LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091619\
Data File : BN007670.D
Acq On : 16 Sep 2019 17:27
Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.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	3.017	3	5	10	rVB	17702229	17968901	8.35%	0.613%
2	6.875	650	661	678	rBV2	1838165	3810135	1.77%	0.130%
3	10.475	1265	1273	1278	rBV	3208971	5359906	2.49%	0.183%
4	13.740	1824	1828	1833	rVV	3791679	5192083	2.41%	0.177%
5	14.016	1868	1875	1890	rVB2	4302363	6848895	3.18%	0.234%
6	14.328	1920	1928	1934	rBV	5051462	7690271	3.58%	0.262%
7	14.392	1934	1939	1946	rVV	6326410	9089913	4.23%	0.310%
8	15.322	2091	2097	2102	rVV	5813291	8284777	3.85%	0.282%
9	15.381	2102	2107	2112	rVV	3258363	4669980	2.17%	0.159%
10	16.728	2331	2336	2345	rVB	4240775	5961264	2.77%	0.203%
11	16.833	2345	2354	2358	rBV2	2492465	4350525	2.02%	0.148%
12	16.892	2358	2364	2369	rVB	4093787	5823182	2.71%	0.199%
13	17.075	2389	2395	2398	rBV2	5669636	8755629	4.07%	0.299%
14	17.128	2398	2404	2408	rVV2	53075592	89490763	41.61%	3.051%
15	17.175	2408	2412	2415	rVV	7463685	11312979	5.26%	0.386%
16	17.210	2415	2418	2423	rVV	13868379	18071004	8.40%	0.616%
17	17.475	2453	2463	2468	rBV2	12670170	20652658	9.60%	0.704%
18	17.951	2534	2544	2548	rBV	9886253	14551453	6.77%	0.496%
19	17.998	2548	2552	2559	rVB	15463488	21173399	9.84%	0.722%
20	18.080	2559	2566	2571	rBV	3755151	5617869	2.61%	0.192%
21	18.145	2571	2577	2581	rBV2	12118052	21276232	9.89%	0.725%
22	18.180	2581	2583	2590	rVB	5507255	6879708	3.20%	0.235%
23	18.457	2625	2630	2633	rVV	6845532	9671269	4.50%	0.330%
24	18.492	2633	2636	2643	rVB2	7512502	11161993	5.19%	0.381%
25	18.704	2663	2672	2676	rBV	3622662	6117324	2.84%	0.209%
26	18.757	2676	2681	2684	rBV	4365744	5846593	2.72%	0.199%
27	18.792	2684	2687	2692	rVB	4306967	5490695	2.55%	0.187%
28	18.880	2695	2702	2707	rBV2	5612131	10787044	5.02%	0.368%
29	19.022	2721	2726	2733	rBV	8001075	12451252	5.79%	0.425%
30	19.163	2740	2750	2754	rVB2	71890740	154807254	71.98%	5.278%
31	19.239	2760	2763	2768	rVB2	2929042	4372109	2.03%	0.149%
32	19.386	2775	2788	2793	rBV2	6550237	16729462	7.78%	0.570%
33	19.527	2799	2812	2817	rBV4	69800844	190442554	88.55%	6.493%
34	19.580	2817	2821	2827	rVB2	7012902	11887365	5.53%	0.405%

LSC Area Percent Report

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Acq On : 16 Sep 2019 17:27
Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Title : SVOA CALIBRATION

35	19.686	2827	2839	2845	rBV	10166175	19130239	8.89%	0.652%
36	19.745	2845	2849	2855	rVB	10539815	15384550	7.15%	0.525%
37	19.833	2857	2864	2869	rBV3	9599218	24843485	11.55%	0.847%
38	19.880	2869	2872	2876	rVB	5051740	6066050	2.82%	0.207%
39	19.969	2882	2887	2888	rVV3	6609887	9025107	4.20%	0.308%
40	20.004	2889	2893	2898	rVB	22420438	33620422	15.63%	1.146%
41	20.104	2906	2910	2914	rBV	12713009	16232053	7.55%	0.553%
42	20.163	2914	2920	2924	rBV2	22232328	34931620	16.24%	1.191%
43	20.204	2924	2927	2931	rVV	7159108	9033350	4.20%	0.308%
44	20.304	2939	2944	2947	rBV	13484362	16524710	7.68%	0.563%
45	20.351	2947	2952	2956	rVV	13377245	17684631	8.22%	0.603%
46	20.563	2983	2988	2990	rBV4	3450544	5257235	2.44%	0.179%
47	20.604	2991	2995	2997	rVV4	4726867	8149882	3.79%	0.278%
48	20.639	2997	3001	3004	rVV2	8240732	13196718	6.14%	0.450%
49	20.721	3009	3015	3017	rVV4	3743619	6816199	3.17%	0.232%
50	20.757	3017	3021	3027	rVB	22334245	32603739	15.16%	1.112%
51	20.845	3033	3036	3041	rVB	4983249	6743337	3.14%	0.230%
52	20.921	3041	3049	3053	rBV3	27193826	52032298	24.19%	1.774%
53	20.963	3053	3056	3059	rVV	15501946	17621124	8.19%	0.601%
54	21.004	3059	3063	3067	rVV2	17835849	30418412	14.14%	1.037%
55	21.063	3069	3073	3082	rVB	19845351	30341260	14.11%	1.035%
56	21.157	3082	3089	3093	rBV	7801888	15157134	7.05%	0.517%
57	21.274	3099	3109	3113	rBV4	76086361	168323115	78.27%	5.739%
58	21.333	3113	3119	3126	rVB3	73386843	146267264	68.01%	4.987%
59	21.398	3126	3130	3133	rBV2	9268144	11928289	5.55%	0.407%
60	21.439	3133	3137	3140	rVV	14734134	18010258	8.37%	0.614%
61	21.504	3143	3148	3151	rVV6	8881531	20225673	9.40%	0.690%
62	21.539	3151	3154	3158	rVB	12901033	17332573	8.06%	0.591%
63	21.586	3158	3162	3168	rBV2	21151471	33199319	15.44%	1.132%
64	21.639	3168	3171	3175	rBV2	5714623	6790374	3.16%	0.232%
65	21.727	3182	3186	3189	rBV3	5239622	8382064	3.90%	0.286%
66	21.774	3190	3194	3197	rVV2	8825611	13729196	6.38%	0.468%
67	21.833	3197	3204	3208	rVV3	31865408	56828781	26.42%	1.938%
68	21.886	3208	3213	3217	rVV	20546334	27910412	12.98%	0.952%
69	21.945	3217	3223	3226	rVV4	4765120	10459684	4.86%	0.357%
70	21.980	3226	3229	3233	rVB3	6618606	8780230	4.08%	0.299%
71	22.027	3233	3237	3240	rBV2	12539639	18970573	8.82%	0.647%

LSC Area Percent Report

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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Title : SVOA CALIBRATION

72	22.063	3240	3243	3248	rVB2	12893818	18721910	8.71%	0.638%
73	22.121	3248	3253	3262	rVB4	10639612	18152435	8.44%	0.619%
74	22.210	3265	3268	3276	rVB3	3577761	6702371	3.12%	0.229%
75	22.316	3277	3286	3288	rBV3	8664969	19344034	8.99%	0.660%
76	22.427	3300	3305	3308	rBV	7762486	11538186	5.36%	0.393%
77	22.480	3310	3314	3321	rVB	9122161	15362478	7.14%	0.524%
78	22.598	3329	3334	3339	rBV2	11714384	23369092	10.87%	0.797%
79	22.686	3346	3349	3354	rVB4	3549720	5552997	2.58%	0.189%
80	22.880	3369	3382	3386	rBV2	66735386	215067994	100.00%	7.333%
81	22.957	3392	3395	3401	rVB2	4491753	8429295	3.92%	0.287%
82	23.027	3402	3407	3411	rBV	14999471	22403514	10.42%	0.764%
83	23.157	3423	3429	3436	rBV2	7842564	21868127	10.17%	0.746%
84	23.345	3452	3461	3469	rBV3	44855273	118352326	55.03%	4.035%
85	23.457	3470	3480	3485	rVB2	56821587	145753839	67.77%	4.970%
86	23.521	3487	3491	3494	rVV2	3639195	6757933	3.14%	0.230%
87	23.580	3494	3501	3508	rVB2	30461906	64026495	29.77%	2.183%
88	23.774	3527	3534	3538	rBV2	4377721	12593099	5.86%	0.429%
89	23.998	3567	3572	3577	rBV2	5593994	10629532	4.94%	0.362%
90	24.057	3578	3582	3592	rVB2	9793790	20632390	9.59%	0.703%
91	24.180	3595	3603	3609	rBV2	6349484	16873079	7.85%	0.575%
92	24.245	3609	3614	3620	rBV	5820817	12919811	6.01%	0.441%
93	24.380	3632	3637	3649	rVB2	8070660	22908820	10.65%	0.781%
94	25.521	3827	3831	3851	rVB3	6413046	24263425	11.28%	0.827%
95	25.798	3864	3878	3885	rVB4	35491707	136009708	63.24%	4.637%
96	25.862	3886	3889	3899	rVB	3609220	8009718	3.72%	0.273%
97	26.015	3908	3915	3923	rVB	8081079	21681460	10.08%	0.739%
98	26.115	3925	3932	3944	rBV2	6536559	21596642	10.04%	0.736%
99	26.498	3979	3997	4008	rVB2	29676800	128175077	59.60%	4.370%
100	26.821	4043	4052	4067	rVB2	11826270	44591416	20.73%	1.520%

Sum of corrected areas: 2932835003

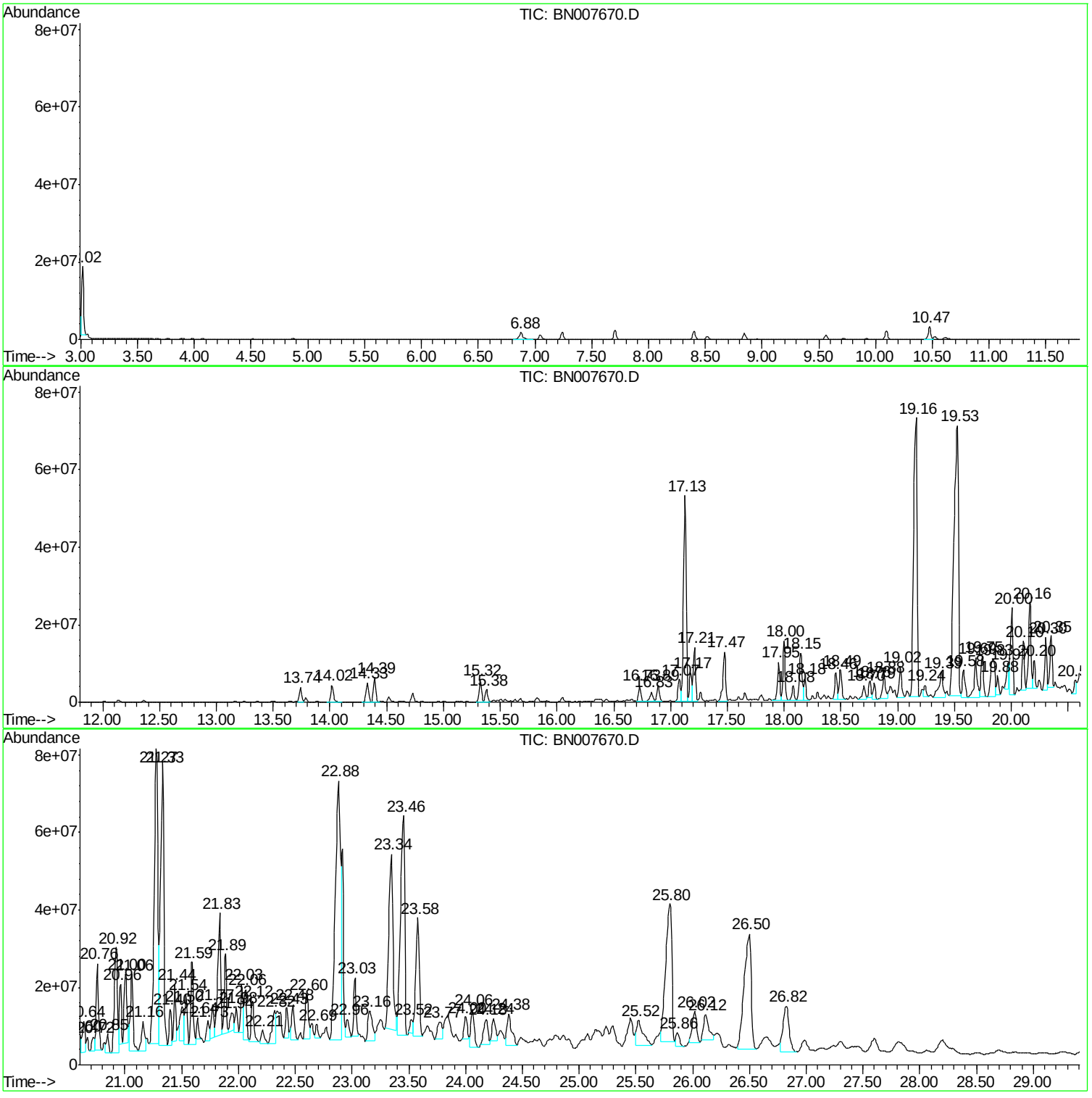
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091619\
Data File : BN007670.D
Acq On : 16 Sep 2019 17:27
Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091619\
Data File : BN007670.D
Acq On : 16 Sep 2019 17:27
Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

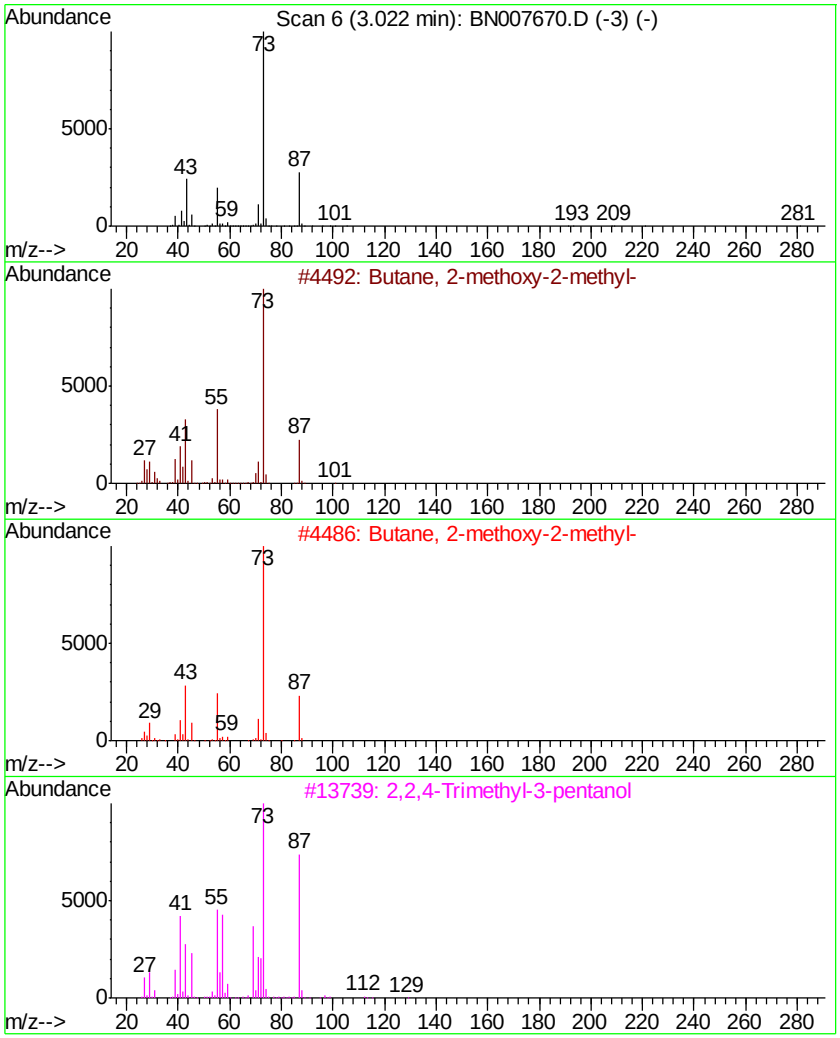
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

