LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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	3.144	4	9	36	rVB	1184900	2005868	95.72%	9.009%
2	3.920	136	141	145	rBV	18377	27275	1.30%	0.122%
3	5.054	329	334	339	rBV	10948	17520	0.84%	0.079%
4	7.110	676	684	693	rBV	38558	73380	3.50%	0.330%
5	7.269	703	711	718	rBV	39593	70307	3.35%	0.316%
6	7.474	738	746	757	rBV2	47360	84226	4.02%	0.378%
7	7.938	818	825	835	rBV	273012	454581	21.69%	2.042%
8	8.644	939	945	953	rBV3	43011	80081	3.82%	0.360%
9	9.090	1014	1021	1031	rBV	43780	82496	3.94%	0.371%
10	9.819	1139	1145	1153	rBV	34131	62728	2.99%	0.282%
11	10.359	1232	1237	1248	rBV	49464	92148	4.40%	0.414%
12	10.735	1292	1301	1308	rBV	378378	675598	32.24%	3.034%
13	10.870	1316	1324	1331	rBV	24926	51716	2.47%	0.232%
14	13.890	1833	1838	1843	rVV3	15565	27139	1.30%	0.122%
15	13.973	1843	1852	1856	rVV	123697	197613	9.43%	0.888%
16	14.020	1856	1860	1867	rVB	37454	55906	2.67%	0.251%
17	14.260	1893	1901	1916	rBV2	130946	249988	11.93%	1.123%
18	14.566	1945	1953	1960	rVV	632686	983802	46.95%	4.418%
19	14.631	1960	1964	1971	rVV4	17114	29952	1.43%	0.135%
20	14.783	1984	1990	1996	rVV3	7503	19172	0.91%	0.086%
21	14.966	2015	2021	2028	rVV2	28031	43791	2.09%	0.197%
22	15.189	2052	2059	2063	rBV3	9724	16524	0.79%	0.074%
23	15.559	2115	2122	2127	rVV	195517	296464	14.15%	1.331%
24	15.612	2127	2131	2138	rVV2	35386	60627	2.89%	0.272%
25	15.676	2138	2142	2150	rVV2	22061	41172	1.96%	0.185%
26	15.906	2176	2181	2189	rVB	26691	42527	2.03%	0.191%
27	16.058	2200	2207	2216	rVV	28648	58777	2.80%	0.264%
28	16.293	2241	2247	2252	rBV4	11740	19130	0.91%	0.086%
29	16.622	2299	2303	2308	rVV4	13584	26496	1.26%	0.119%
30	16.846	2332	2341	2345	rBV4	24495	45871	2.19%	0.206%
31	16.887	2345	2348	2352	rVV3	19501	26790	1.28%	0.120%
32	16.963	2355	2361	2369	rVB	55110	91437	4.36%	0.411%
33	17.045	2369	2375	2381	rBV2	24254	52797	2.52%	0.237%
34	17.128	2385	2389	2394	rVB	19913	28351	1.35%	0.127%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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	17.310	2413	2420	2424	rBV	803859	1250903	59.69%	5.618%
36	17.351	2424	2427	2432	rVV	519457	708103	33.79%	3.180%
37	17.404	2432	2436	2440	rVV	199557	316706	15.11%	1.422%
38	17.439	2440	2442	2447	rVV	80452	104804	5.00%	0.471%
39	17.504	2447	2453	2459	rVB6	15507	27227	1.30%	0.122%
40	17.621	2470	2473	2477	rVB	14999	18594	0.89%	0.084%
41	17.709	2479	2488	2492	rBV2	32740	65601	3.13%	0.295%
42	17.756	2492	2496	2500	rVV4	12272	21833	1.04%	0.098%
43	17.827	2503	2508	2515	rVV3	16956	32146	1.53%	0.144%
44	17.892	2515	2519	2528	rVB5	28795	50831	2.43%	0.228%
45	18.103	2549	2555	2559	rBV2	16466	23235	1.11%	0.104%
46	18.185	2560	2569	2573	rBV	110625	185839	8.87%	0.835%
47	18.232	2573	2577	2584	rVB	160190	235417	11.23%	1.057%
48	18.315	2586	2591	2595	rVB	43316	62817	3.00%	0.282%
49	18.379	2595	2602	2605	rBV2	107732	203746	9.72%	0.915%
50	18.414	2605	2608	2613	rVB	79084	113494	5.42%	0.510%
51	18.503	2616	2623	2625	rBV5	13846	28610	1.37%	0.128%
52	18.526	2625	2627	2632	rVB3	11874	17082	0.82%	0.077%
53	18.685	2649	2654	2657	rBV	81657	120894	5.77%	0.543%
54	18.720	2657	2660	2667	rVB	99679	128276	6.12%	0.576%
55	18.931	2692	2696	2699	rVB2	34351	42542	2.03%	0.191%
56	18.978	2700	2704	2707	rBV	27042	34237	1.63%	0.154%
57	19.014	2707	2710	2715	rVB2	31095	43301	2.07%	0.194%
58	19.096	2715	2724	2729	rBV	84121	160125	7.64%	0.719%
59	19.161	2729	2735	2738	rBV4	28971	61651	2.94%	0.277%
60	19.237	2743	2748	2757	rVB	91618	149101	7.11%	0.670%
61	19.360	2763	2769	2775	rVB	827358	1129560	53.90%	5.073%
62	19.425	2776	2780	2783	rBV	19044	29956	1.43%	0.135%
63	19.454	2783	2785	2790	rVB4	29904	39794	1.90%	0.179%
64	19.507	2790	2794	2798	rBV2	34542	50273	2.40%	0.226%
65	19.554	2798	2802	2806	rBV3	30869	43458	2.07%	0.195%
66	19.601	2807	2810	2813	rVB2	15310	18851	0.90%	0.085%
67	19.689	2820	2825	2827	rBV2	373423	533922	25.48%	2.398%
68	19.719	2827	2830	2838	rVV	664017	931207	44.44%	4.182%
69	19.795	2838	2843	2850	rVB2	60085	107984	5.15%	0.485%
70	19.901	2854	2861	2867	rVV	54107	106370	5.08%	0.478%
71	19.954	2867	2870	2876	rVB4	43004	63541	3.03%	0.285%

