LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

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_M\METHODS\SOM02.2-EPA-BM012016.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	6.840	631	638	648	rBB	76690	122977	4.26%	0.397%
2	6.993	659	664	671	rBB	62147	92531	3.21%	0.298%
3	7.193	692	698	705	rBB	85174	130399	4.52%	0.421%
4	7.658	771	777	785	rBB	111019	167733	5.81%	0.541%
5	8.369	893	898	907	rBB	87940	141087	4.89%	0.455%
6	8.816	968	974	982	rBB	79691	125133	4.33%	0.404%
7	9.534	1091	1096	1103	rBB	66801	103984	3.60%	0.335%
8	10.075	1182	1188	1197	rBB	111649	180578	6.26%	0.582%
9	10.446	1244	1251	1257	rBV	174953	285453	9.89%	0.921%
10	10.587	1270	1275	1292	rBB	64858	113315	3.93%	0.365%
11	13.728	1804	1809	1813	rVV	222818	298971	10.36%	0.964%
12	13.775	1813	1817	1822	rVB	98083	126756	4.39%	0.409%
13	14.004	1850	1856	1866	rBB	253143	377431	13.07%	1.217%
14	14.316	1902	1909	1915	rBV2	271399	410883	14.23%	1.325%
15	14.381	1915	1920	1925	rVB	72408	100393	3.48%	0.324%
16	14.539	1942	1947	1959	rBV	60839	98517	3.41%	0.318%
17	14.716	1973	1977	1985	rVB	25891	35008	1.21%	0.113%
18	15.316	2073	2079	2084	rBV	342690	483979	16.77%	1.561%
19	15.369	2084	2088	2094	rVB	62183	83251	2.88%	0.268%
20	15.451	2098	2102	2107	rBV	57597	76713	2.66%	0.247%
21	16.028	2196	2200	2209	rBV3	26573	52086	1.80%	0.168%
22	16.728	2313	2319	2324	rVB2	20041	30418	1.05%	0.098%
23	16.828	2329	2336	2341	rVV3	35813	55636	1.93%	0.179%
24	16.886	2341	2346	2351	rVB	32185	41903	1.45%	0.135%
25	17.069	2371	2377	2380	rBV	360542	506065	17.53%	1.632%
26	17.110	2380	2384	2389	rVV	747495	1081414	37.46%	3.488%
27	17.169	2389	2394	2397	rVV	399446	548226	18.99%	1.768%
28	17.204	2397	2400	2406	rVV	173922	224651	7.78%	0.725%
29	17.475	2435	2446	2456	rBV2	88759	141159	4.89%	0.455%
30	17.945	2518	2526	2531	rBV	76380	137126	4.75%	0.442%
31	17.992	2531	2534	2540	rVB	116136	149832	5.19%	0.483%
32	18.075	2542	2548	2553	rVB	34596	47585	1.65%	0.153%
33	18.145	2553	2560	2563	rBV3	159265	267809	9.28%	0.864%
34	18.175	2563	2565	2572	rVB	48788	64889	2.25%	0.209%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

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_M\METHODS\SOM02.2-EPA-BM012016.M
Title : SVOA CALIBRATION

35	18.451	2606	2612	2616	rBV	70405	91410	3.17%	0.295%
36	18.498	2616	2620	2625	rVB	69013	89269	3.09%	0.288%
37	18.698	2648	2654	2658	rBV2	22115	30561	1.06%	0.099%
38	18.874	2678	2684	2690	rVV2	35229	78772	2.73%	0.254%
39	18.939	2690	2695	2698	rVV2	27373	51740	1.79%	0.167%
40	19.016	2703	2708	2716	rVV3	45431	84346	2.92%	0.272%
41	19.145	2722	2730	2735	rVV	1681330	2317357	80.28%	7.473%
42	19.204	2736	2740	2743	rVV	17164	22214	0.77%	0.072%
43	19.239	2743	2746	2752	rVV	38192	51202	1.77%	0.165%
44	19.386	2764	2771	2774	rVB2	39673	58350	2.02%	0.188%
45	19.480	2780	2787	2789	rBV3	755061	1198039	41.50%	3.864%
46	19.510	2789	2792	2800	rVV	1449552	1877145	65.03%	6.054%
47	19.574	2800	2803	2811	rVB2	62809	88652	3.07%	0.286%
48	19.686	2811	2822	2828	rBV	94049	146695	5.08%	0.473%
49	19.751	2828	2833	2838	rVB	84828	121720	4.22%	0.393%
50	19.827	2840	2846	2853	rBV3	86070	214209	7.42%	0.691%
51	19.892	2853	2857	2860	rVV	32365	40191	1.39%	0.130%
52	19.974	2864	2871	2872	rBV3	62343	116976	4.05%	0.377%
53	20.004	2872	2876	2881	rVB	256653	359764	12.46%	1.160%
54	20.104	2888	2893	2897	rBV	209481	270197	9.36%	0.871%
55	20.163	2897	2903	2907	rVV2	115714	206686	7.16%	0.667%
56	20.198	2907	2909	2913	rVB	71713	81027	2.81%	0.261%
57	20.245	2913	2917	2921	rVB2	31866	46107	1.60%	0.149%
58	20.304	2923	2927	2931	rBV	64935	90765	3.14%	0.293%
59	20.351	2931	2935	2939	rVV2	66061	88501	3.07%	0.285%
60	20.410	2941	2945	2949	rVB	133406	143596	4.97%	0.463%
61	20.516	2959	2963	2967	rVB	43896	57930	2.01%	0.187%
62	20.568	2967	2972	2974	rBV4	24080	38671	1.34%	0.125%
63	20.604	2975	2978	2979	rVV2	21199	22731	0.79%	0.073%
64	20.627	2979	2982	2987	rVB3	86422	117970	4.09%	0.380%
65	20.716	2993	2997	3000	rBV2	37330	57784	2.00%	0.186%
66	20.757	3000	3004	3010	rVB2	110933	164959	5.71%	0.532%
67	20.921	3025	3032	3035	rBV3	172308	258727	8.96%	0.834%
68	20.963	3035	3039	3040	rBV	138001	145922	5.06%	0.471%
69	21.057	3051	3055	3062	rVB2	125406	192612	6.67%	0.621%
70	21.192	3066	3078	3083	rBV	2286526	2886682	100.00%	9.310%
71	21.268	3083	3091	3096	rVV3	1159960	2330450	80.73%	7.516%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

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_M\METHODS\SOM02.2-EPA-BM012016.M
Title : SVOA CALIBRATION

72	21.321	3096	3100	3109	rVB	940350	1309210	45.35%	4.222%
73	21.392	3109	3112	3115	rBV4	27940	37865	1.31%	0.122%
74	21.433	3115	3119	3126	rBV	226631	363306	12.59%	1.172%
75	21.545	3135	3138	3142	rVB	67856	84478	2.93%	0.272%
76	21.598	3142	3147	3151	rVV2	119443	199386	6.91%	0.643%
77	21.639	3152	3154	3158	rVB2	29250	35777	1.24%	0.115%
78	21.774	3173	3177	3180	rBV2	31470	48516	1.68%	0.156%
79	21.827	3180	3186	3190	rVV	121119	202806	7.03%	0.654%
80	21.880	3192	3195	3201	rVB	74328	117266	4.06%	0.378%
81	21.980	3209	3212	3216	rVB2	59785	77333	2.68%	0.249%
82	22.027	3216	3220	3223	rVV	88272	155270	5.38%	0.501%
83	22.057	3223	3225	3231	rVV3	111133	161160	5.58%	0.520%
84	22.121	3232	3236	3246	rVB3	86322	154538	5.35%	0.498%
85	22.315	3264	3269	3272	rBV4	53760	99427	3.44%	0.321%
86	22.598	3313	3317	3324	rVB2	50976	94367	3.27%	0.304%
87	22.851	3353	3360	3365	rBV	659558	1569061	54.36%	5.060%
88	23.015	3383	3388	3394	rBV	127215	206477	7.15%	0.666%
89	23.151	3407	3411	3418	rBV3	38360	87119	3.02%	0.281%
90	23.327	3435	3441	3445	rBV	358264	671319	23.26%	2.165%
91	23.374	3445	3449	3453	rVV	295294	556716	19.29%	1.795%
92	23.427	3453	3458	3463	rVB	559840	989220	34.27%	3.190%
93	23.515	3468	3473	3478	rVV	281988	568123	19.68%	1.832%
94	23.568	3478	3482	3489	rVB	191138	361841	12.53%	1.167%
95	24.386	3617	3621	3633	rVB3	50485	120101	4.16%	0.387%
96	25.086	3735	3740	3746	rBV5	26266	63662	2.21%	0.205%
97	25.774	3847	3857	3867	rVB	264356	750280	25.99%	2.420%
98	26.021	3893	3899	3907	rBV	40232	104319	3.61%	0.336%
99	26.462	3964	3974	3993	rVB	150173	511653	17.72%	1.650%
100	26.827	4029	4036	4052	rVB2	42233	163272	5.66%	0.527%

Sum of corrected areas: 31007688

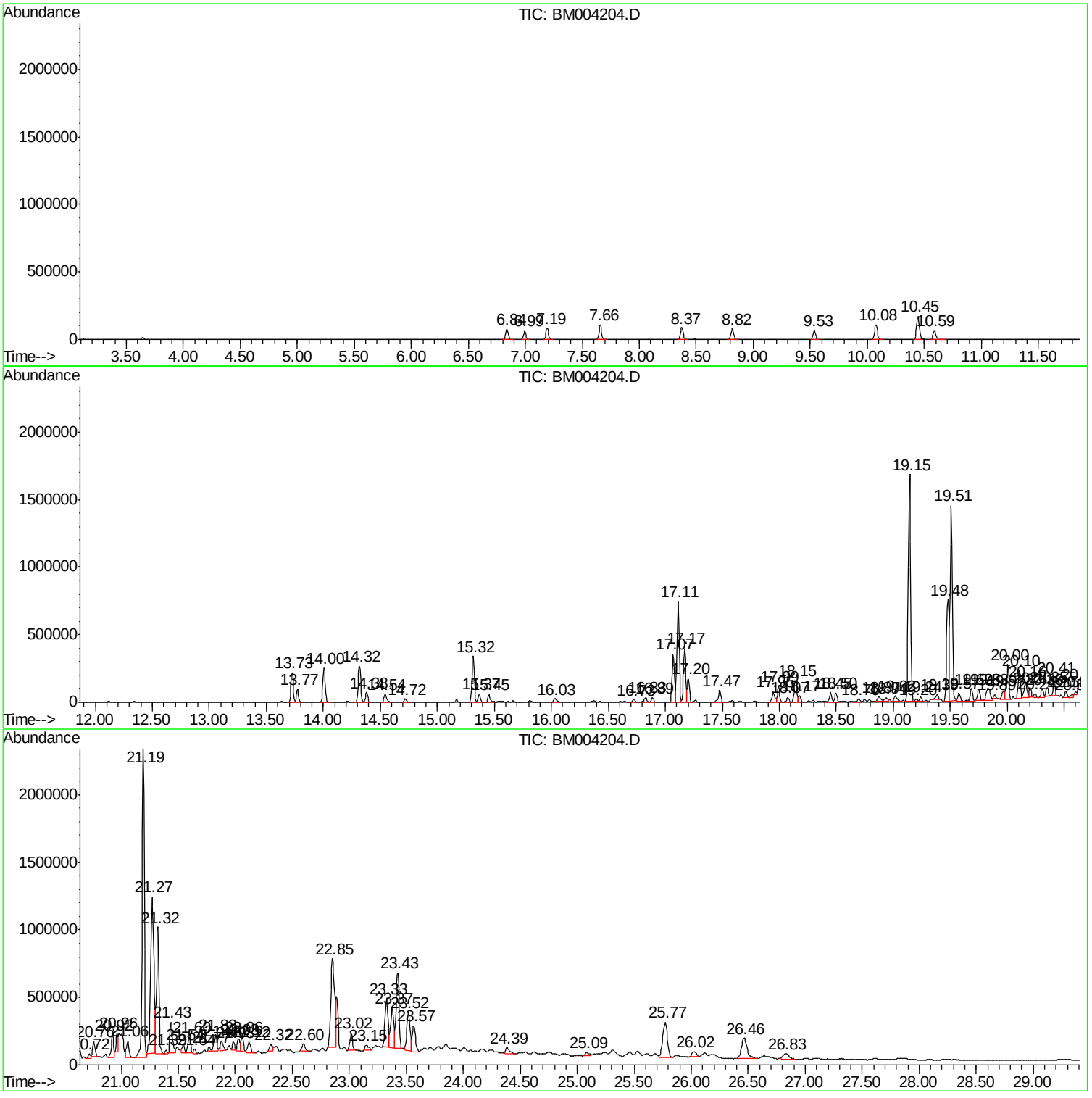
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