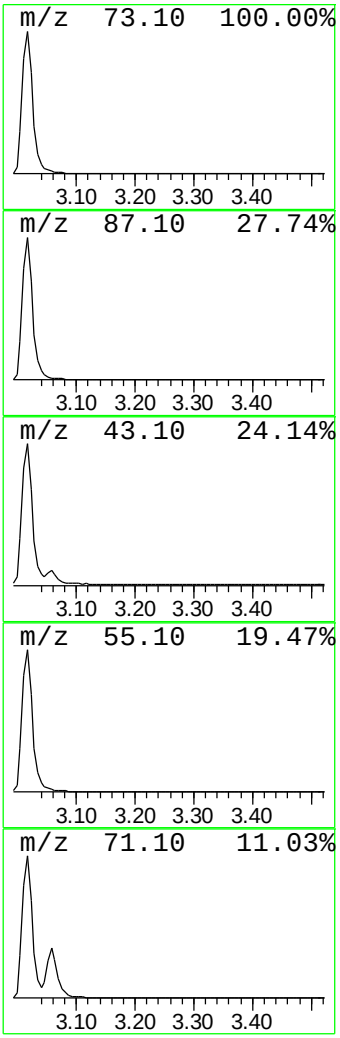
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.02	94.32 ng/ul	17968900	1,4-Dichlorobenzene-d4	7.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	64
3	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Library Search Compound Report

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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

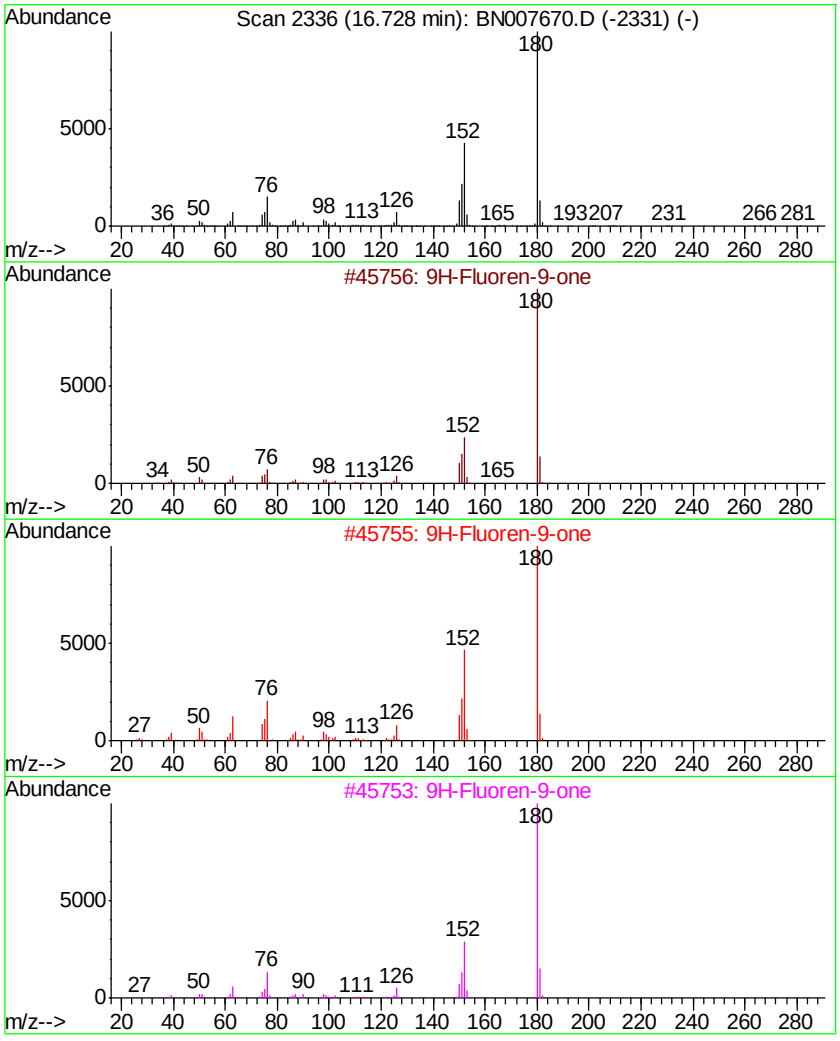
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

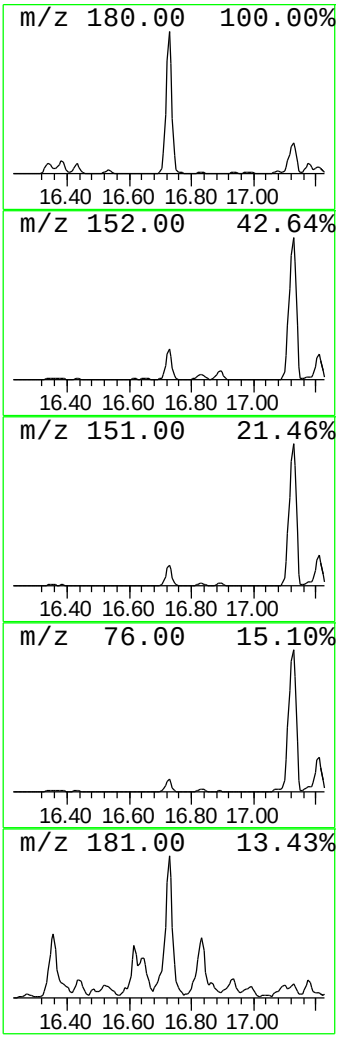
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	13.62 ng/ul	5961260	Phenanthrene-d10	17.07

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	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64





Library Search Compound Report

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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

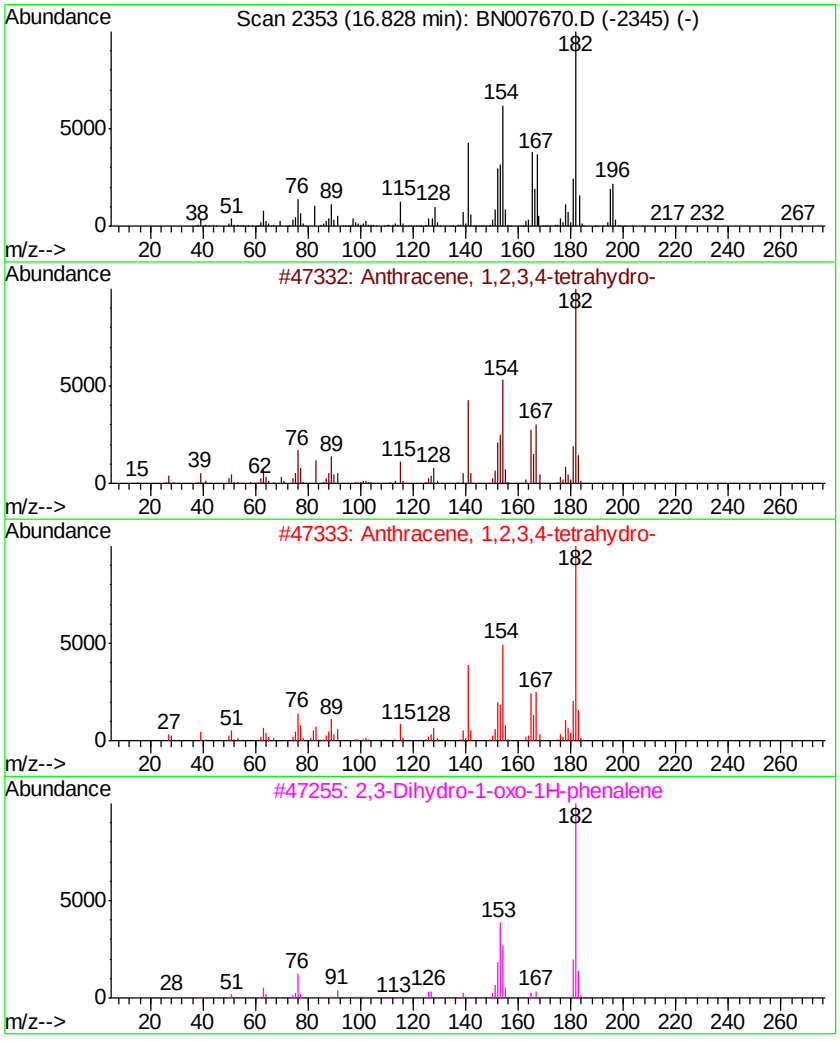
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

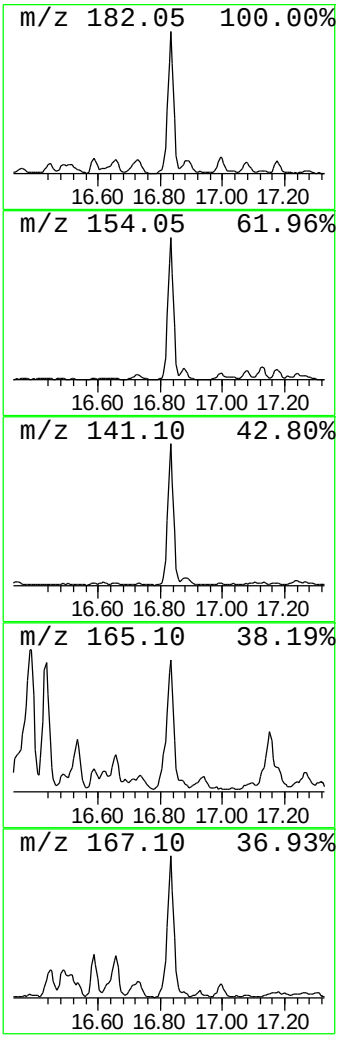
****

Peak Number 3 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.83	9.94 ng/ul	4350530	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	98
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	93
3	2,3-Dihydro-1-oxo-1H-phenalene	182	C13H10O	000518-85-4	87
4	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	55
5	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	55





Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091619\
Data File : BN007670.D
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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

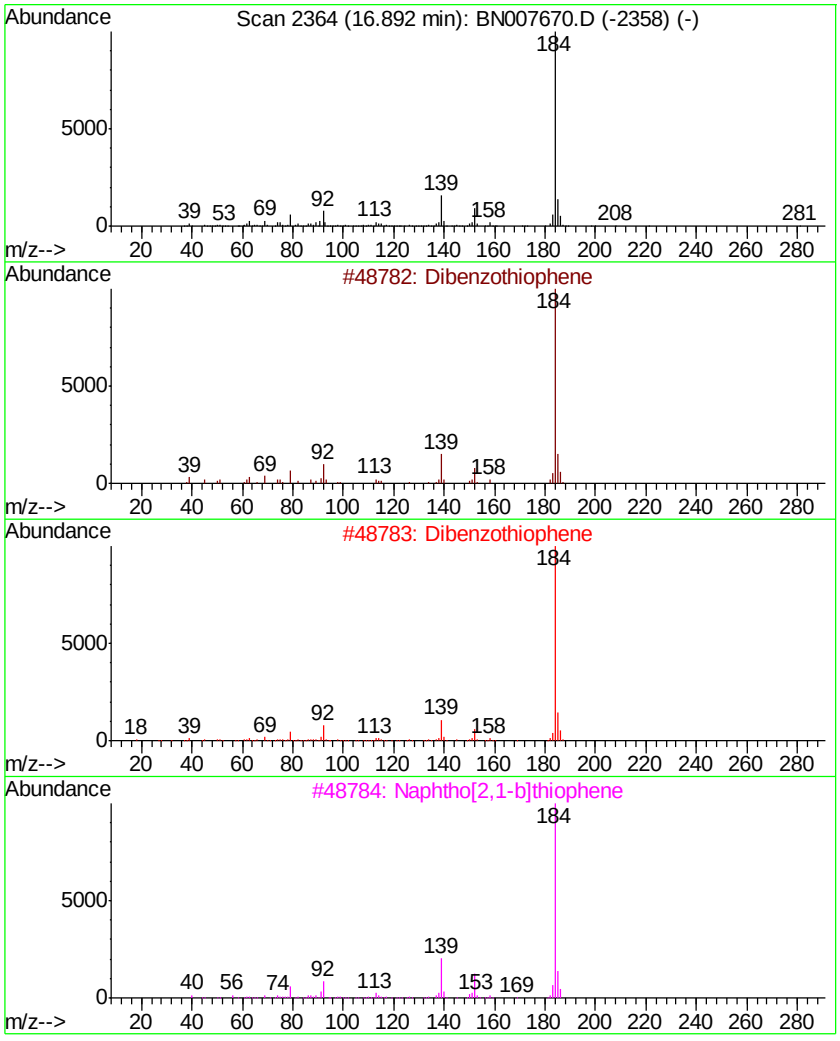
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

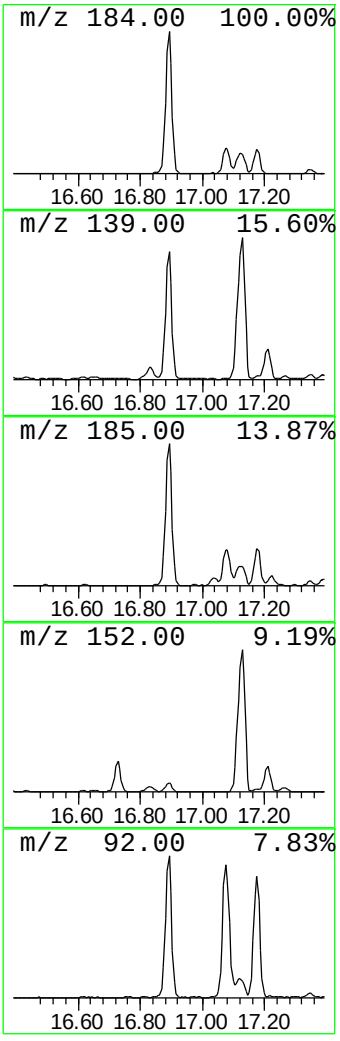
****

Peak Number 4 Dibenzothiophene Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.89	13.30 ng/ul	5823180	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
4	Dibenzothiophene	184	C12H8S	000132-65-0	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Library Search Compound Report

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Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

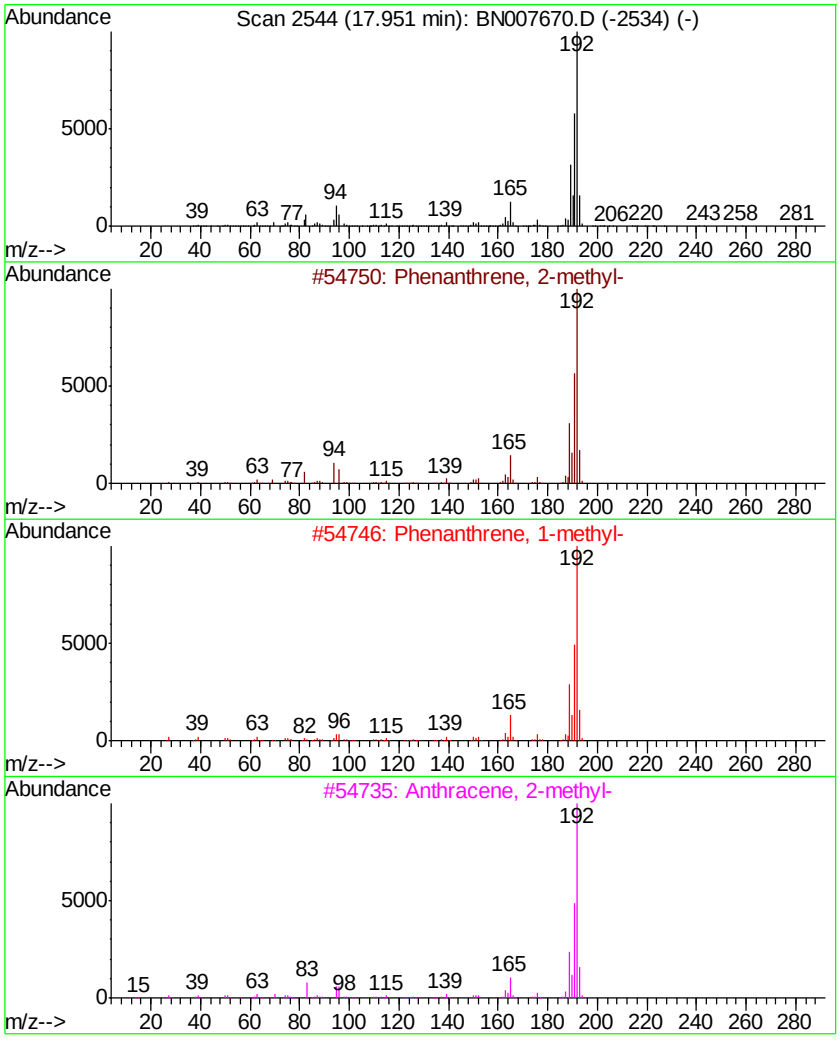
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