LSC Area Percent Report

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Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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	20.048	2880	2886	2894	rBV3	84417	241423	11.52%	1.084%
73	20.177	2904	2908	2910	rVV3	61796	97596	4.66%	0.438%
74	20.212	2911	2914	2918	rVB2	100626	130317	6.22%	0.585%
75	20.312	2927	2931	2934	rBV2	37047	52853	2.52%	0.237%
76	20.371	2934	2941	2945	rBV2	107192	205194	9.79%	0.922%
77	20.447	2952	2954	2958	rVB2	24224	29853	1.42%	0.134%
78	20.512	2961	2965	2968	rBV	56426	73717	3.52%	0.331%
79	20.565	2968	2974	2978	rVV3	191621	292380	13.95%	1.313%
80	20.606	2978	2981	2986	rVB6	36098	56234	2.68%	0.253%
81	20.765	3005	3008	3011	rBV4	21868	31900	1.52%	0.143%
82	20.964	3037	3042	3049	rVB	150276	222177	10.60%	0.998%
83	21.135	3066	3071	3076	rBV2	64234	155344	7.41%	0.698%
84	21.188	3076	3080	3083	rVV2	70964	98404	4.70%	0.442%
85	21.229	3083	3087	3092	rVV3	121468	228163	10.89%	1.025%
86	21.288	3093	3097	3102	rVV	92286	143546	6.85%	0.645%
87	21.552	3134	3142	3147	rBV2	992370	2095630	100.00%	9.412%
88	21.599	3147	3150	3163	rVB	349363	570695	27.23%	2.563%
89	21.951	3205	3210	3216	rBV4	41914	94892	4.53%	0.426%
90	22.269	3257	3264	3270	rVB	101095	201660	9.62%	0.906%
91	22.339	3272	3276	3285	rVB7	67815	171565	8.19%	0.771%
92	23.685	3497	3505	3512	rBV2	224388	737003	35.17%	3.310%
93	23.802	3521	3525	3530	rBV	74673	128152	6.12%	0.576%
94	23.855	3531	3534	3540	rVV5	50087	94204	4.50%	0.423%
95	23.926	3542	3546	3552	rVB2	50773	103508	4.94%	0.465%
96	24.366	3616	3621	3628	rBV	86919	209750	10.01%	0.942%
97	24.443	3629	3634	3639	rVV2	86250	177017	8.45%	0.795%
98	24.507	3640	3645	3660	rVB	161764	440568	21.02%	1.979%
99	24.660	3662	3671	3679	rBV2	530522	1477812	70.52%	6.637%
100	25.806	3860	3866	3876	rVB3	89134	249989	11.93%	1.123%