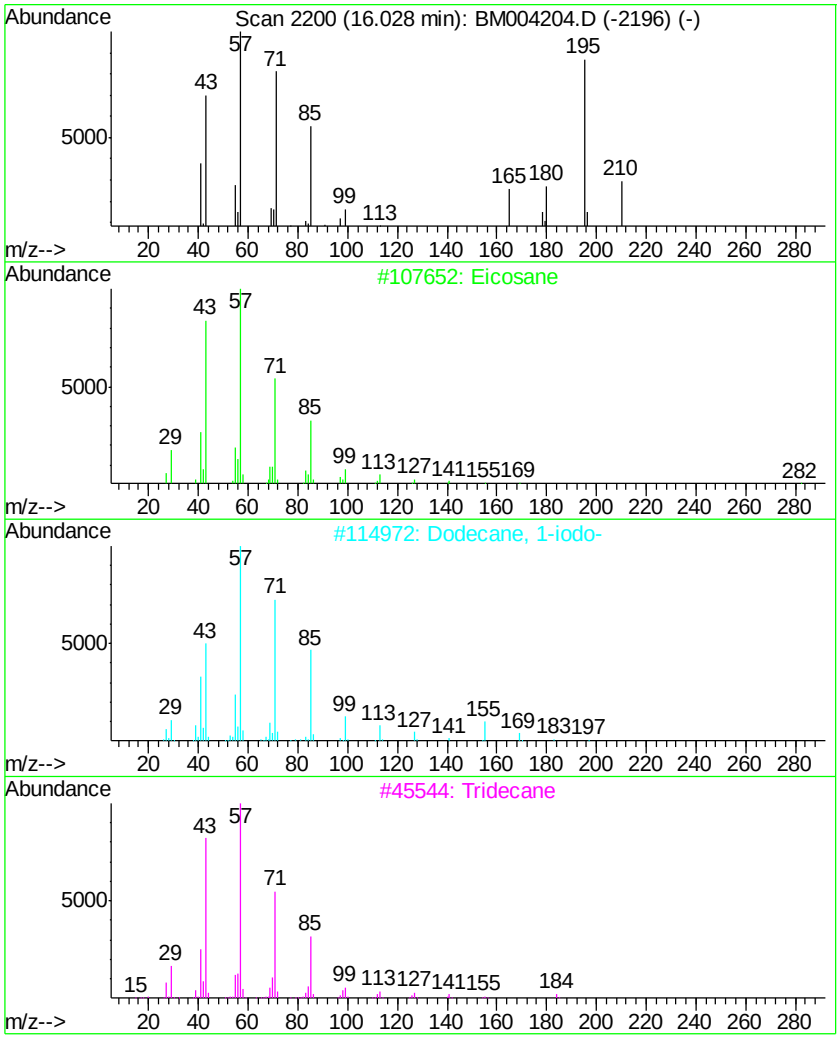
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

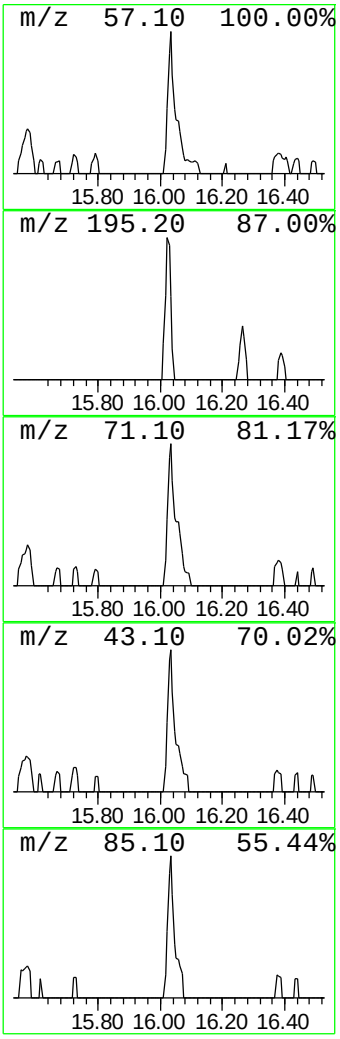
****

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.03	2.06 ng/ul	52086	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	27
2	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	27
3	Tridecane	184	C13H28	000629-50-5	27
4	Eicosane, 10-methyl-	296	C21H44	054833-23-7	27
5	Tetracosane	338	C24H50	000646-31-1	27





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

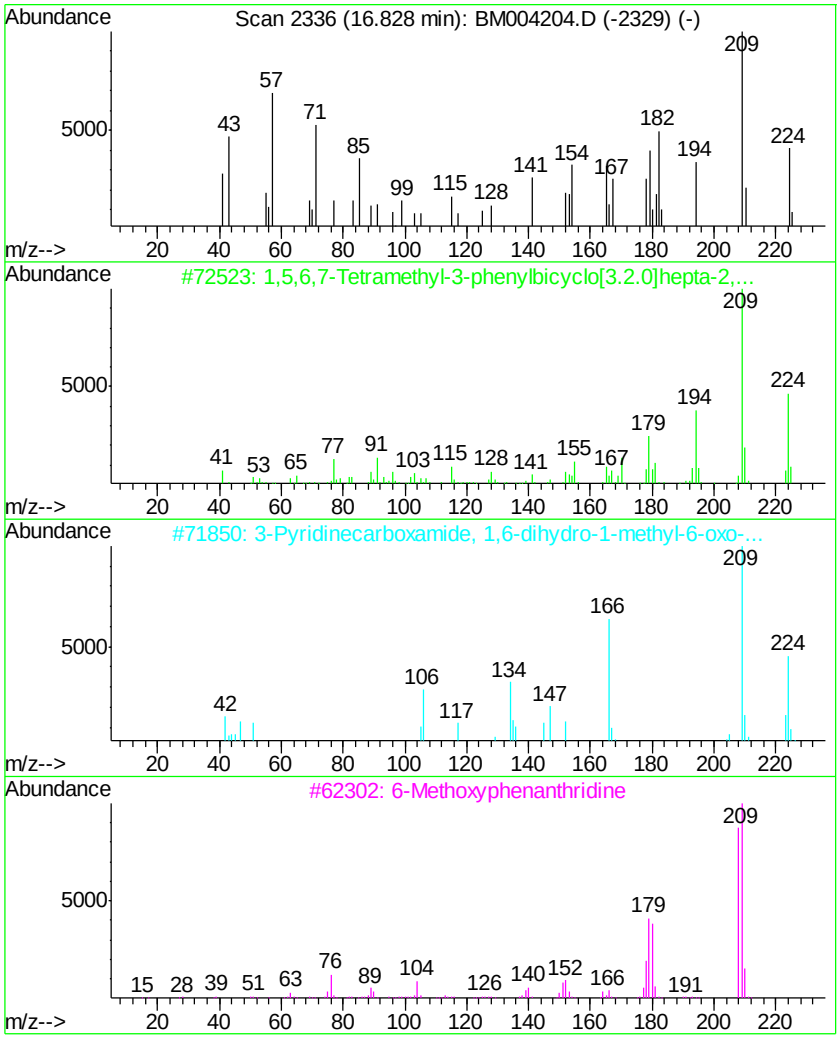
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

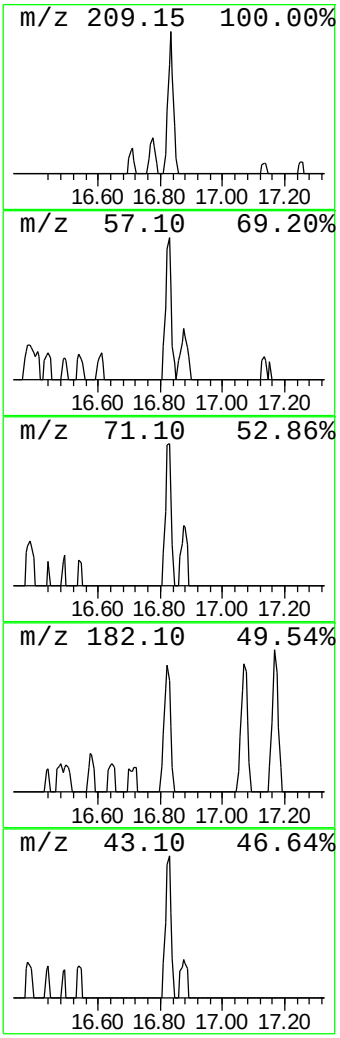
****

Peak Number 2 unknown-01 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.83	2.20 ng/ul	55636	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5,6,7-Tetramethyl-3-phenylbicy...	224	C17H20	126584-00-7	49
2	3-Pyridinecarboxamide, 1,6-dihyd...	224	C10H16N2O2Si	072403-08-8	35
3	6-Methoxyphenanthridine	209	C14H11NO	107624-46-4	32
4	1-Methyl-4-(indol-3-enilyden)-1,...	209	C13H11N3	077219-01-3	30
5	Indeno[2,1-c]pyridine, 1,4,6-tri...	209	C15H15N	062736-77-0	27





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

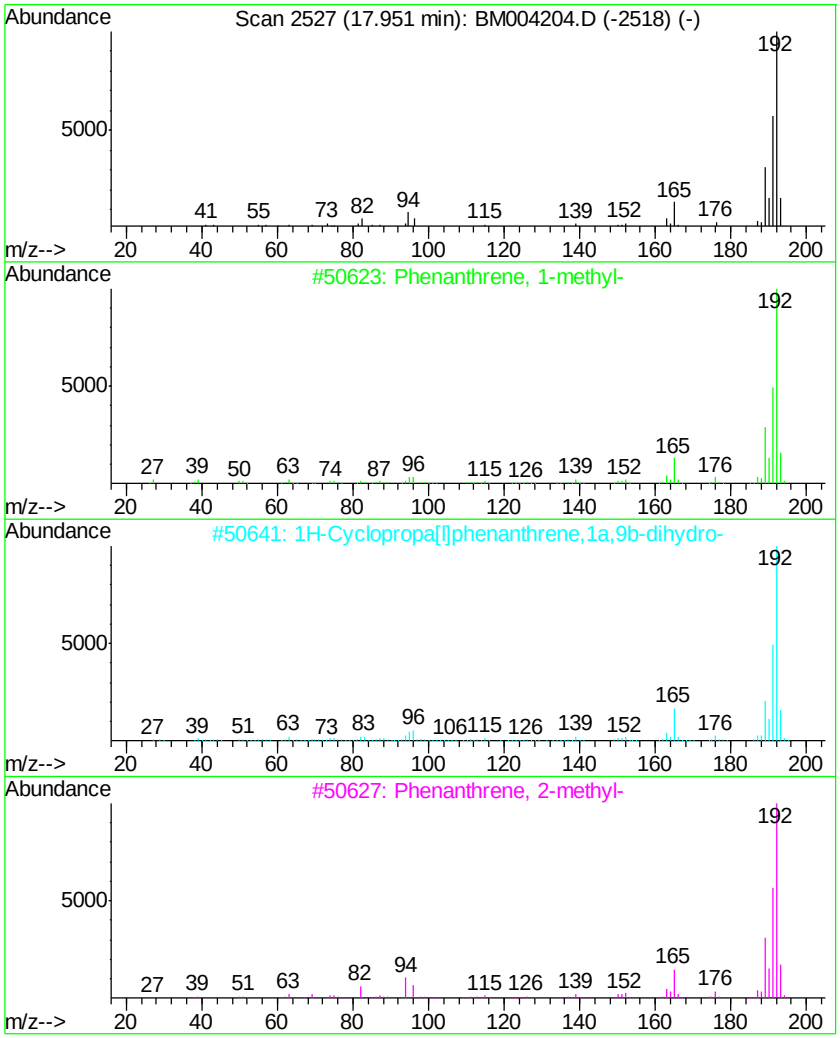
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

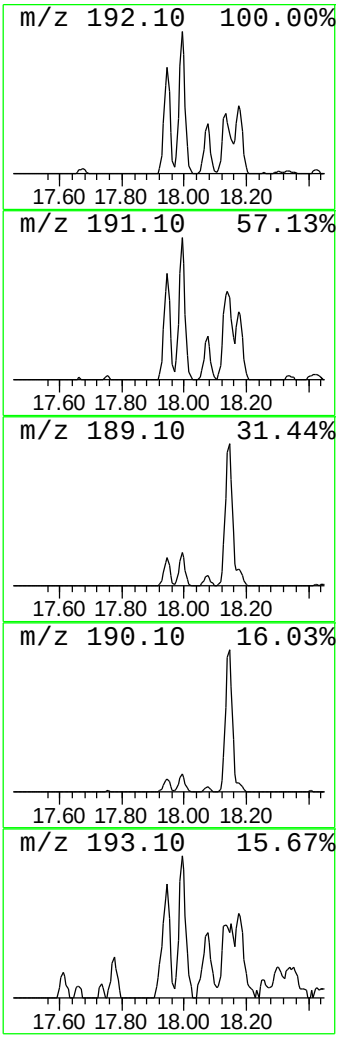
****

Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.95	5.42 ng/ul	137126	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

