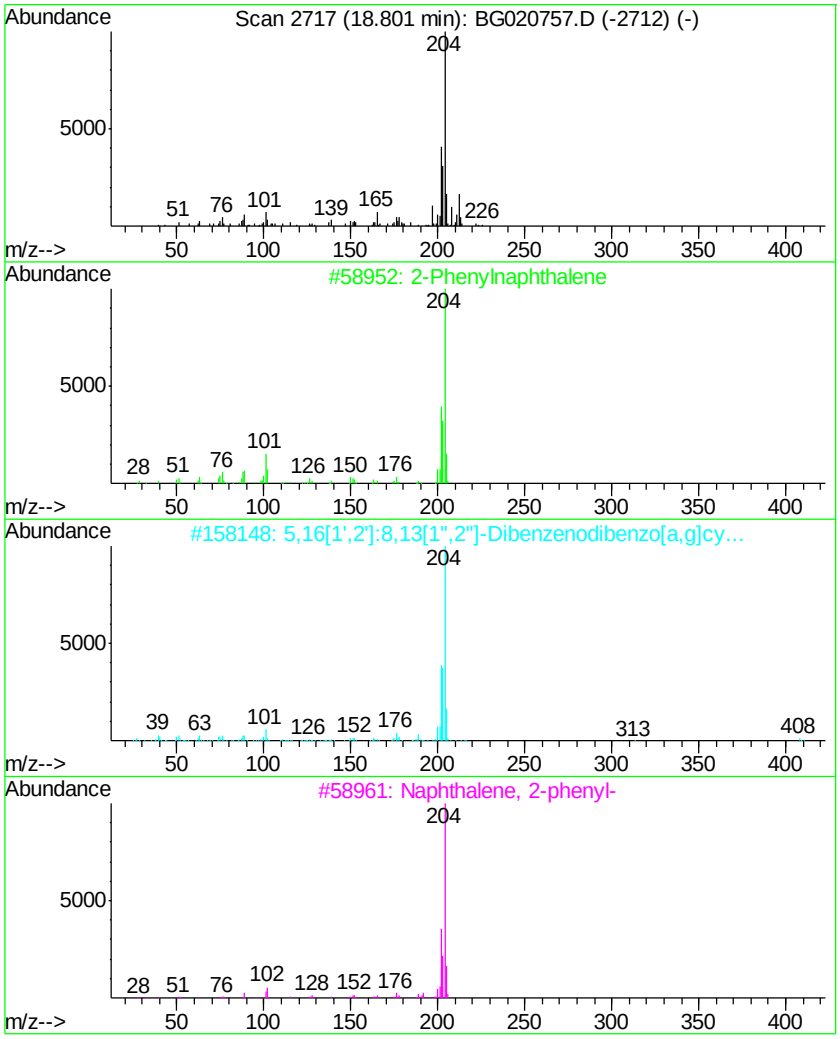

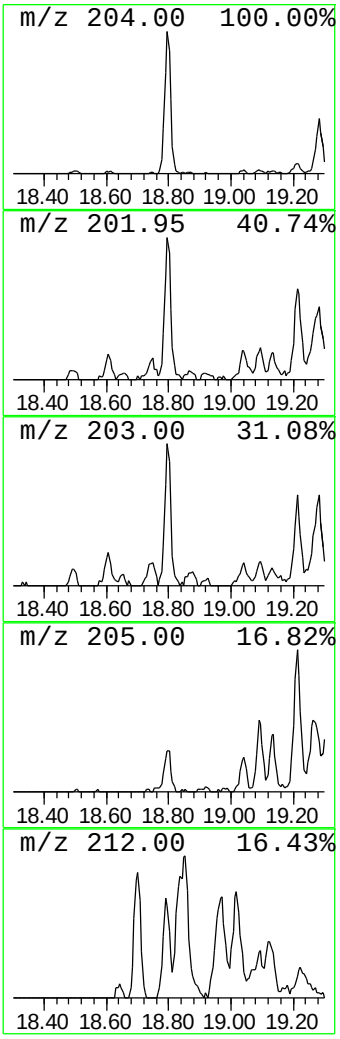

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ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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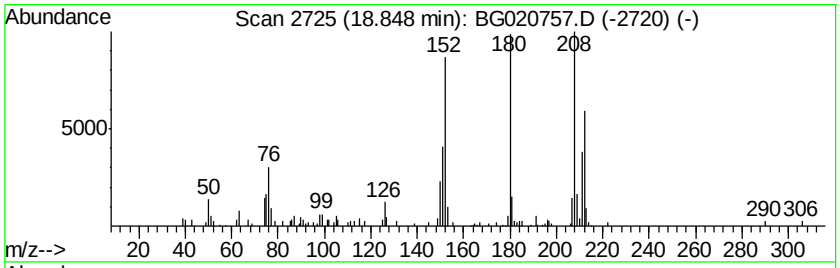
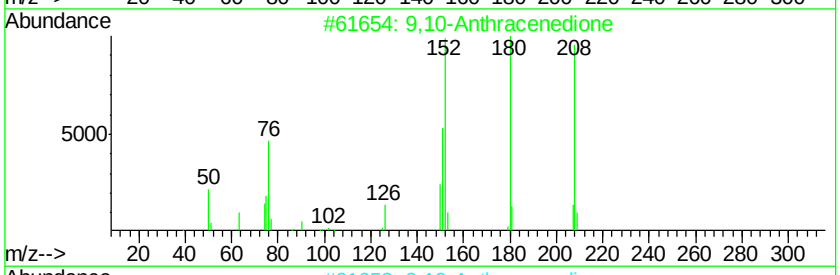
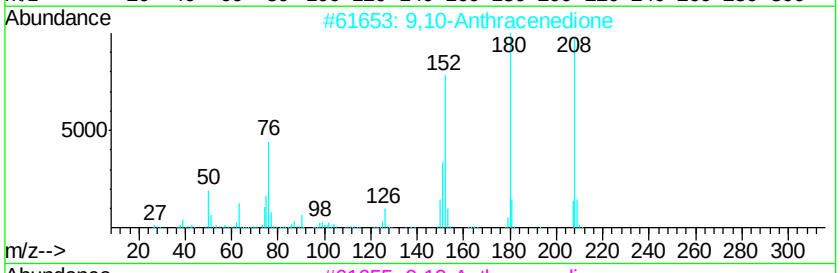
Peak Number 14 9,10-Anthracenedione Concentration Rank 8

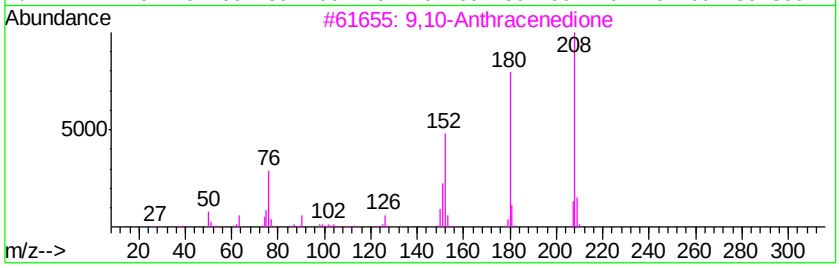
R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	8.49 ng/ul	121118	Phenanthrene-d10	17.43

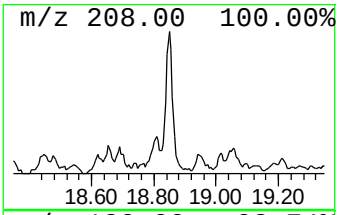
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	89
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	70
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	55

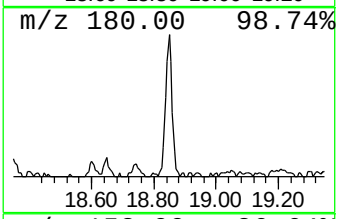


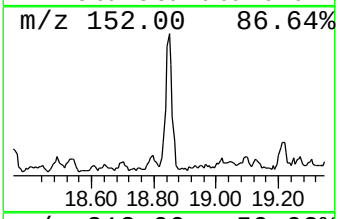


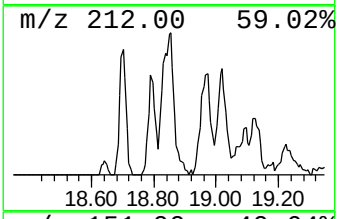


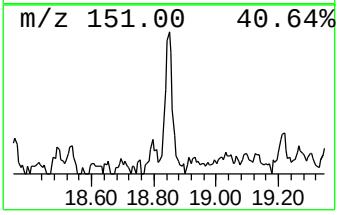












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Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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

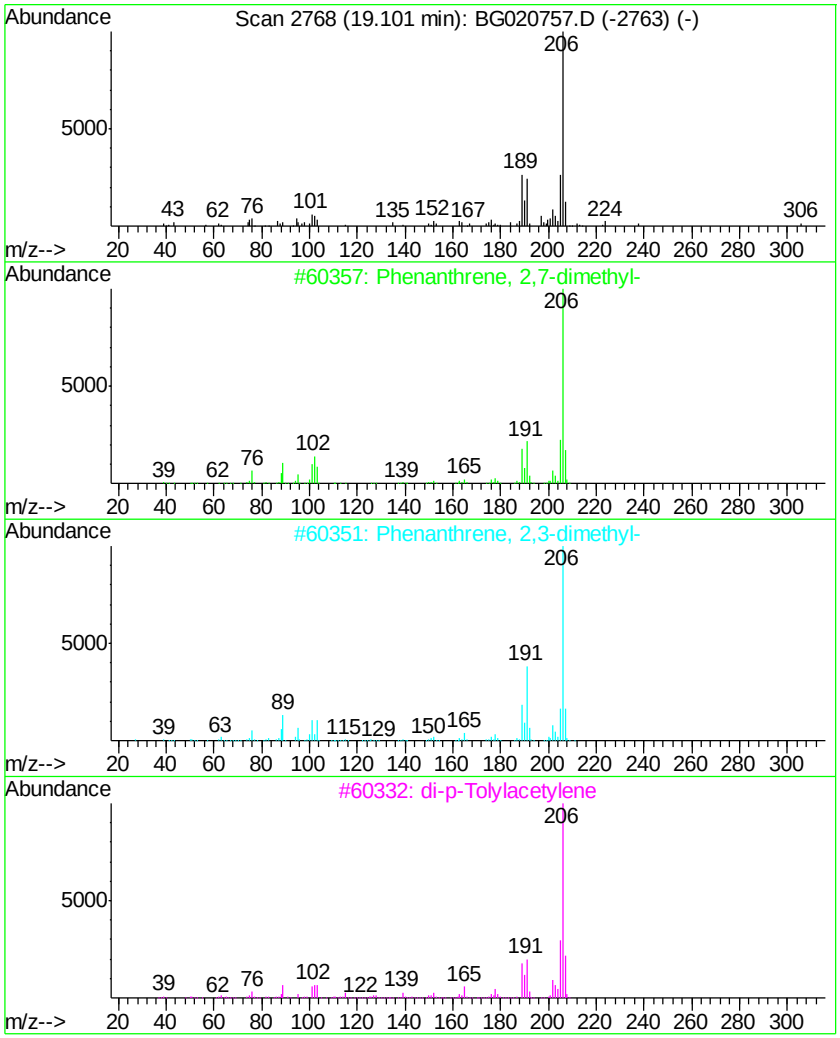
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