Sum of corrected areas: 22265827

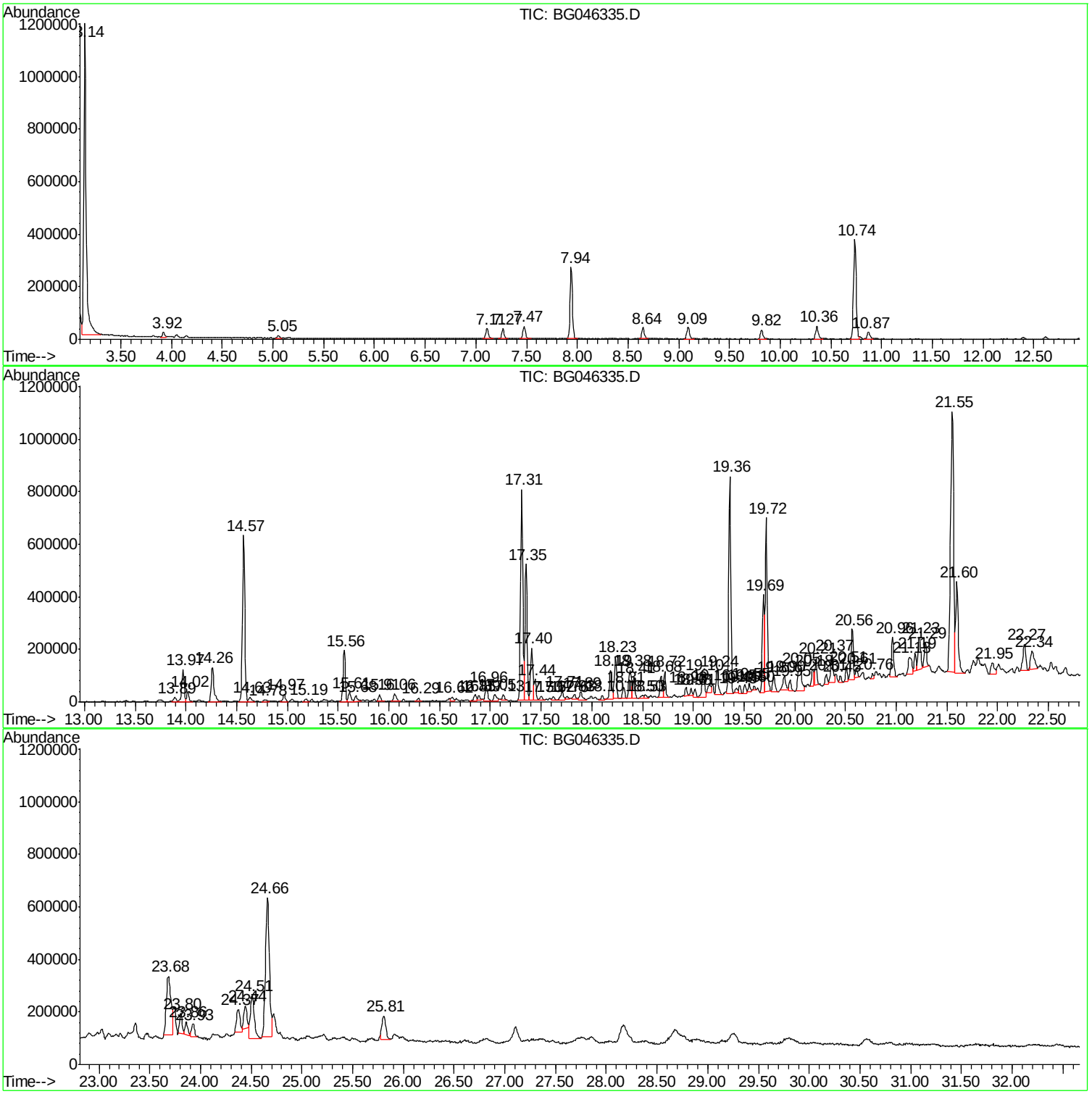
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
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Misc :
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Instrument : BNA_G
ClientSampleId : BFMK7