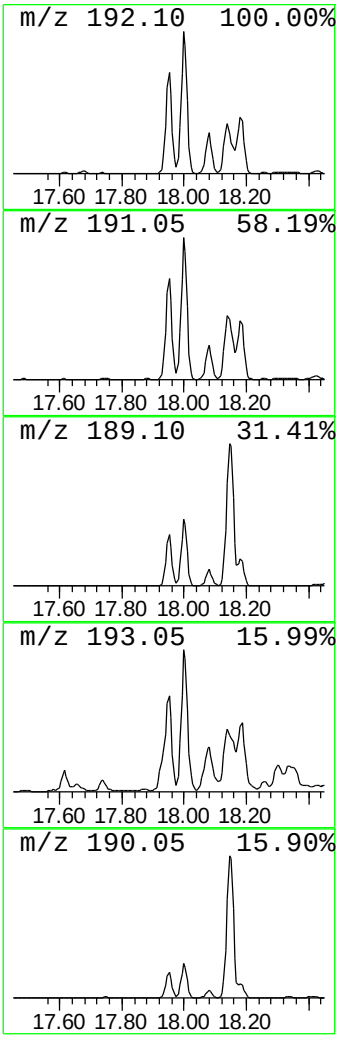
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.95	33.24 ng/ul	14551500	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95





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Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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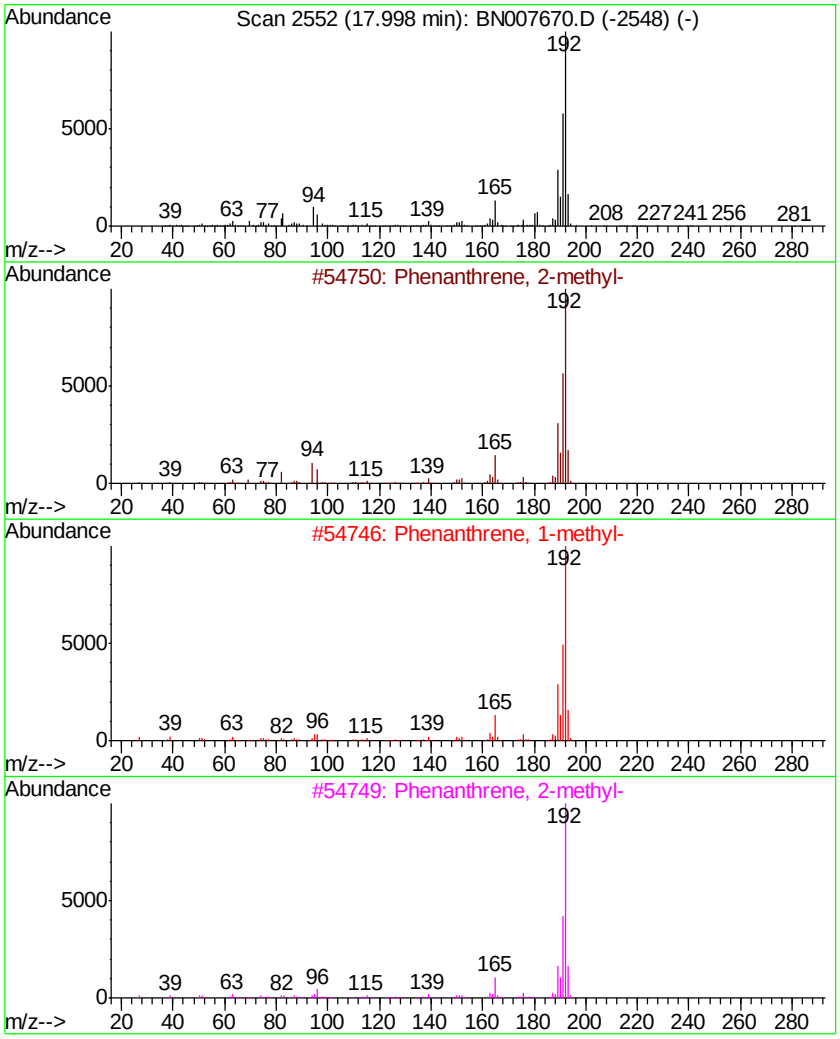
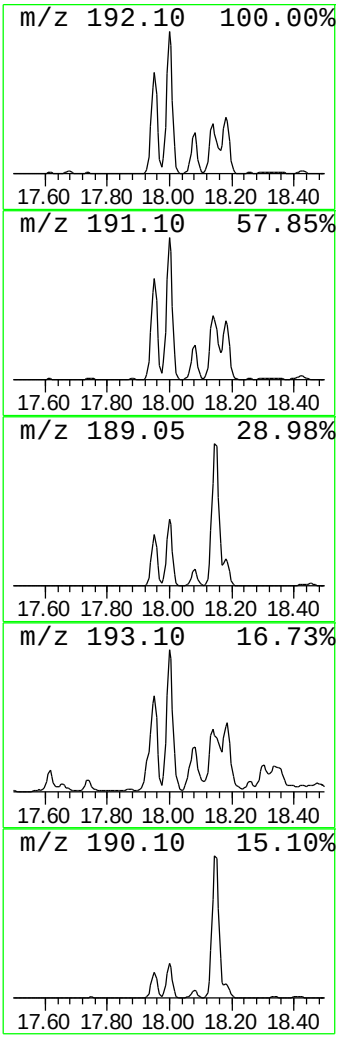
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.00	48.37 ng/ul	21173400	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

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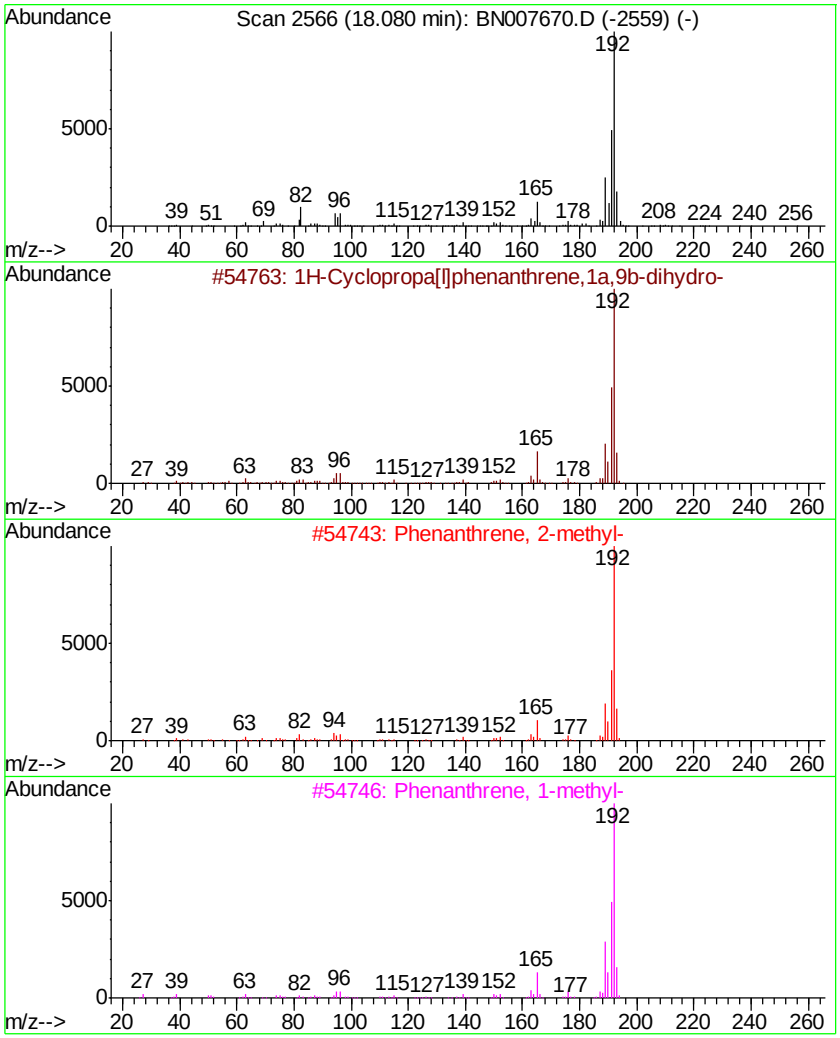
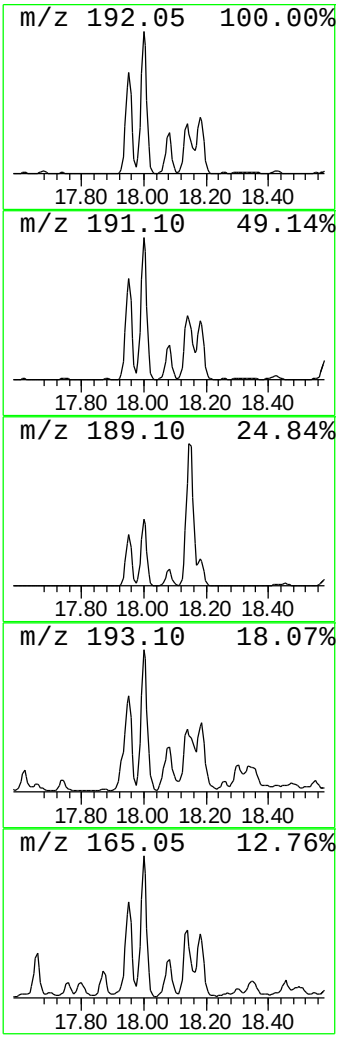
Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.08	12.83 ng/ul	5617870	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96





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Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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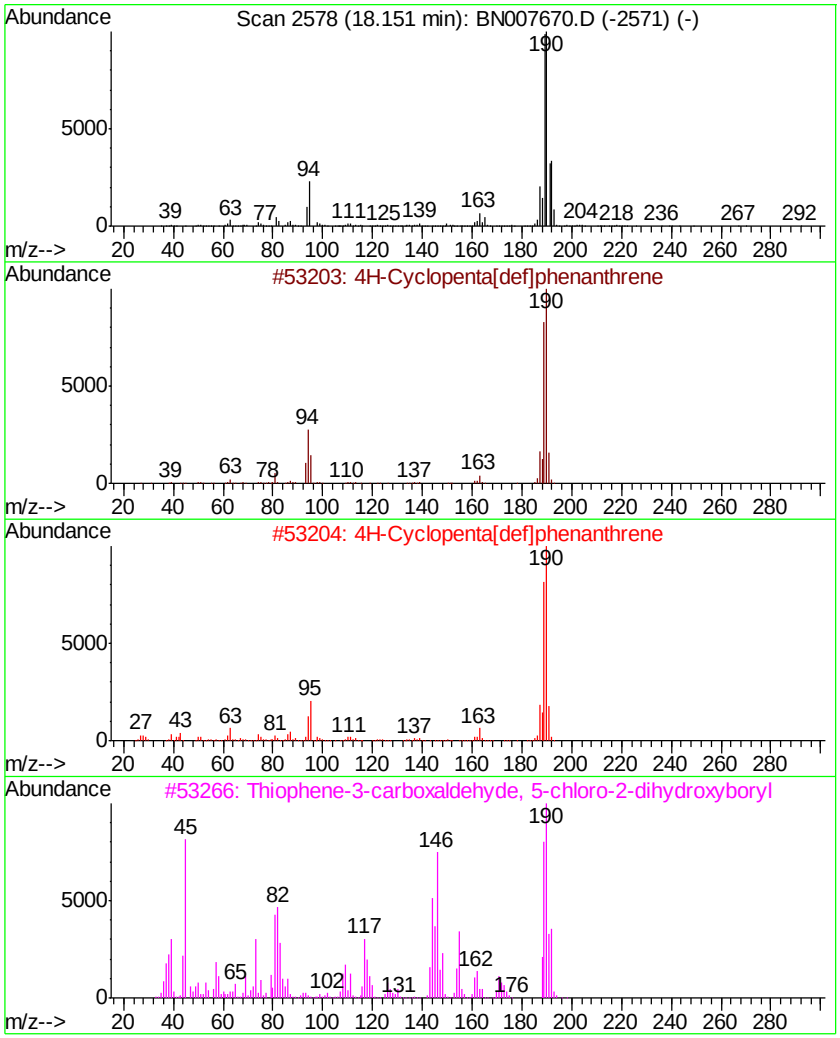
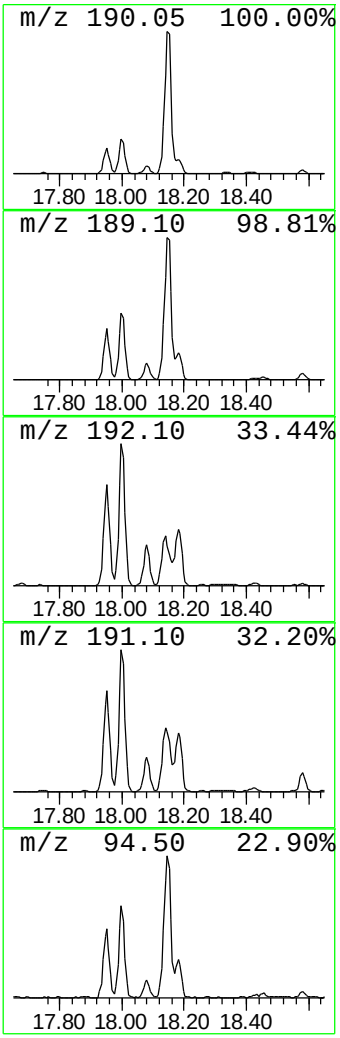
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	48.60 ng/ul	21276200	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	60
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43





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Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