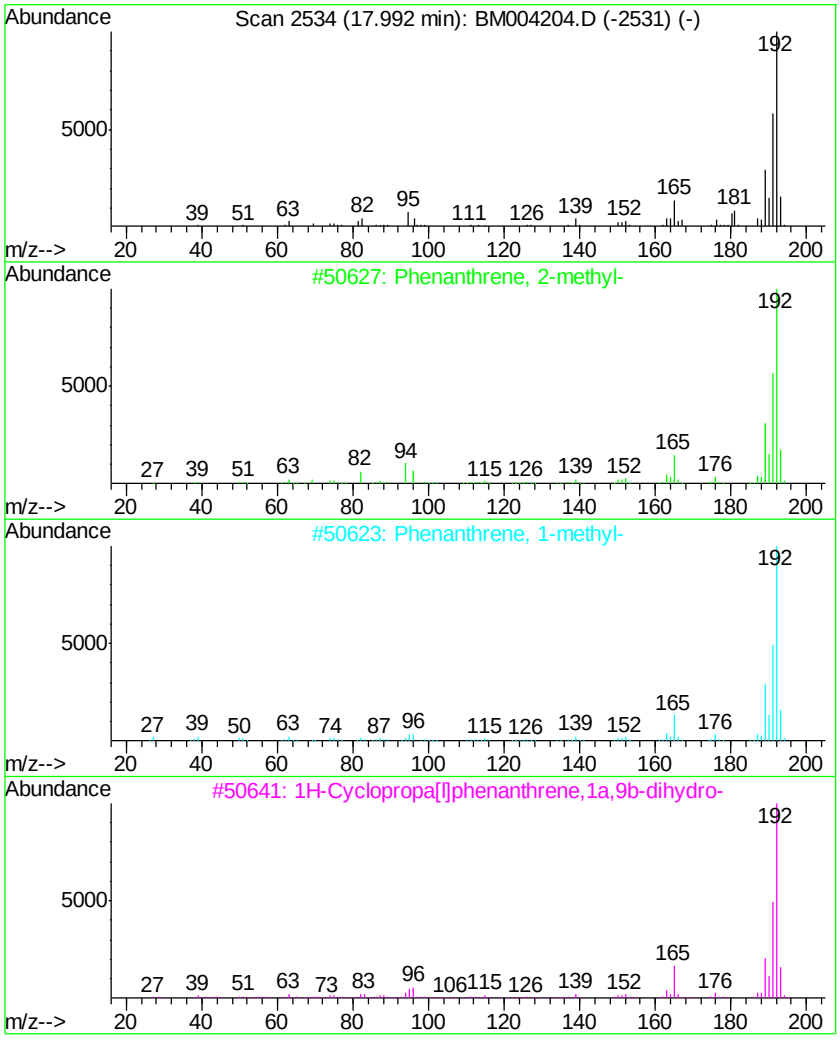
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

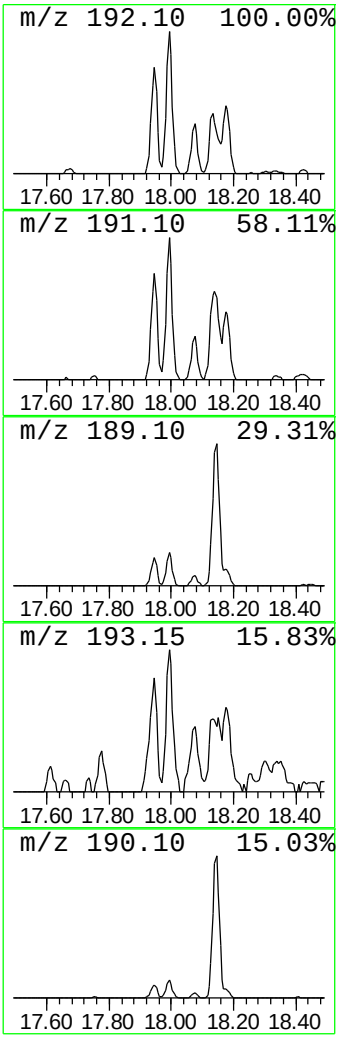
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.99	5.92 ng/ul	149832	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

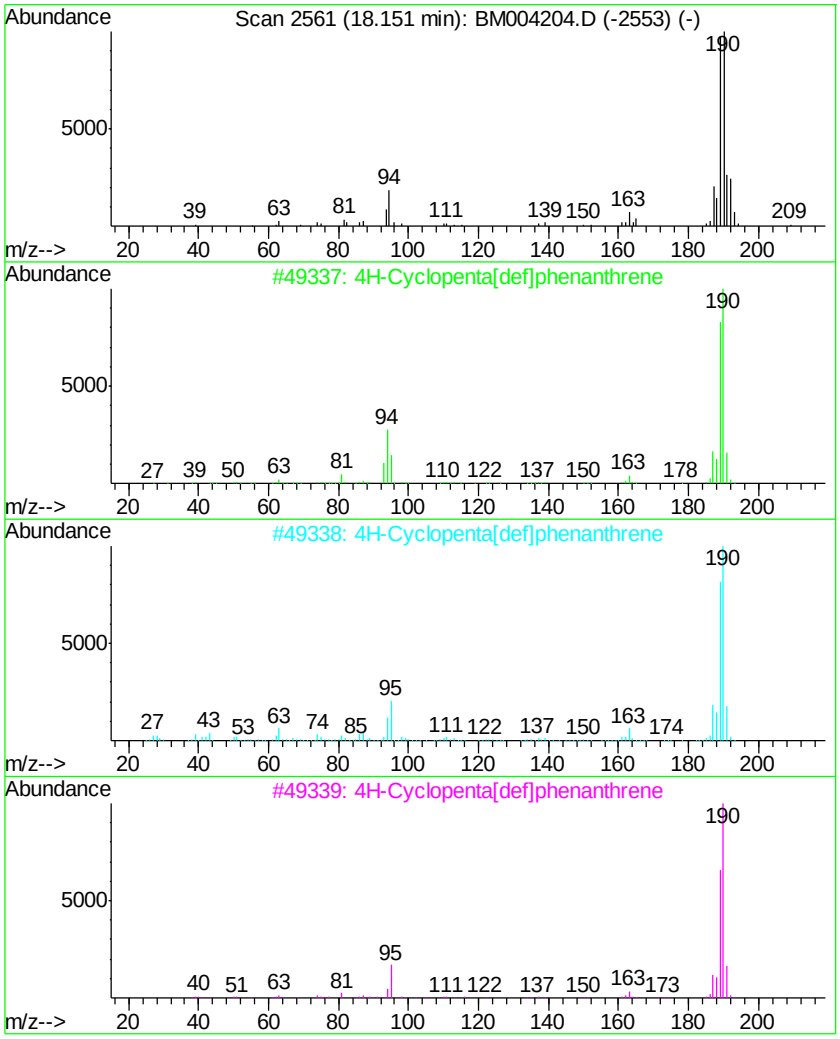
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

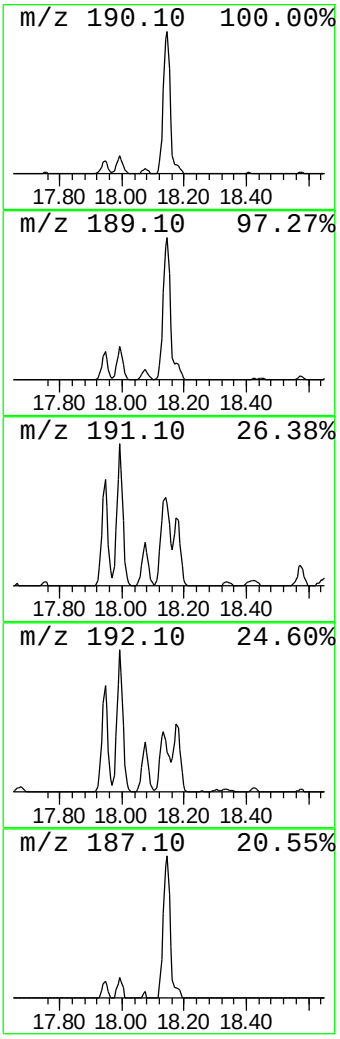
****

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	10.58 ng/ul	267809	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	89
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
5	Pyrazole-4-carboxaldehyde, 3-(4-...	190	C10H7FN2O	306936-57-2	53





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
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Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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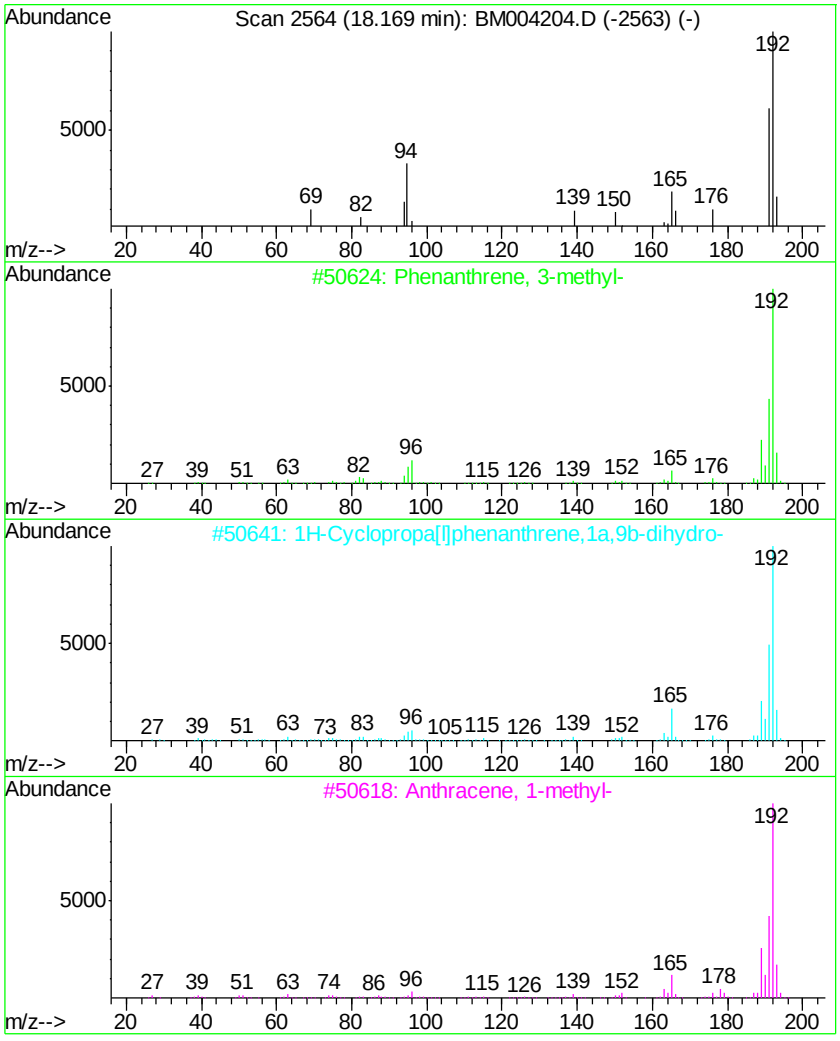
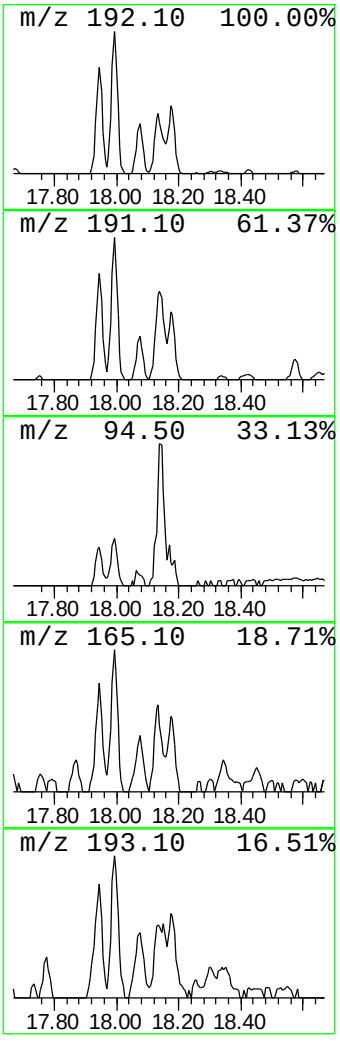
Peak Number 6 Phenanthrene, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.17	2.56 ng/ul	64889	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	86
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	86
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	80