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

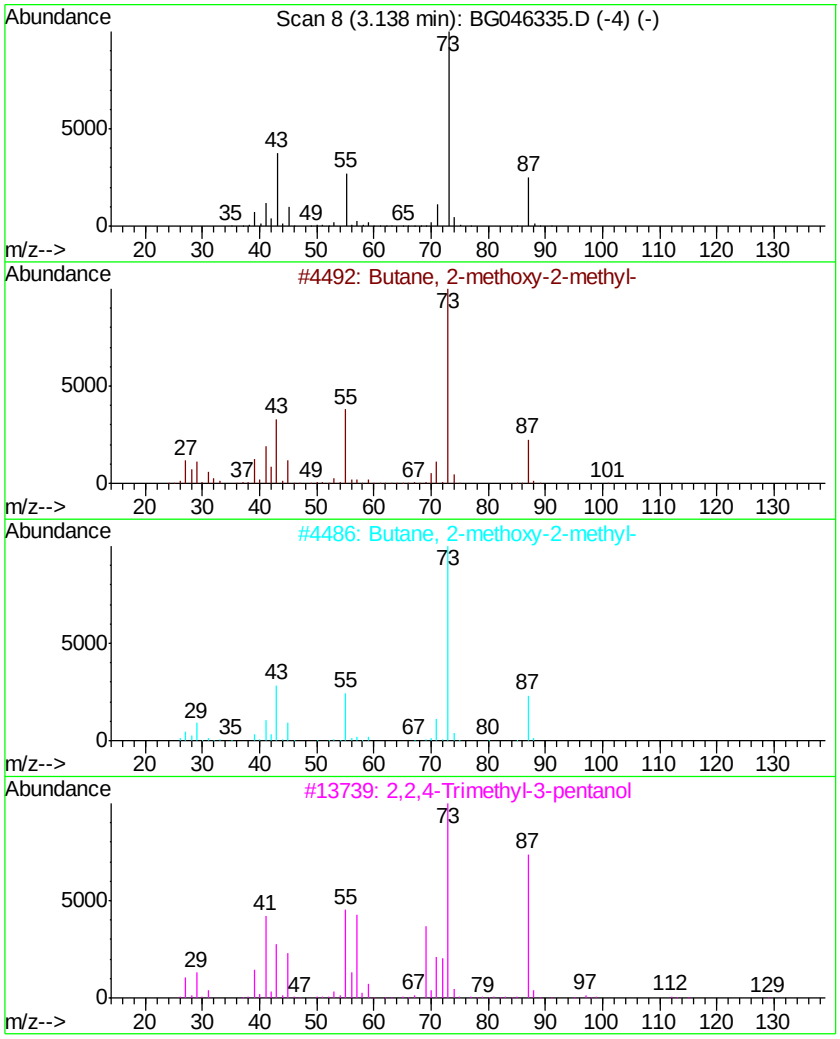
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