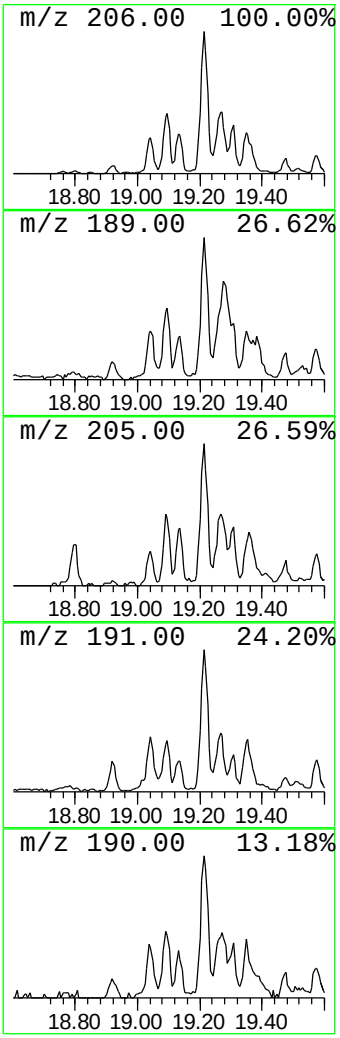
****

Peak Number 16 Phenanthrene, 2,7-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.10	4.27 ng/ul	60974	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	74
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	72
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	72
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	72





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Instrument : BNA_G
ClientSampleId : BC9F8

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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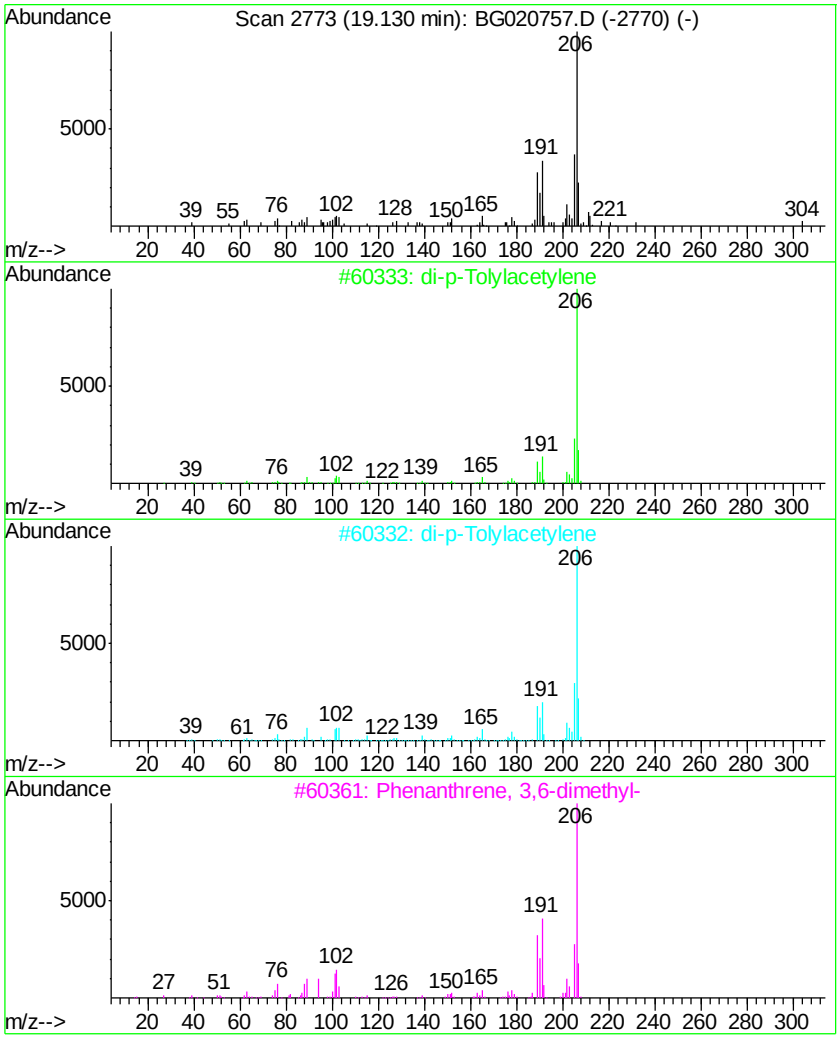
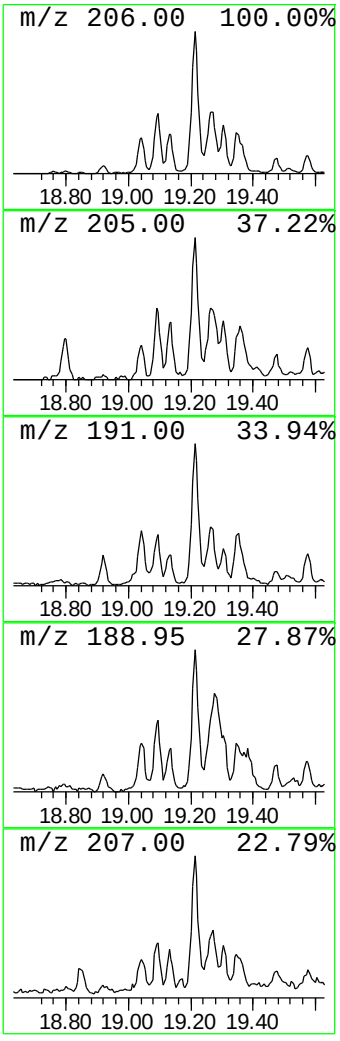
Peak Number 17 di-p-Tolylacetylene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.13	3.89 ng/ul	55448	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	87
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	81





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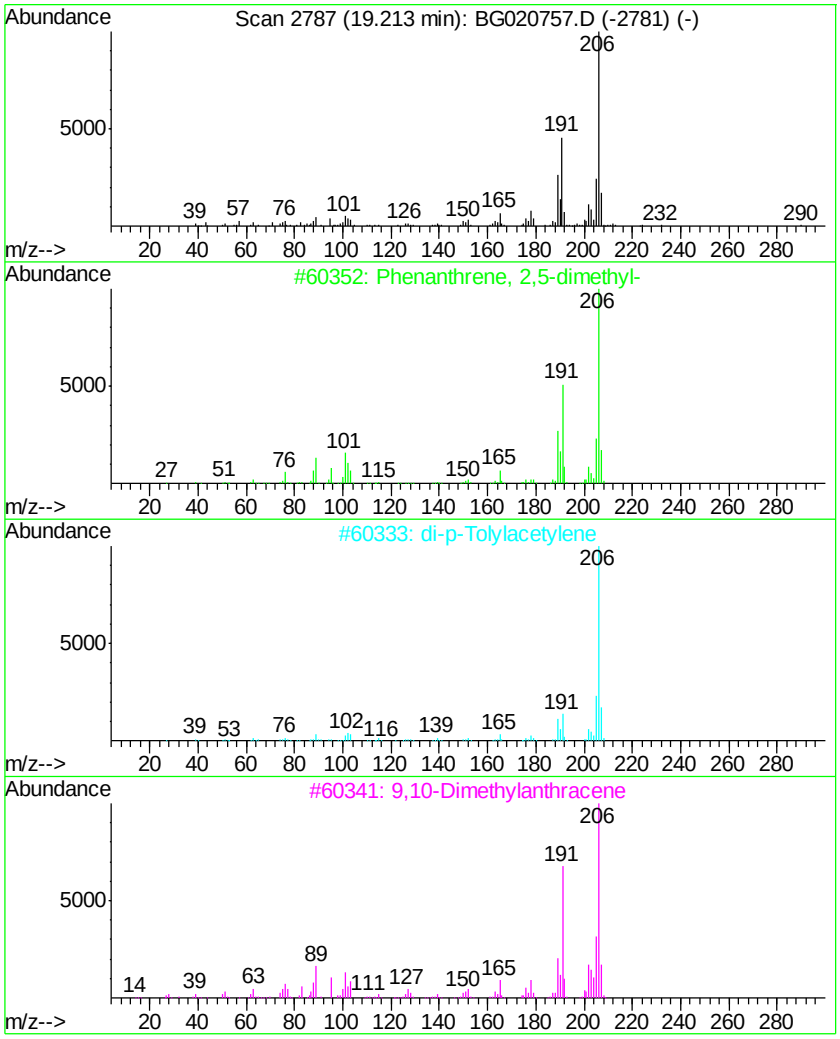
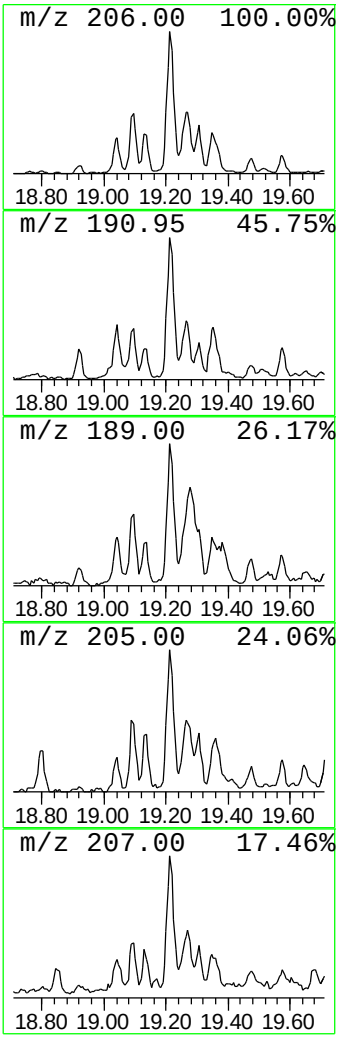
Peak Number 18 Phenanthrene, 2,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.21	17.38 ng/ul	247907	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	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	81