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Sample : H1340-15
Misc :
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Instrument : BNA_M
ClientSampleId : C04P3

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Quant Title : SVOA CALIBRATION

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

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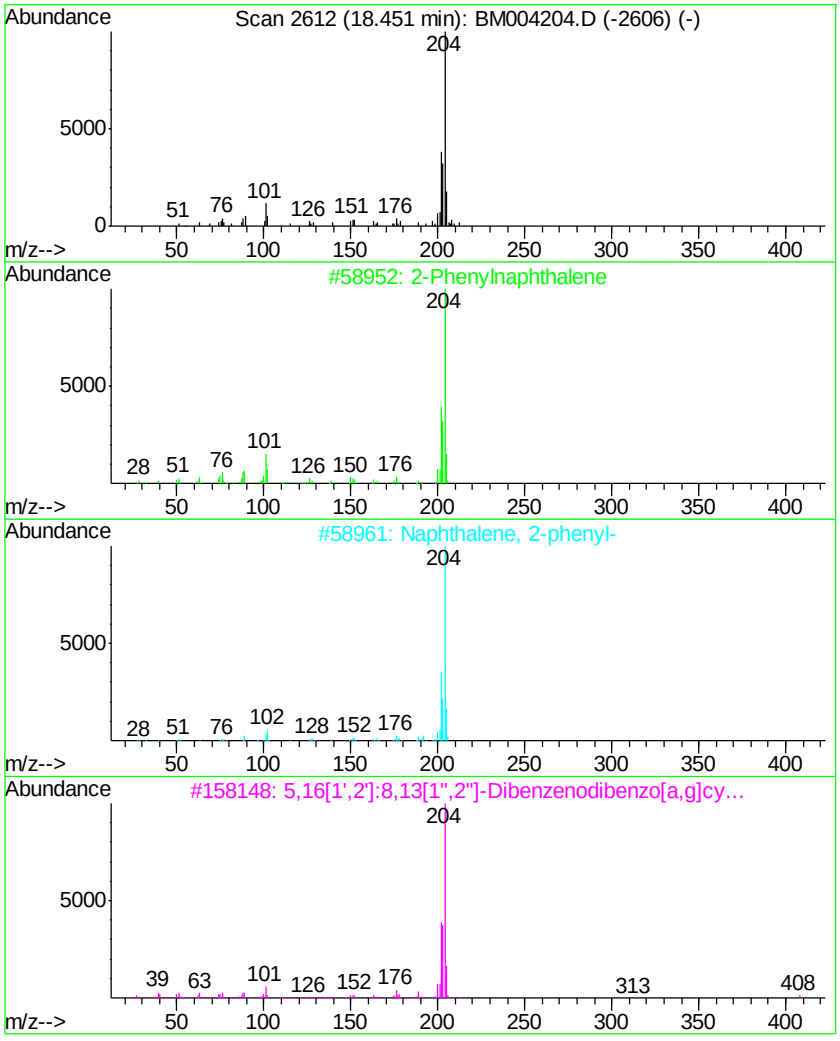
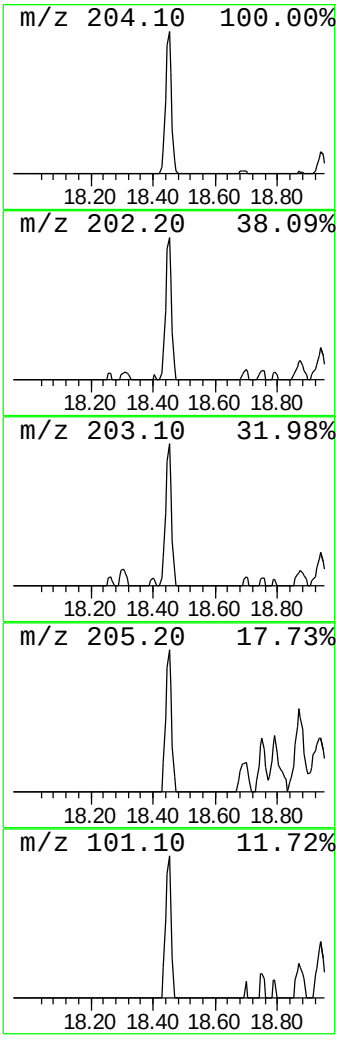
Peak Number 7 2-Phenylnaphthalene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	3.61 ng/ul	91410	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	94
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76





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Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

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Quant Title : SVOA CALIBRATION

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

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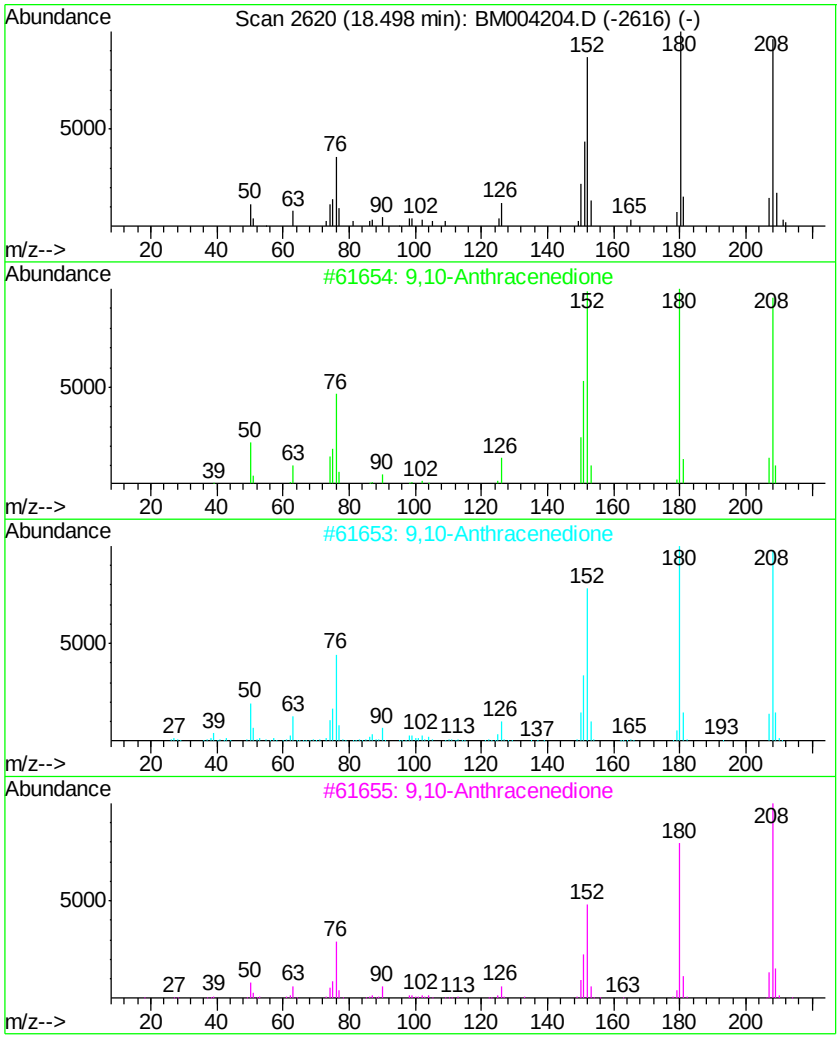
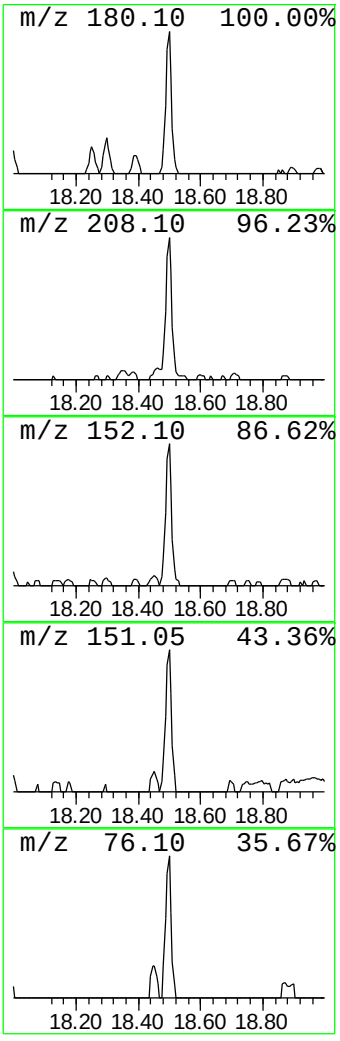
Peak Number 8 9,10-Anthracenedione Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.50	3.53 ng/ul	89269	Phenanthrene-d10	17.07

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	97
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	93
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70





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Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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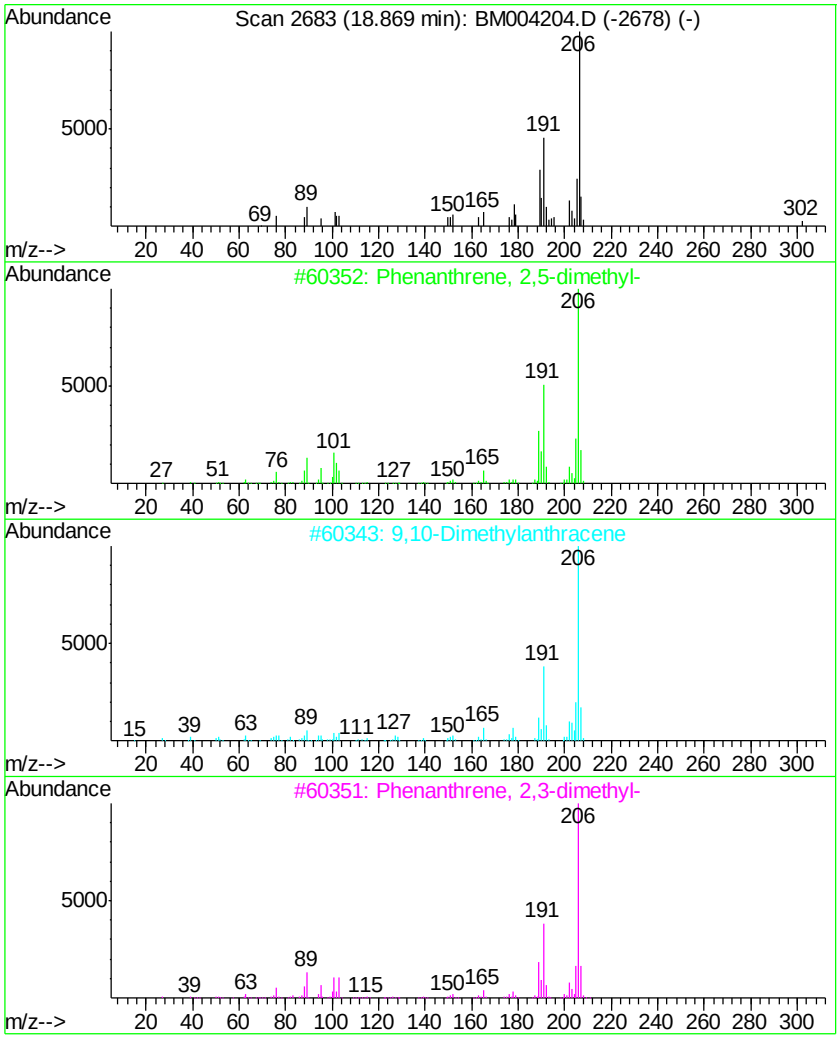
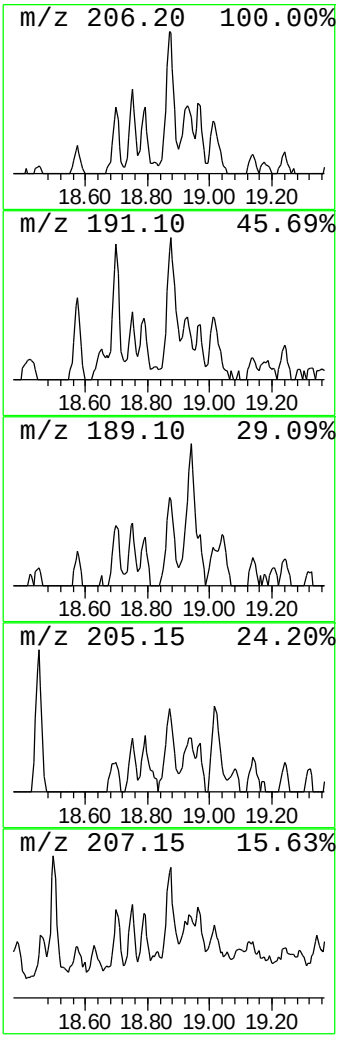
Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.87	3.11 ng/ul	78772	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	87
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	83