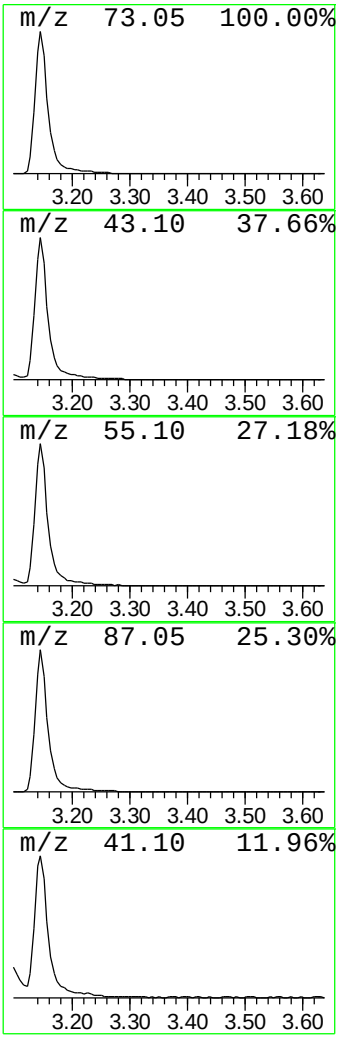
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.14	88.25 ng/ul	2005870	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	83
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	59
3	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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

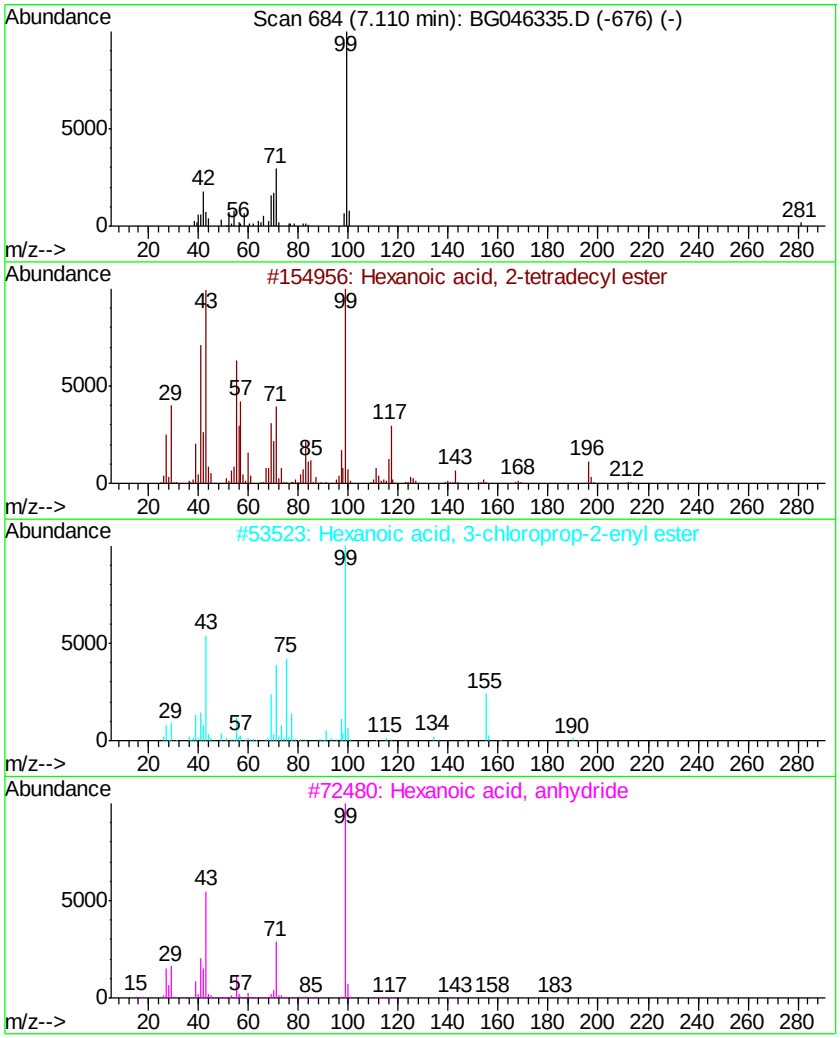
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