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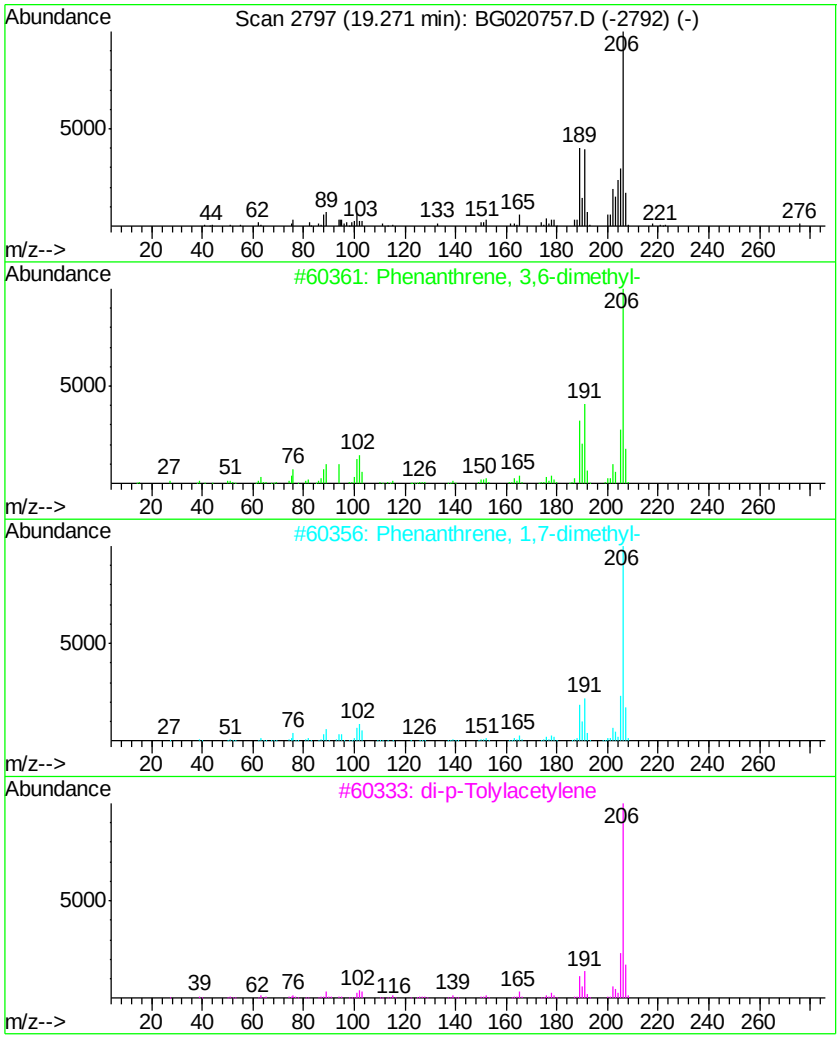
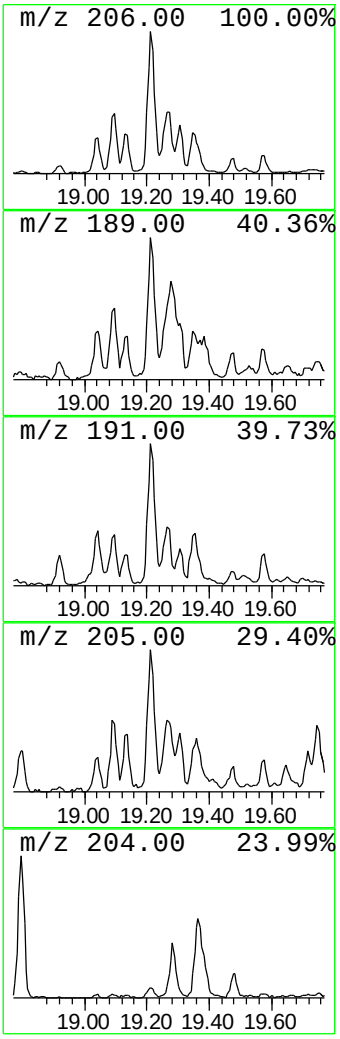
Peak Number 19 Phenanthrene, 3,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.27	6.26 ng/ul	89382	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	86
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	81
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	76
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	76
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	74





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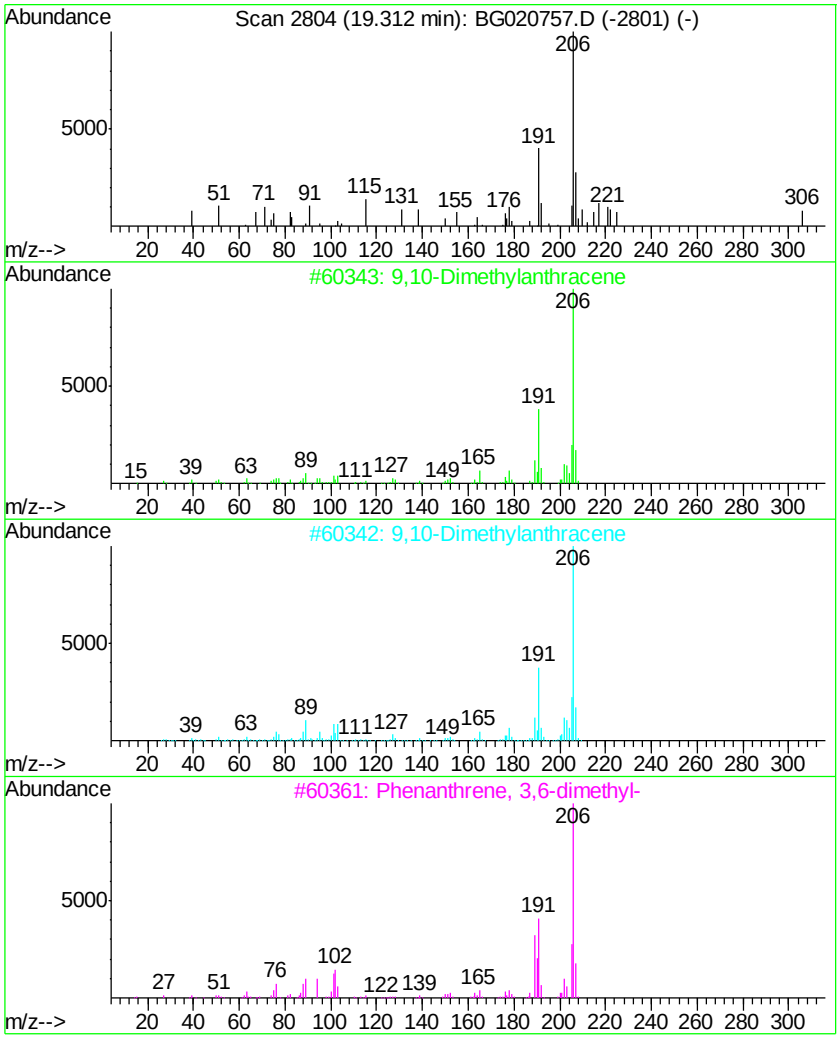
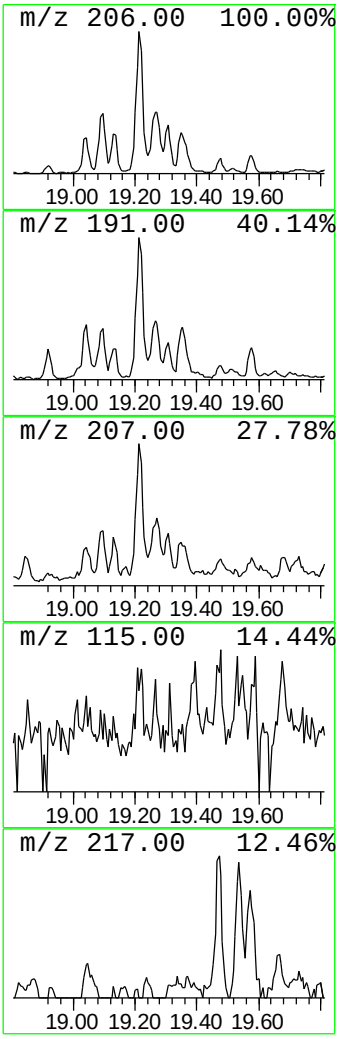
Peak Number 20 9,10-Dimethylanthracene Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.31	2.86 ng/ul	40776	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	86
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	80
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	80
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	78





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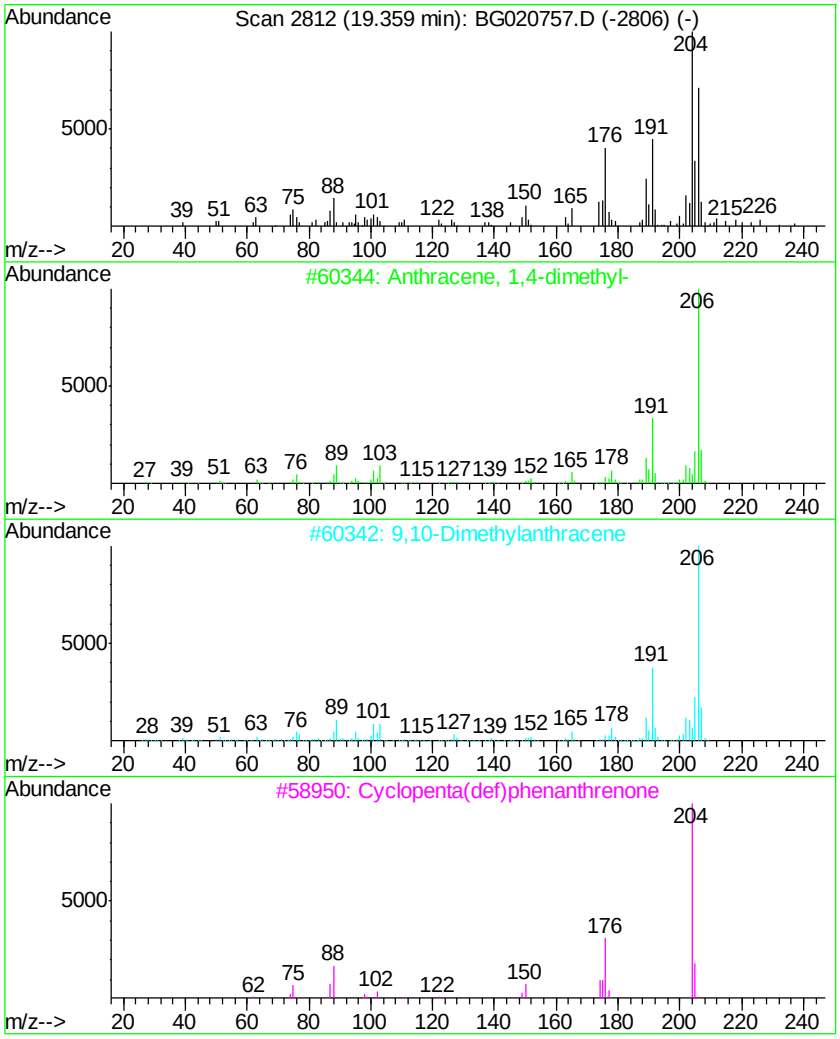
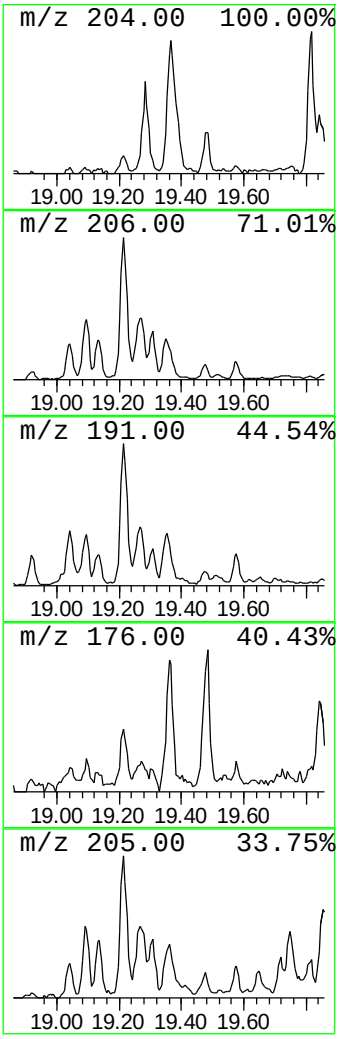
Peak Number 21 unknown-01 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.36	11.25 ng/ul	160568	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	46
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46
3	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	46
4	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	46
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46