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Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

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Quant Title : SVOA CALIBRATION

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

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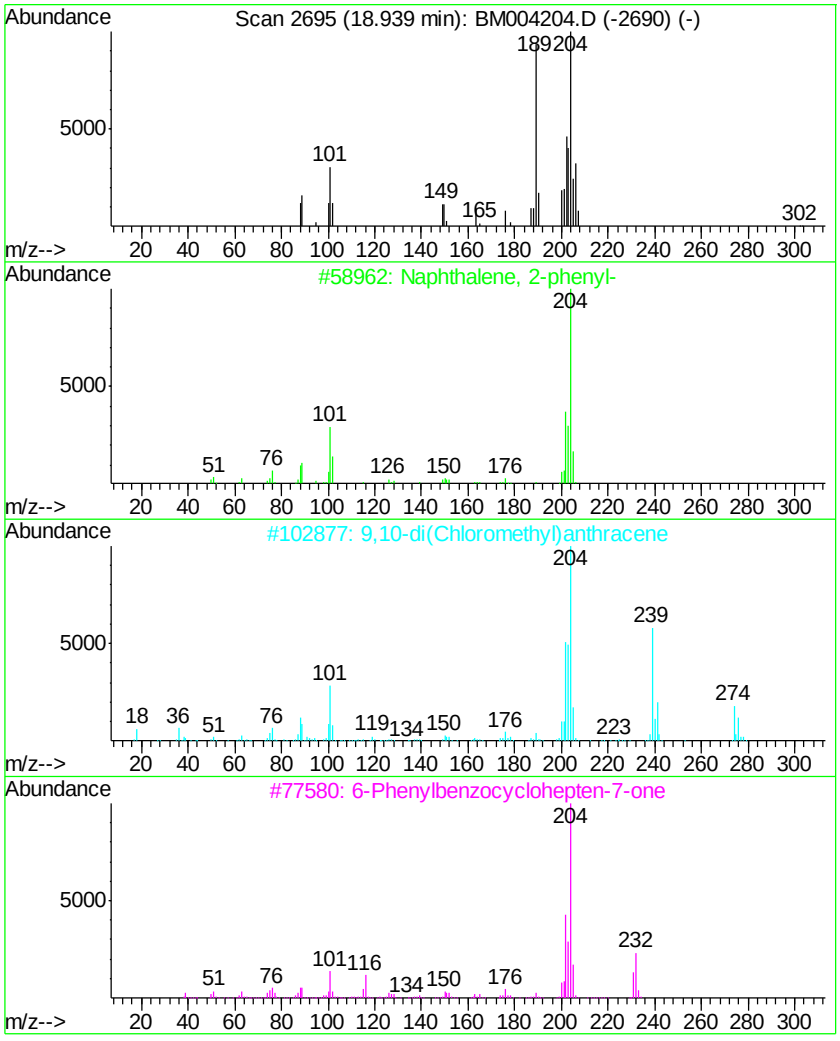
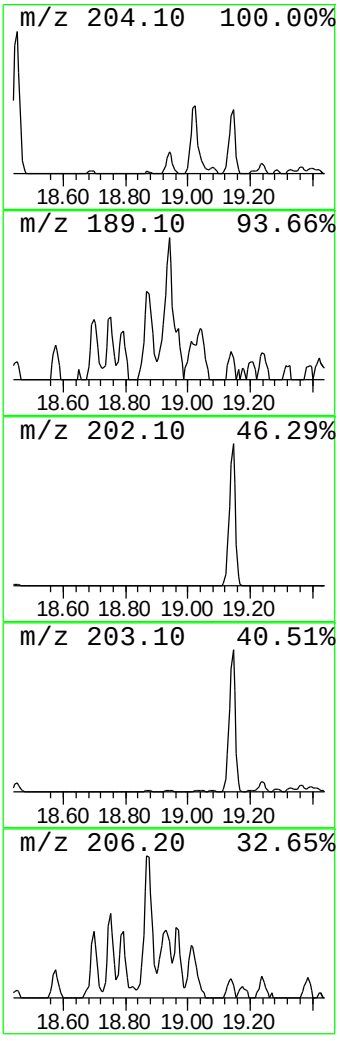
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	2.04 ng/ul	51740	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	50
2	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	47
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	47
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	43
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	43





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Sample : H1340-15
Misc :
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Instrument : BNA_M
ClientSampleId : C04P3

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Quant Title : SVOA CALIBRATION

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

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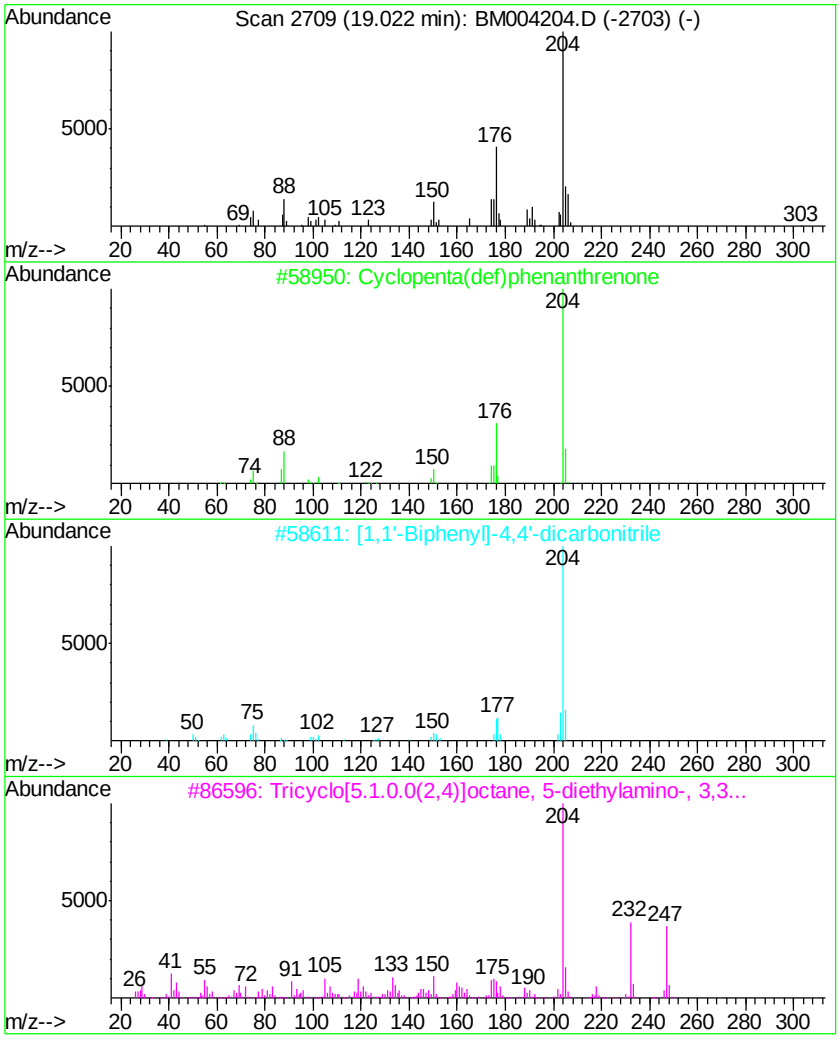
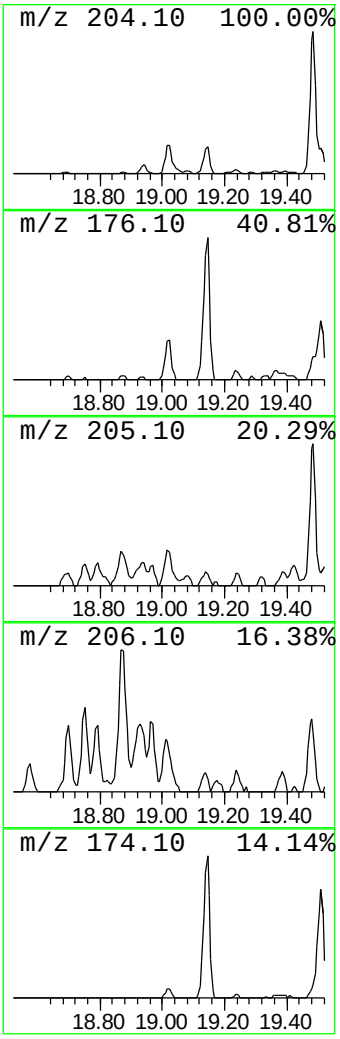
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.02	3.33 ng/ul	84346	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	47
3	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	47
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
5	1-Methyl-4-ethyl 2-phenylsuccinate	236	C13H16O4	132545-36-9	42





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Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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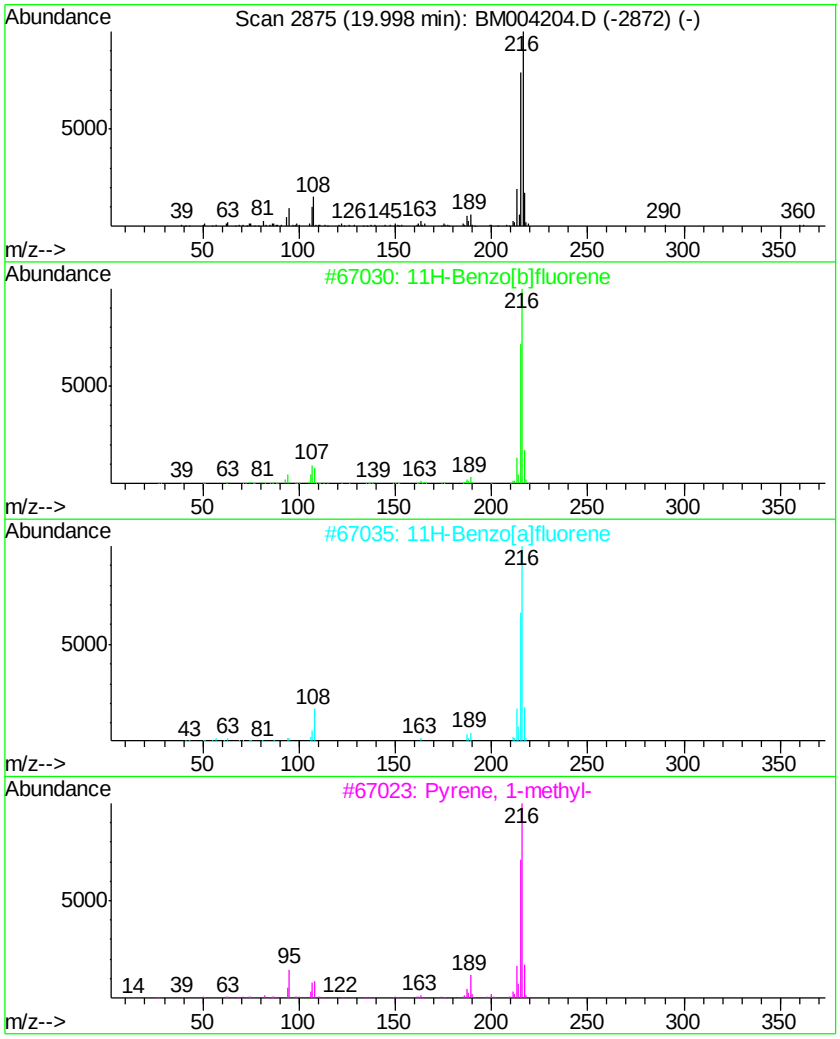
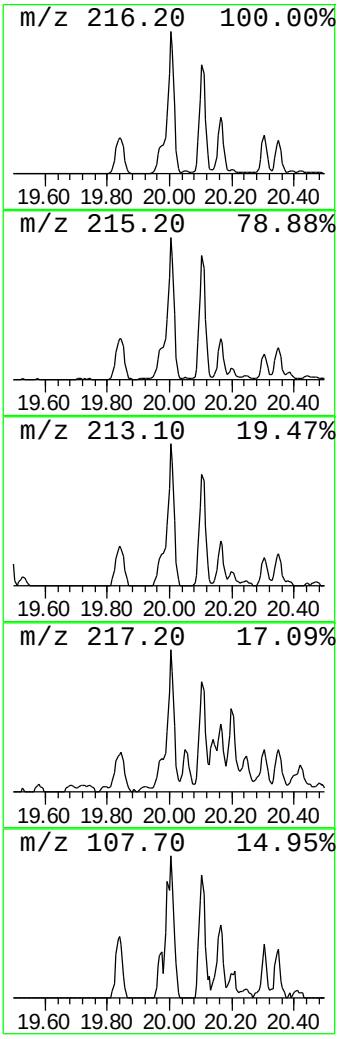
Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.00	3.09 ng/ul	359764	Chrysene-d12	21.28