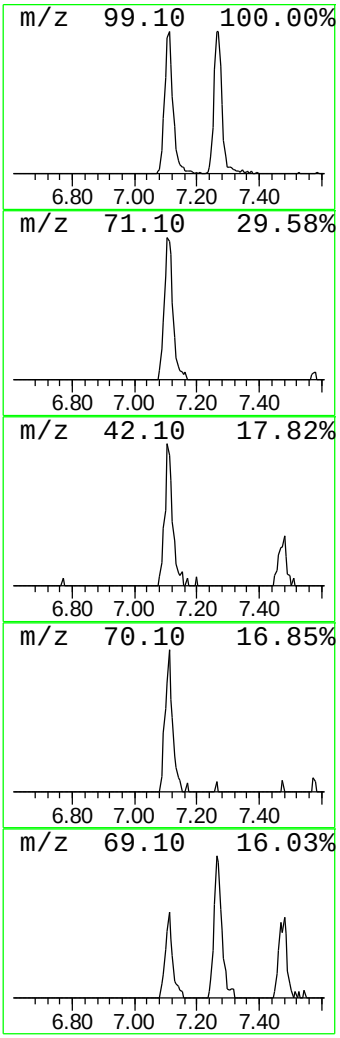
****

Peak Number 2 Hexanoic acid, 2-tetradecyl... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.11	3.23 ng/ul	73380	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-tetradecyl ester	312	C20H40O2	055193-21-0	72
2	Hexanoic acid, 3-chloroprop-2-en...	190	C9H15ClO2	1000299-36-1	64
3	Hexanoic acid, anhydride	214	C12H22O3	002051-49-2	64
4	2H-Pyran-2-one, 6-heptyltetrahydro-	198	C12H22O2	000713-95-1	64
5	2(3H)-Furanone, 5-hexyldihydro-4...	184	C11H20O2	147254-33-9	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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