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Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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Quant Title : SVOA CALIBRATION

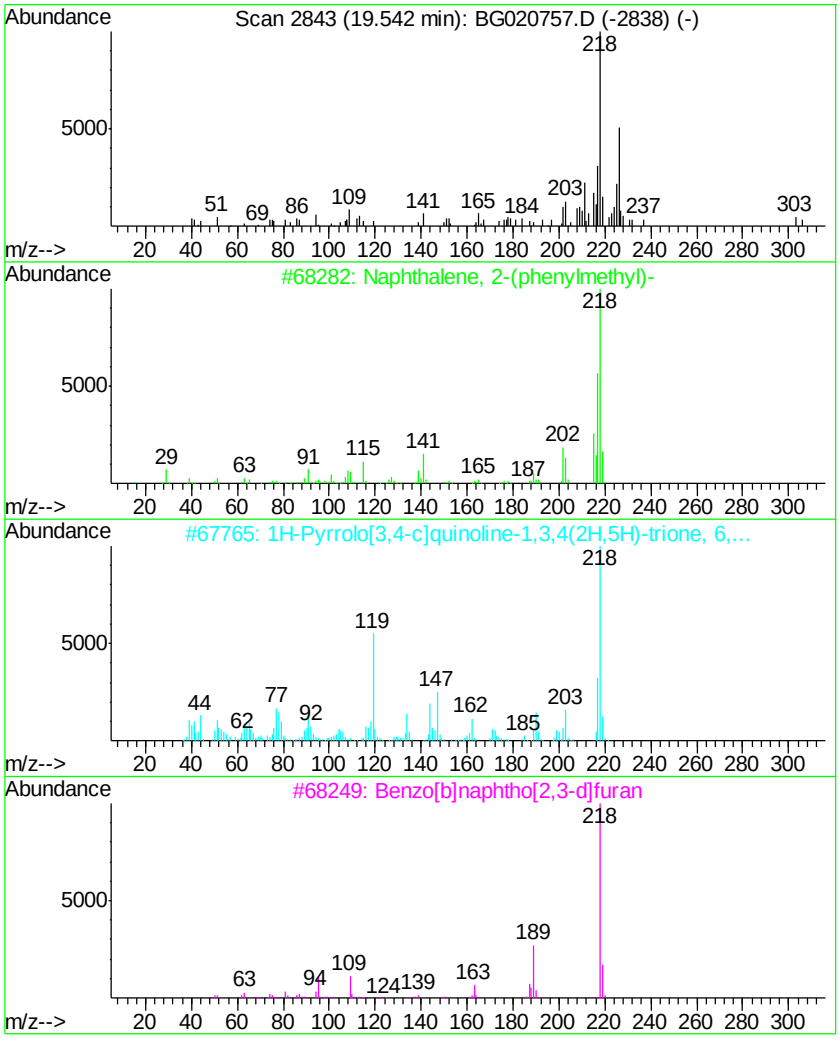
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

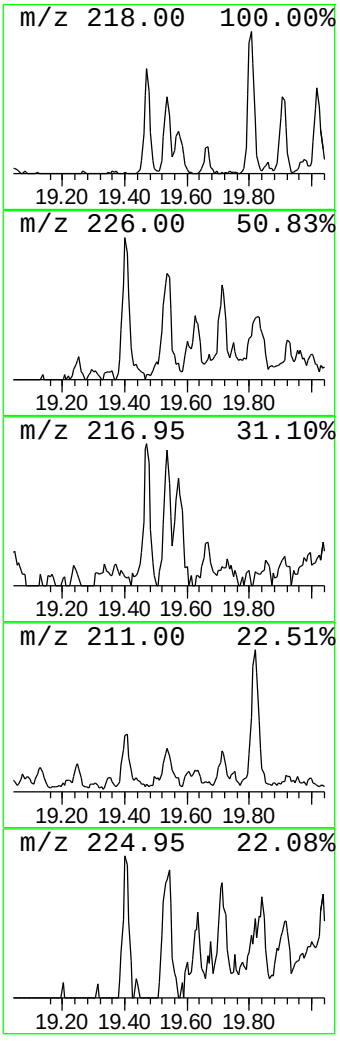
****

Peak Number 22 unknown-02 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.54	3.36 ng/ul	48004	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-(phenylmethyl)-	218	C17H14	000613-59-2	38
2	1H-Pyrrolo[3,4-c]quinoline-1,3,4...	218	C11H10N2O3	181021-85-2	38
3	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	27
4	3-Methoxy-6,7,8,9-tetrahydro-dib...	218	C13H14O3	1000186-57-9	27
5	5-Adamantan-1-yl-2H-pyrazol-3-ol	218	C13H18N2O	1000274-32-3	27





Library Search Compound Report

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Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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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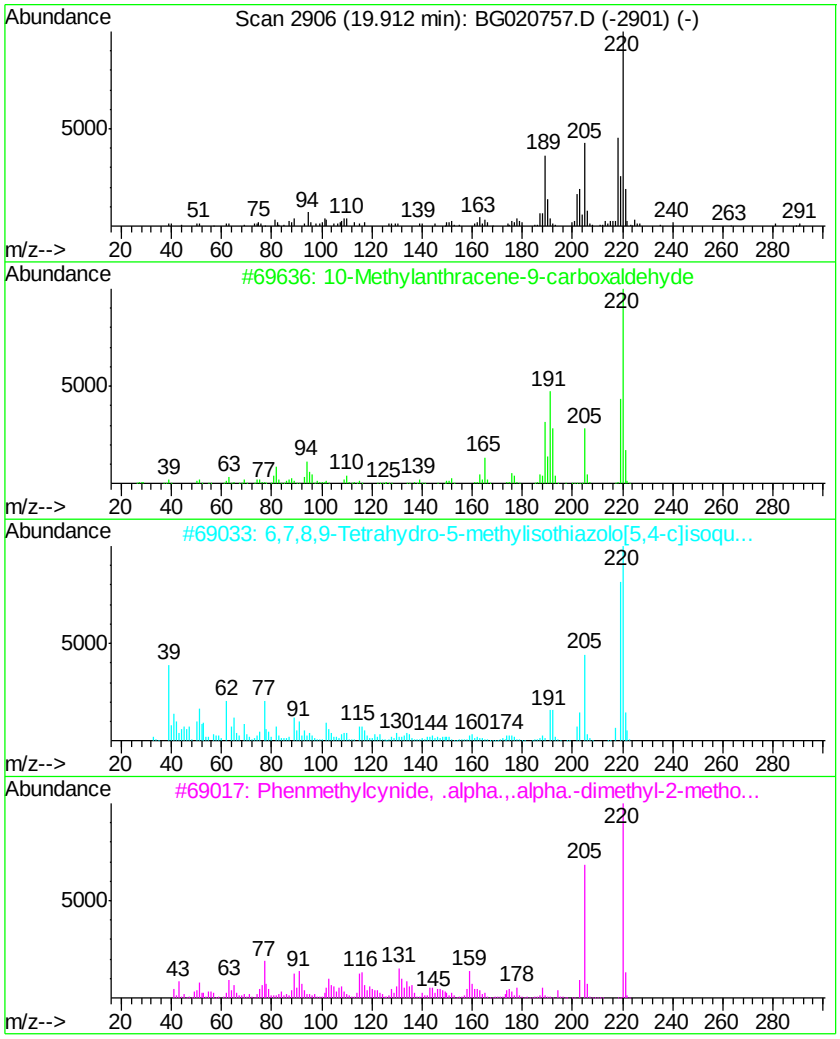
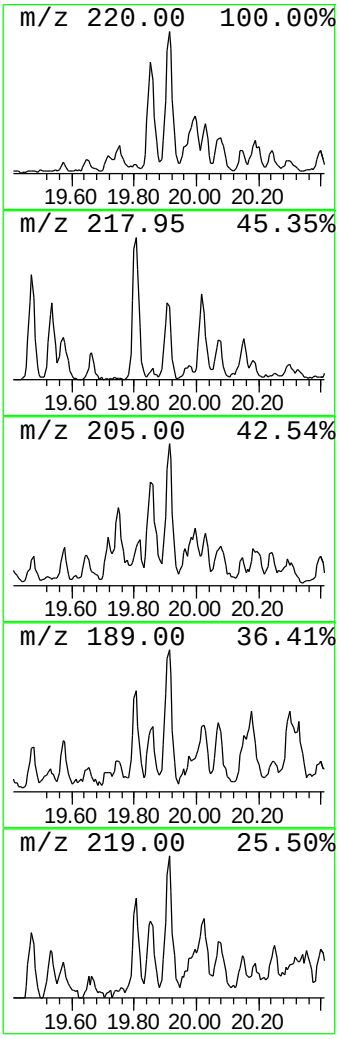
Peak Number 23 unknown-03 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.91	2.89 ng/ul	118932	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Methylanthracene-9-carboxalde...	220	C16H12O	007072-00-6	49
2	6,7,8,9-Tetrahydro-5-methylisoth...	220	C11H12N2OS	339156-87-5	47
3	Phenmethylcynide, .alpha.,.alpha...	220	C11H12N2O3	1000128-94-6	43
4	5-Acetyl-2-ethylsulfanyl-6-methy...	220	C11H12N2OS	303146-26-1	40
5	Pyrrolo[1,2-a]thieno[2,3-d]pyrim...	220	C11H12N2OS	056929-61-4	38





