LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

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_G\METHODS\SOM-EPA-BG081320PAH.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	3.141	4	9	22	rVB	292814	448704	11.05%	1.029%
2	7.941	818	826	840	rBV	273220	478745	11.79%	1.098%
3	8.652	939	947	957	rBV4	15025	30372	0.75%	0.070%
4	10.368	1233	1239	1251	rBV2	15440	31146	0.77%	0.071%
5	10.738	1291	1302	1309	rBV	395955	721889	17.79%	1.656%
6	13.969	1844	1852	1857	rVV	43216	75174	1.85%	0.172%
7	14.257	1895	1901	1905	rBV	51550	92451	2.28%	0.212%
8	14.292	1905	1907	1916	rVB2	23795	36971	0.91%	0.085%
9	14.568	1946	1954	1960	rBV	676165	1064846	26.23%	2.443%
10	14.633	1960	1965	1972	rVV	44588	72077	1.78%	0.165%
11	14.968	2014	2022	2030	rVV	53047	86413	2.13%	0.198%
12	15.561	2114	2123	2127	rVV	74863	119674	2.95%	0.275%
13	15.614	2127	2132	2139	rVB3	70067	105648	2.60%	0.242%
14	15.908	2177	2182	2191	rVB	37513	62466	1.54%	0.143%
15	16.055	2202	2207	2215	rVV2	36362	76922	1.90%	0.176%
16	16.284	2238	2246	2253	rBV9	13314	31110	0.77%	0.071%
17	16.625	2300	2304	2308	rVB3	20123	31786	0.78%	0.073%
18	16.848	2333	2342	2346	rBV4	29596	56647	1.40%	0.130%
19	16.960	2357	2361	2369	rVB	134000	207546	5.11%	0.476%
20	17.042	2371	2375	2376	rBV	29647	34653	0.85%	0.080%
21	17.130	2385	2390	2399	rVB	82764	138638	3.42%	0.318%
22	17.312	2414	2421	2424	rBV	878829	1341234	33.04%	3.077%
23	17.353	2424	2428	2434	rVV	1588959	2389598	58.87%	5.483%
24	17.406	2434	2437	2440	rVV2	117004	179298	4.42%	0.411%
25	17.442	2440	2443	2449	rVV	212306	298161	7.35%	0.684%
26	17.500	2449	2453	2460	rVB2	34021	55040	1.36%	0.126%
27	17.706	2479	2488	2493	rBV2	146374	279329	6.88%	0.641%
28	17.829	2505	2509	2514	rVB2	33637	44165	1.09%	0.101%
29	17.888	2515	2519	2524	rBV2	46300	64583	1.59%	0.148%
30	18.035	2540	2544	2548	rVB2	18778	28992	0.71%	0.067%
31	18.106	2552	2556	2560	rBV2	22934	30628	0.75%	0.070%
32	18.188	2560	2570	2574	rBV	244737	382346	9.42%	0.877%
33	18.235	2574	2578	2585	rVB	333035	493665	12.16%	1.133%
34	18.311	2585	2591	2596	rBV	78638	122516	3.02%	0.281%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

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_G\METHODS\SOM-EPA-BG081320PAH.M
Title : SVOA CALIBRATION

35	18.382	2596	2603	2606	rBV2	277135	518606	12.78%	1.190%
36	18.417	2606	2609	2616	rVB	169226	236726	5.83%	0.543%
37	18.529	2616	2628	2633	rBV5	50032	139565	3.44%	0.320%
38	18.576	2634	2636	2641	rVV5	18442	32291	0.80%	0.074%
39	18.681	2649	2654	2657	rVV	217935	310919	7.66%	0.713%
40	18.722	2657	2661	2668	rVV	227012	346159	8.53%	0.794%
41	18.811	2672	2676	2681	rBV2	24826	37949	0.93%	0.087%
42	18.928	2689	2696	2700	rBV2	73627	108241	2.67%	0.248%
43	18.981	2700	2705	2708	rVV	64852	83280	2.05%	0.191%
44	19.016	2708	2711	2716	rVB	59189	83474	2.06%	0.192%
45	19.098	2719	2725	2730	rBV	158815	270890	6.67%	0.622%
46	19.163	2730	2736	2739	rVV3	62023	138065	3.40%	0.317%
47	19.192	2739	2741	2744	rVB	50644	51513	1.27%	0.118%
48	19.239	2744	2749	2757	rVB	179086	289467	7.13%	0.664%
49	19.363	2764	2770	2776	rVB	2684795	3890041	95.84%	8.925%
50	19.427	2776	2781	2783	rBV	50157	63424	1.56%	0.146%
51	19.457	2783	2786	2791	rVB2	68942	99348	2.45%	0.228%
52	19.557	2798	2803	2806	rBV2	60019	98477	2.43%	0.226%
53	19.604	2807	2811	2815	rVB	80991	106857	2.63%	0.245%
54	19.692	2821	2826	2827	rBV	571451	668329	16.47%	1.533%
55	19.721	2827	2831	2839	rVV	2041014	3183206	78.42%	7.303%
56	19.792	2839	2843	2850	rVB2	125807	217652	5.36%	0.499%
57	19.898	2856	2861	2867	rBV	161242	249037	6.14%	0.571%
58	19.956	2867	2871	2877	rVB	120186	196280	4.84%	0.450%
59	20.050	2880	2887	2892	rBV2	187629	492409	12.13%	1.130%
60	20.180	2904	2909	2911	rBV3	123198	190517	4.69%	0.437%
61	20.215	2911	2915	2919	rVB	216790	328808	8.10%	0.754%
62	20.315	2928	2932	2935	rBV	64575	87541	2.16%	0.201%
63	20.373	2935	2942	2946	rBV2	227854	412689	10.17%	0.947%
64	20.409	2946	2948	2952	rVB	54961	60827	1.50%	0.140%
65	20.450	2952	2955	2961	rVB2	51959	67631	1.67%	0.155%
66	20.514	2961	2966	2969	rBV	115944	164463	4.05%	0.377%
67	20.556	2969	2973	2977	rVB2	118443	166730	4.11%	0.383%
68	20.767	3005	3009	3011	rBV3	42105	60364	1.49%	0.138%
69	20.802	3012	3015	3019	rVV4	51270	78599	1.94%	0.180%
70	20.843	3019	3022	3025	rVB2	25867	38320	0.94%	0.088%
71	20.967	3038	3043	3050	rVB	390810	569323	14.03%	1.306%

LSC Area Percent Report

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Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

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_G\METHODS\SOM-EPA-BG081320PAH.M
Title : SVOA CALIBRATION

72	21.143	3066	3073	3077	rBV2	240462	522305	12.87%	1.198%
73	21.190	3077	3081	3085	rVV	222476	349026	8.60%	0.801%
74	21.237	3085	3089	3094	rVV2	222447	437106	10.77%	1.003%
75	21.290	3094	3098	3107	rVB	345371	586138	14.44%	1.345%
76	21.419	3116	3120	3126	rVB2	53400	94370	2.33%	0.217%
77	21.549	3130	3142	3148	rBV3	1504803	4058921	100.00%	9.313%
78	21.601	3148	3151	3164	rVB	1140452	1873949	46.17%	4.300%
79	21.754	3172	3177	3183	rBV	88910	180054	4.44%	0.413%
80	21.948	3205	3210	3217	rBV2	142584	274509	6.76%	0.630%
81	22.013	3218	3221	3226	rVV5	41543	67390	1.66%	0.155%
82	22.142	3241	3243	3248	rVB2	35156	46118	1.14%	0.106%
83	22.195	3248	3252	3256	rBV	43514	72056	1.78%	0.165%
84	22.265	3257	3264	3270	rVV	190612	408936	10.07%	0.938%
85	22.336	3271	3276	3284	rVB2	130151	262393	6.46%	0.602%
86	22.536	3304	3310	3313	rBV2	82610	151358	3.73%	0.347%
87	22.671	3328	3333	3340	rVB3	62805	133293	3.28%	0.306%
88	23.294	3435	3439	3442	rBV2	43507	78135	1.93%	0.179%
89	23.687	3495	3506	3513	rBV	761292	2579766	63.56%	5.919%
90	23.811	3523	3527	3531	rVB2	47914	71371	1.76%	0.164%
91	23.928	3541	3547	3556	rVB2	120799	285331	7.03%	0.655%
92	24.134	3576	3582	3586	rBV4	47398	124130	3.06%	0.285%
93	24.381	3616	3624	3632	rBV	350913	908944	22.39%	2.085%
94	24.516	3639	3647	3661	rVB	576634	1529701	37.69%	3.510%
95	24.663	3663	3672	3679	rVV2	621351	1729264	42.60%	3.968%
96	24.727	3680	3683	3700	rVB3	202887	606820	14.95%	1.392%
97	25.808	3862	3867	3875	rVB4	64516	172188	4.24%	0.395%
98	27.107	4082	4088	4100	rVB9	58752	178361	4.39%	0.409%
99	28.182	4258	4271	4292	rVB4	264445	1303646	32.12%	2.991%
100	29.263	4443	4455	4469	rVB	148901	648200	15.97%	1.487%

Sum of corrected areas: 43585229

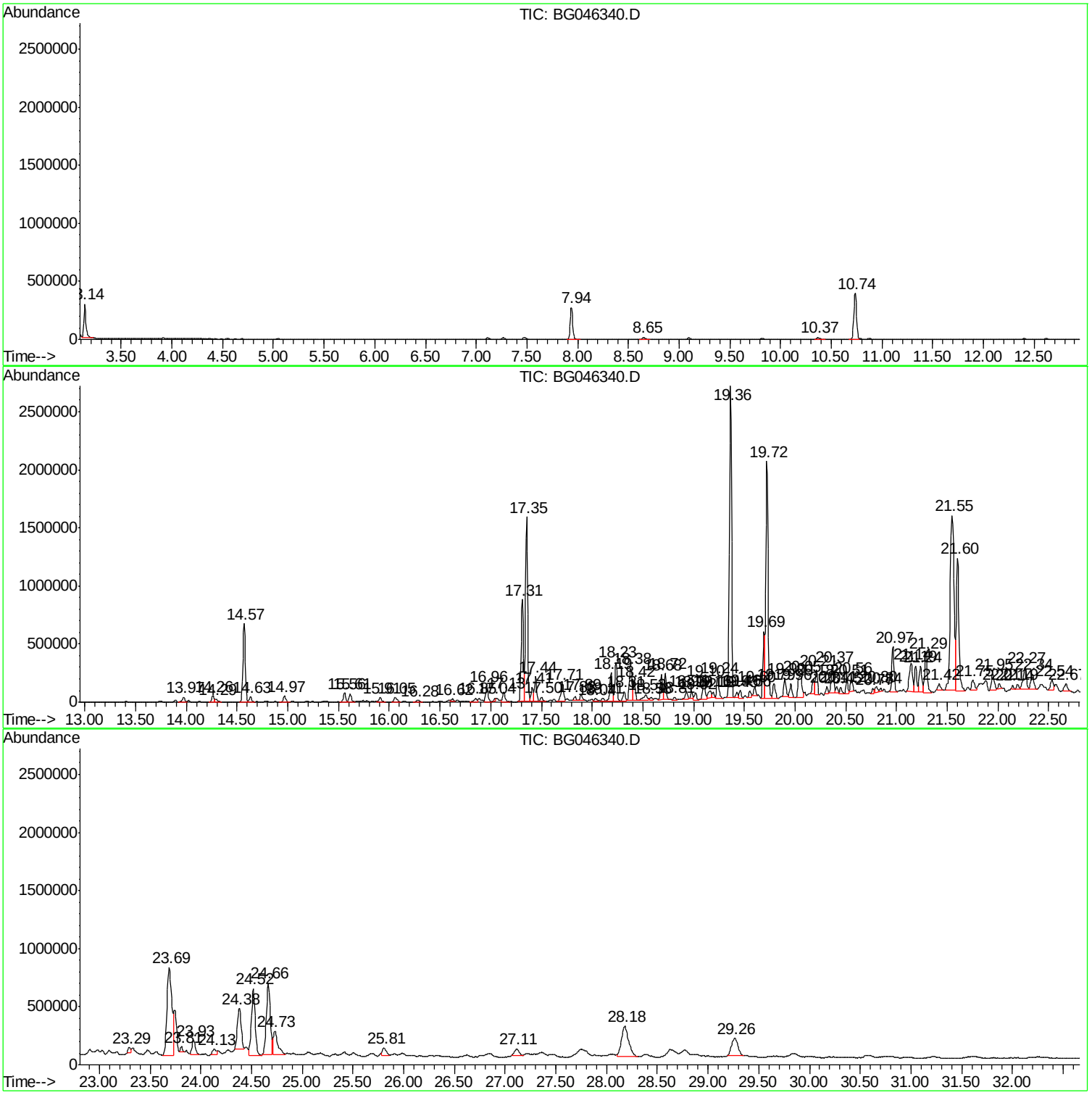
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

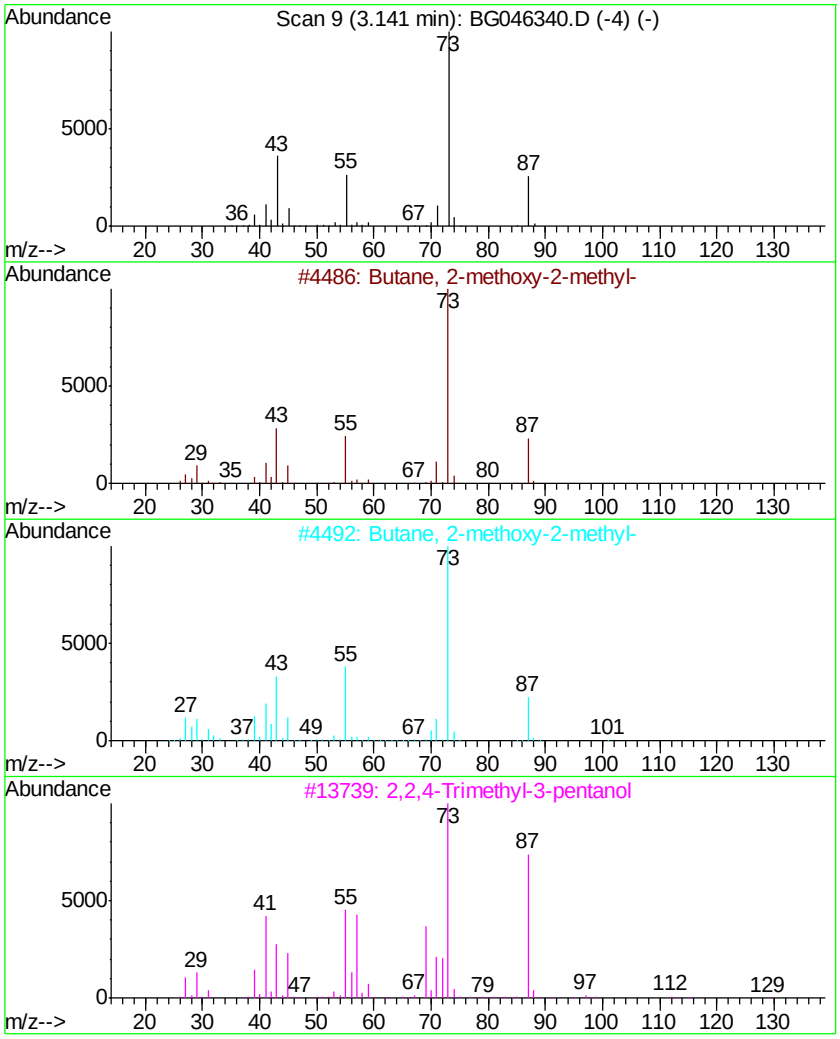
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