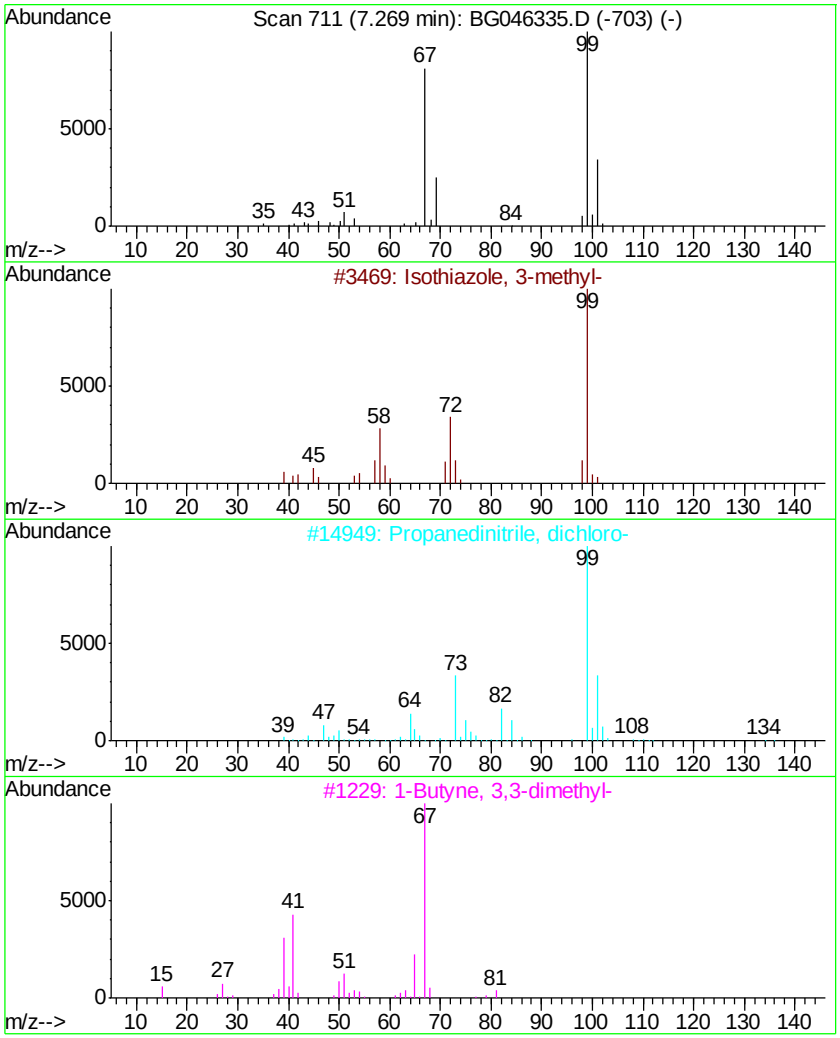
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

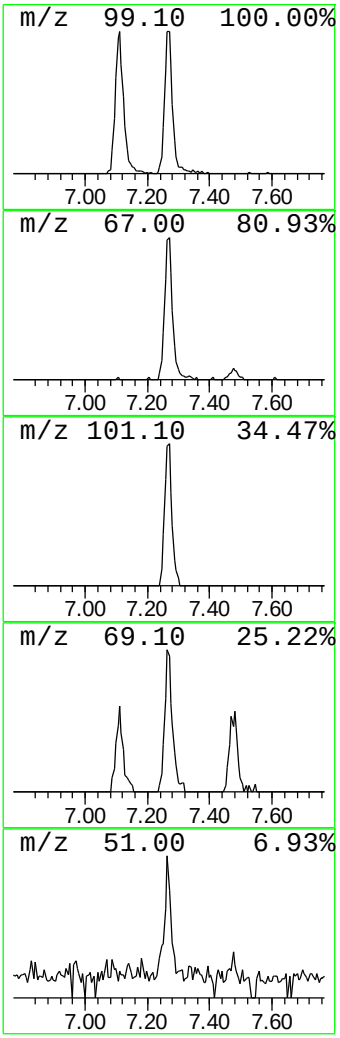
****

Peak Number 3 unknown-01 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.27	3.09 ng/ul	70307	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isothiazole, 3-methyl-	99	C4H5NS	000693-92-5	9
2	Propanedinitrile, dichloro-	134	C3Cl2N2	013063-43-9	9
3	1-Butyne, 3,3-dimethyl-	82	C6H10	000917-92-0	9
4	4-Methylthiazole	99	C4H5NS	000693-95-8	7
5	4-Piperidone	99	C5H9NO	041661-47-6	7





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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