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





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Sample : H1340-15
Misc :
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Instrument : BNA_M
ClientSampleId : C04P3

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Quant Title : SVOA CALIBRATION

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

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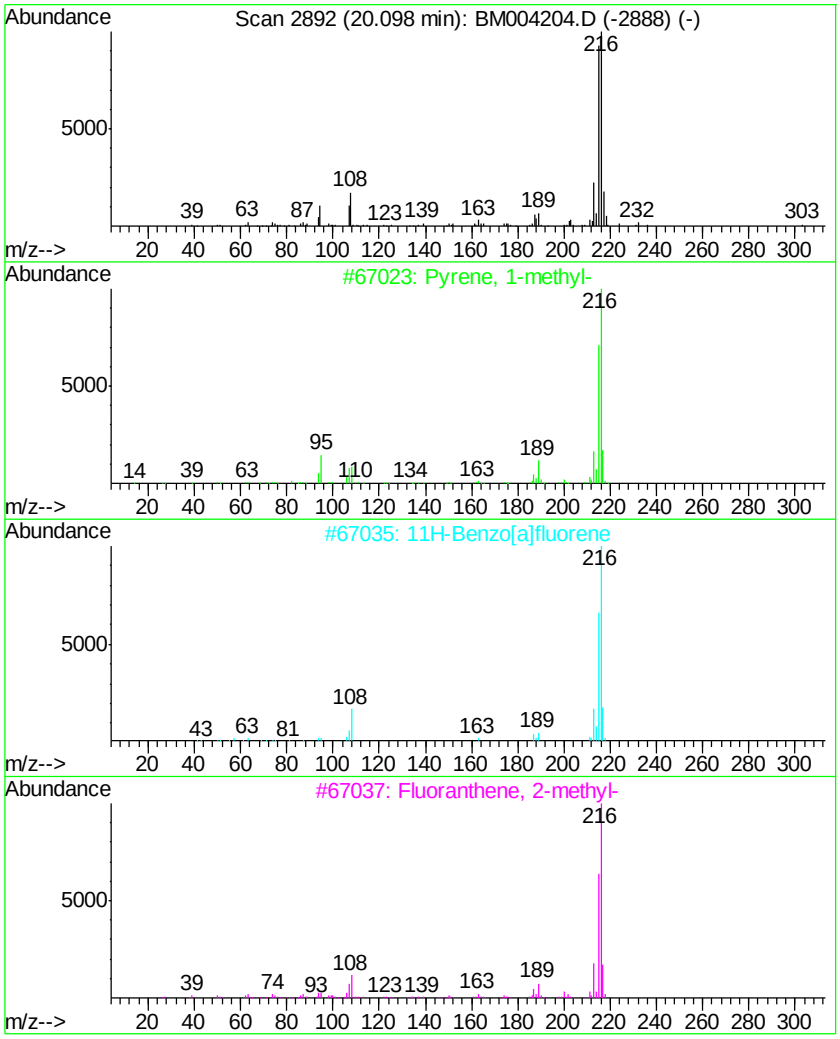
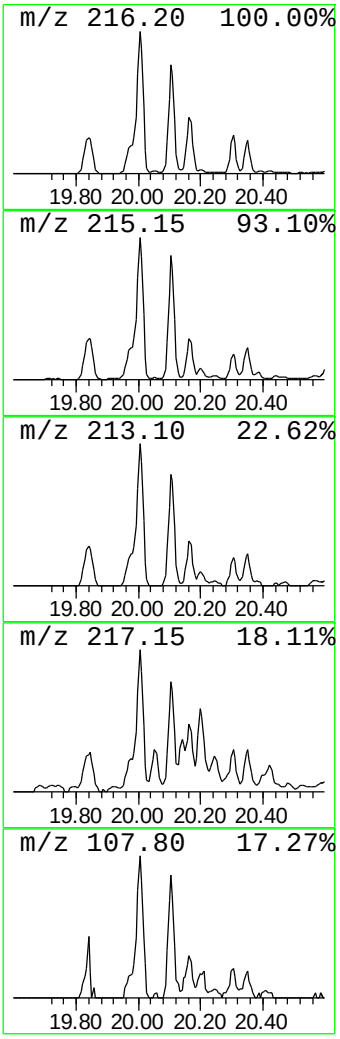
Peak Number 13 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.10	2.32 ng/ul	270197	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	92
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





Library Search Compound Report

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Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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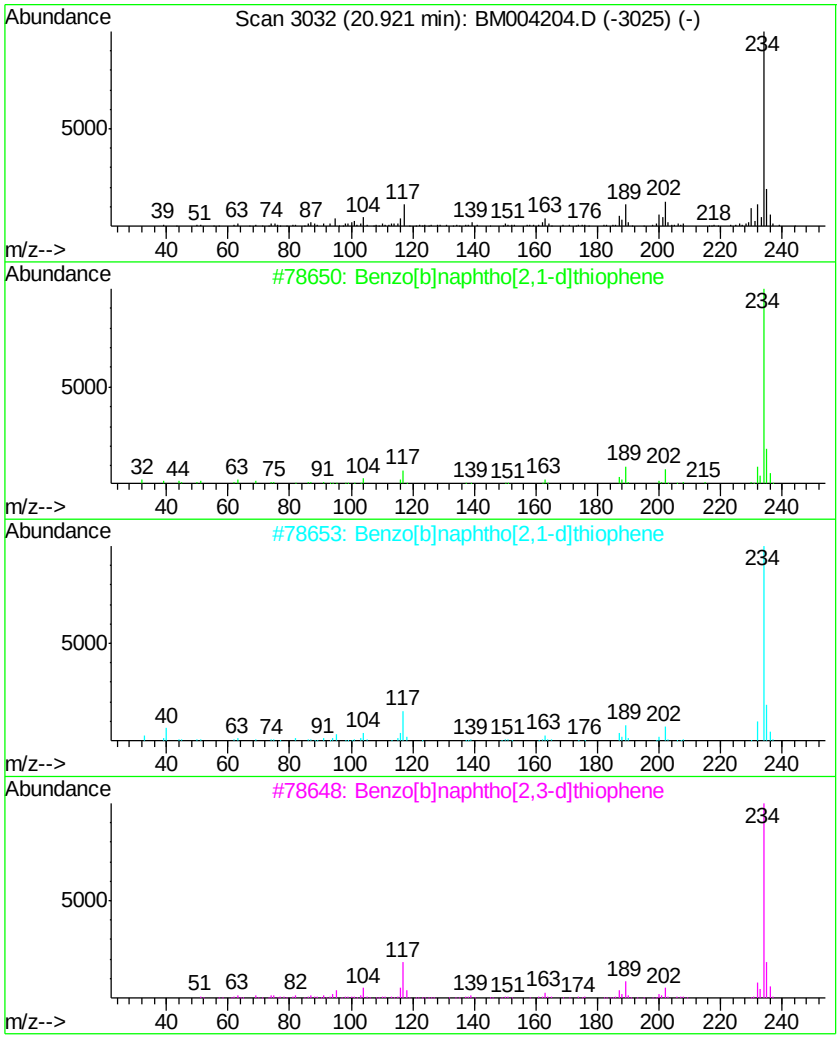
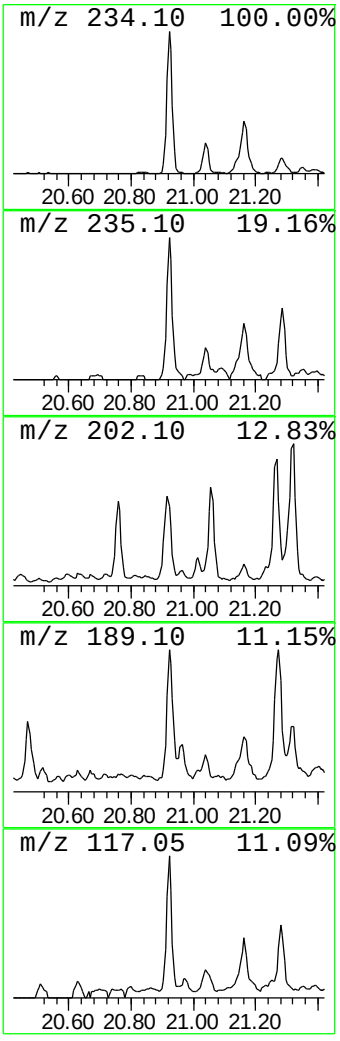
Peak Number 14 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.92	2.22 ng/ul	258727	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	90





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Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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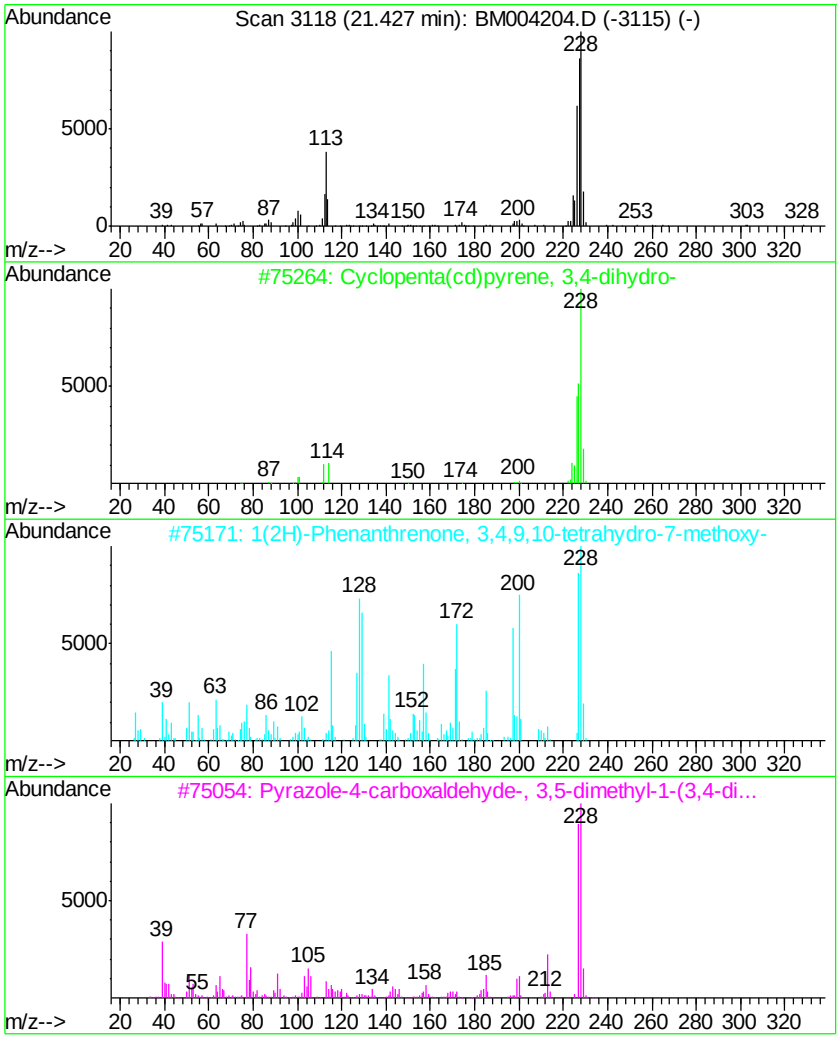
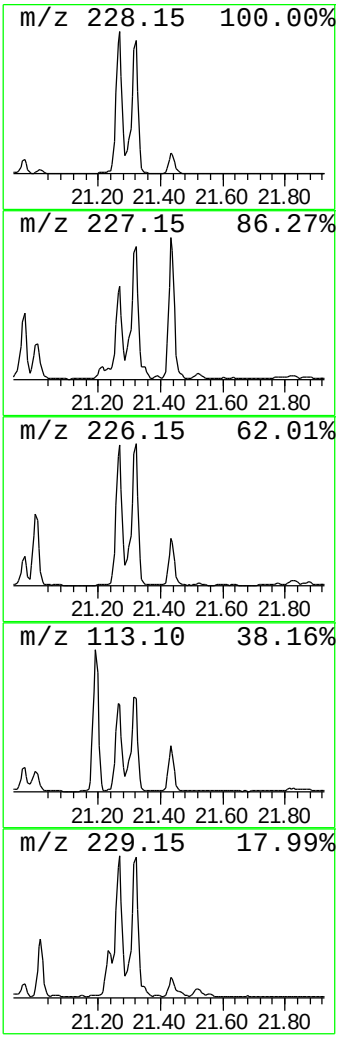
Peak Number 15 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.43	3.12 ng/ul	363306	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	87
2	1(2H)-Phenanthrenone, 3,4,9,10-t...	228	C15H16O2	014427-61-3	50
3	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
4	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	50
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	49