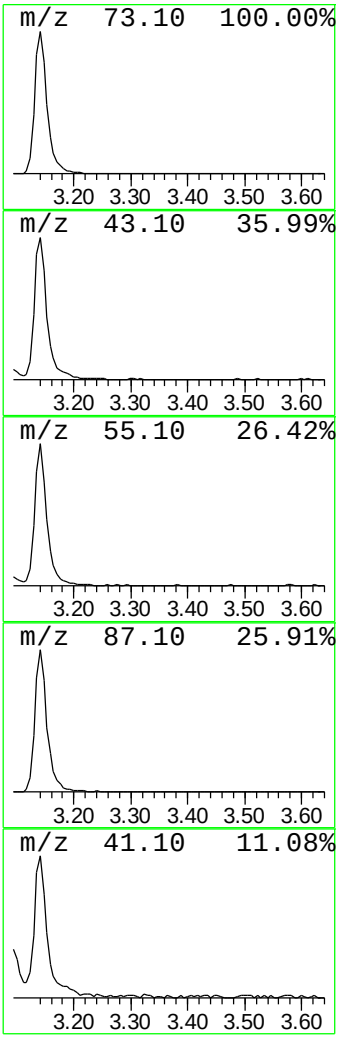
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.14	18.75 ng/ul	448704	1,4-Dichlorobenzene-d4	7.94

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	74
3	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
4	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

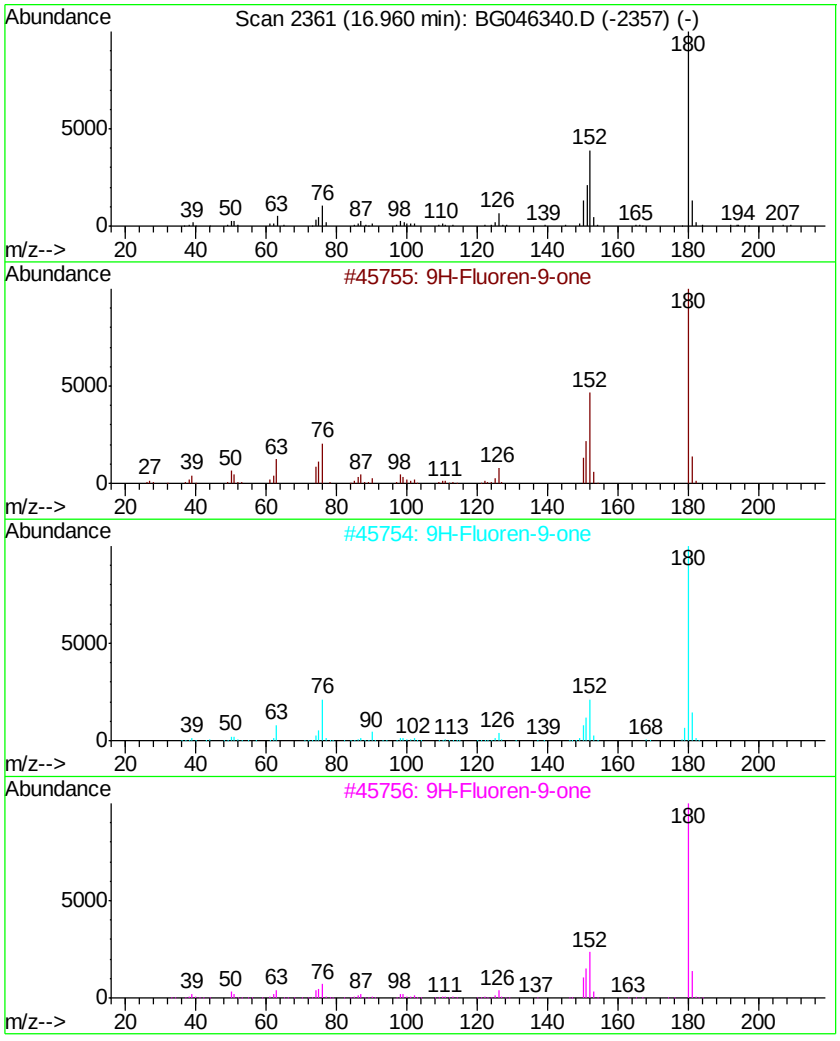
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

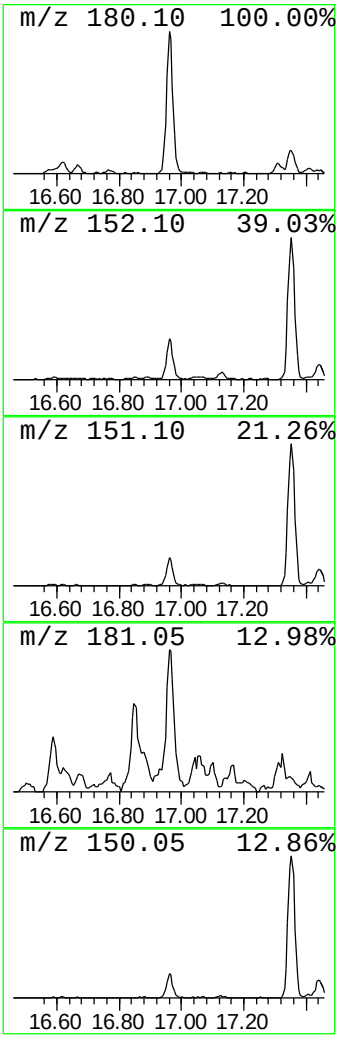
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.96	3.09 ng/ul	207546	Phenanthrene-d10	17.31

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	81
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	78





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

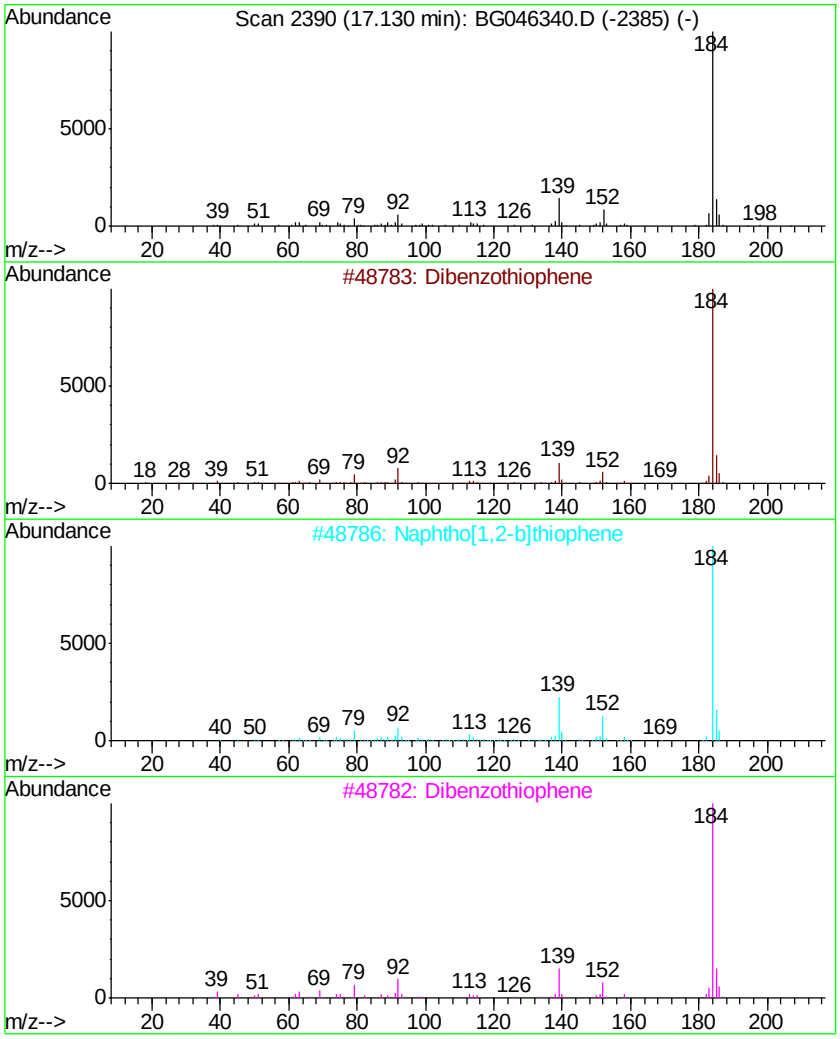
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

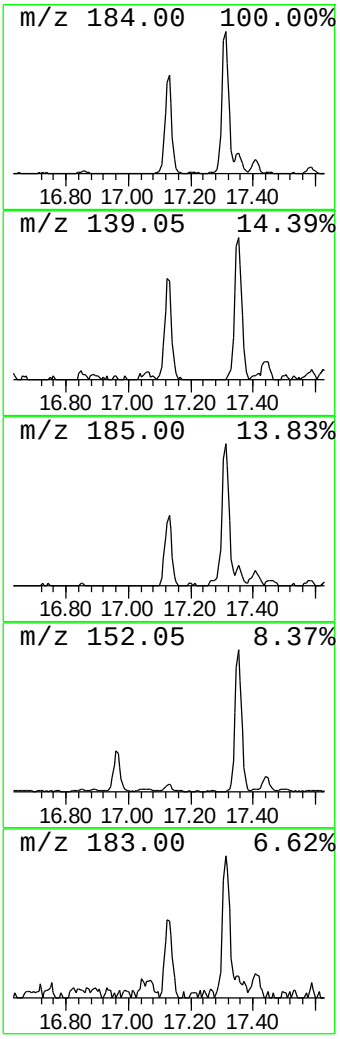
****

Peak Number 3 Dibenzothiophene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.13	2.07 ng/ul	138638	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Dibenzothiophene	184	C12H8S	000132-65-0	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

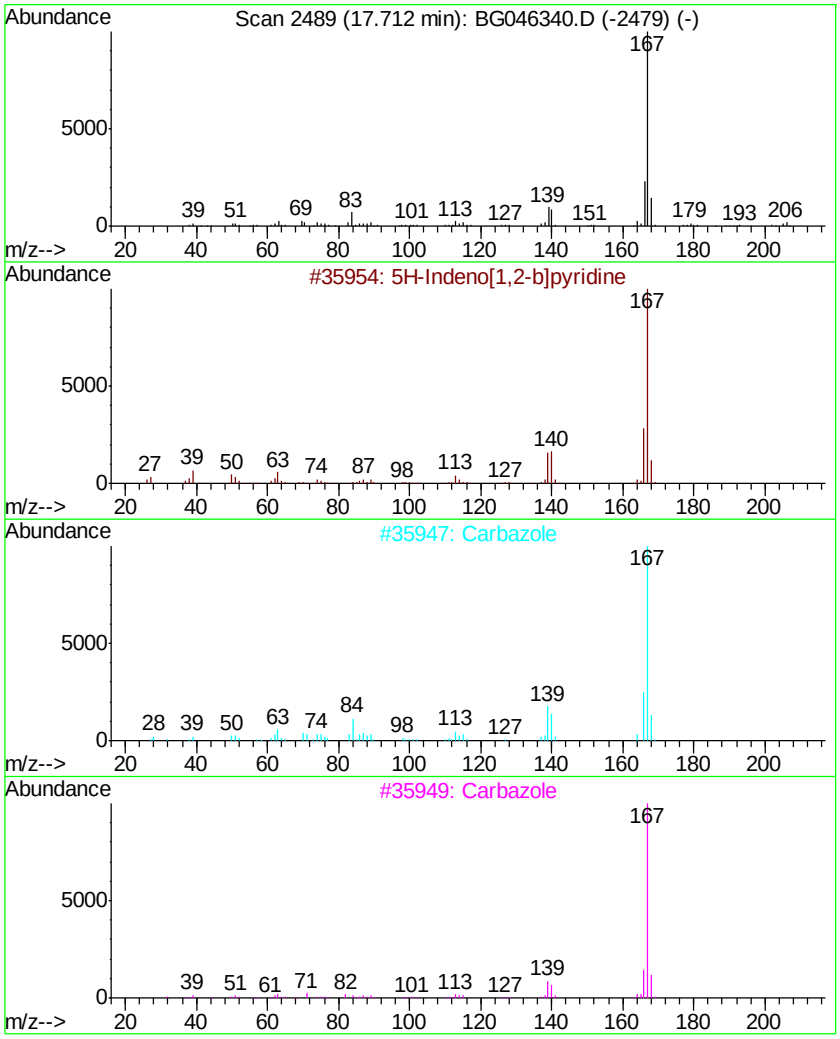
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

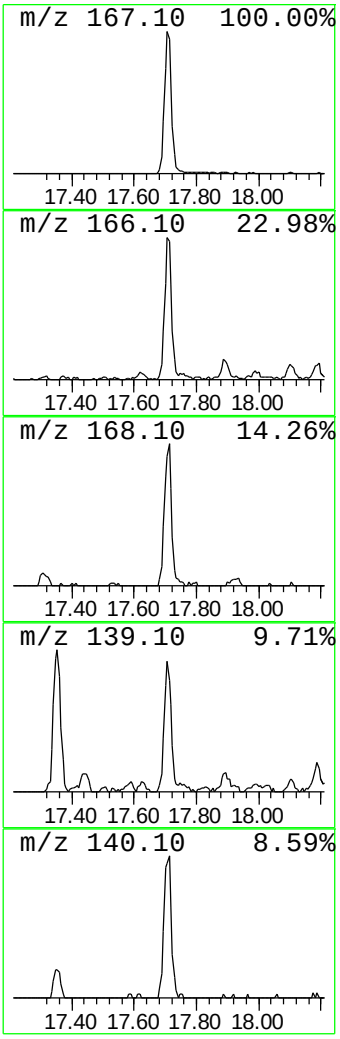
****

Peak Number 4 5H-Indeno[1,2-b]pyridine Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.71	4.17 ng/ul	279329	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	90
2	Carbazole	167	C12H9N	000086-74-8	90
3	Carbazole	167	C12H9N	000086-74-8	87
4	Carbazole	167	C12H9N	000086-74-8	87
5	9H-Carbazole, 9-nitroso-	196	C12H8N2O	002788-23-0	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