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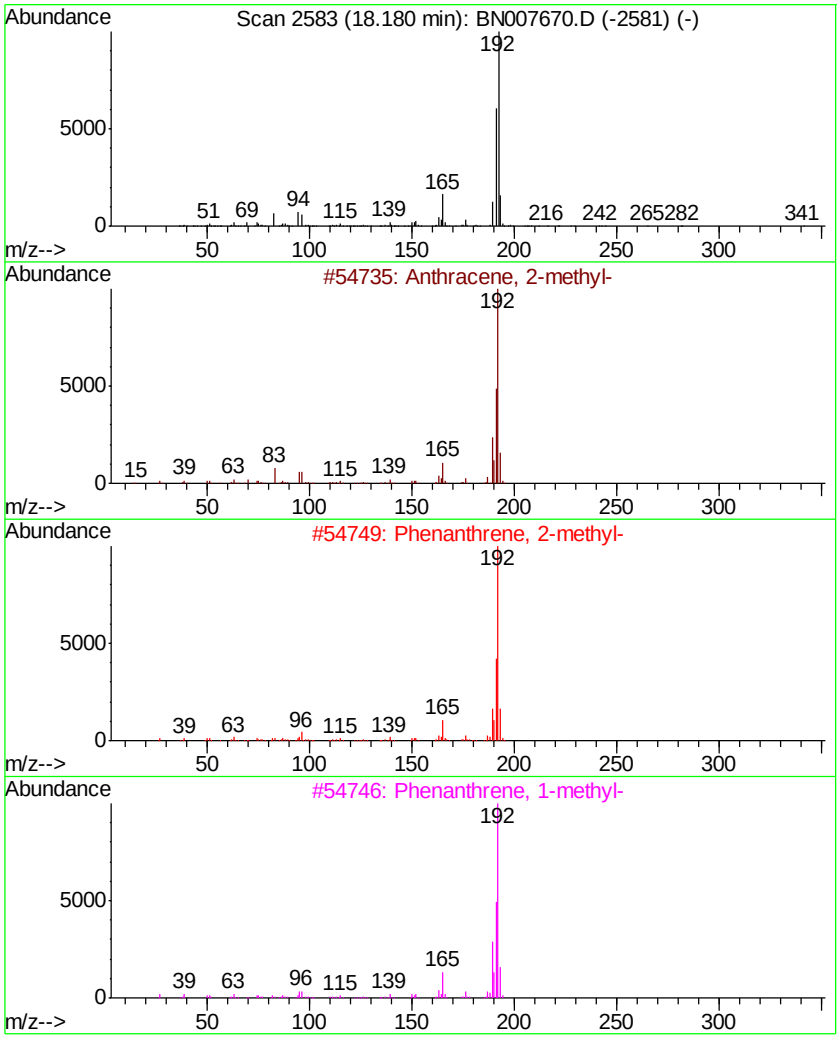
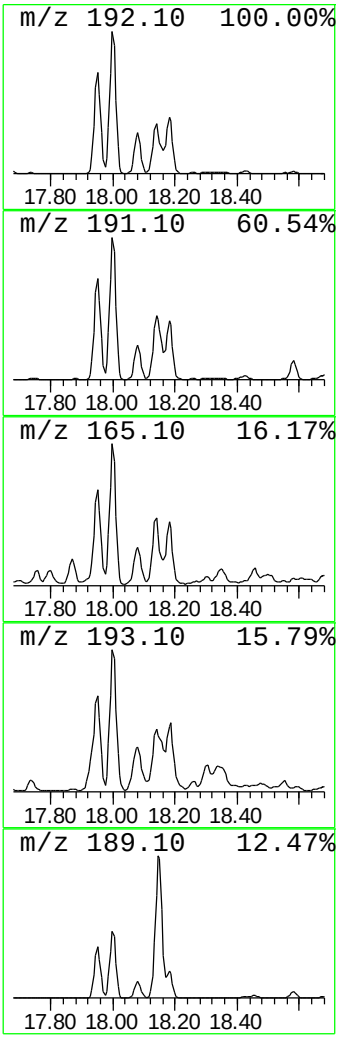
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.18	15.71 ng/ul	6879710	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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Acq On : 16 Sep 2019 17:27
Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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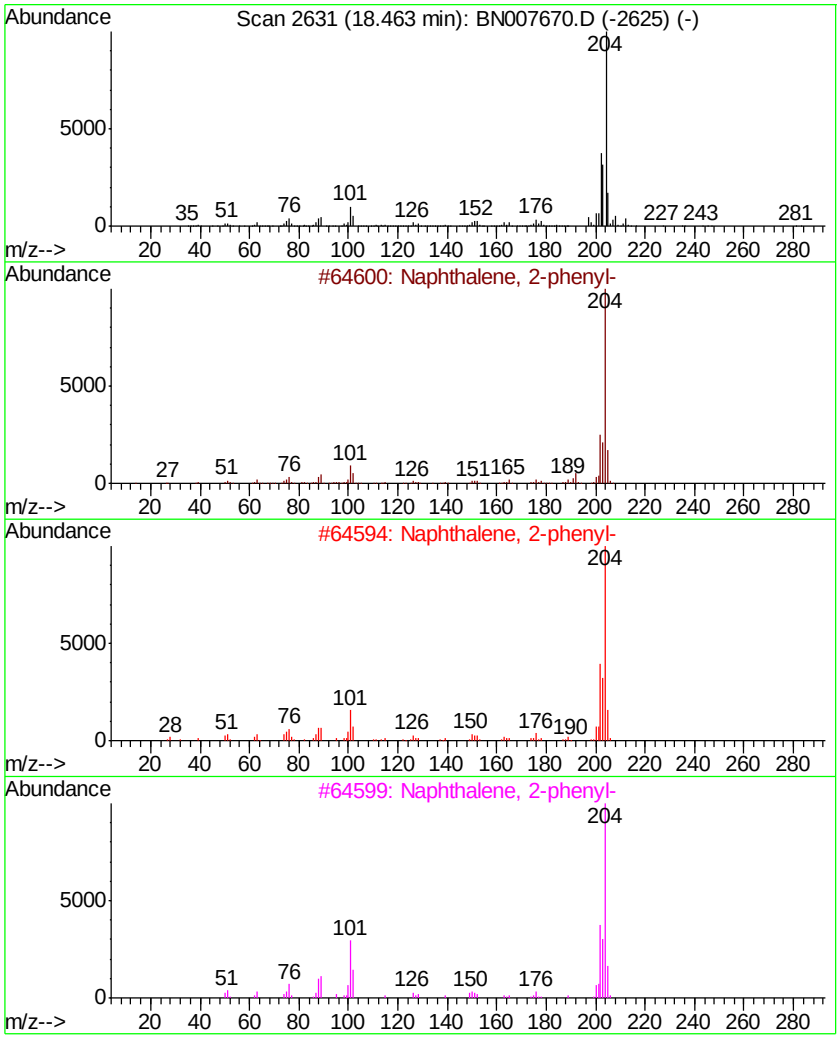
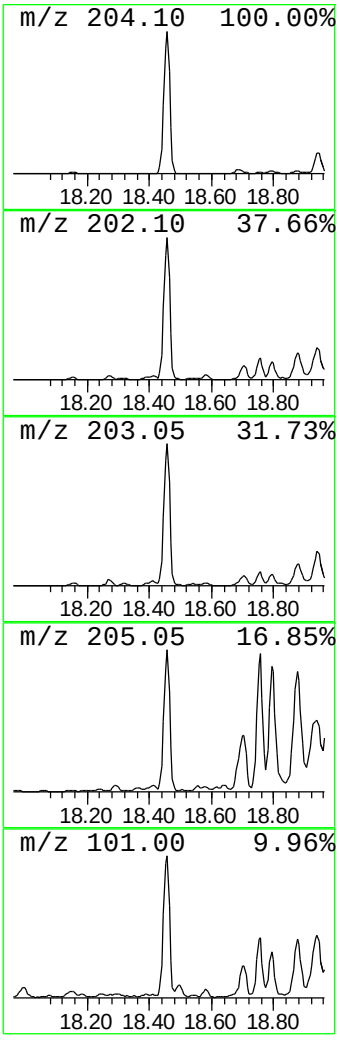
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.46	22.09 ng/ul	9671270	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76





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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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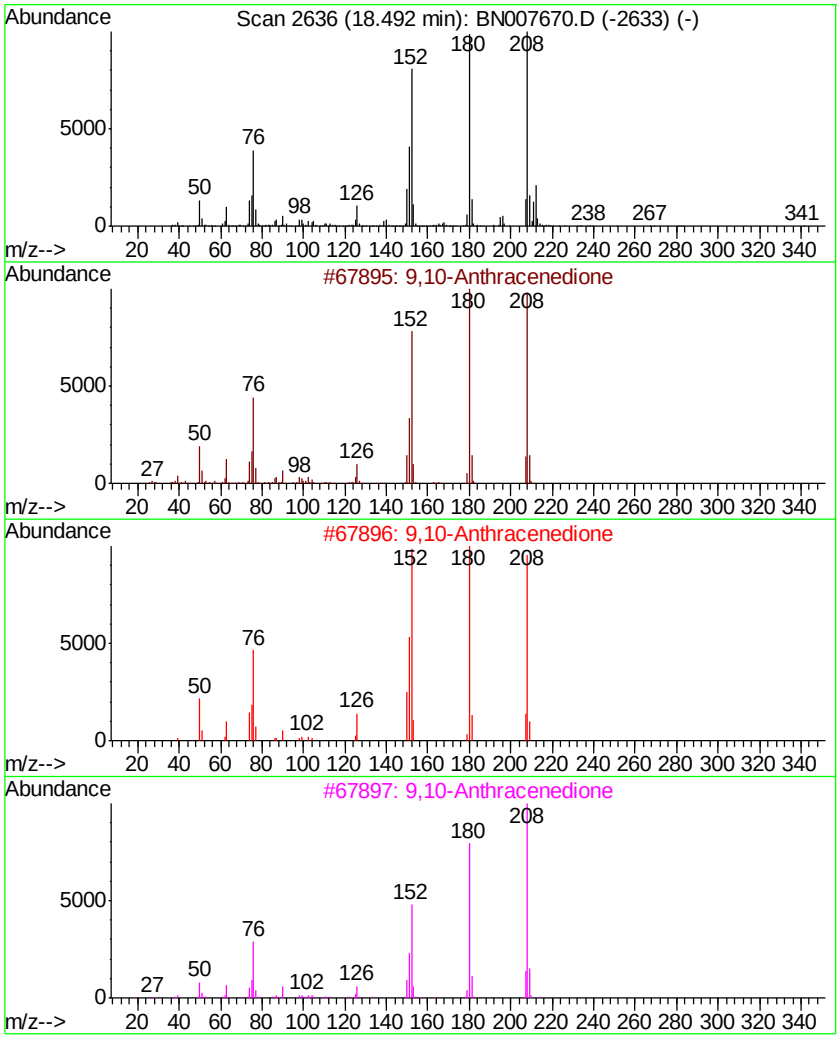
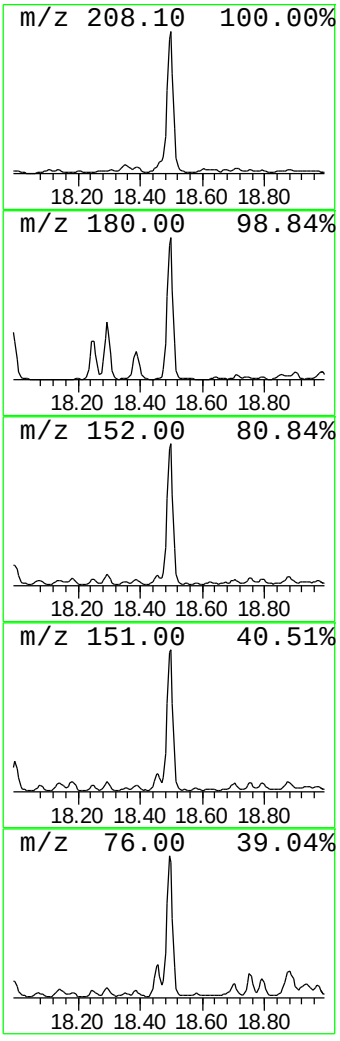
Peak Number 11 9,10-Anthracenedione Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	25.50 ng/ul	11162000	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	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	90
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60





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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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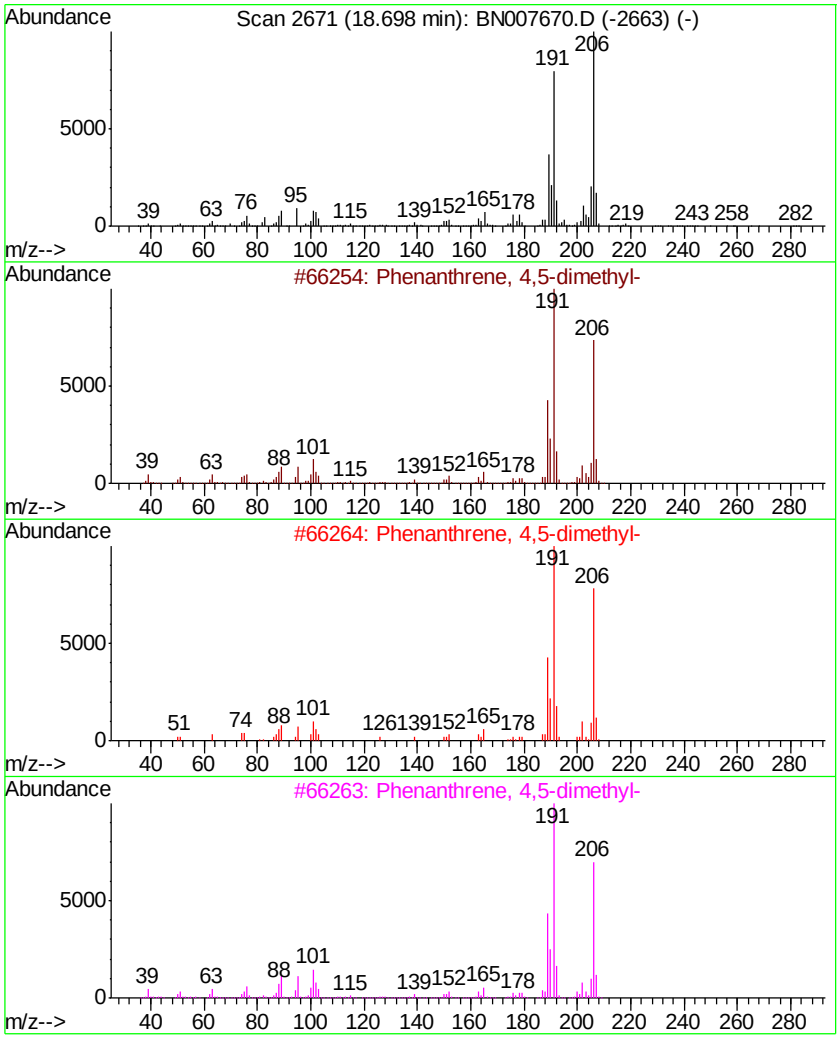
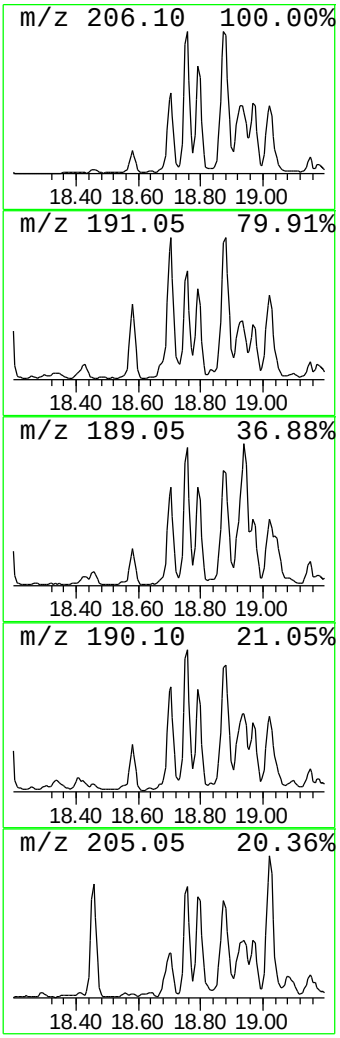
Peak Number 12 Phenanthrene, 4,5-dimethyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	13.97 ng/ul	6117320	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91