Library Search Compound Report

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Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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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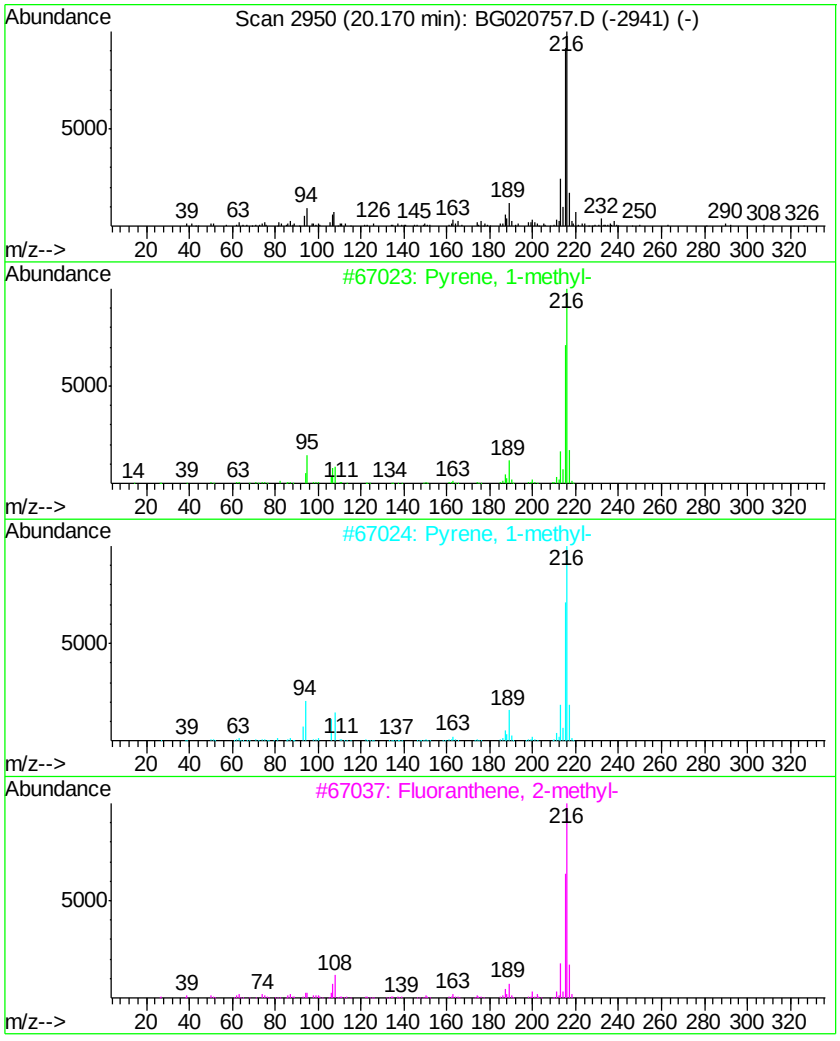
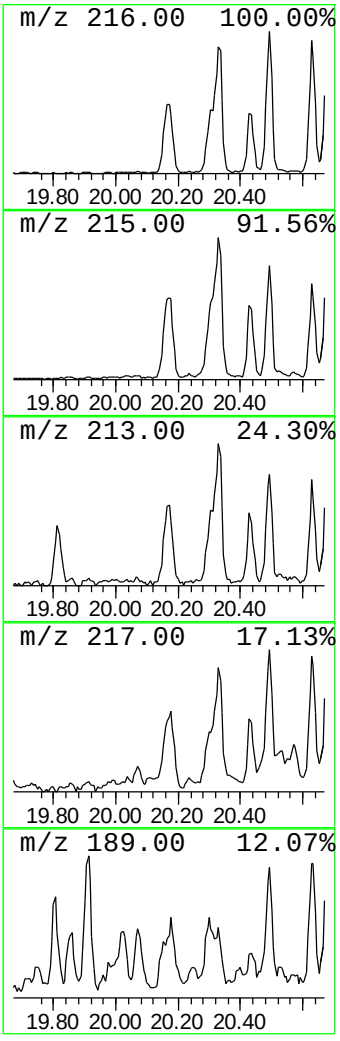
Peak Number 24 Pyrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.17	5.62 ng/ul	231449	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91





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Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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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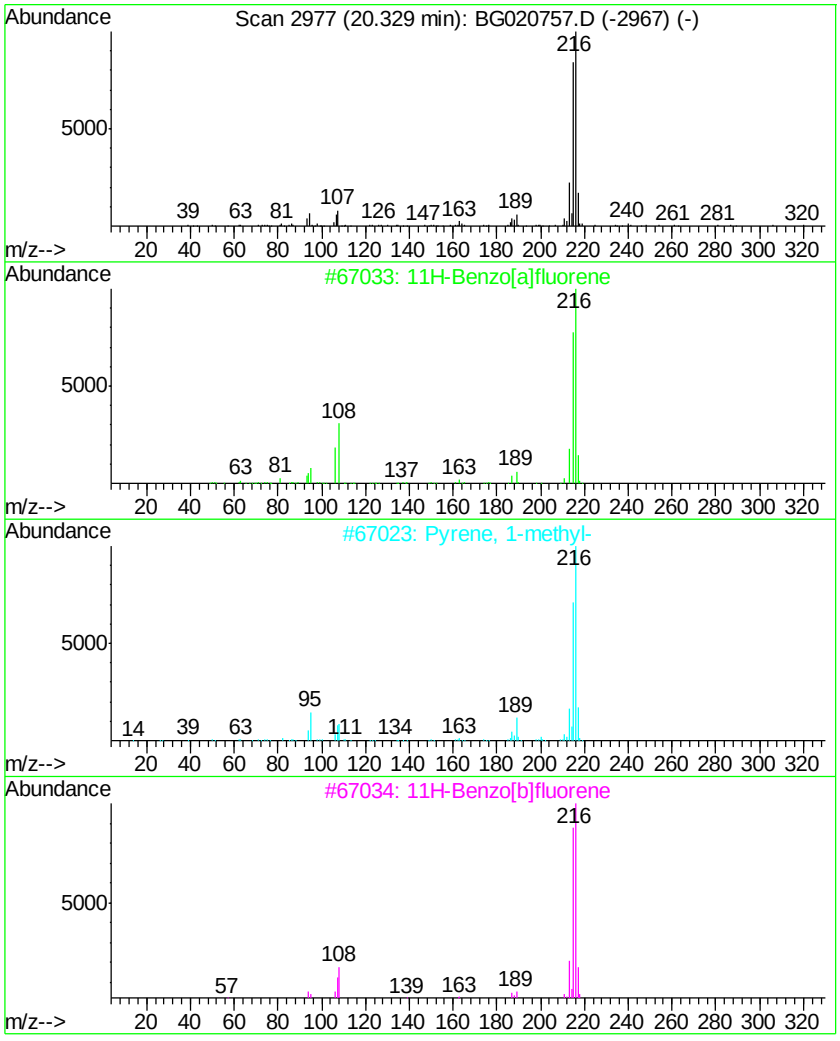
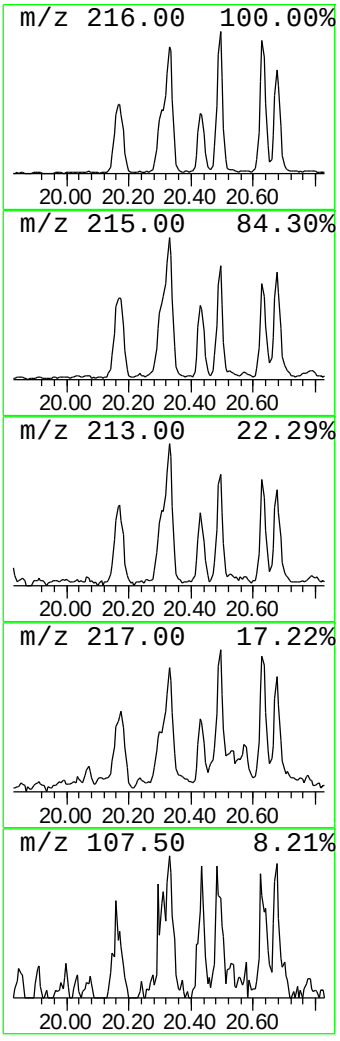
Peak Number 25 11H-Benzo[a]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.33	6.75 ng/ul	278295	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





Library Search Compound Report

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Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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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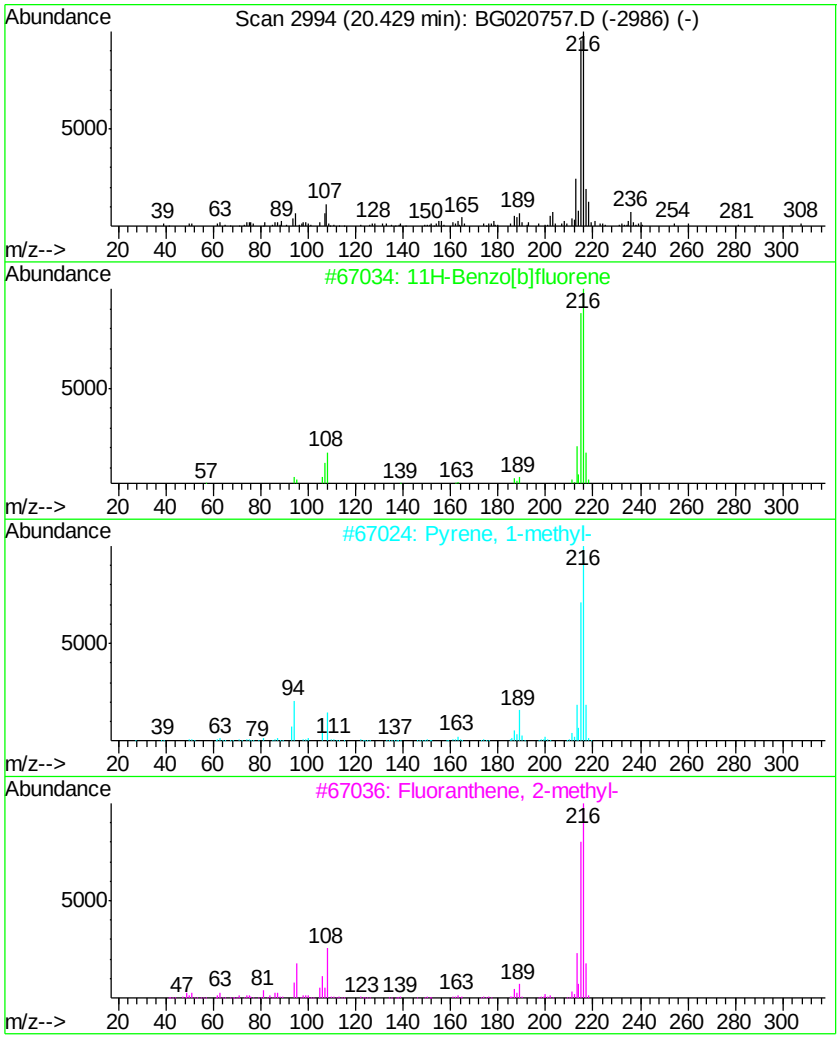
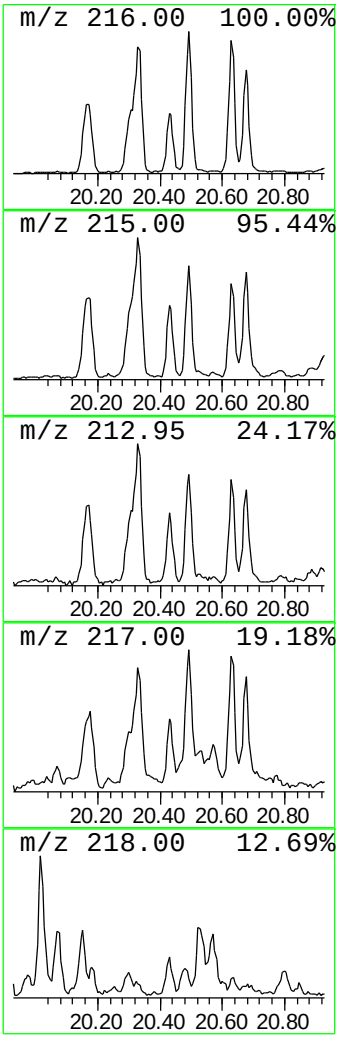
Peak Number 26 11H-Benzo[b]fluorene Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.43	3.02 ng/ul	124540	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	81
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	80