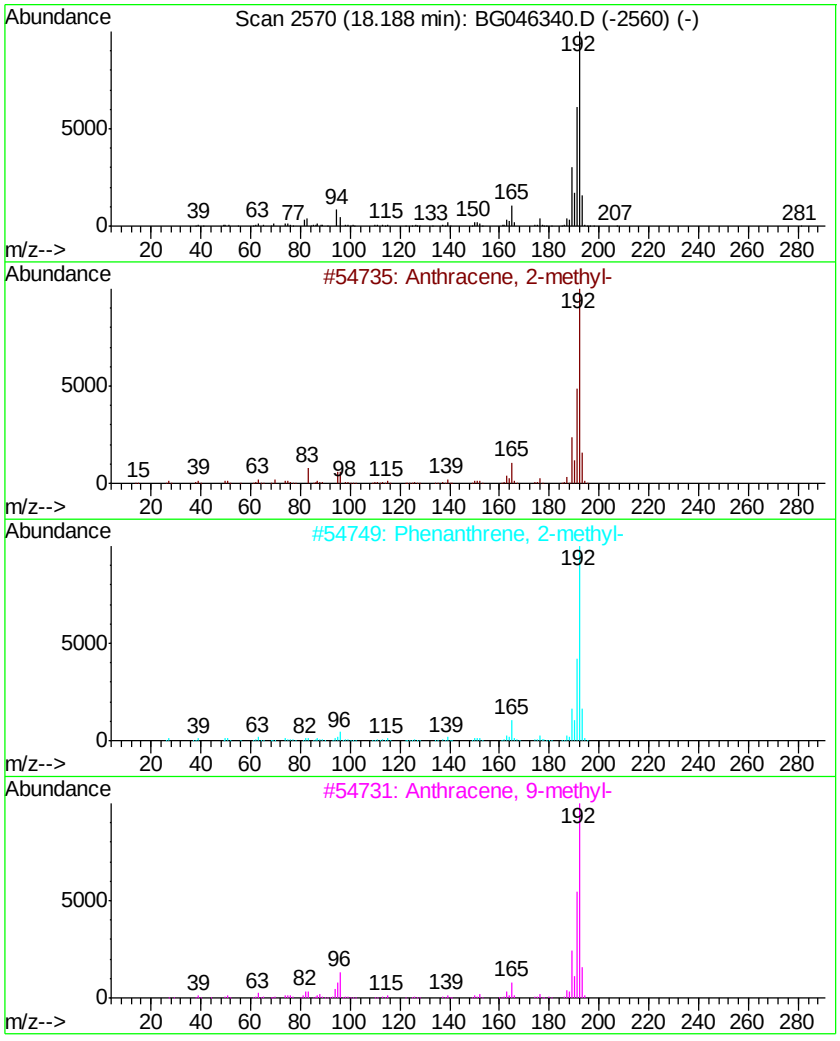
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

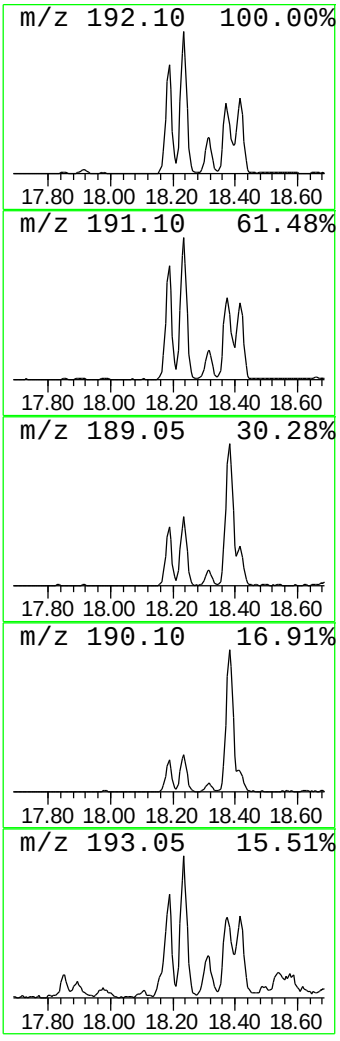
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	5.70 ng/ul	382346	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





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Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

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Quant Title : SVOA CALIBRATION

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

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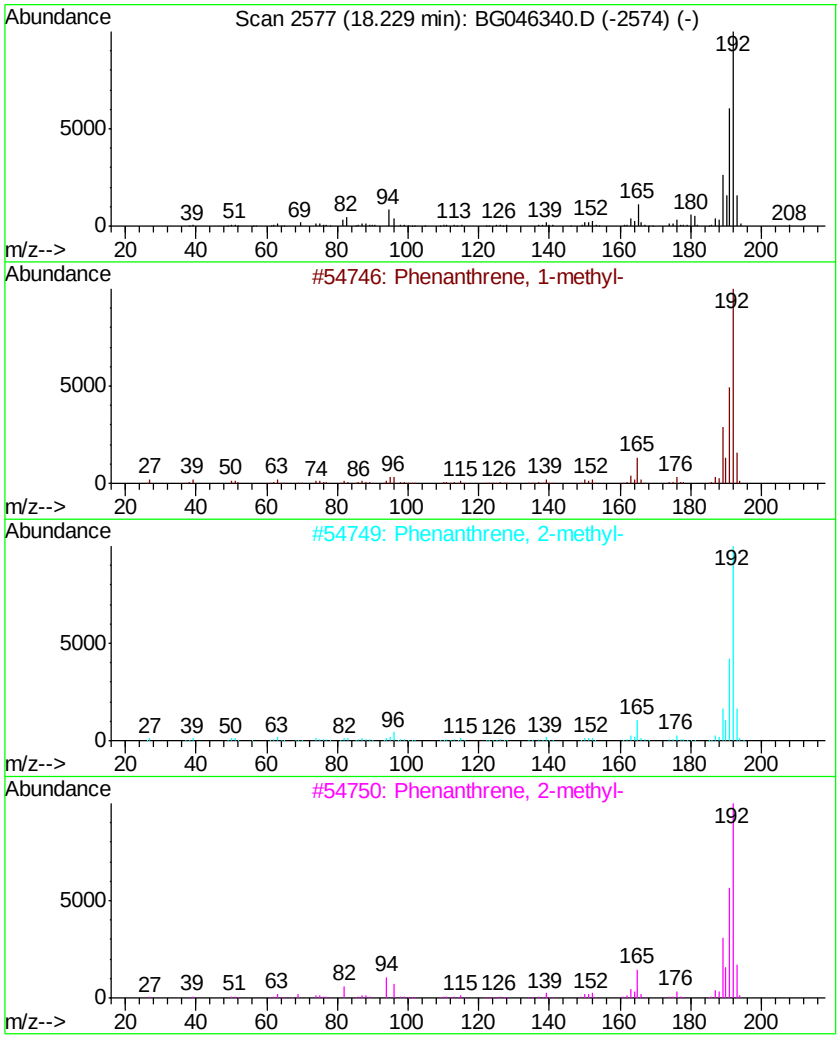
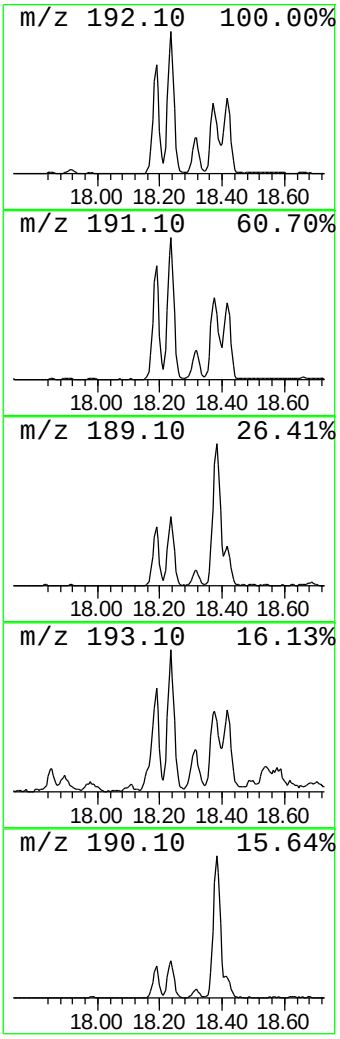
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.23	7.36 ng/ul	493665	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





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Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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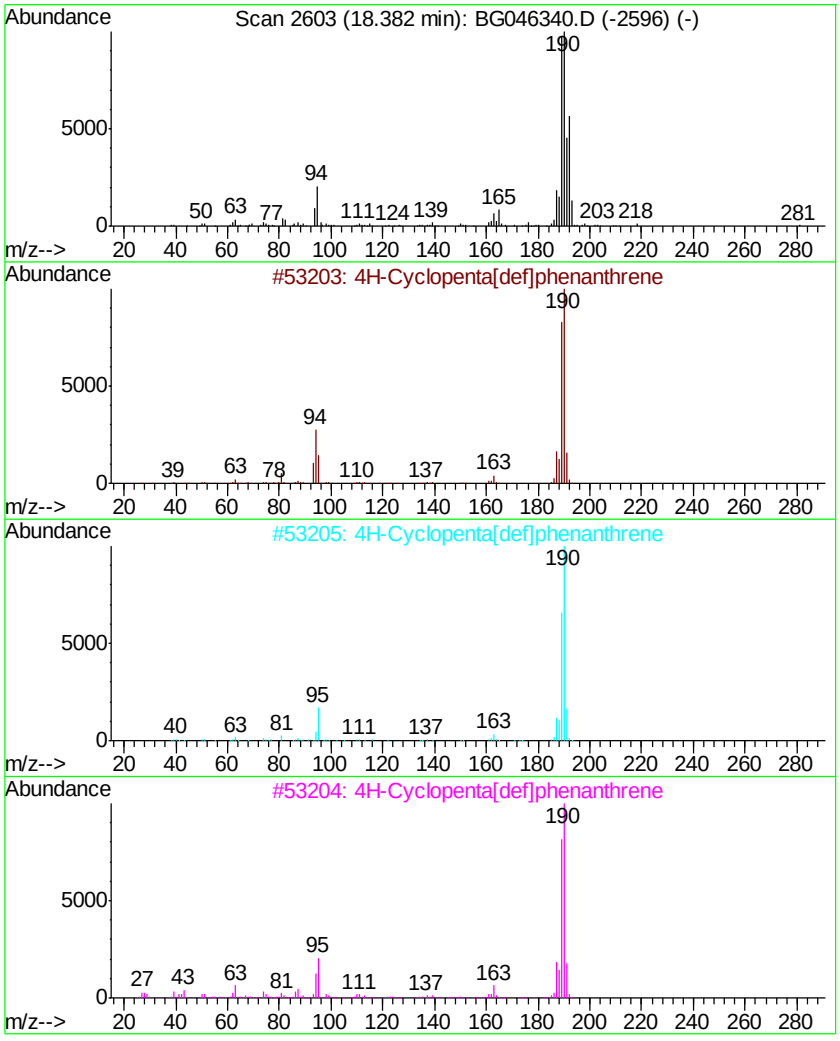
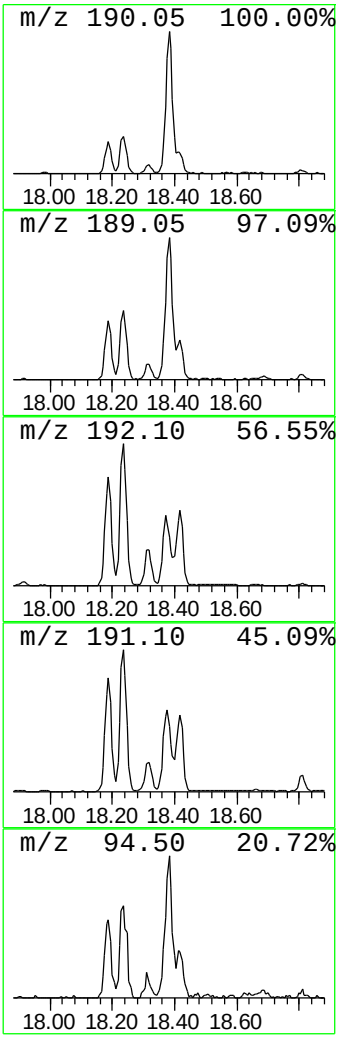
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.38	7.73 ng/ul	518606	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
5	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	53





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Sample : L3636-08DL 5X
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ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

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Quant Title : SVOA CALIBRATION

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

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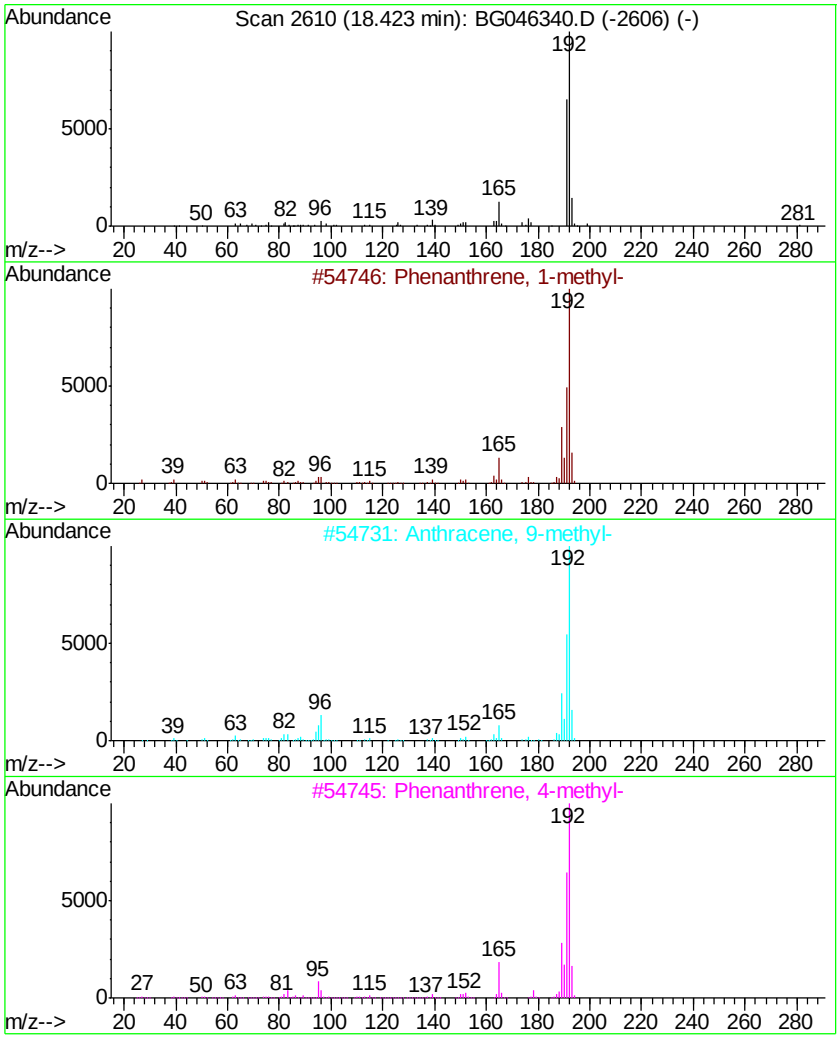
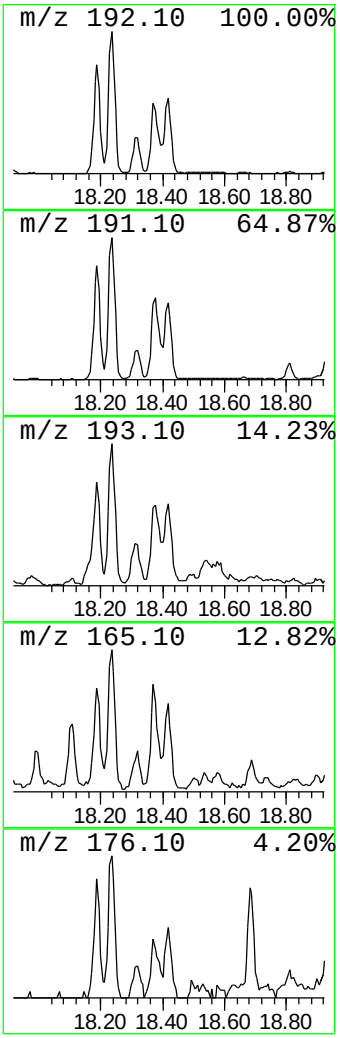
Peak Number 8 Anthracene, 9-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.42	3.53 ng/ul	236726	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	90