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Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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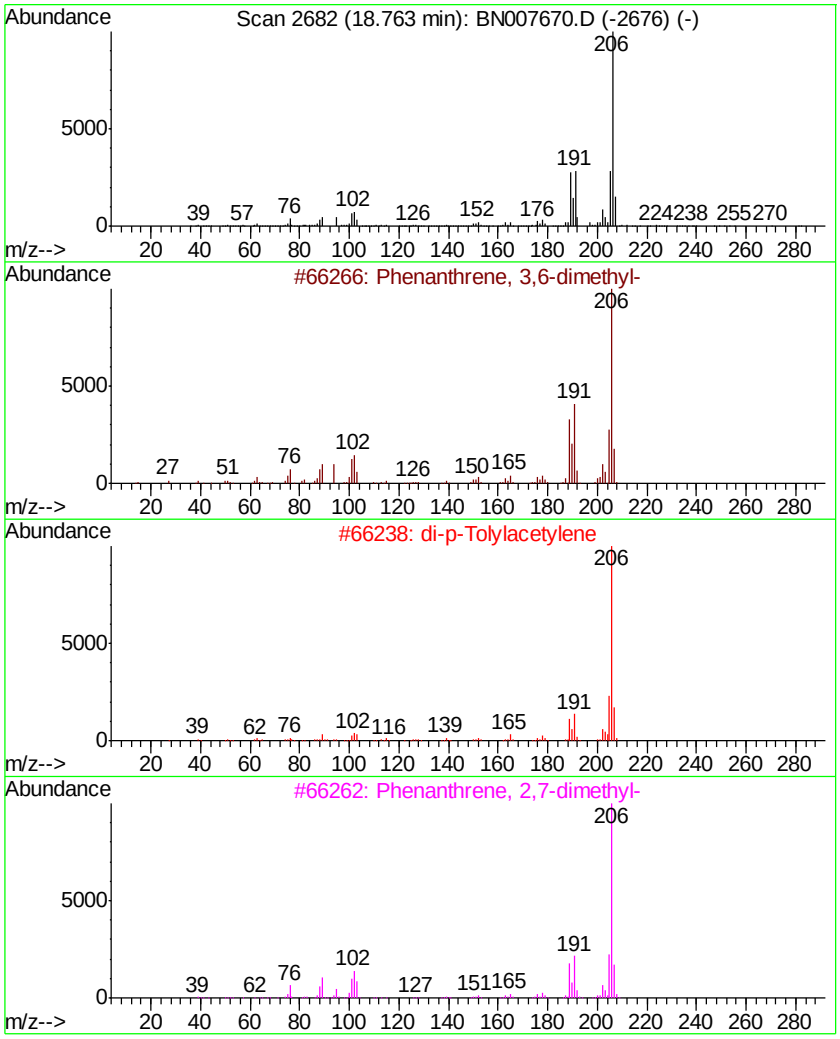
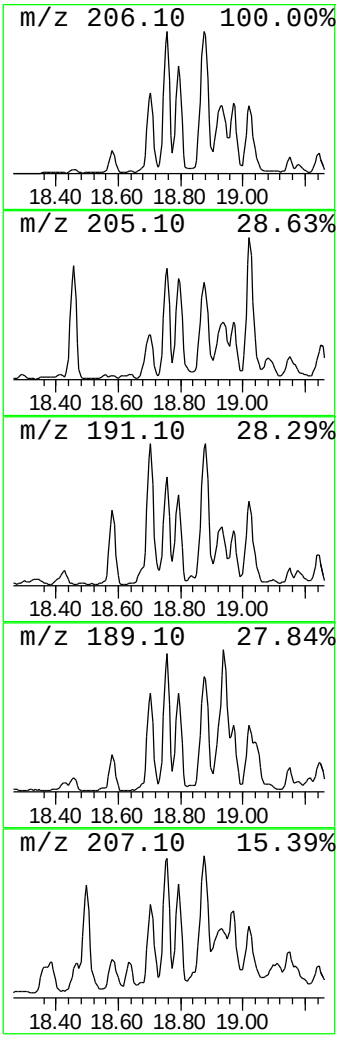
Peak Number 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.76	13.36 ng/ul	5846590	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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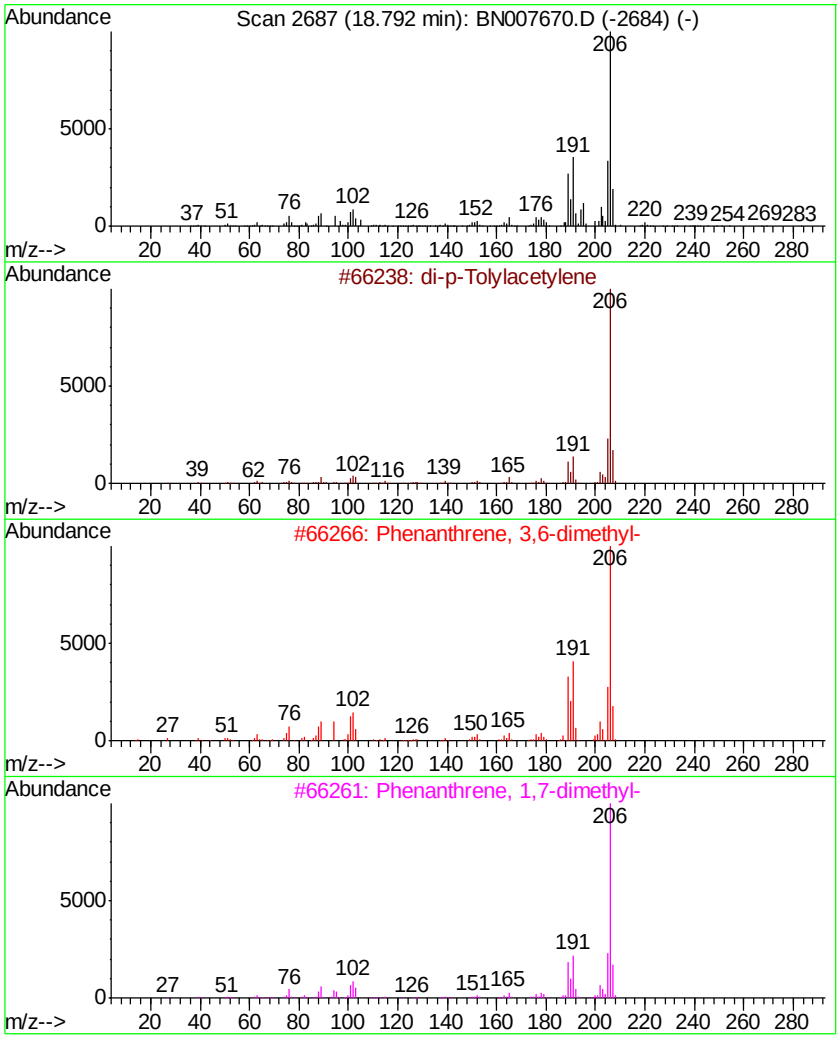
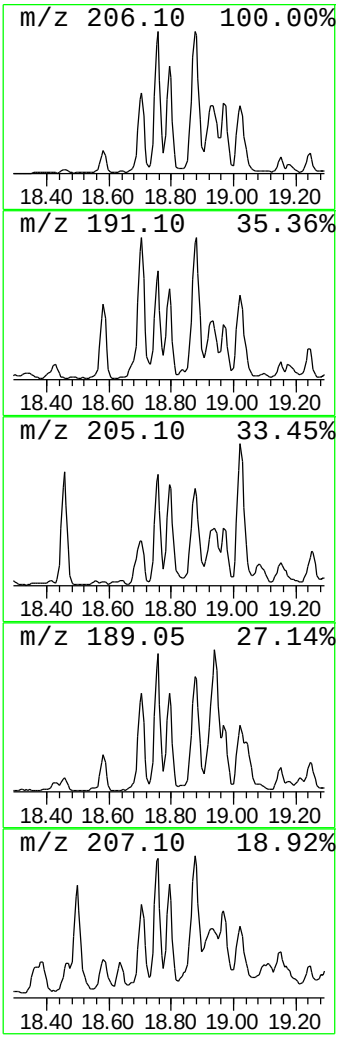
Peak Number 14 di-p-Tolylacetylene Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.79	12.54 ng/ul	5490700	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	95
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Quant Title : SVOA CALIBRATION

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

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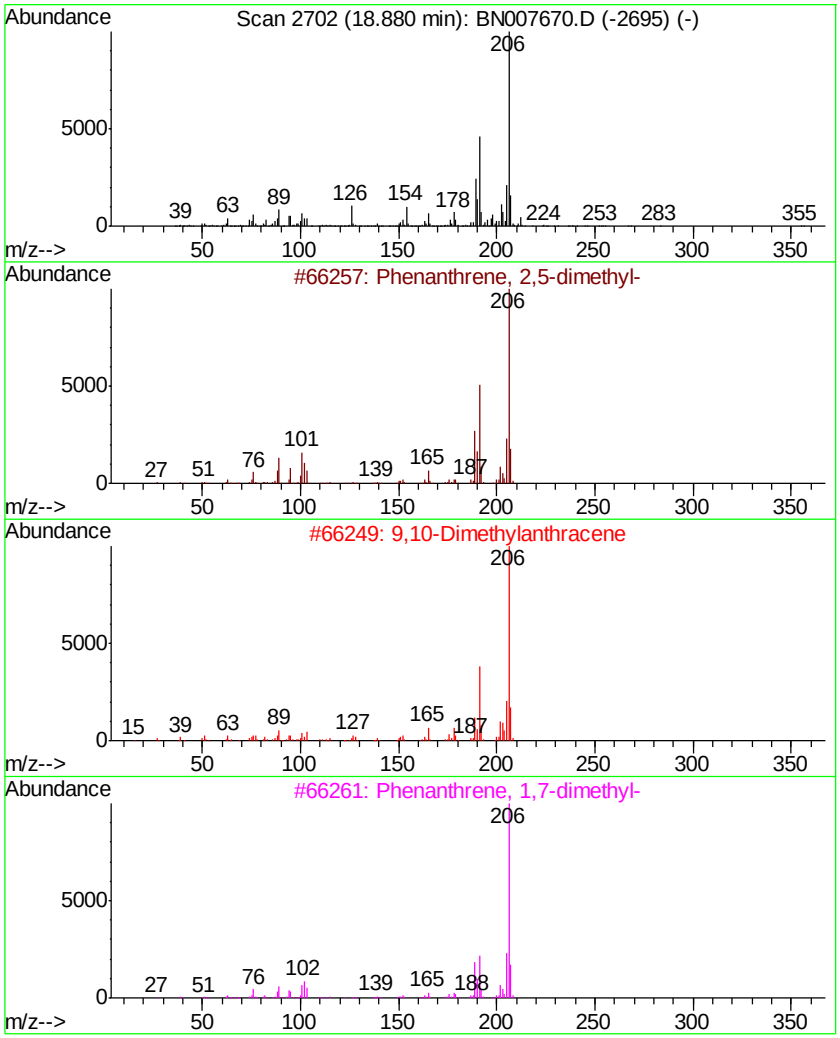
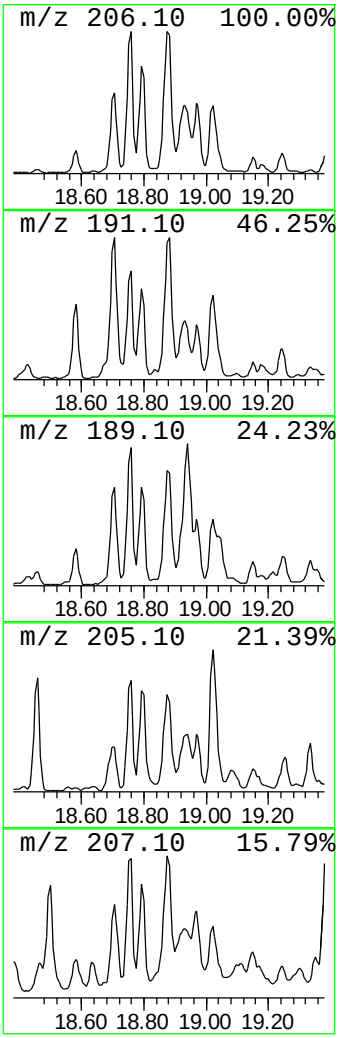
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.88	24.64 ng/ul	10787000	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	92
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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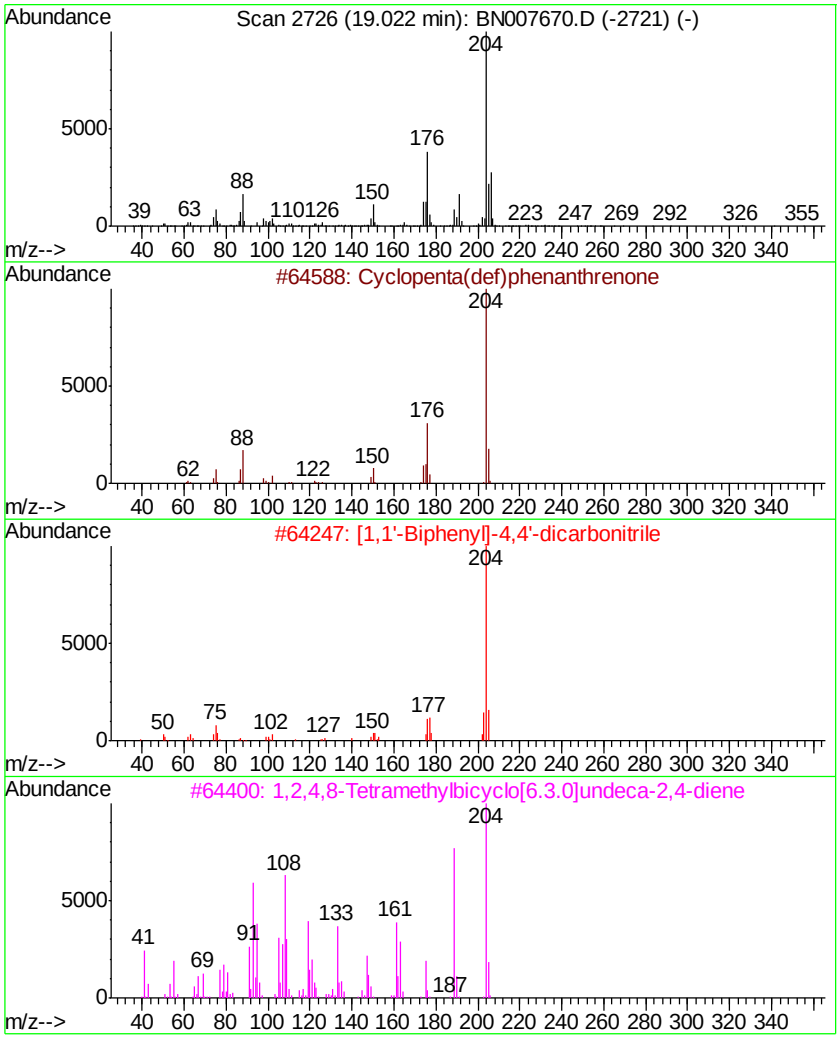
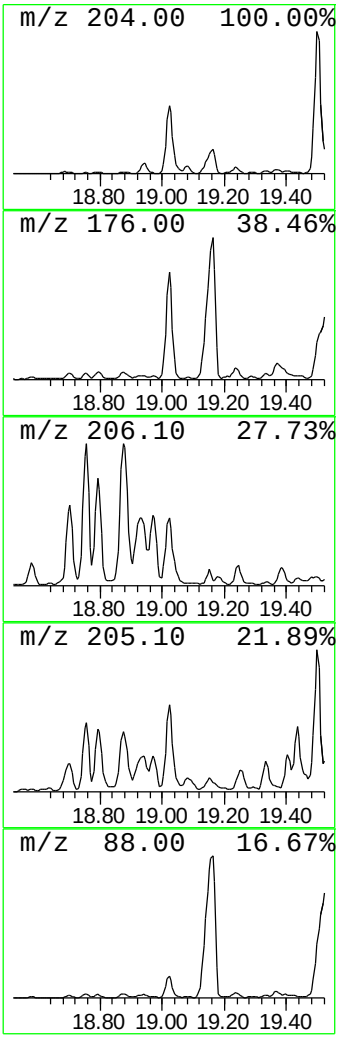
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.02	28.44 ng/ul	12451300	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	98
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	46
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43
4	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	43
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43





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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

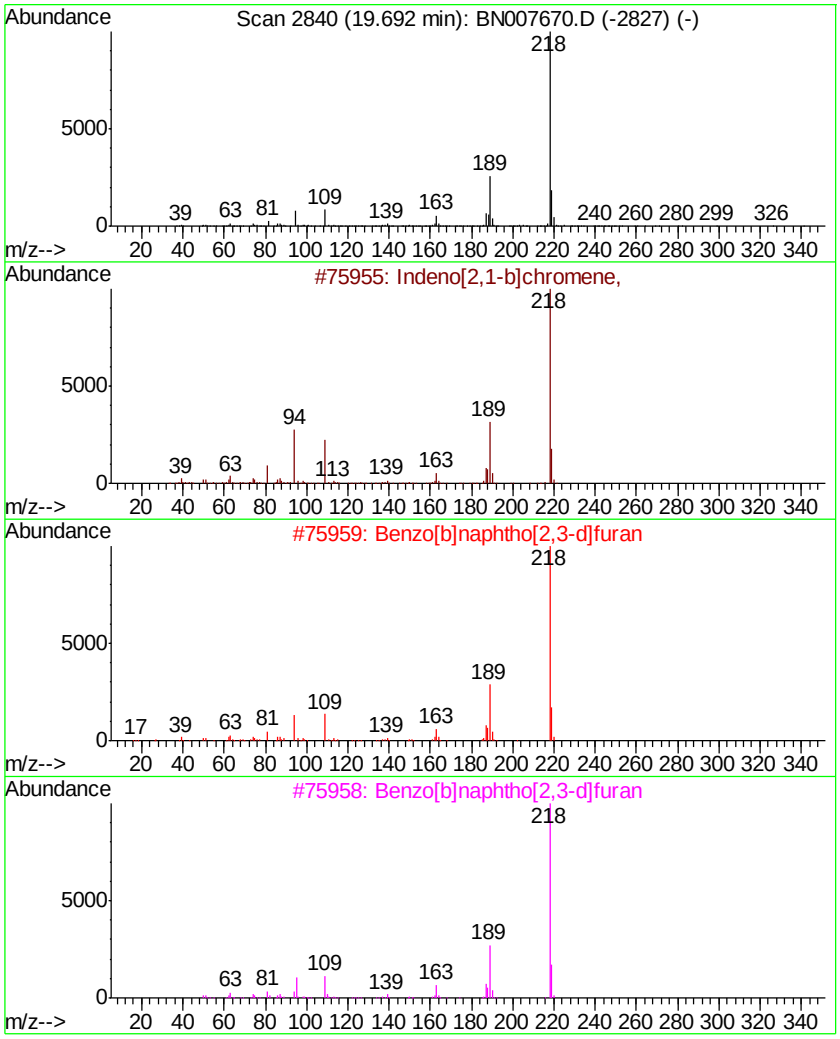
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