Library Search Compound Report

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Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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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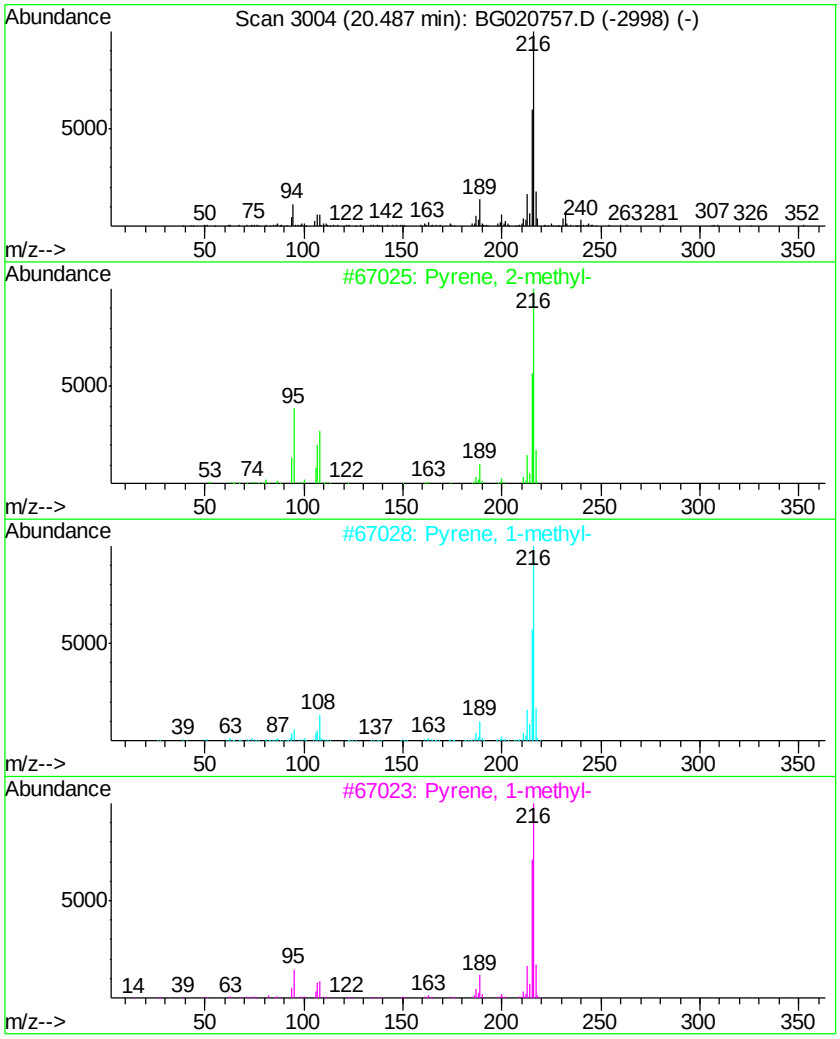
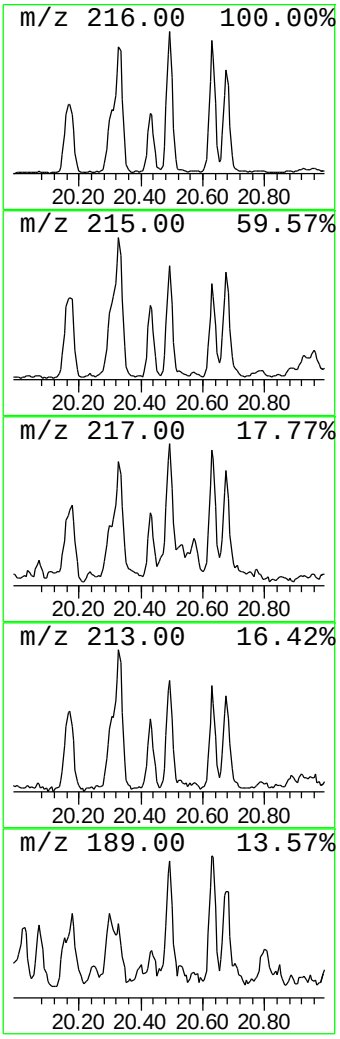
Peak Number 27 Pyrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.49	4.67 ng/ul	192322	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91





Library Search Compound Report

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Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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 30 7H-Benz[de]anthracen-7-one Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.10	3.24 ng/ul	133478	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	87
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74
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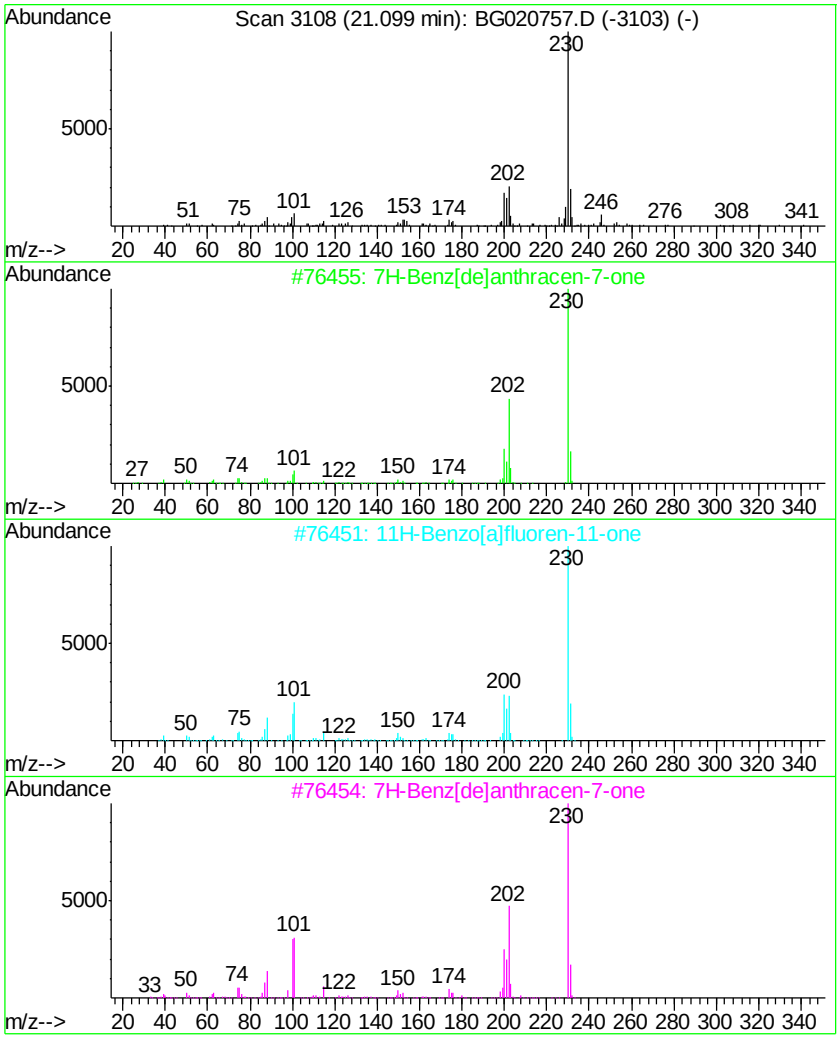

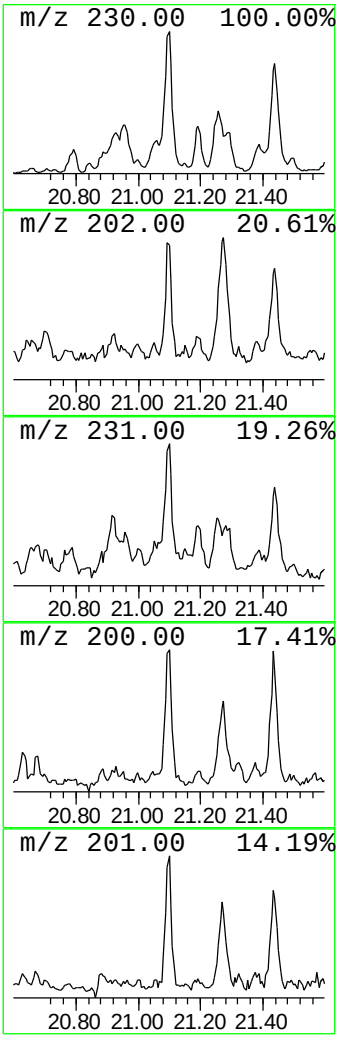

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Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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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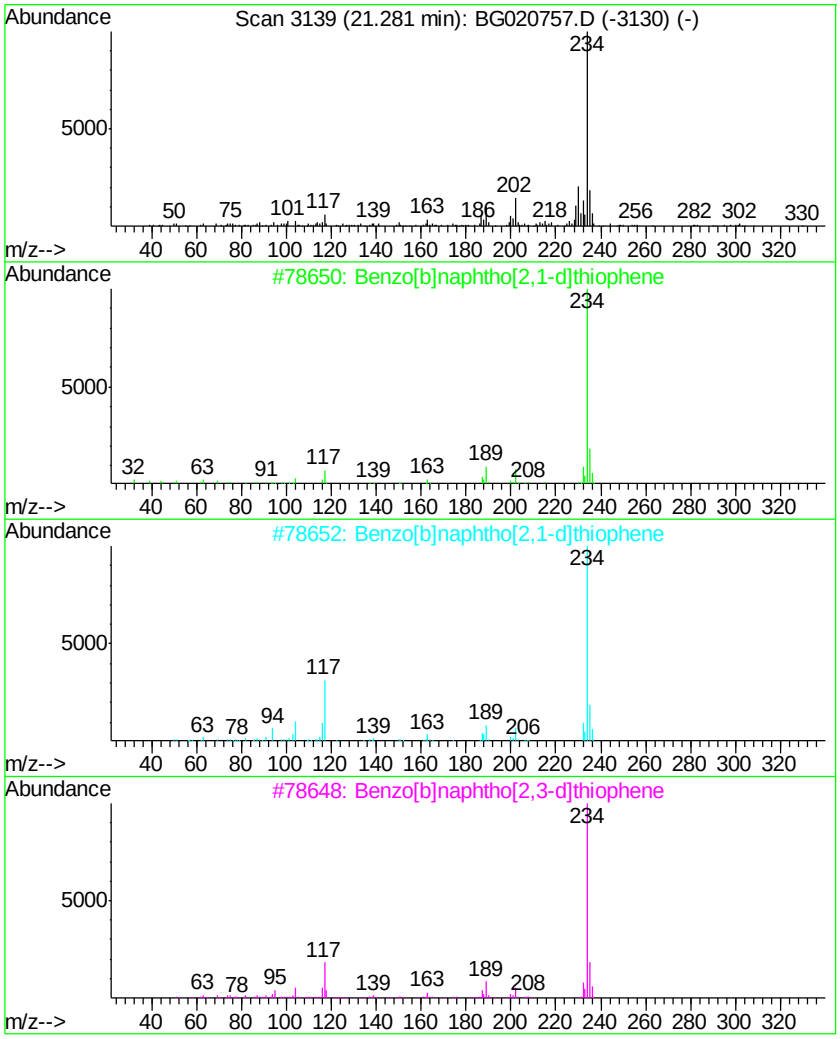
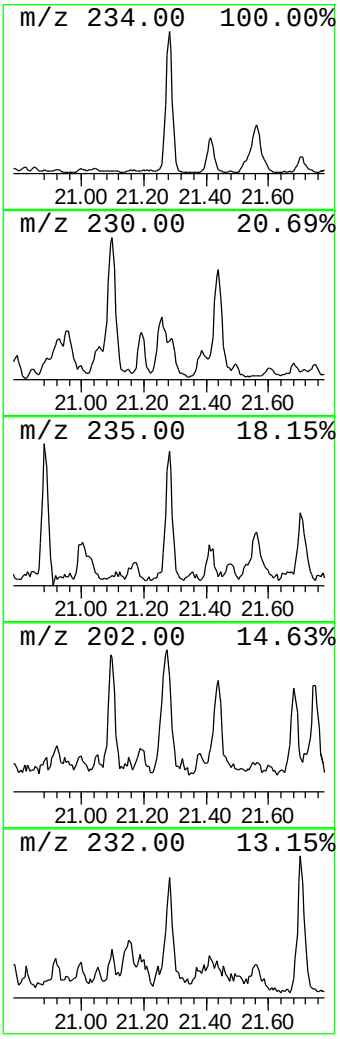
Peak Number 31 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.28	4.91 ng/ul	202473	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	90
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	76
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	76
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	76
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	76