Library Search Compound Report

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Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

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ClientSampleId : BFMK4DL

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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 9 9H-Carbazole, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	2.08 ng/ul	139565	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	93
2	3-Methylcarbazole	181	C13H11N	004630-20-0	83
3	1-Methylcarbazole	181	C13H11N	006510-65-2	83
4	4-Methylcarbazole	181	C13H11N	003770-48-7	83
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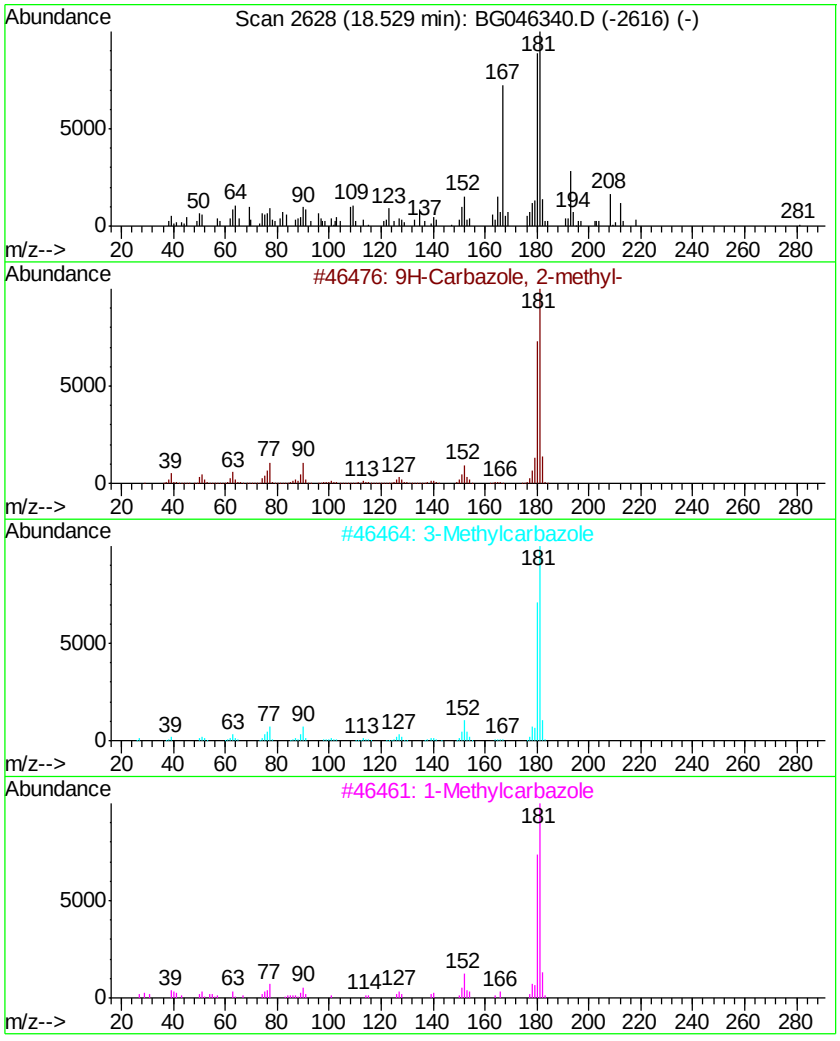

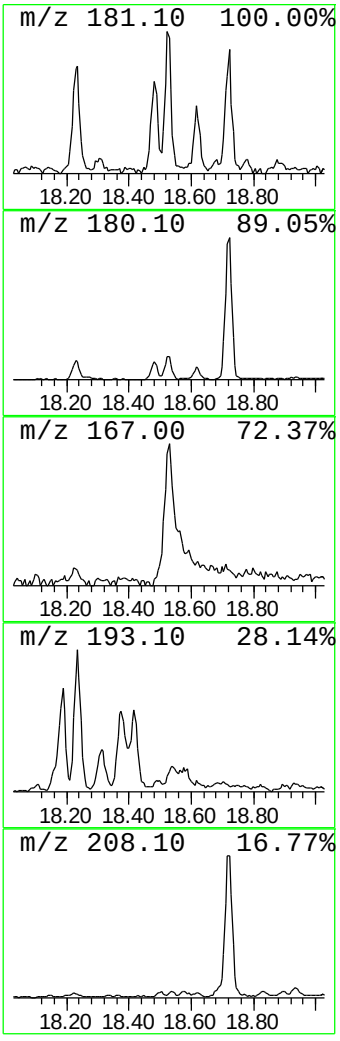

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Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

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Quant Title : SVOA CALIBRATION

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

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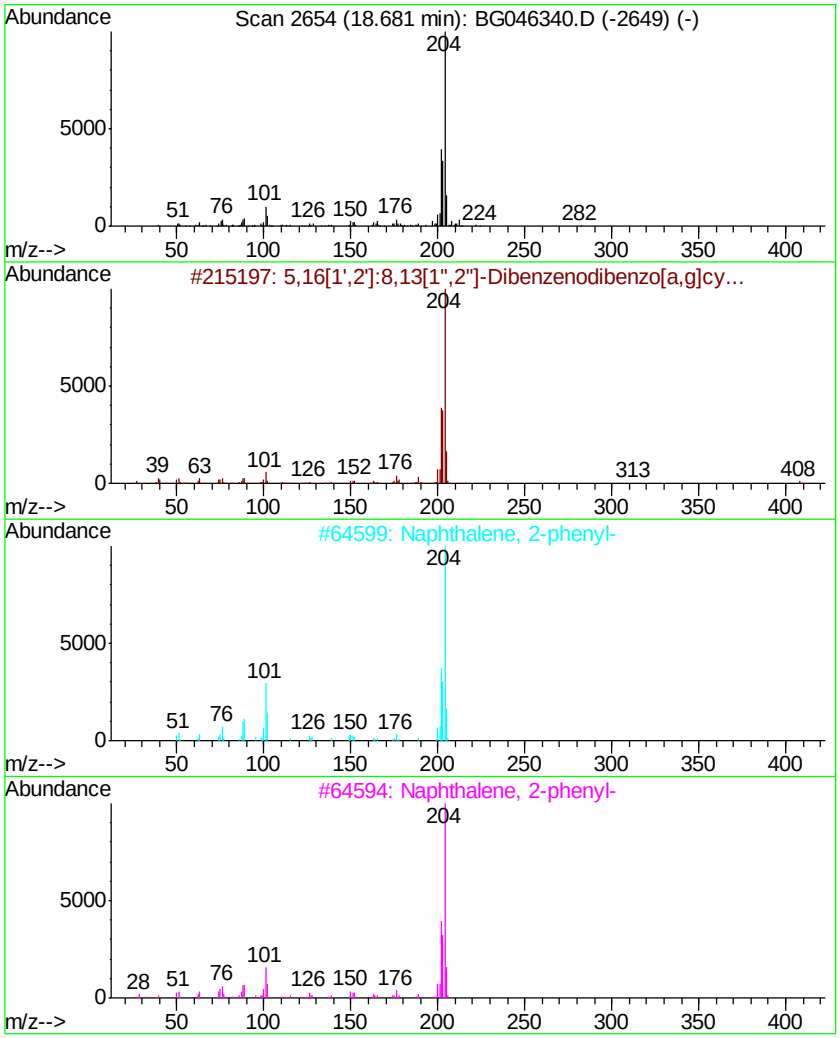
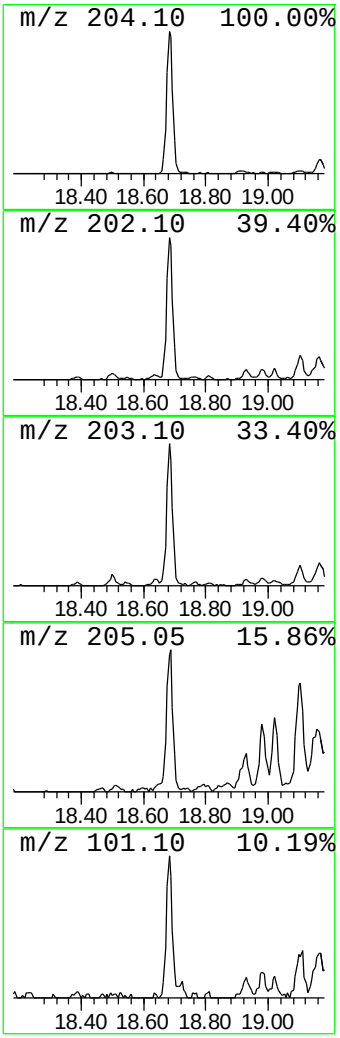
Peak Number 10 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.68	4.64 ng/ul	310919	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64





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Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

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Quant Title : SVOA CALIBRATION

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

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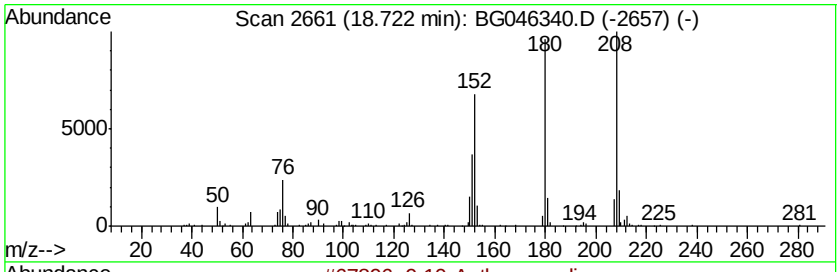
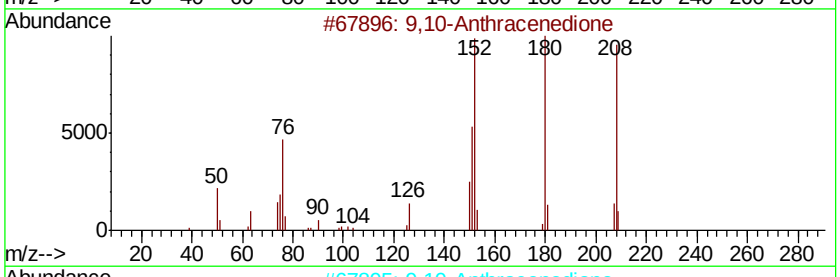
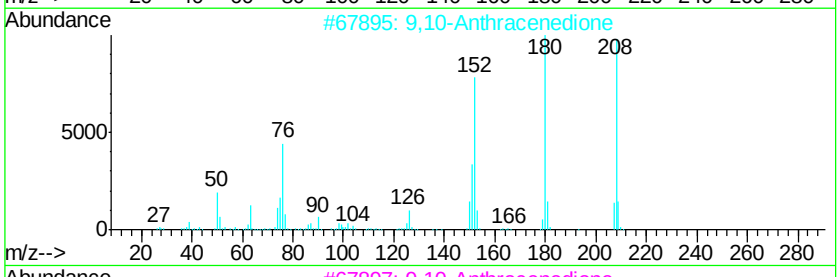
Peak Number 11 9,10-Anthracenedione Concentration Rank 7

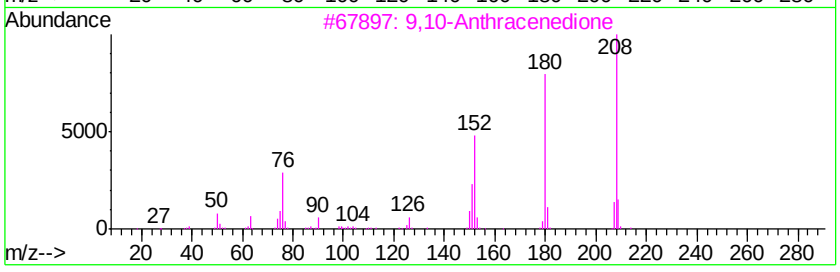
R.T.	EstConc	Area	Relative to ISTD	R.T.
18.72	5.16 ng/ul	346159	Phenanthrene-d10	17.31

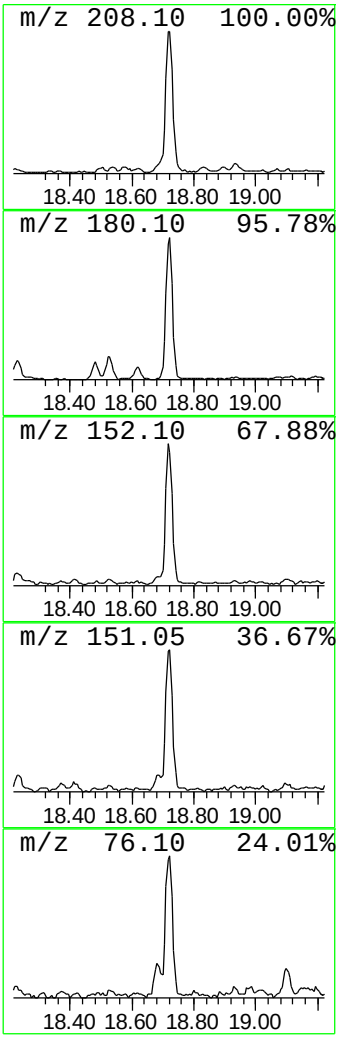
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60