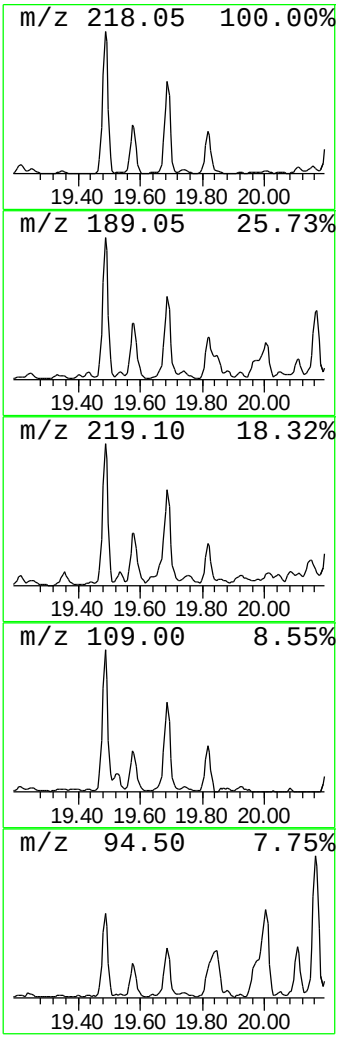
****

Peak Number 17 Indeno[2,1-b]chromene, Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.69	2.27 ng/ul	19130200	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-b]chromene,	218	C16H10O	000243-24-3	96
2	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	95
3	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	94
4	Benzo[kl]xanthene	218	C16H10O	000200-23-7	94
5	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	94





Library Search Compound Report

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Acq On : 16 Sep 2019 17:27
Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

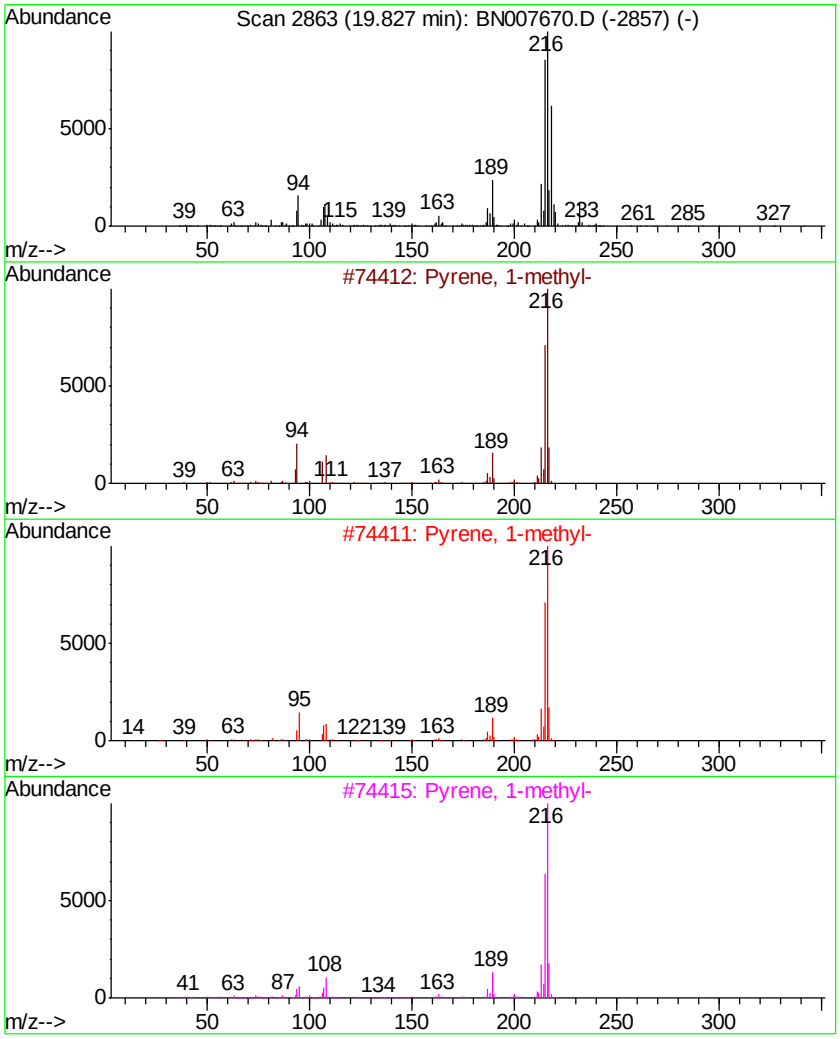
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

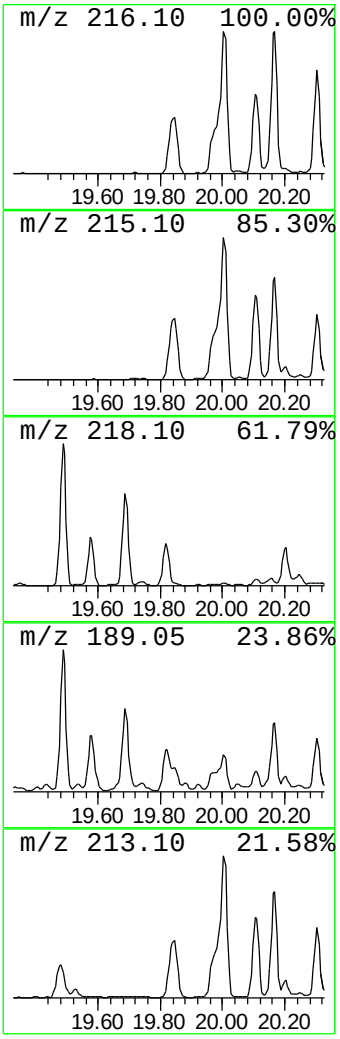
****

Peak Number 18 Pyrene, 1-methyl- Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.83	2.95 ng/ul	24843500	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93





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Acq On : 16 Sep 2019 17:27
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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

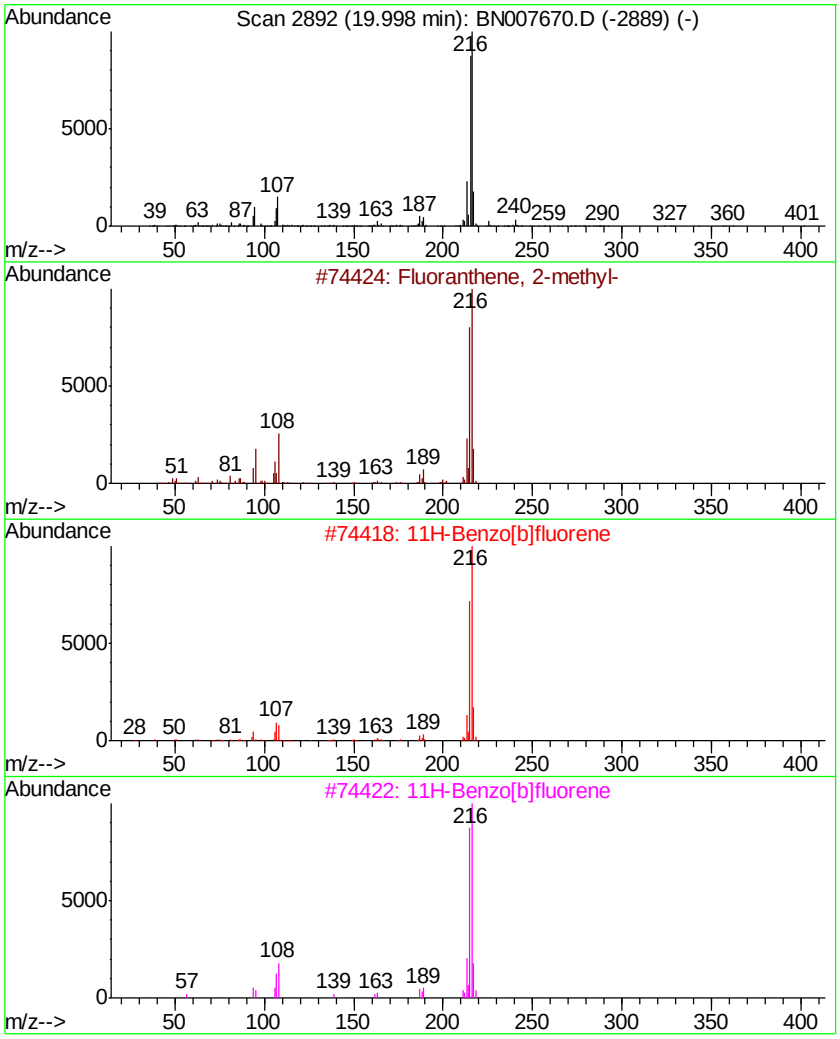
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

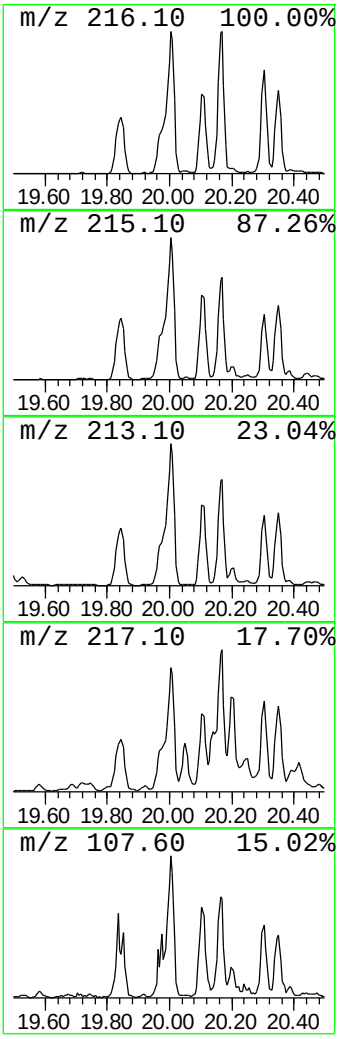
****

Peak Number 19 Fluoranthene, 2-methyl- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.00	3.99 ng/ul	33620400	Chrysene-d12	21.29

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





Library Search Compound Report

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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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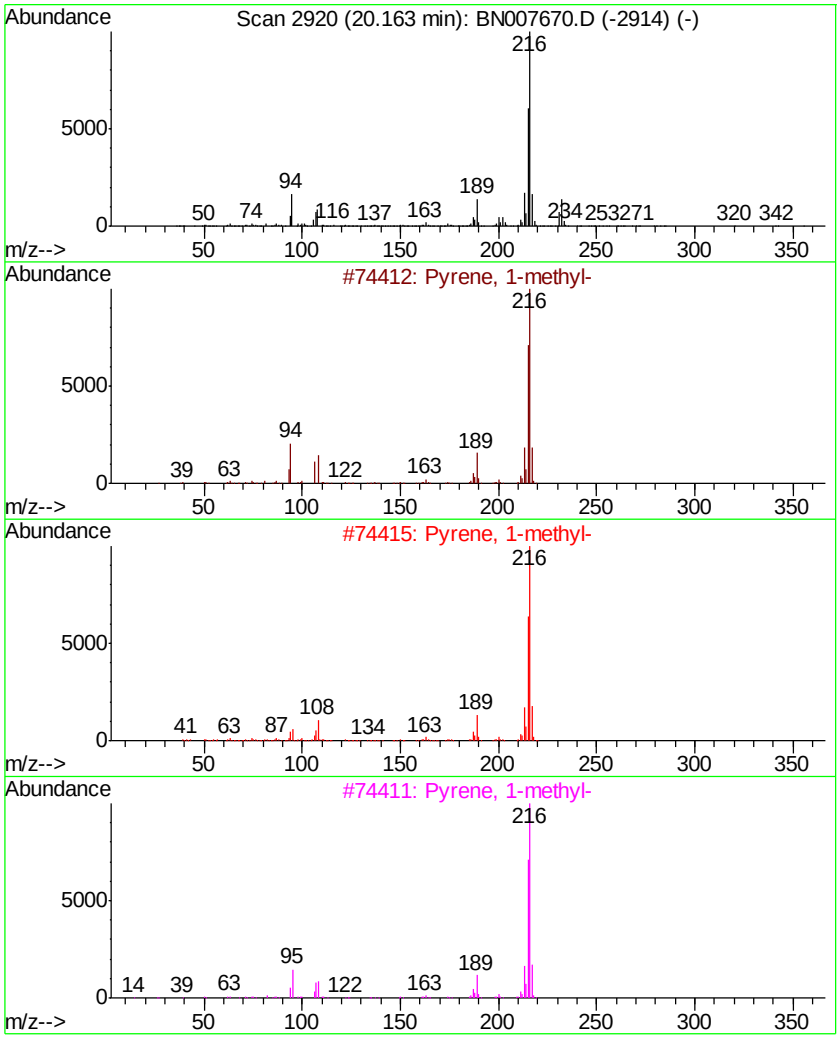
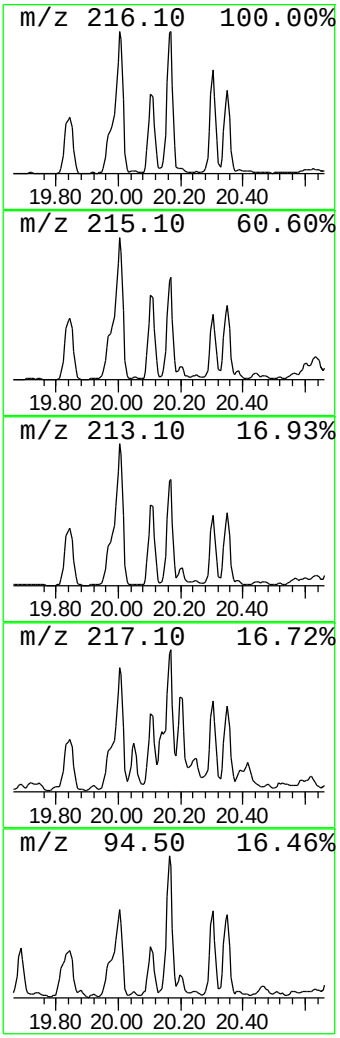
Peak Number 20 Pyrene, 4-methyl- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.16	4.15 ng/ul	34931600	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94





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Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