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Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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Quant Title : SVOA CALIBRATION

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

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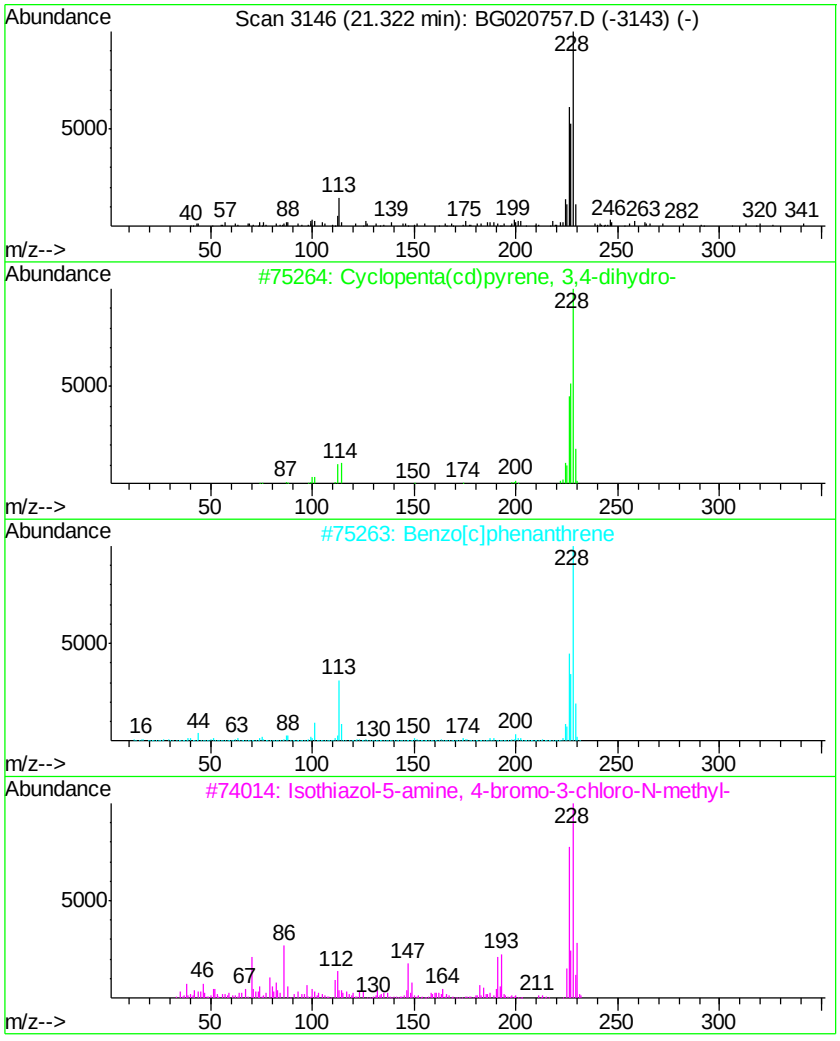
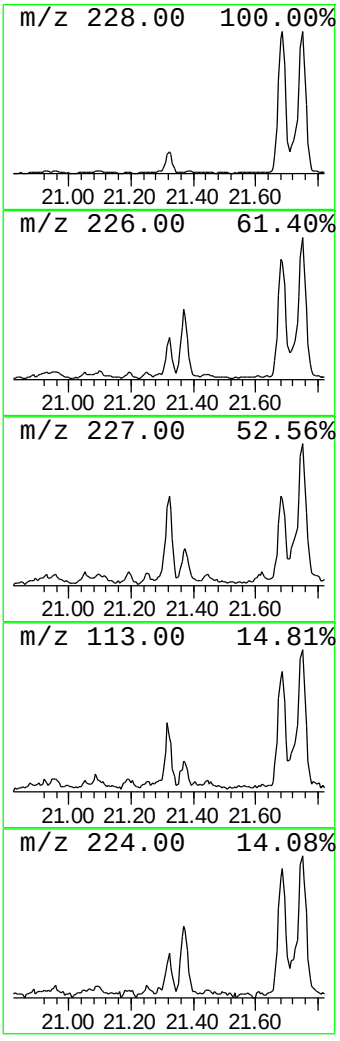
Peak Number 32 unknown-04 Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.32	2.04 ng/ul	83967	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	49
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	43
3	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	42
4	Naphthacene	228	C18H12	000092-24-0	38
5	Chrysene	228	C18H12	000218-01-9	38





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Sample : H1101-17 5X
Misc :
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Instrument : BNA_G
ClientSampleId : BC9F8

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Quant Title : SVOA CALIBRATION

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

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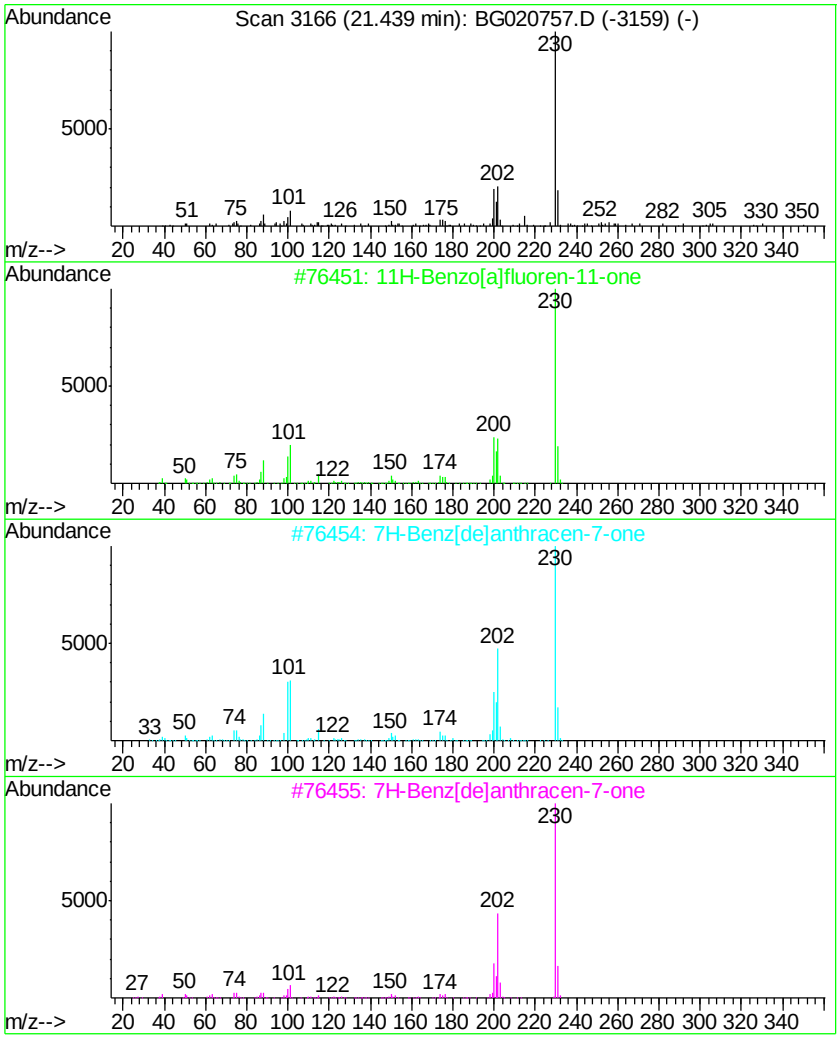
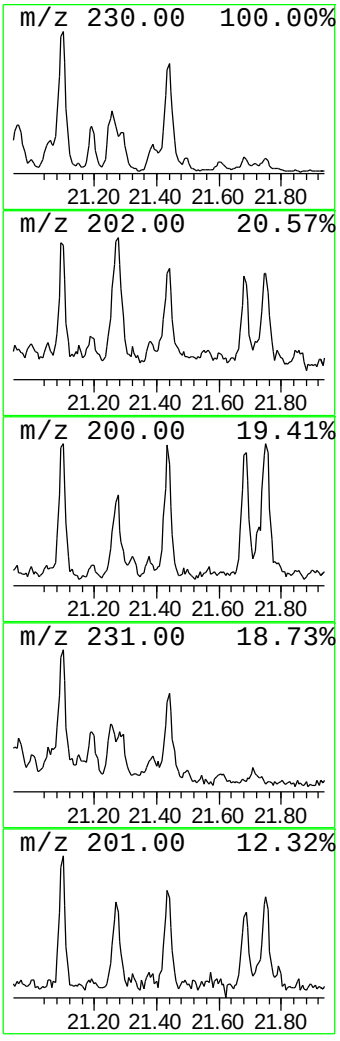
Peak Number 33 11H-Benzo[a]fluoren-11-one Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.44	2.67 ng/ul	110052	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	93
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	72
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	62
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	59





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Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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Quant Title : SVOA CALIBRATION