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Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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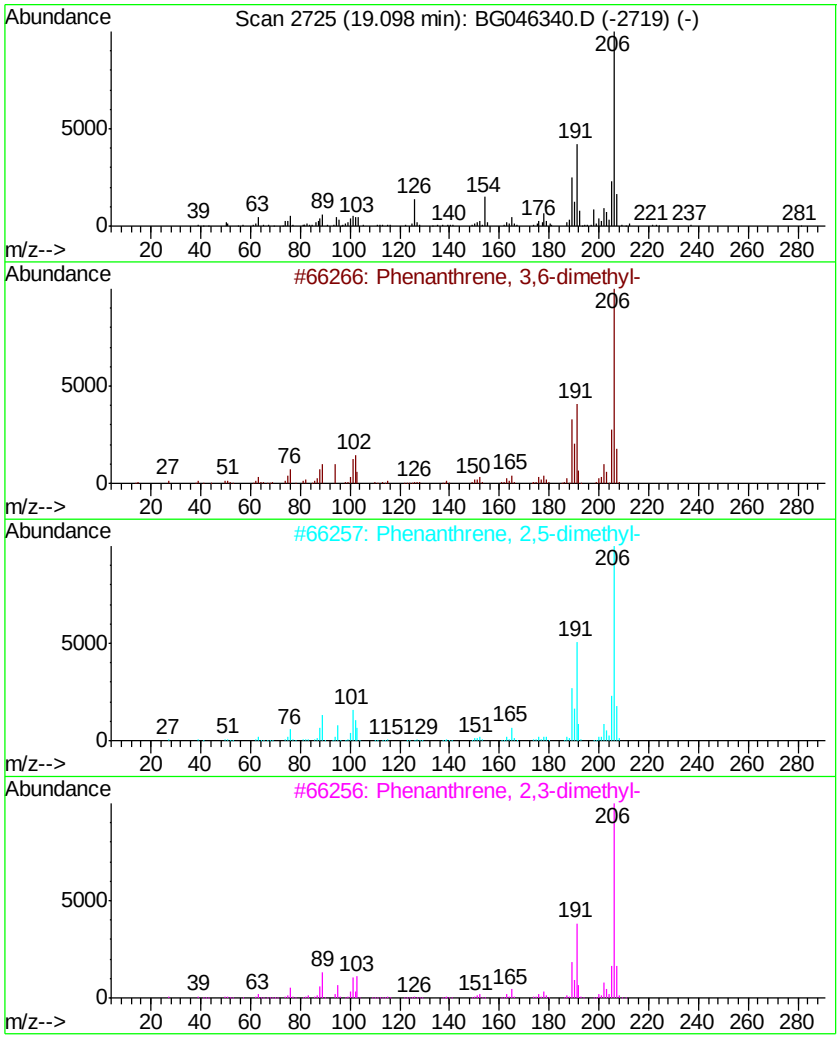
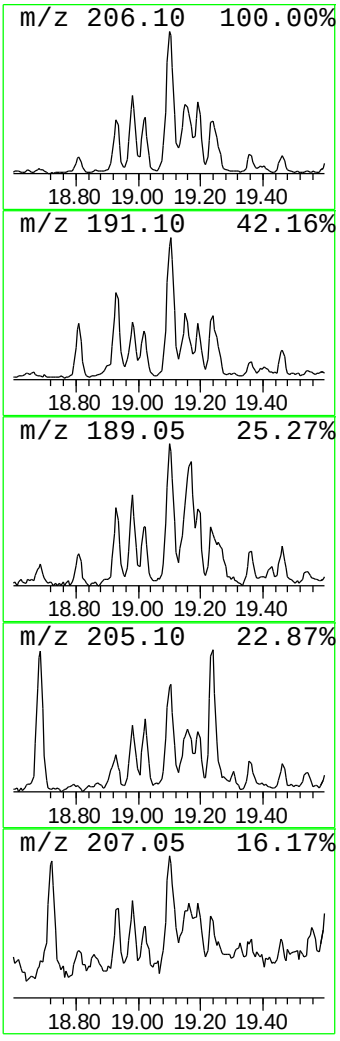
Peak Number 12 Phenanthrene, 3,6-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.10	4.04 ng/ul	270890	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





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Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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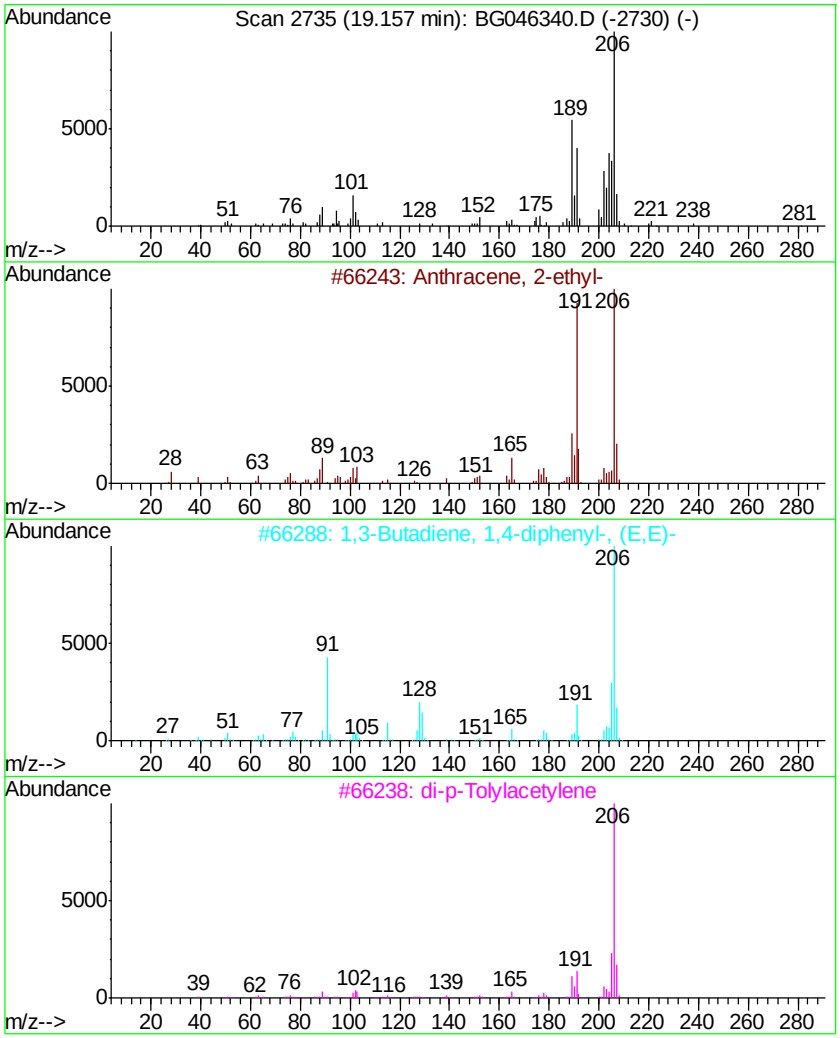
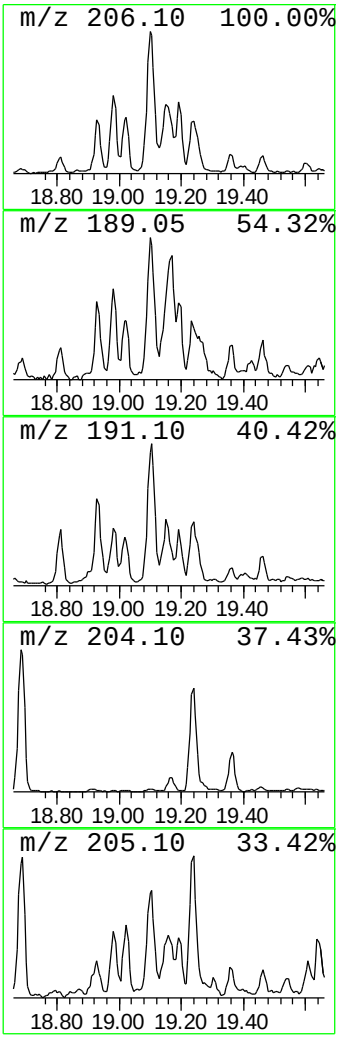
Peak Number 13 unknown-01 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.16	2.06 ng/ul	138065	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	27
2	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	27
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	27
4	1,2,3,3a-Tetrahydro-10-phenylben...	260	C18H16N2	028749-06-6	27
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	25





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Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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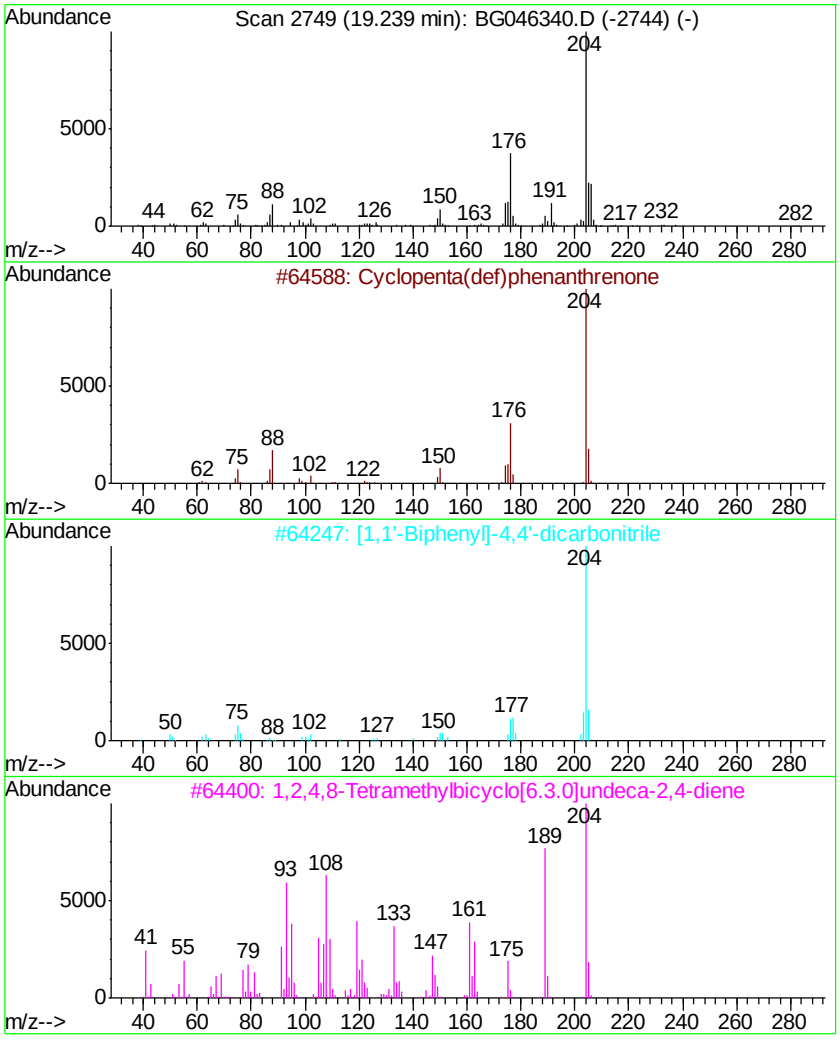
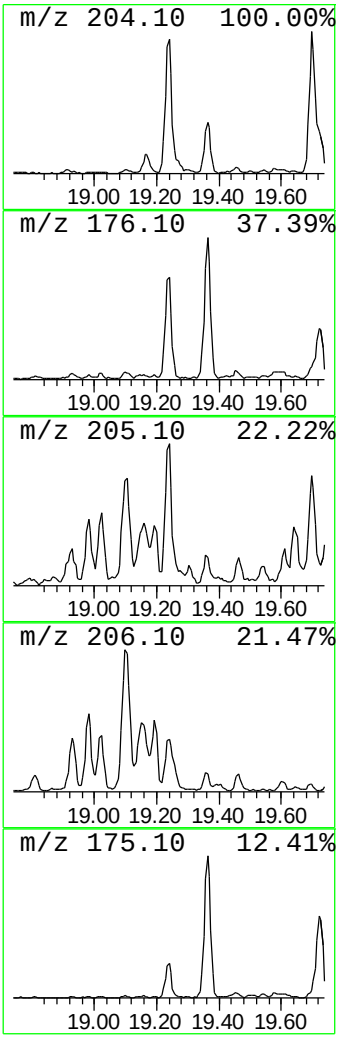
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.24	4.32 ng/ul	289467	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	47
5	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	47





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Misc :
ALS Vial : 3 Sample Multiplier: 1

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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 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.05	2.43 ng/ul	492409	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
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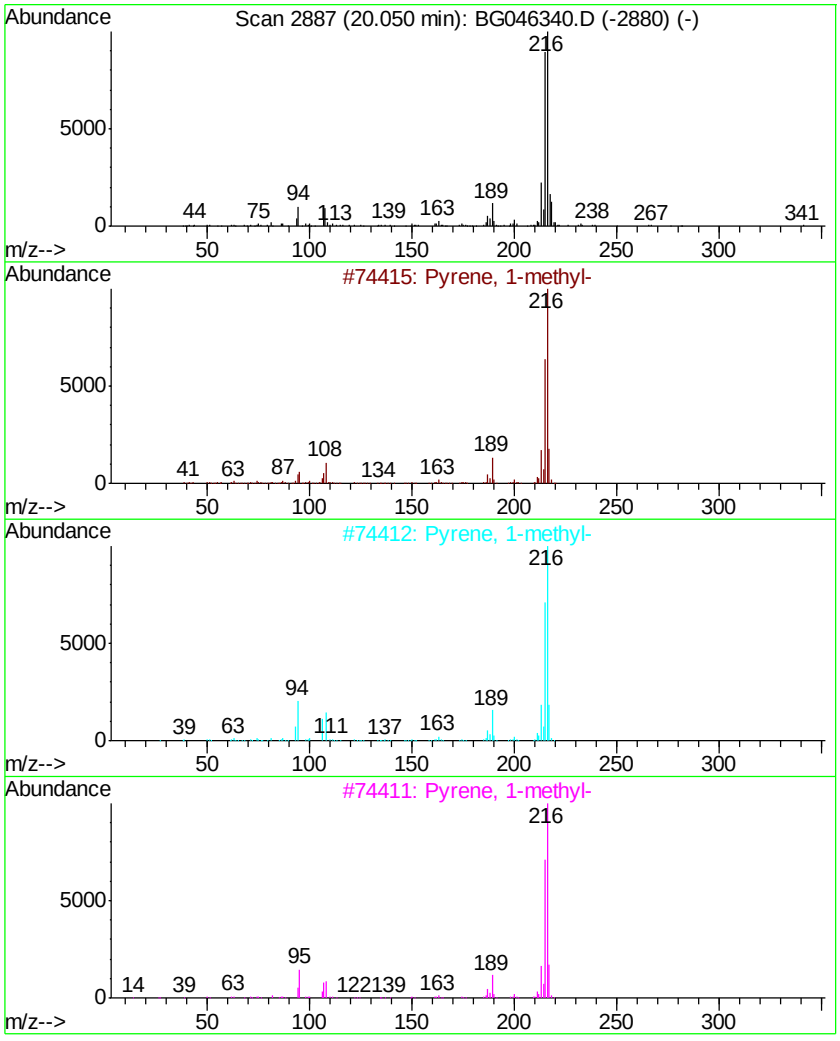

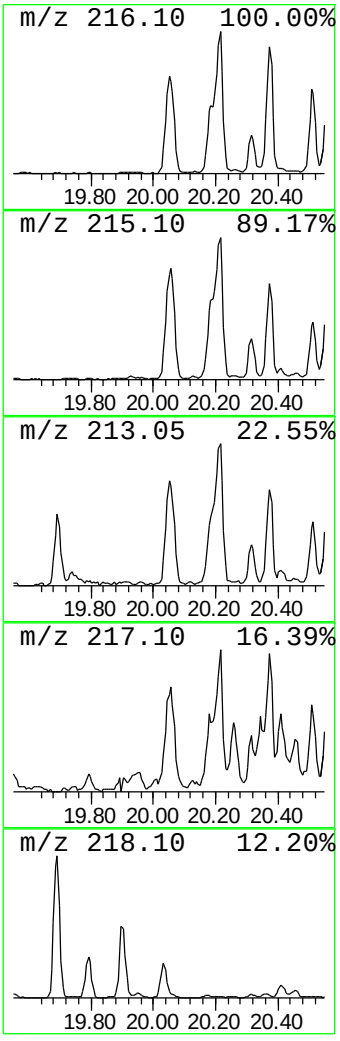

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Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