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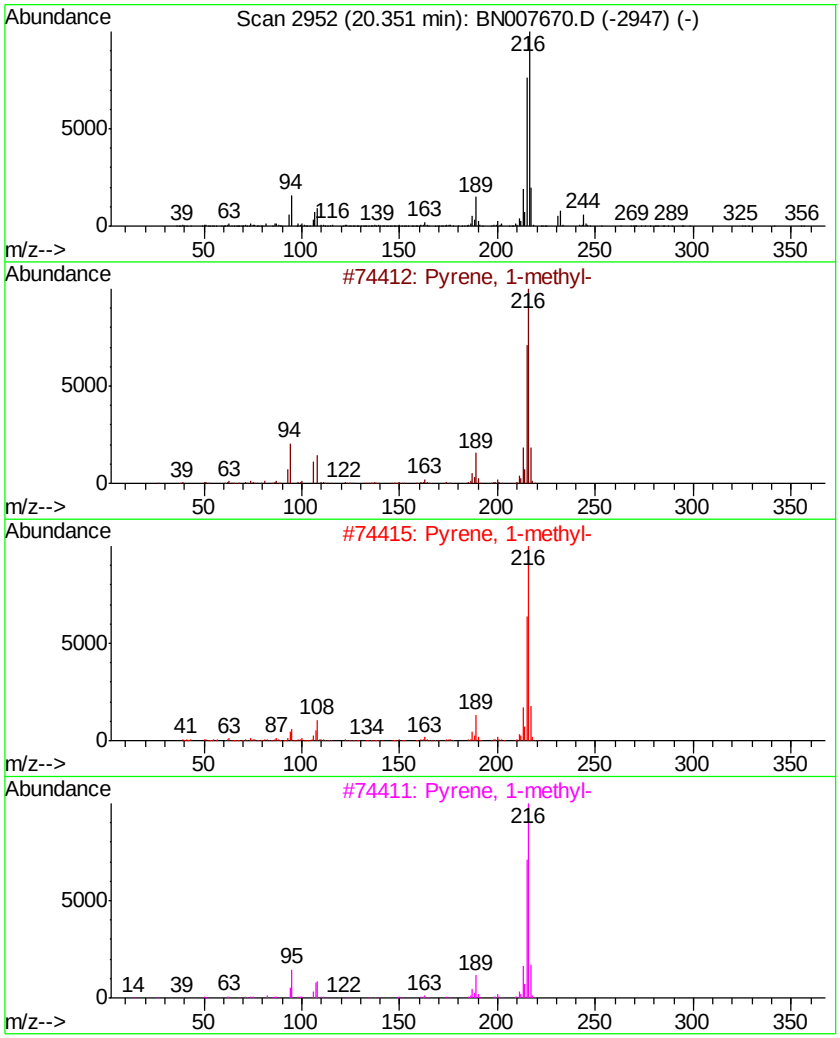
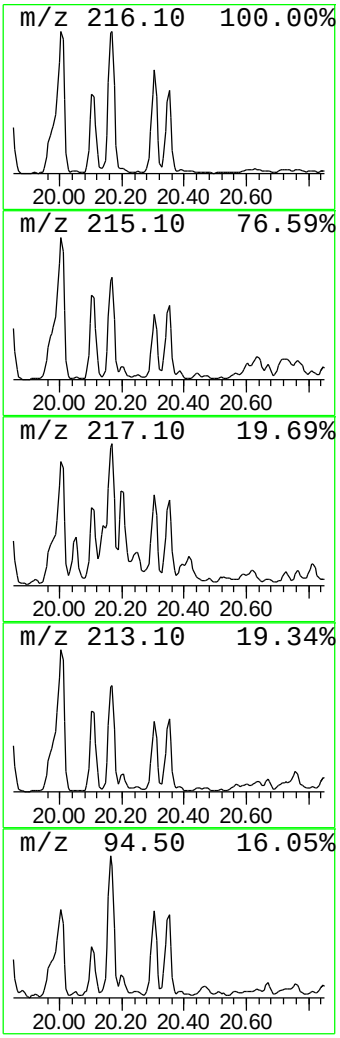
Peak Number 21 11H-Benzo[a]fluorene Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.35	2.10 ng/ul	17684600	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93





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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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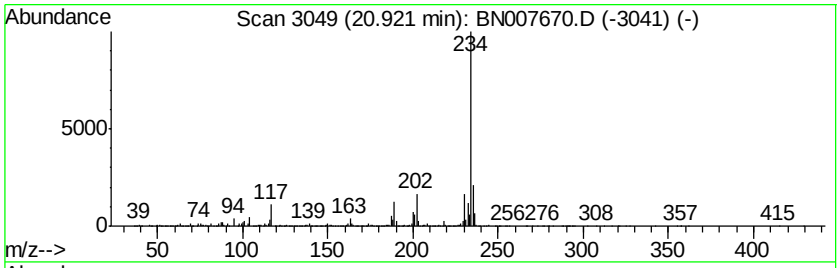
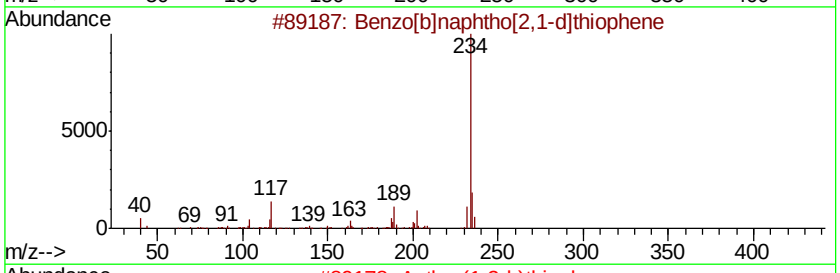
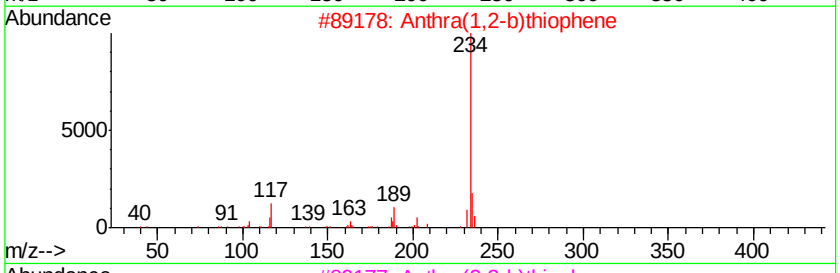
Peak Number 23 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 37

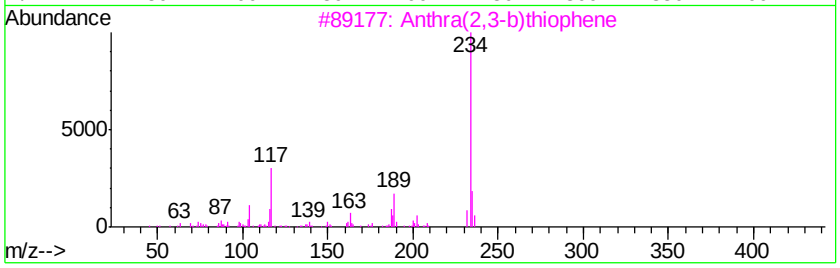
R.T.	EstConc	Area	Relative to ISTD	R.T.
20.92	6.18 ng/ul	52032300	Chrysene-d12	21.29

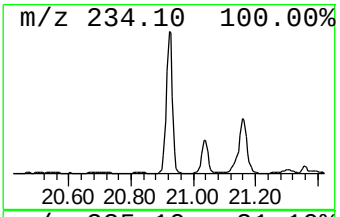
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	95
3	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	94
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93

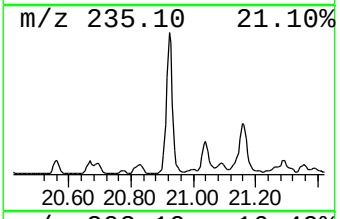


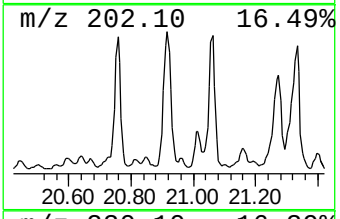


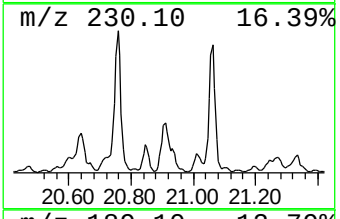


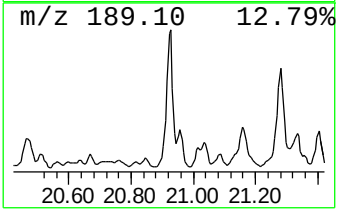












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Acq On : 16 Sep 2019 17:27
Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

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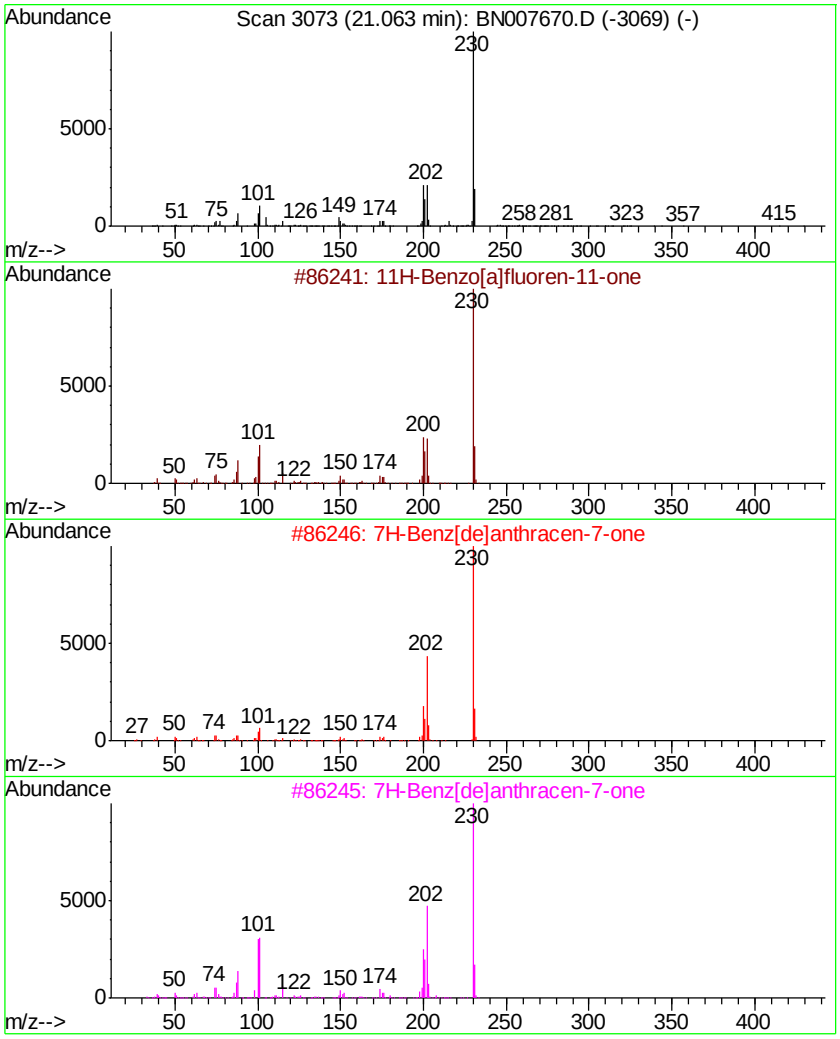
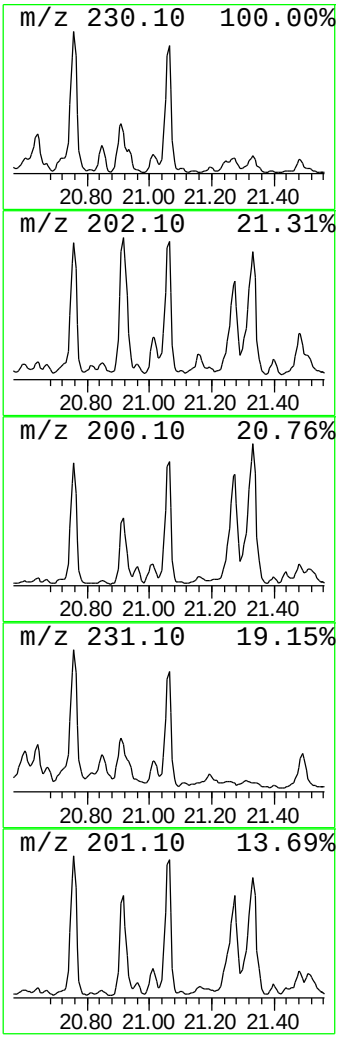
Peak Number 26 11H-Benzo[a]fluoren-11-one Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.06	3.61 ng/ul	30341300	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
5	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72





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Acq On : 16 Sep 2019 17:27
Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

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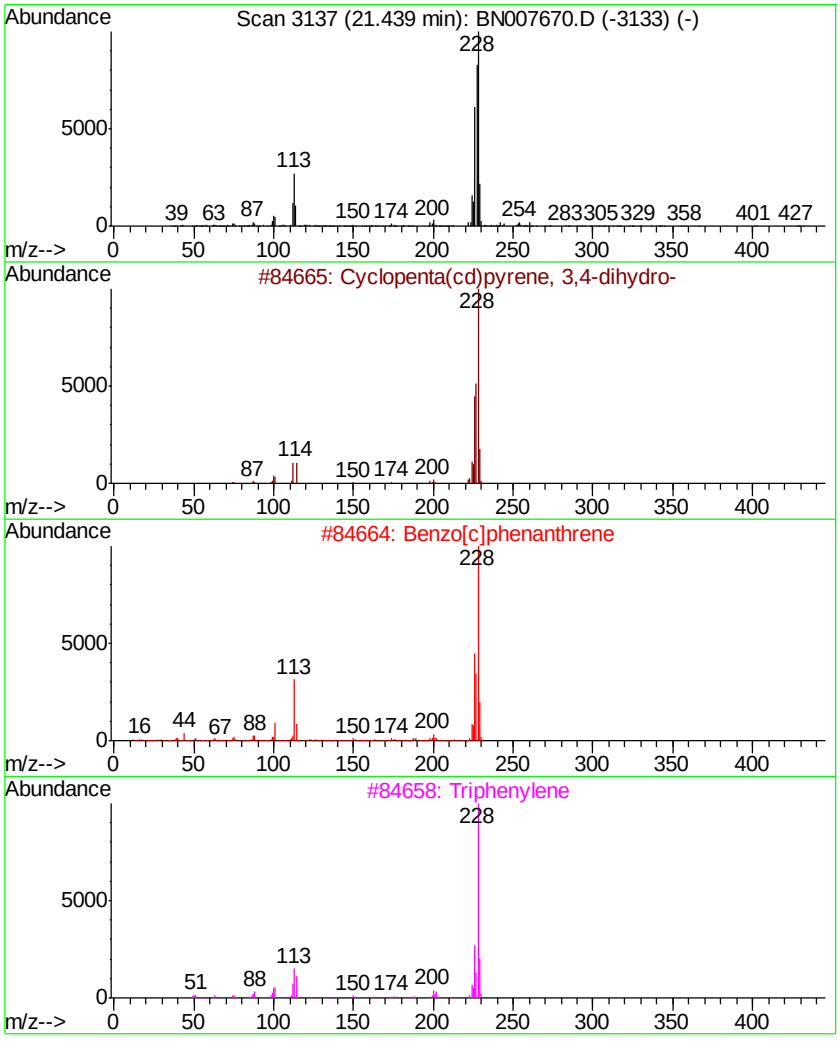
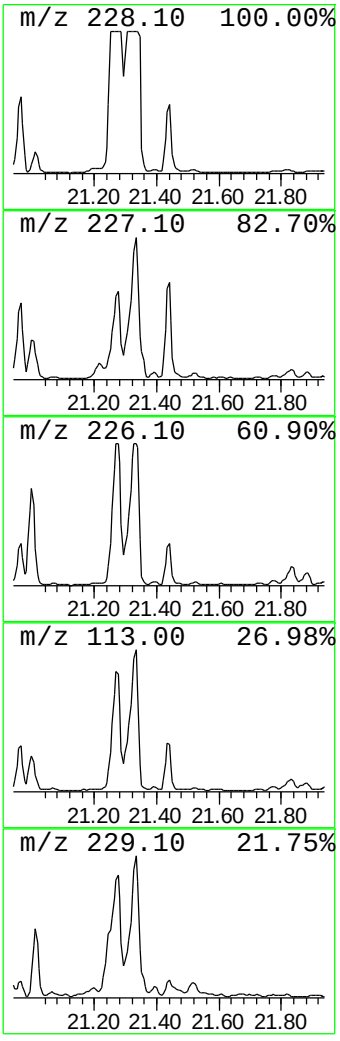
Peak Number 27 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.44	2.14 ng/ul	18010300	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	95
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
3	Triphenylene	228	C18H12	000217-59-4	50
4	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	50
5	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	49





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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