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

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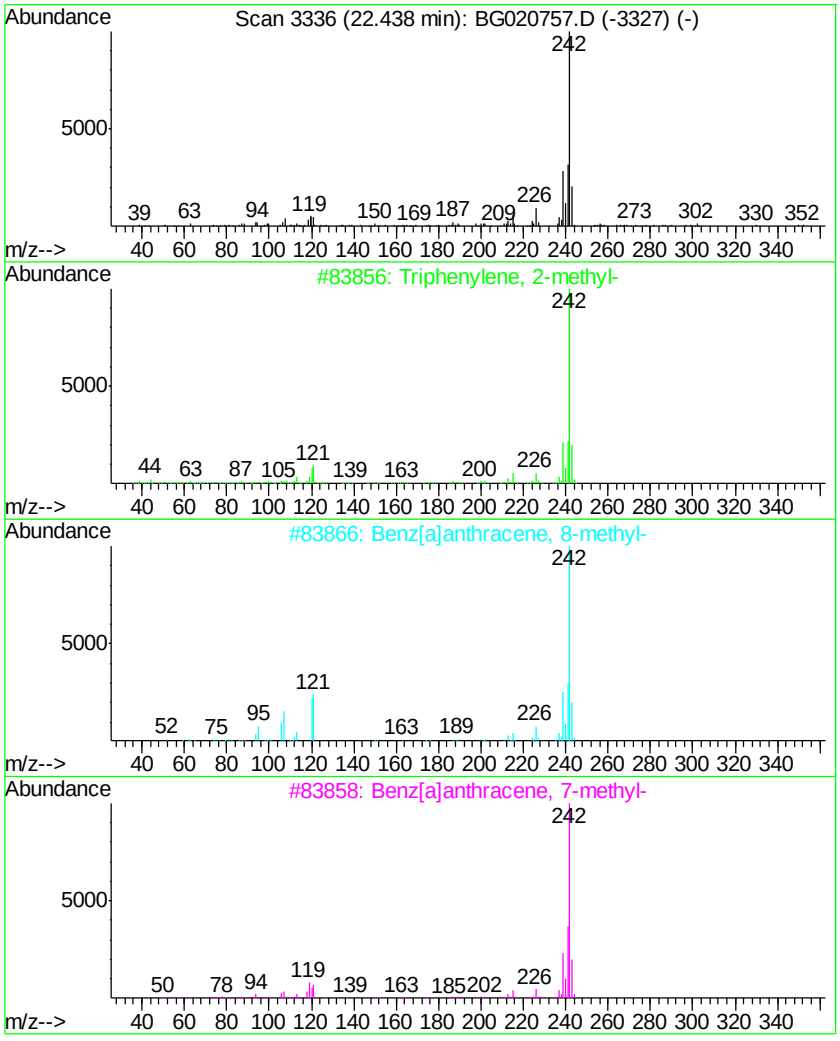
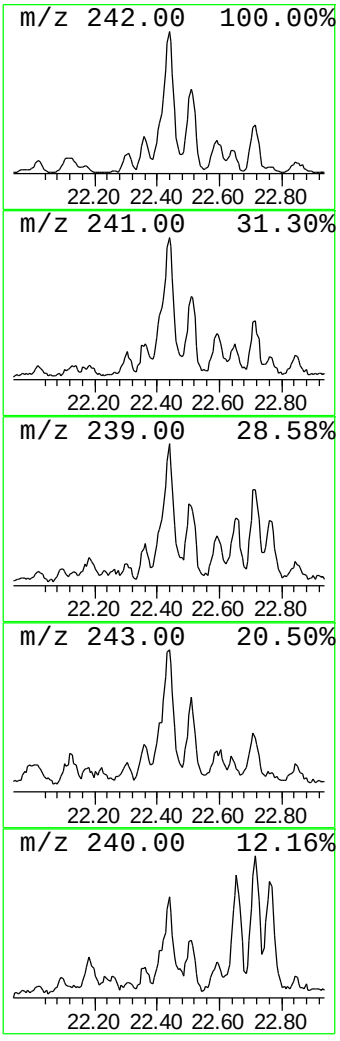
Peak Number 34 Triphenylene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.44	5.18 ng/ul	213450	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	91
2	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	90
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
4	Chrysene, 3-methyl-	242	C19H14	003351-31-3	90
5	Chrysene, 2-methyl-	242	C19H14	003351-32-4	90





Data Path : V:\HPCHEM1\BNA G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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

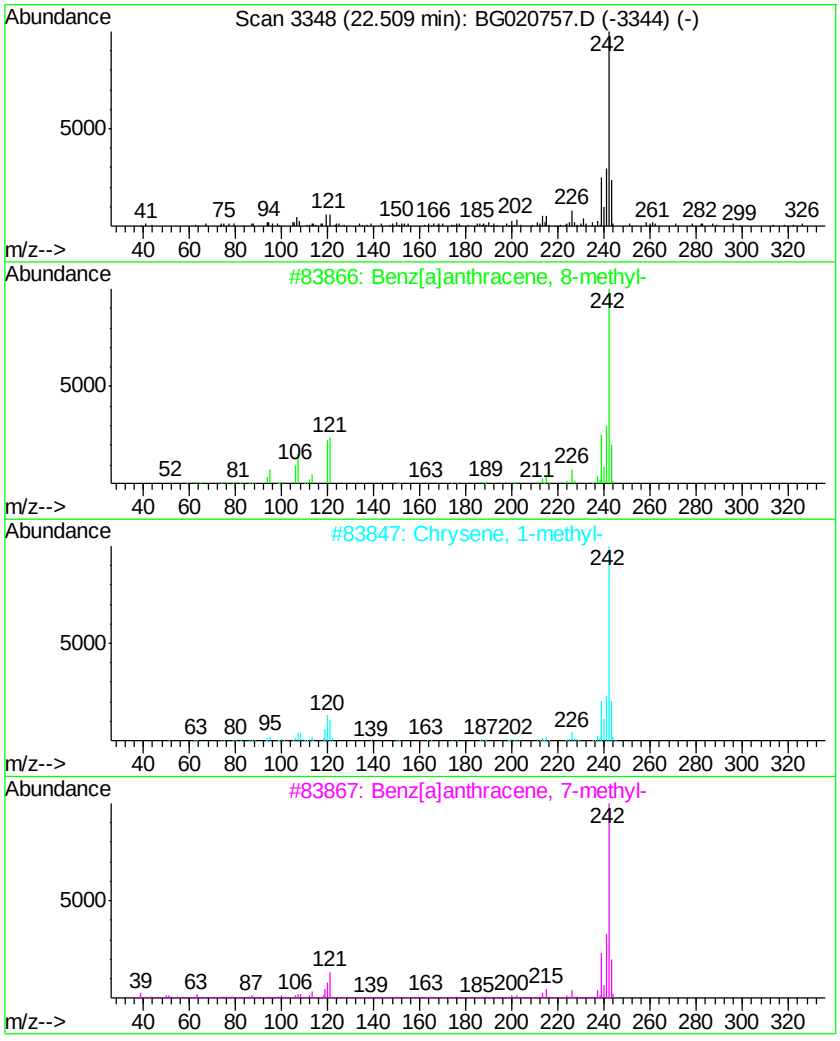
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

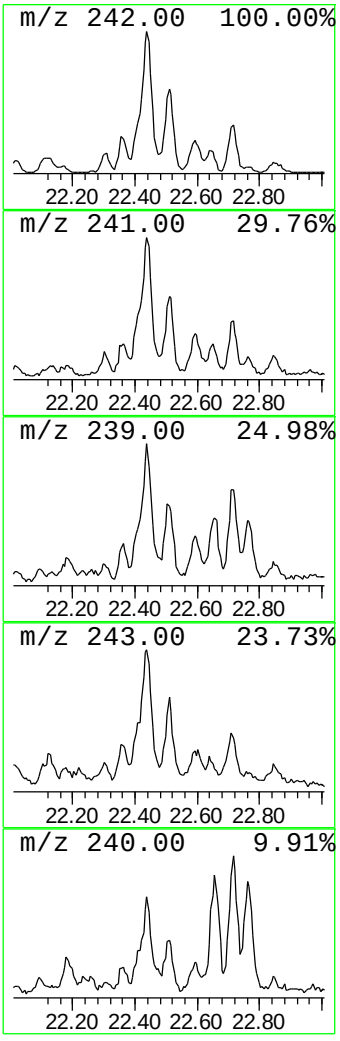
****

Peak Number 35 Benz[a]anthracene, 8-methyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.51	2.45 ng/ul	101011	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	81
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	74
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	74
4	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	74
5	Chrysene, 6-methyl-	242	C19H14	001705-85-7	74





Tentatively Identified Compound (LSC) summary

Data Path : V:\HPCHEM1\BNA_G\Data\BG011516\
Data File : BG020757.D
Acq On : 15 Jan 2016 18:00
Operator : SJ/IZ
Sample : H1101-17 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F8

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
Butane, 2-methoxy...	3.13	8.8	ng/ul	40507	1	8.04	92500	20.0
9H-Fluorene, 2-me...	16.73	2.7	ng/ul	39136	4	17.43	285355	20.0
Dibenzothiophene	17.25	2.1	ng/ul	30041	4	17.43	285355	20.0
Dibenzothiophene,...	18.01	4.1	ng/ul	58262	4	17.43	285355	20.0
Phenanthrene, 1-m...	18.30	11.9	ng/ul	169544	4	17.43	285355	20.0
Phenanthrene, 2-m...	18.43	3.9	ng/ul	55960	4	17.43	285355	20.0
Anthracene, 1-met...	18.49	16.6	ng/ul	237319	4	17.43	285355	20.0
2,8-Dimethyldiben...	18.70	2.0	ng/ul	28804	4	17.43	285355	20.0
2-Phenylnaphthalene	18.80	6.8	ng/ul	97229	4	17.43	285355	20.0
9,10-Anthracenedione	18.85	8.5	ng/ul	121118	4	17.43	285355	20.0
Phenanthrene, 2,7...	19.10	4.3	ng/ul	60974	4	17.43	285355	20.0
di-p-Tolylacetylene	19.13	3.9	ng/ul	55448	4	17.43	285355	20.0
Phenanthrene, 2,5...	19.21	17.4	ng/ul	247907	4	17.43	285355	20.0
Phenanthrene, 3,6...	19.27	6.3	ng/ul	89382	4	17.43	285355	20.0
9,10-Dimethylanth...	19.31	2.9	ng/ul	40776	4	17.43	285355	20.0
unknown-01	19.36	11.3	ng/ul	160568	4	17.43	285355	20.0
unknown-02	19.54	3.4	ng/ul	48004	4	17.43	285355	20.0
unknown-03	19.91	2.9	ng/ul	118932	5	21.70	824005	20.0
Pyrene, 1-methyl-	20.17	5.6	ng/ul	231449	5	21.70	824005	20.0
11H-Benzo[a]fluorene	20.33	6.8	ng/ul	278295	5	21.70	824005	20.0
11H-Benzo[b]fluorene	20.43	3.0	ng/ul	124540	5	21.70	824005	20.0
Pyrene, 2-methyl-	20.49	4.7	ng/ul	192322	5	21.70	824005	20.0
7H-Benz[de]anthra...	21.10	3.2	ng/ul	133478	5	21.70	824005	20.0
Benzo[b]naphtho[2...	21.28	4.9	ng/ul	202473	5	21.70	824005	20.0
unknown-04	21.32	2.0	ng/ul	83967	5	21.70	824005	20.0
11H-Benzo[a]fluor...	21.44	2.7	ng/ul	110052	5	21.70	824005	20.0
Triphenylene, 2-m...	22.44	5.2	ng/ul	213450	5	21.70	824005	20.0
Benz[a]anthracene...	22.51	2.5	ng/ul	101011	5	21.70	824005	20.0