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Quant Title : SVOA CALIBRATION

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

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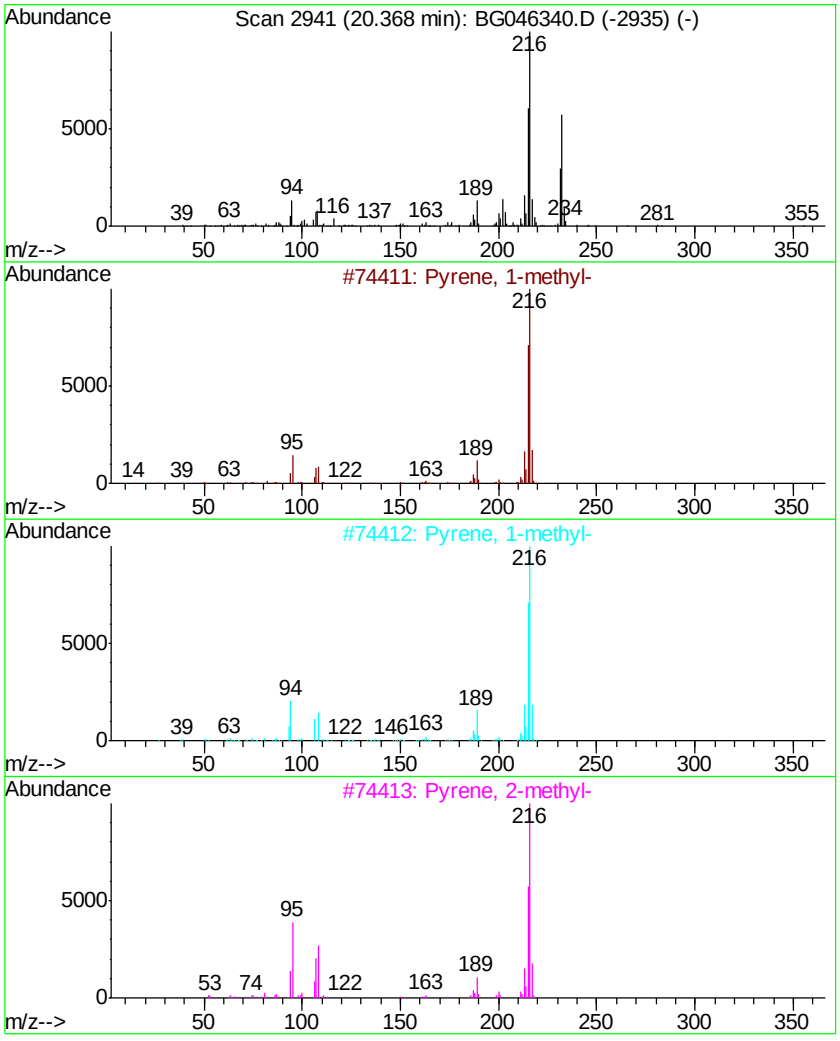
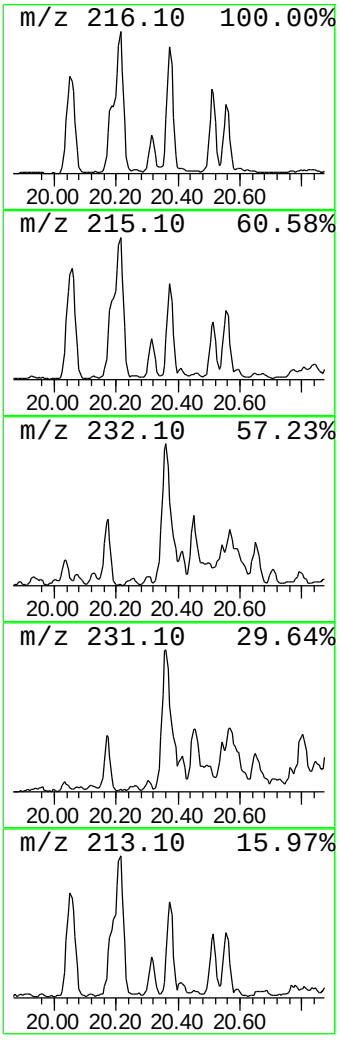
Peak Number 16 Pyrene, 2-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.37	2.03 ng/ul	412689	Chrysene-d12	21.56

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	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

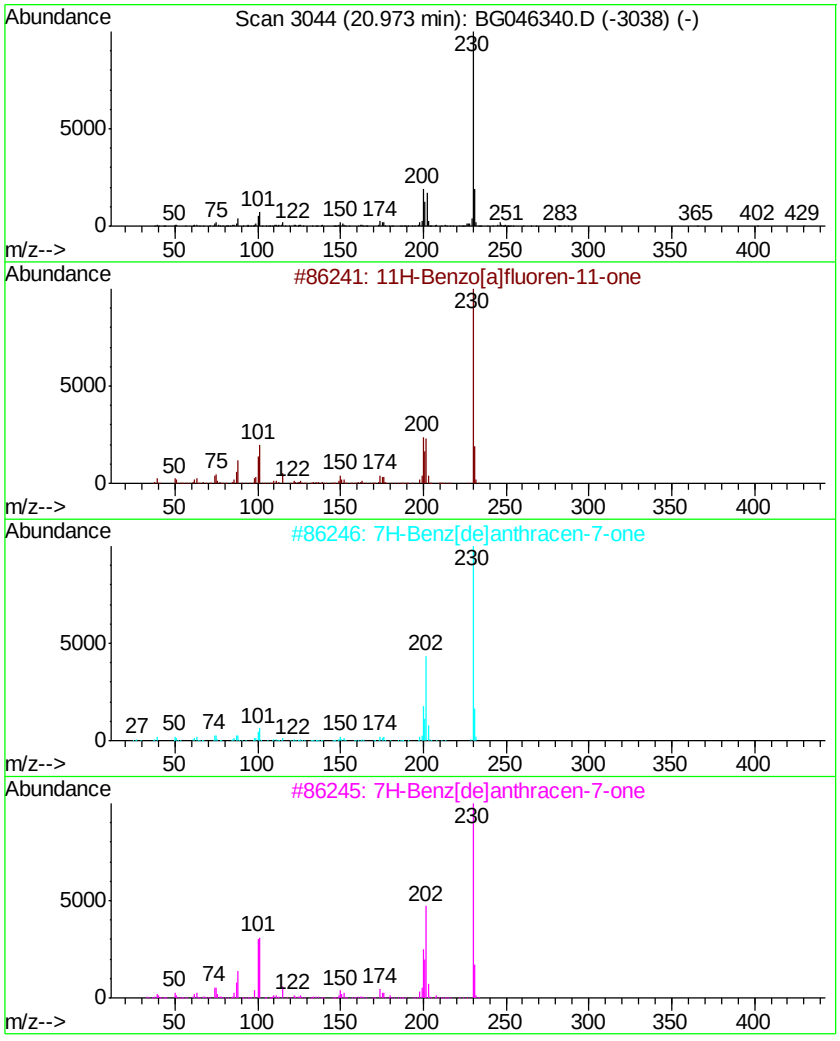
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

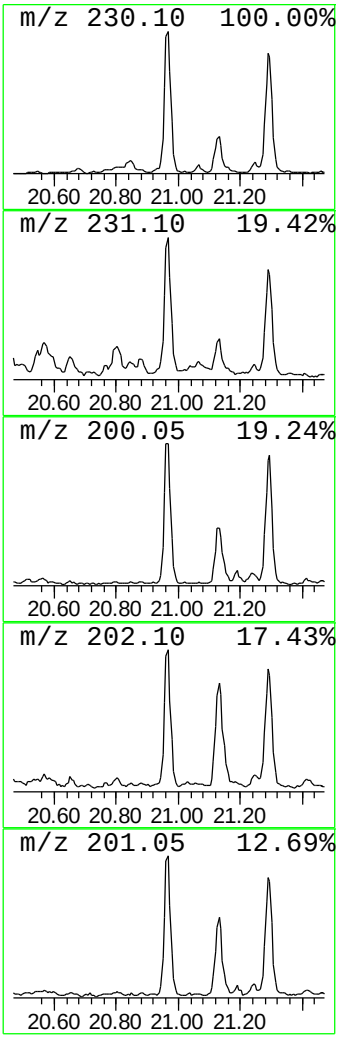
****

Peak Number 17 11H-Benzo[a]fluoren-11-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.97	2.81 ng/ul	569323	Chrysene-d12	21.56

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	76
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74





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Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

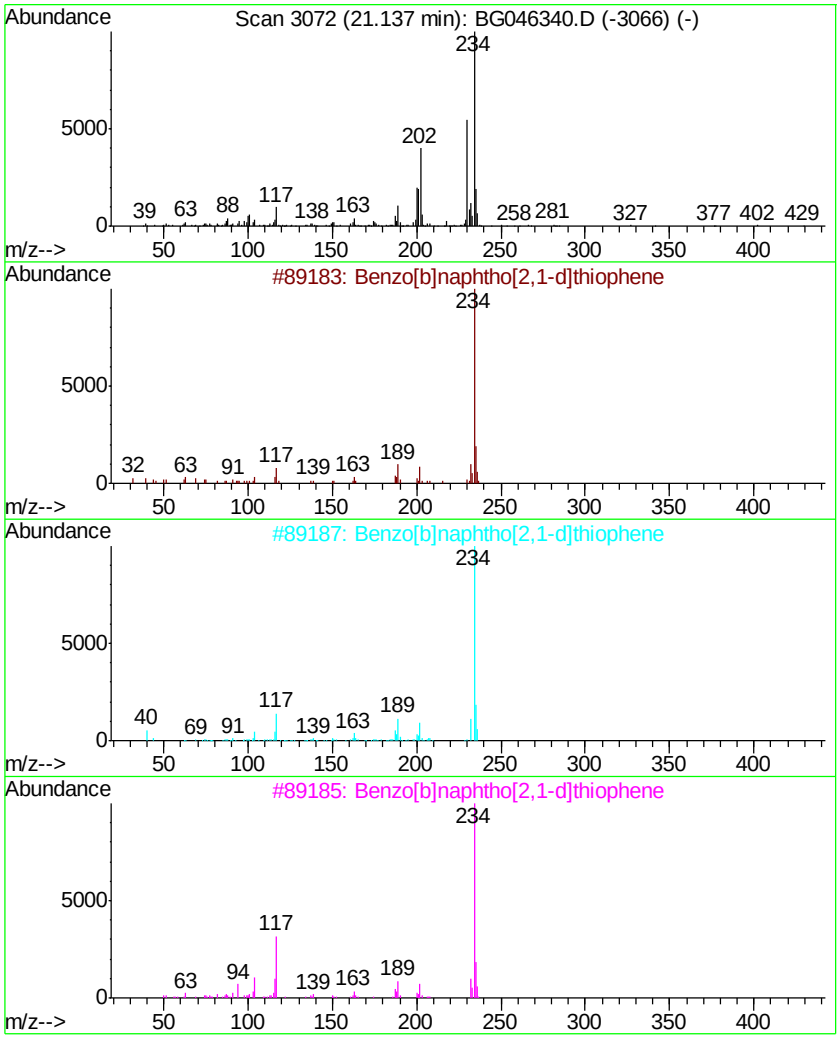
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

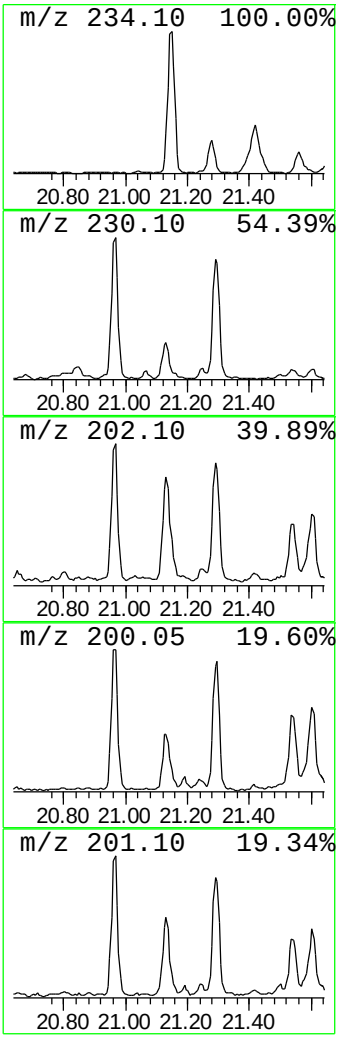
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.14	2.57 ng/ul	522305	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	89
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	87
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	87
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	87





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Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

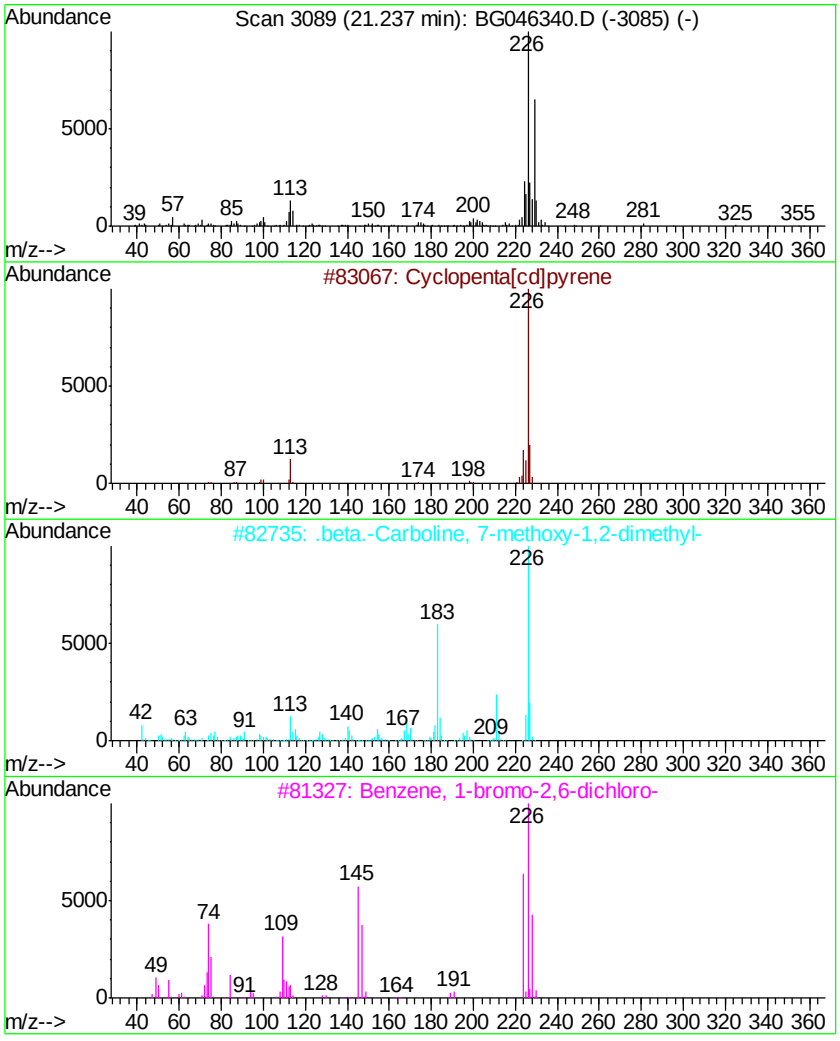
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