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Quant Title : SVOA CALIBRATION

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

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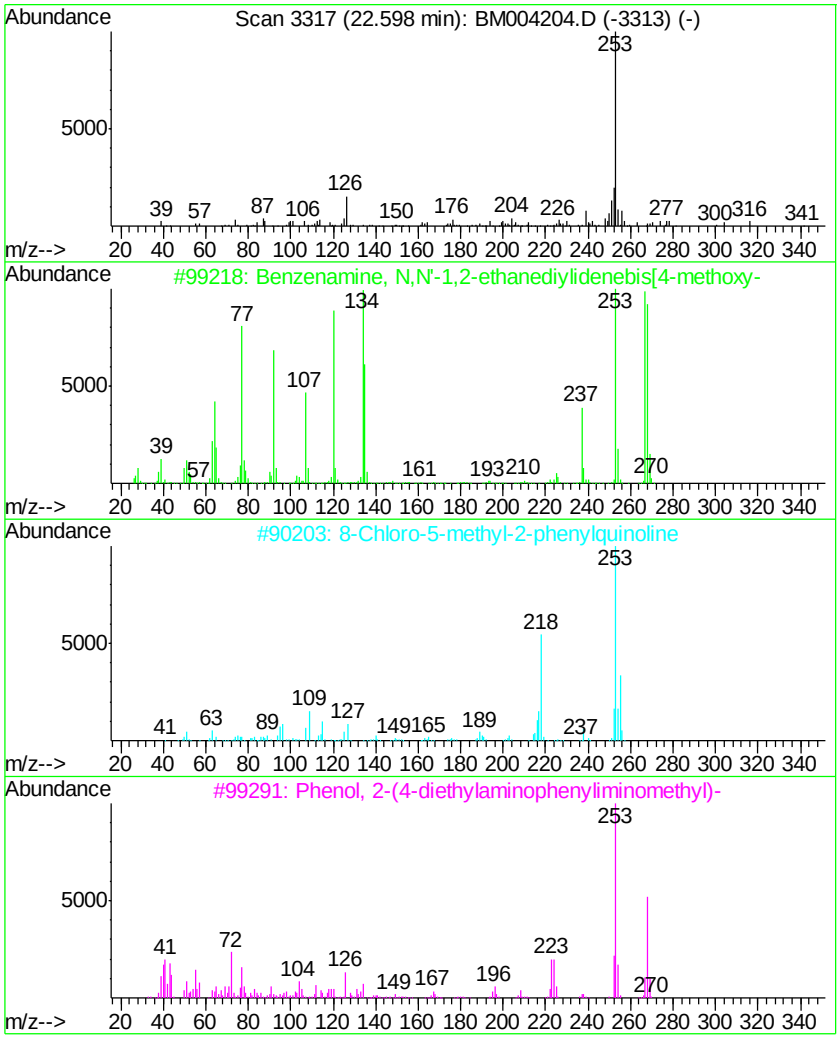
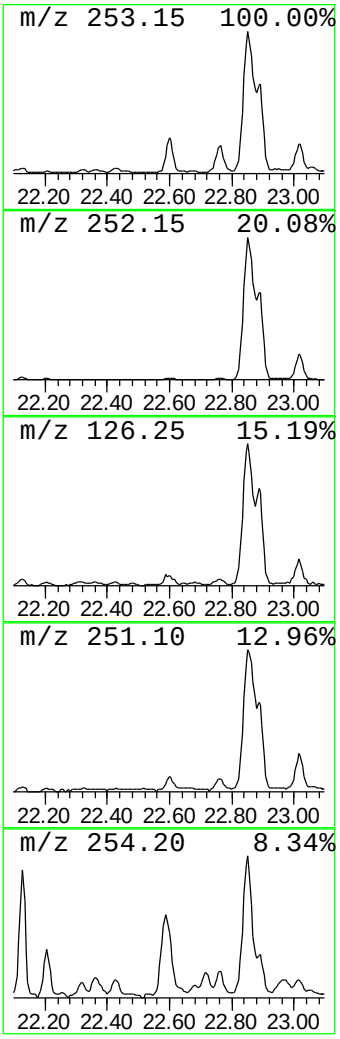
Peak Number 16 unknown-02 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.60	3.32 ng/ul	94367	Perylene-d12	23.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, N,N'-1,2-ethanediyl...	268	C16H16N2O2	024764-91-8	47
2	8-Chloro-5-methyl-2-phenylquinoline	253	C16H12ClN	025413-16-5	42
3	Phenol, 2-(4-diethylaminophenyli...	268	C17H20N2O	004938-45-8	38
4	(-)-1-Methylcholanthrene	268	C21H16	1000126-55-9	22
5	(+)-1-Methylcholanthrene	268	C21H16	1000126-56-0	16





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Sample : H1340-15
Misc :
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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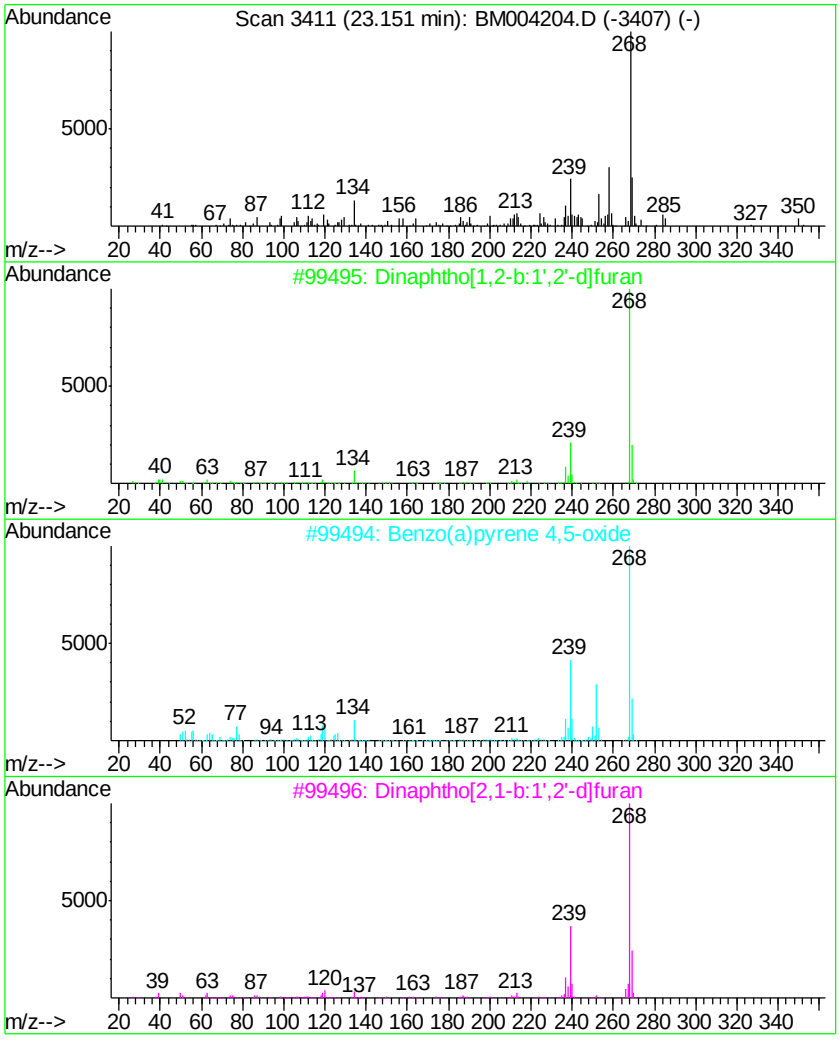
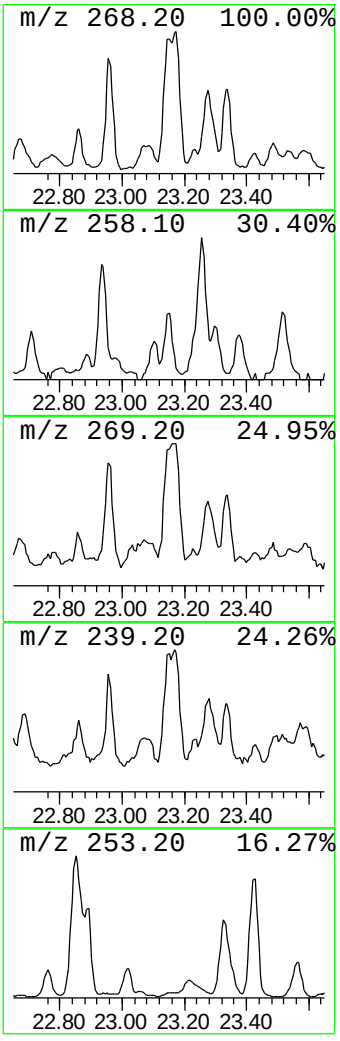
Peak Number 18 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.15	3.07 ng/ul	87119	Perylene-d12	23.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	76
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	68
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	68
4	4H-Dibenz[a,kl]anthracene, 5,6-d...	268	C21H16	007198-87-0	50
5	Naphthalene, 1-(2-naphthalenylme...	268	C21H16	000611-48-3	50





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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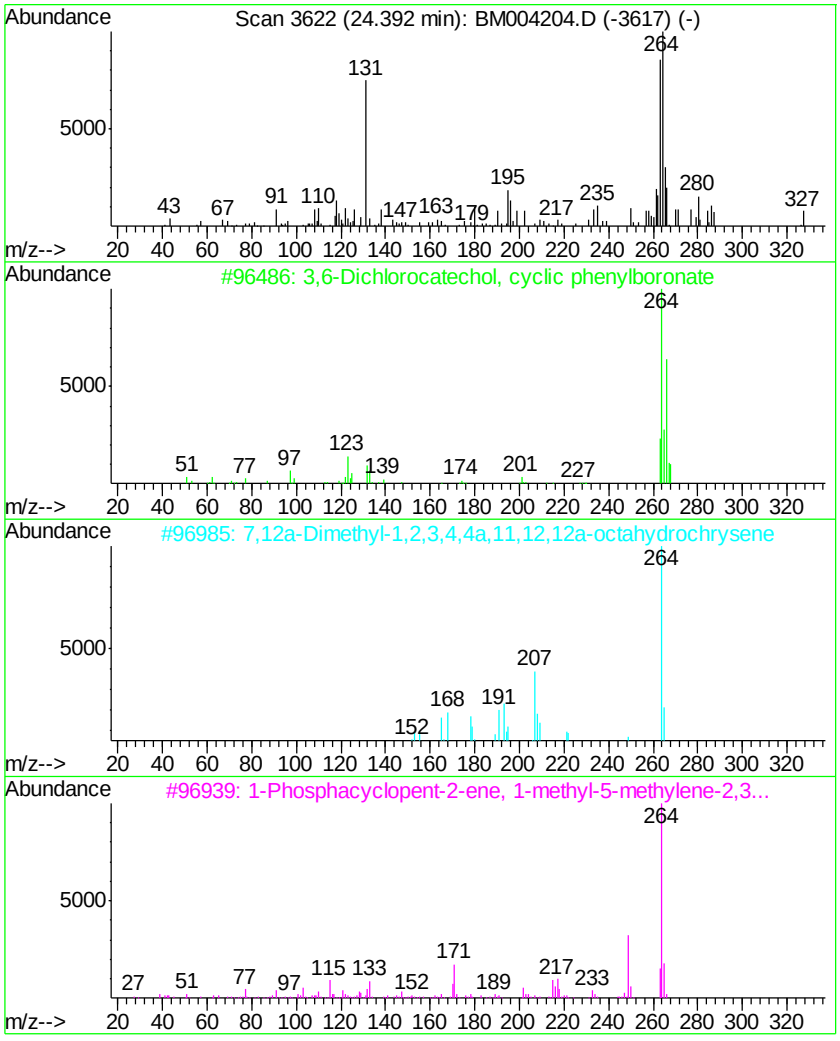
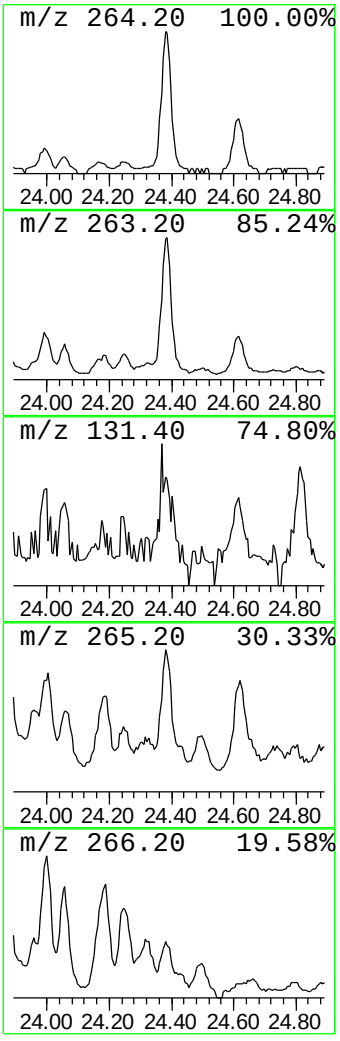
Peak Number 20 unknown-03 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.39	4.23 ng/ul	120101	Perylene-d12	23.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,6-Dichlorocatechol, cyclic phe...	264	C12H7BCl2O2	1000293-25-1	35
2	7,12a-Dimethyl-1,2,3,4,4a,11,12,...	264	C20H24	075758-27-9	27
3	1-Phosphacyclopent-2-ene, 1-meth...	264	C18H17P	1000161-67-7	27
4	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	25
5	2,4,6,8-Tetrathiatricyclo[3.3.1....	264	C10H16S4	007000-79-5	25