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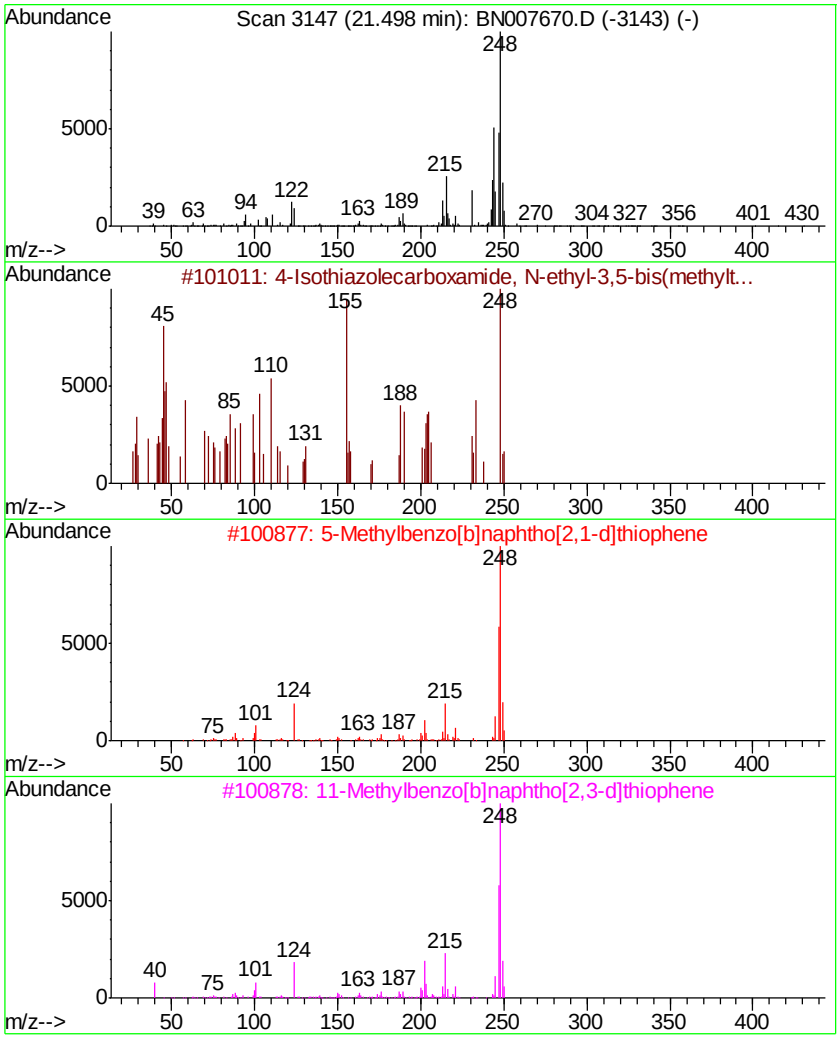
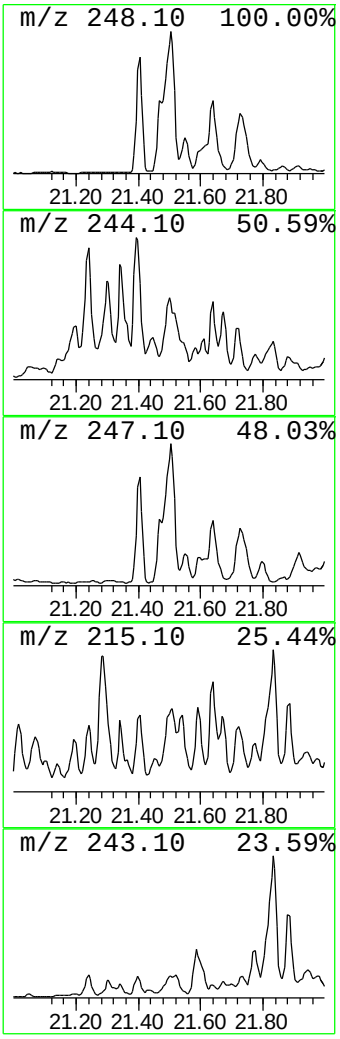
Peak Number 28 4-Isothiazolecarboxamide, N... Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.50	2.40 ng/ul	20225700	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Isothiazolecarboxamide, N-ethy...	248	C8H12N2OS3	037572-35-3	86
2	5-Methylbenzo[b]naphtho[2,1-d]th...	248	C17H12S	004567-49-1	81
3	11-Methylbenzo[b]naphtho[2,3-d]t...	248	C17H12S	079966-33-9	81
4	3-Methylphenanthro[9,10-b]thiophene	248	C17H12S	082420-70-0	76
5	2-Methylbenzo[b]naphtho[2,1-d]th...	248	C17H12S	1000326-06-8	58





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Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

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Quant Title : SVOA CALIBRATION

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

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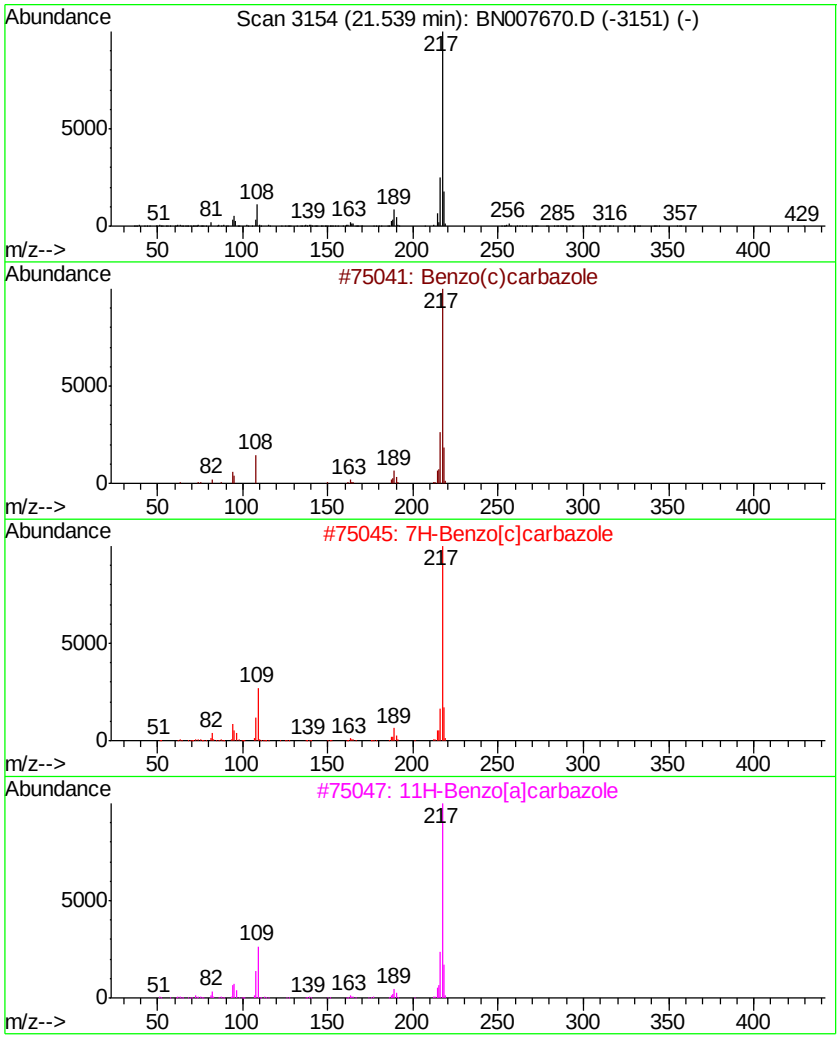
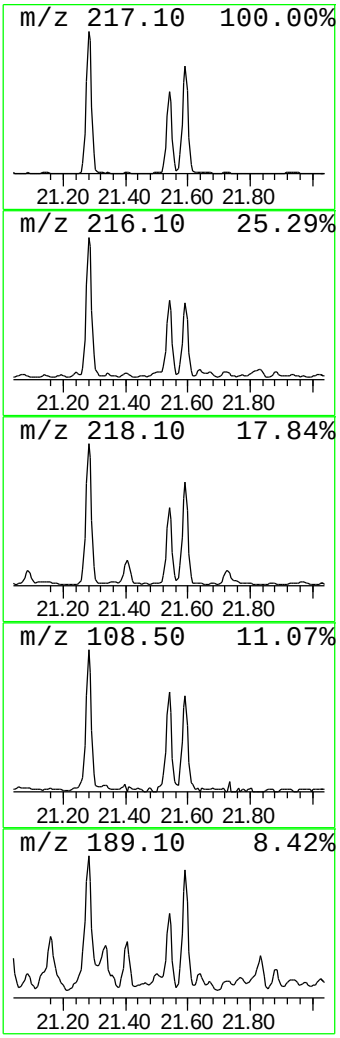
Peak Number 29 Benzo(c)carbazole Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.54	2.06 ng/ul	17332600	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(c)carbazole	217	C16H11N	034777-33-8	94
2	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	90
3	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	90
4	Benzo(b)carbazole	217	C16H11N	000243-28-7	90
5	11H-Indeno(1,2-b)quinoline	217	C16H11N	000243-51-6	87





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Quant Title : SVOA CALIBRATION

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

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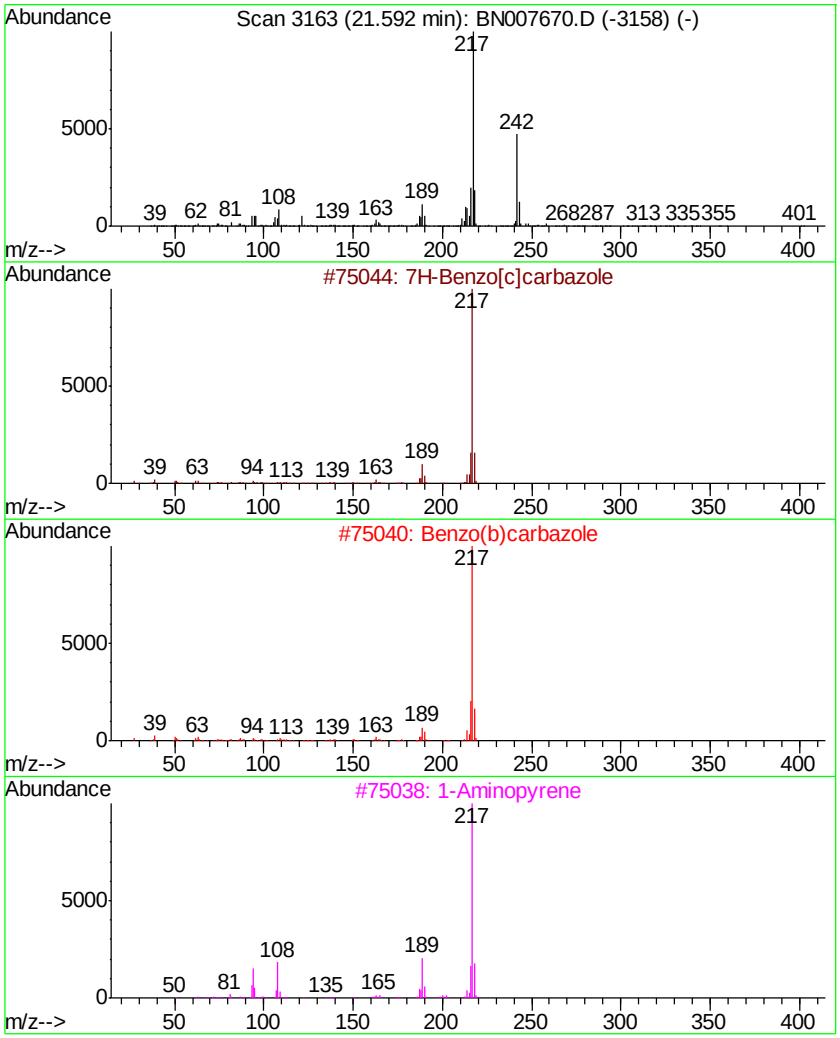
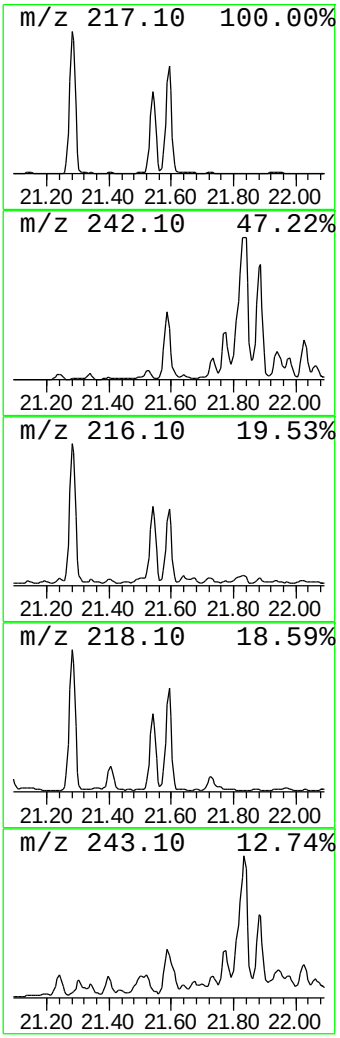
Peak Number 30 7H-Benzo[c]carbazole Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.59	3.94 ng/ul	33199300	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	50
2	Benzo(b)carbazole	217	C16H11N	000243-28-7	50
3	1-Aminopyrene	217	C16H11N	001606-67-3	46
4	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	45
5	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	45





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN091619\
Data File : BN007670.D
Acq On : 16 Sep 2019 17:27
Operator : HP/JU
Sample : K4634-09ME
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D27ME

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	3.02	94.3	ng/ul	17968900	1	7.70	3810140	20.0
9H-Fluoren-9-one	16.73	13.6	ng/ul	5961260	4	17.07	8755630	20.0
Anthracene, 1,2,3...	16.83	9.9	ng/ul	4350530	4	17.07	8755630	20.0
Dibenzothiophene	16.89	13.3	ng/ul	5823180	4	17.07	8755630	20.0
Phenanthrene, 2-m...	17.95	33.2	ng/ul	14551500	4	17.07	8755630	20.0
Phenanthrene, 1-m...	18.00	48.4	ng/ul	21173400	4	17.07	8755630	20.0
1H-Cyclopropa[l]p...	18.08	12.8	ng/ul	5617870	4	17.07	8755630	20.0
4H-Cyclopenta[def...	18.15	48.6	ng/ul	21276200	4	17.07	8755630	20.0
Anthracene, 2-met...	18.18	15.7	ng/ul	6879710	4	17.07	8755630	20.0
Naphthalene, 2-ph...	18.46	22.1	ng/ul	9671270	4	17.07	8755630	20.0
9,10-Anthracenedione	18.49	25.5	ng/ul	11162000	4	17.07	8755630	20.0
Phenanthrene, 4,5...	18.70	14.0	ng/ul	6117320	4	17.07	8755630	20.0
Phenanthrene, 3,6...	18.76	13.4	ng/ul	5846590	4	17.07	8755630	20.0
di-p-Tolylacetylene	18.79	12.5	ng/ul	5490700	4	17.07	8755630	20.0
Phenanthrene, 2,5...	18.88	24.6	ng/ul	10787000	4	17.07	8755630	20.0
Cyclopenta(def)ph...	19.02	28.4	ng/ul	12451300	4	17.07	8755630	20.0
Indeno[2,1-b]chro...	19.69	2.3	ng/ul	19130200	5	21.29	168323000	20.0
Pyrene, 1-methyl-	19.83	3.0	ng/ul	24843500	5	21.29	168323000	20.0
Fluoranthene, 2-m...	20.00	4.0	ng/ul	33620400	5	21.29	168323000	20.0
Pyrene, 4-methyl-	20.16	4.2	ng/ul	34931600	5	21.29	168323000	20.0
11H-Benzo[a]fluorene	20.35	2.1	ng/ul	17684600	5	21.29	168323000	20.0
Benzo[b]naphtho[2...	20.92	6.2	ng/ul	52032300	5	21.29	168323000	20.0
11H-Benzo[a]fluor...	21.06	3.6	ng/ul	30341300	5	21.29	168323000	20.0
Cyclopenta(cd)pyr...	21.44	2.1	ng/ul	18010300	5	21.29	168323000	20.0
4-Isothiazolecarb...	21.50	2.4	ng/ul	20225700	5	21.29	168323000	20.0
Benzo(c)carbazole	21.54	2.1	ng/ul	17332600	5	21.29	168323000	20.0
7H-Benzo[c]carbazole	21.59	3.9	ng/ul	33199300	5	21.29	168323000	20.0