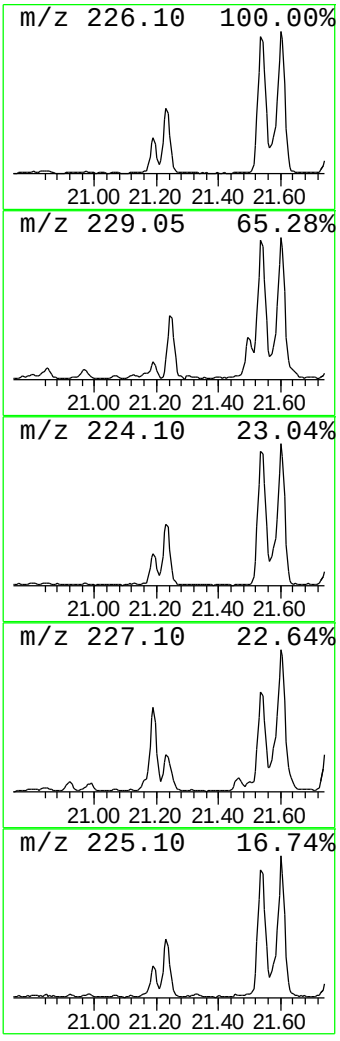
****

Peak Number 19 Cyclopenta[cd]pyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.24	2.15 ng/ul	437106	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	60
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	49
3	Benzene, 1-bromo-2,6-dichloro-	224	C6H3BrCl2	019393-92-1	43
4	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	43
5	6-Methyl-4-phenyl-3-cyanopyridin...	226	C13H10N2S	078564-23-5	37





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Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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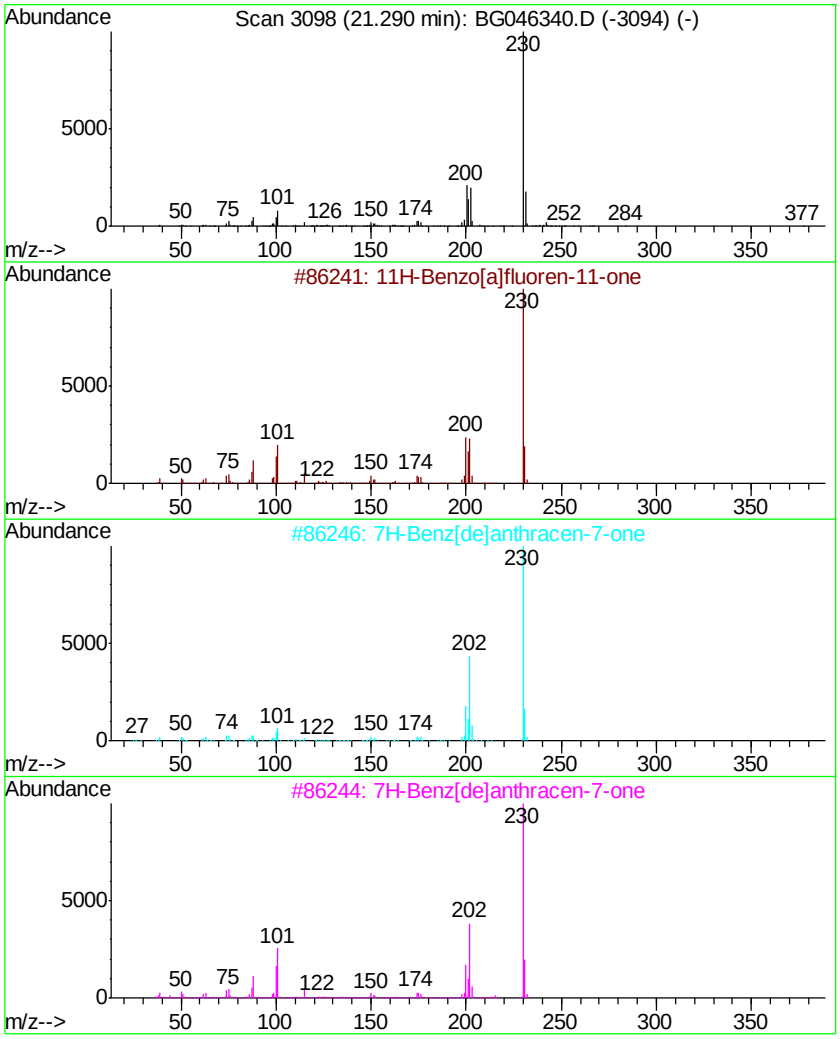
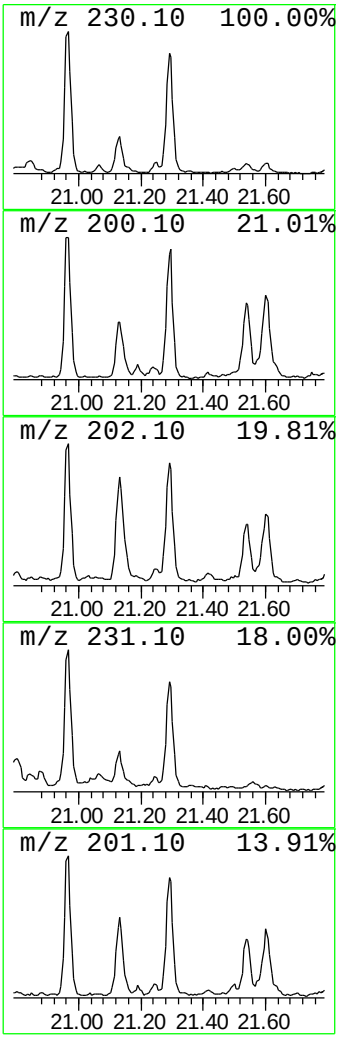
Peak Number 20 7H-Benz[de]anthracen-7-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.29	2.89 ng/ul	586138	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
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	64
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	58
5	o-Terphenyl	230	C18H14	000084-15-1	53





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Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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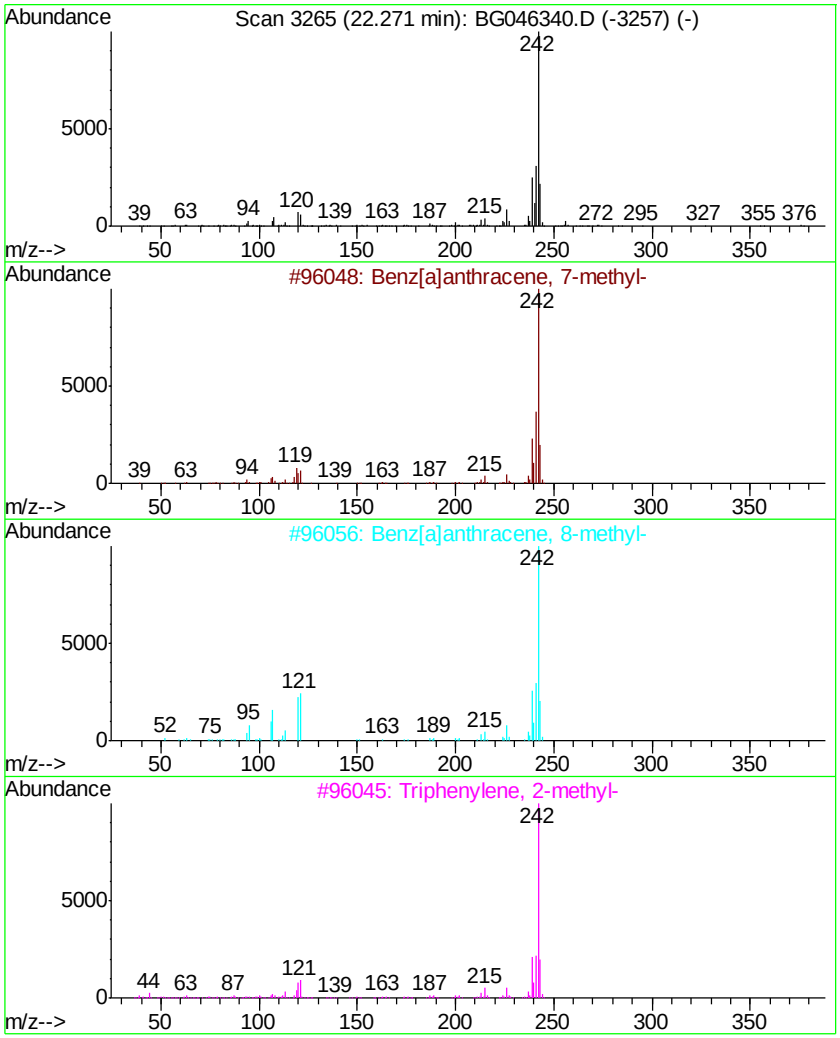
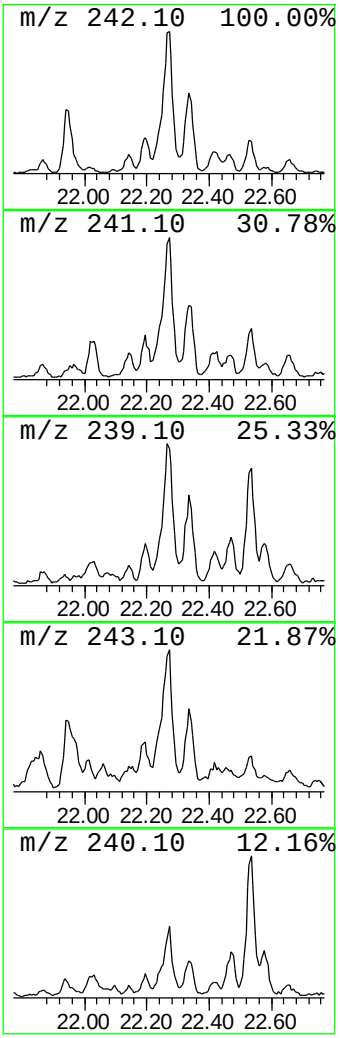
Peak Number 21 Benz[a]anthracene, 7-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.27	2.02 ng/ul	408936	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
2	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	95
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	95
4	Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
5	2-Methylchrysene	242	C19H14	003351-32-4	95





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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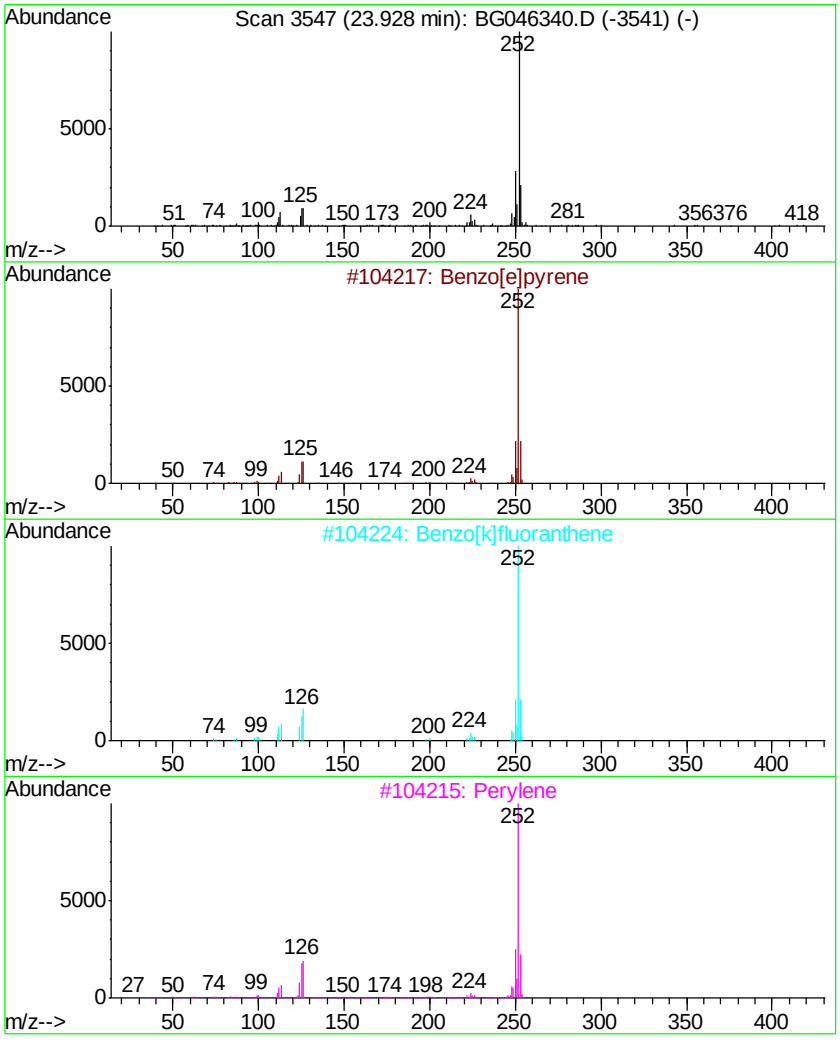
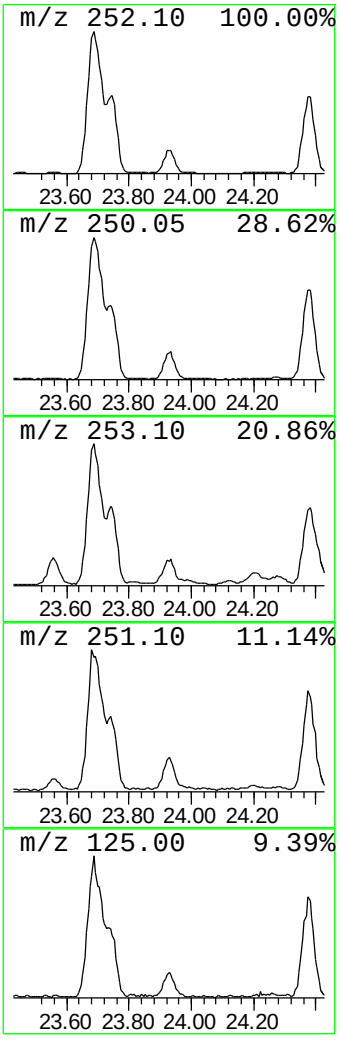
Peak Number 22 Benzo[e]pyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.93	3.30 ng/ul	285331	Perylene-d12	24.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Perylene	252	C20H12	000198-55-0	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
5	Benzo[a]pyrene	252	C20H12	000050-32-8	90