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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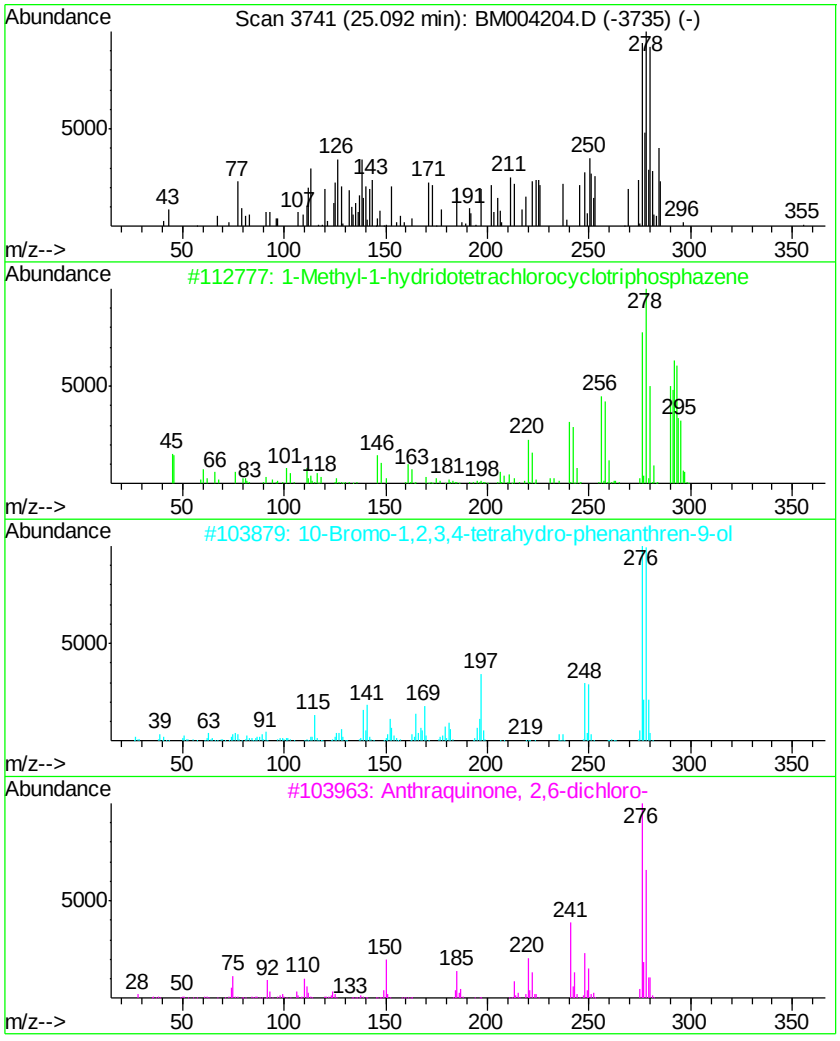
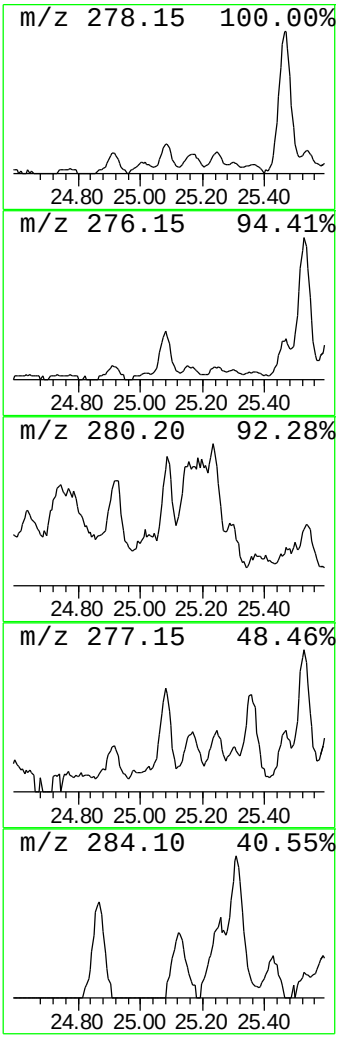
Peak Number 21 unknown-04 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.09	2.24 ng/ul	63662	Perylene-d12	23.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyl-1-hydridotetrachlorocyc...	291	CH4Cl4N3P3	068351-74-6	38
2	10-Bromo-1,2,3,4-tetrahydro-phen...	276	C14H13BrO	1000190-54-9	38
3	Anthraquinone, 2,6-dichloro-	276	C14H6Cl2O2	000605-40-3	35
4	4-Isothiazolecarbonitrile, 3-(p-...	278	C11H7BrN2S	019762-79-9	35
5	Naphtho[2,3-d]thiazol-2-amine, 4...	278	C11H7BrN2S	1000270-99-8	30





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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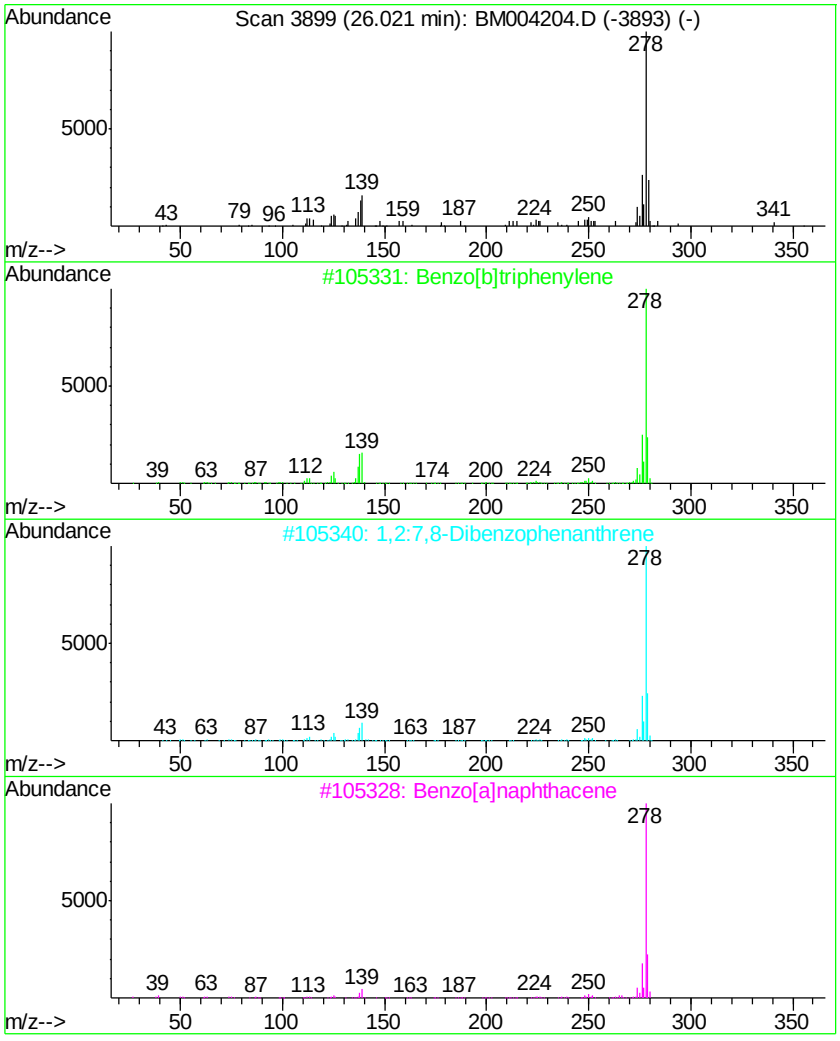
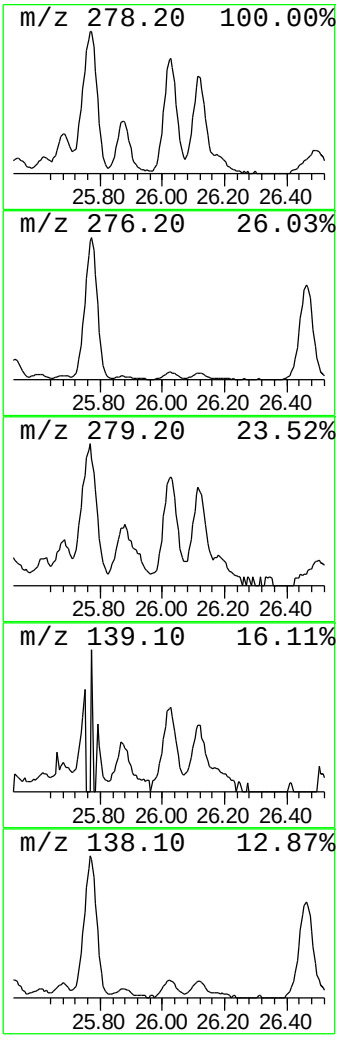
Peak Number 22 Benzo[b]triphenylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.02	3.67 ng/ul	104319	Perylene-d12	23.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	94
3	Benzo[a]naphthacene	278	C22H14	000226-88-0	91
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	90
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004204.D
Acq On : 08 Feb 2016 17:35
Operator : SJ/IZ
Sample : H1340-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.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
(DEL) Alkane: Str...	16.03	2.1	ng/ul	52086	4	17.07	506065	20.0
unknown-01	16.83	2.2	ng/ul	55636	4	17.07	506065	20.0
Phenanthrene, 1-m...	17.95	5.4	ng/ul	137126	4	17.07	506065	20.0
Phenanthrene, 2-m...	17.99	5.9	ng/ul	149832	4	17.07	506065	20.0
4H-Cyclopenta[def...	18.15	10.6	ng/ul	267809	4	17.07	506065	20.0
Phenanthrene, 3-m...	18.17	2.6	ng/ul	64889	4	17.07	506065	20.0
2-Phenylnaphthalene	18.45	3.6	ng/ul	91410	4	17.07	506065	20.0
9,10-Anthracenedione	18.50	3.5	ng/ul	89269	4	17.07	506065	20.0
Phenanthrene, 2,5...	18.87	3.1	ng/ul	78772	4	17.07	506065	20.0
Naphthalene, 2-ph...	18.94	2.0	ng/ul	51740	4	17.07	506065	20.0
Cyclopenta(def)ph...	19.02	3.3	ng/ul	84346	4	17.07	506065	20.0
11H-Benzo[b]fluorene	20.00	3.1	ng/ul	359764	5	21.28	2330450	20.0
Pyrene, 1-methyl-	20.10	2.3	ng/ul	270197	5	21.28	2330450	20.0
Benzo[b]naphtho[2...	20.92	2.2	ng/ul	258727	5	21.28	2330450	20.0
Cyclopenta(cd)pyr...	21.43	3.1	ng/ul	363306	5	21.28	2330450	20.0
unknown-02	22.60	3.3	ng/ul	94367	6	23.52	568123	20.0
Dinaphtho[1,2-b:1...	23.15	3.1	ng/ul	87119	6	23.52	568123	20.0
unknown-03	24.39	4.2	ng/ul	120101	6	23.52	568123	20.0
unknown-04	25.09	2.2	ng/ul	63662	6	23.52	568123	20.0
Benzo[b]triphenylene	26.02	3.7	ng/ul	104319	6	23.52	568123	20.0