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Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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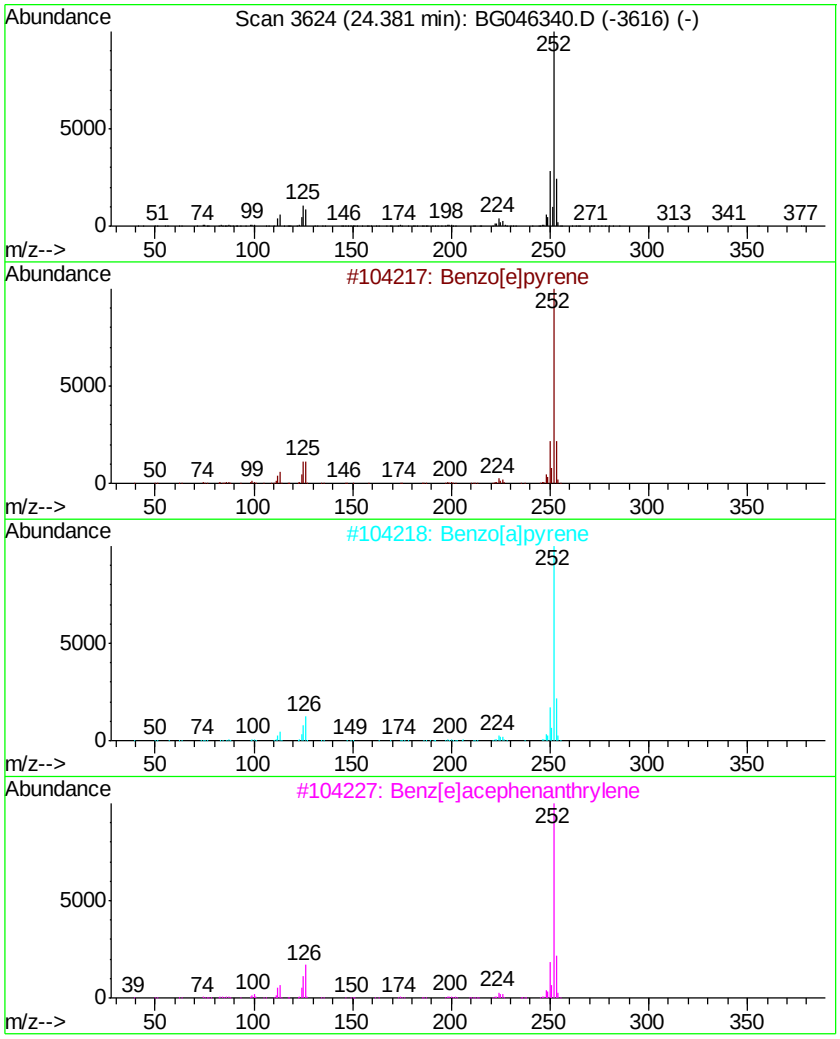
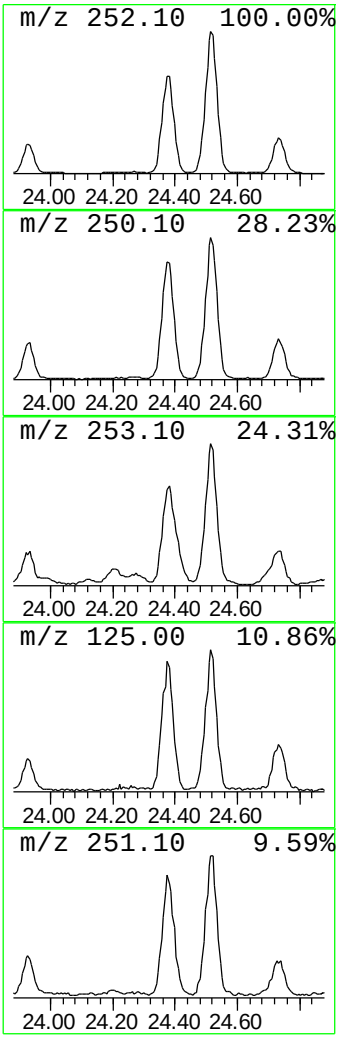
Peak Number 23 Perylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.38	10.51 ng/ul	908944	Perylene-d12	24.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Perylene	252	C20H12	000198-55-0	91
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





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Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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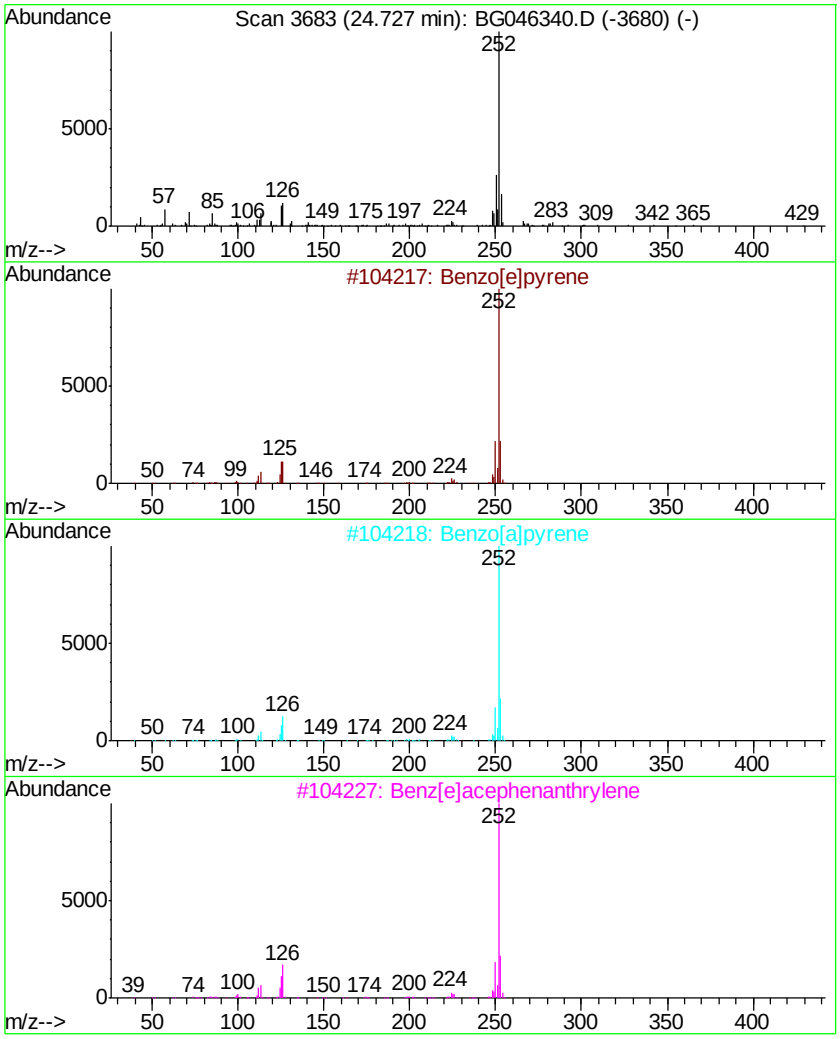
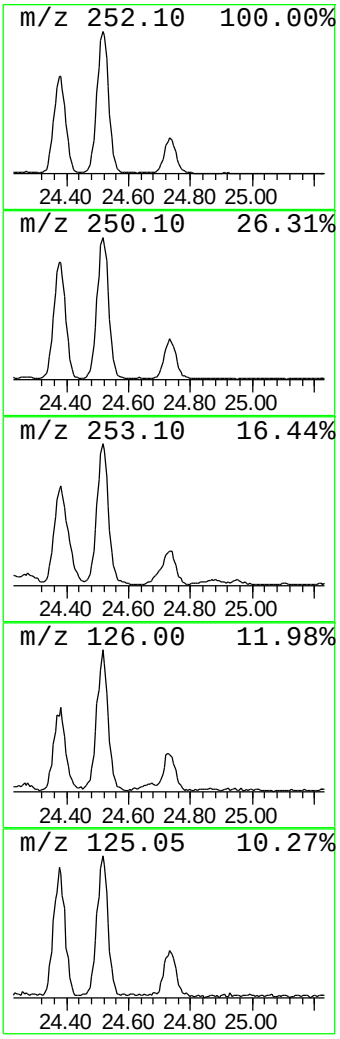
Peak Number 24 unknown-02 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.73	7.02 ng/ul	606820	Perylene-d12	24.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	90
2	Benzo[a]pyrene	252	C20H12	000050-32-8	90
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
5	Perylene	252	C20H12	000198-55-0	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

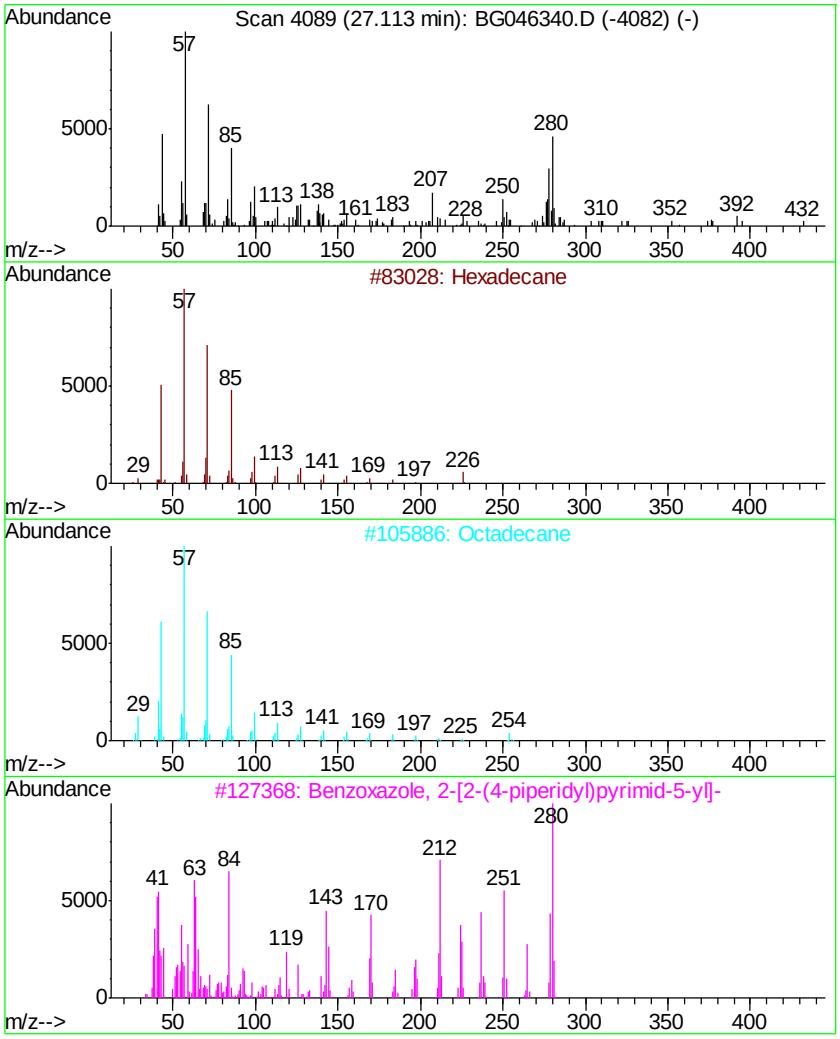
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

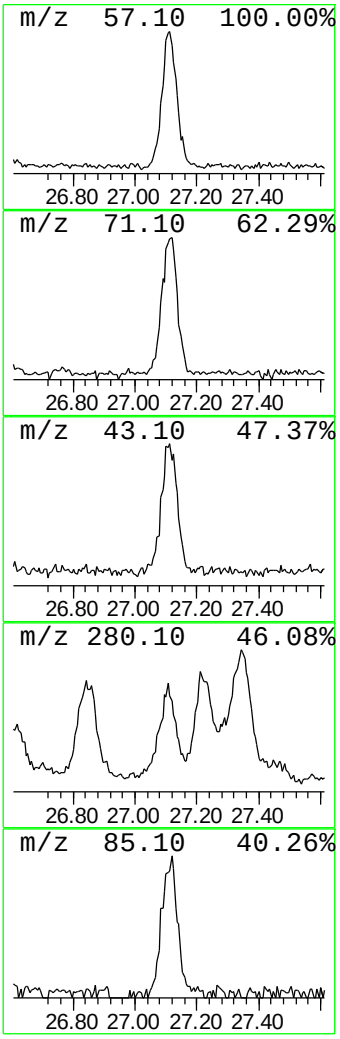
****

Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.11	2.06 ng/ul	178361	Perylene-d12	24.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	86
2	Octadecane	254	C18H38	000593-45-3	86
3	Benzoxazole, 2-[2-(4-piperidyl)p...	280	C16H16N4O	1000294-14-8	74
4	Eicosane	282	C20H42	000112-95-8	55
5	1H-Indene, 1-(diphenylmethylene)-	280	C22H16	013245-90-4	55





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG081920\
Data File : BG046340.D
Acq On : 19 Aug 2020 10:01
Operator : CG/JU
Sample : L3636-08DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK4DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.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...	3.14	18.8	ng/ul	448704	1	7.94	478745	20.0
9H-Fluoren-9-one	16.96	3.1	ng/ul	207546	4	17.31	1341230	20.0
Dibenzothiophene	17.13	2.1	ng/ul	138638	4	17.31	1341230	20.0
5H-Indeno[1,2-b]p...	17.71	4.2	ng/ul	279329	4	17.31	1341230	20.0
Anthracene, 2-met...	18.19	5.7	ng/ul	382346	4	17.31	1341230	20.0
Phenanthrene, 1-m...	18.23	7.4	ng/ul	493665	4	17.31	1341230	20.0
4H-Cyclopenta[def...	18.38	7.7	ng/ul	518606	4	17.31	1341230	20.0
Anthracene, 9-met...	18.42	3.5	ng/ul	236726	4	17.31	1341230	20.0
9H-Carbazole, 2-m...	18.53	2.1	ng/ul	139565	4	17.31	1341230	20.0
5,16[1',2']:8,13[...	18.68	4.6	ng/ul	310919	4	17.31	1341230	20.0
9,10-Anthracenedione	18.72	5.2	ng/ul	346159	4	17.31	1341230	20.0
Phenanthrene, 3,6...	19.10	4.0	ng/ul	270890	4	17.31	1341230	20.0
unknown-01	19.16	2.1	ng/ul	138065	4	17.31	1341230	20.0
Cyclopenta(def)ph...	19.24	4.3	ng/ul	289467	4	17.31	1341230	20.0
Pyrene, 1-methyl-	20.05	2.4	ng/ul	492409	5	21.56	4058920	20.0
Pyrene, 2-methyl-	20.37	2.0	ng/ul	412689	5	21.56	4058920	20.0
11H-Benzo[a]fluor...	20.97	2.8	ng/ul	569323	5	21.56	4058920	20.0
Benzo[b]naphtho[2...	21.14	2.6	ng/ul	522305	5	21.56	4058920	20.0
Cyclopenta[cd]pyrene	21.24	2.1	ng/ul	437106	5	21.56	4058920	20.0
7H-Benz[de]anthra...	21.29	2.9	ng/ul	586138	5	21.56	4058920	20.0
Benz[a]anthracene...	22.27	2.0	ng/ul	408936	5	21.56	4058920	20.0
Benzo[e]pyrene	23.93	3.3	ng/ul	285331	6	24.66	1729260	20.0
Perylene	24.38	10.5	ng/ul	908944	6	24.66	1729260	20.0
unknown-02	24.73	7.0	ng/ul	606820	6	24.66	1729260	20.0
(DEL) Alkane: Str...	27.11	2.1	ng/ul	178361	6	24.66	1729260	20.0