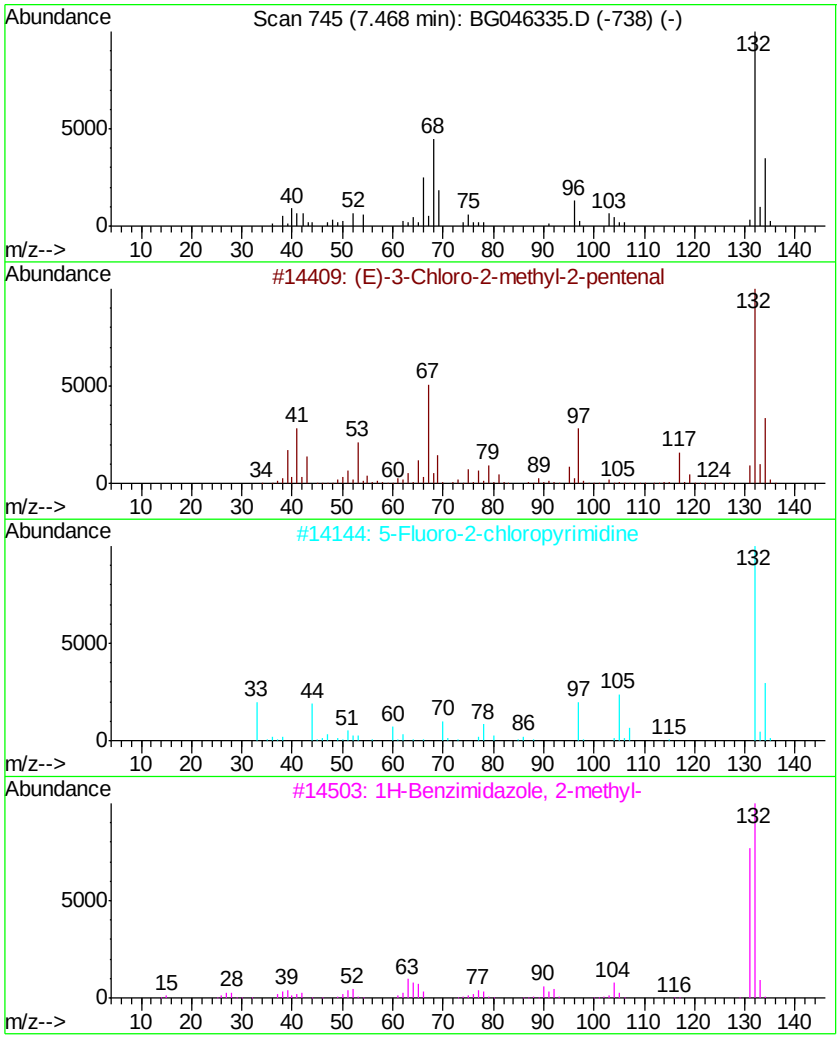
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

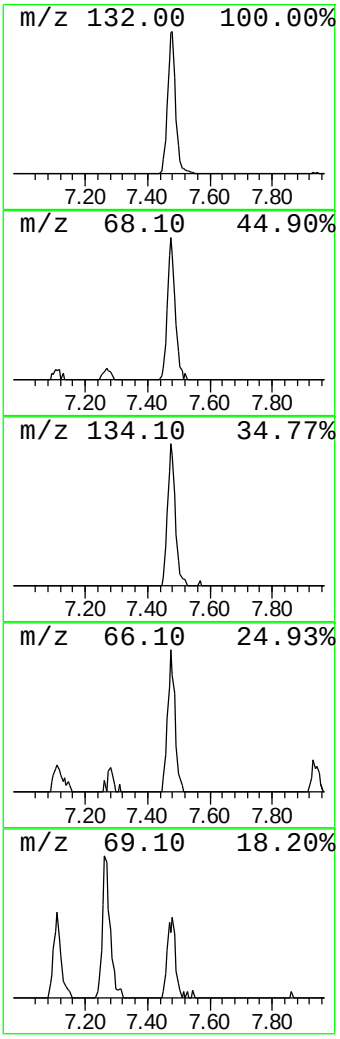
****

Peak Number 4 unknown-02 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.47	3.71 ng/ul	84226	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	12
4	1,2,4-Trifluorobenzene	132	C6H3F3	000367-23-7	10
5	N-(-3,4-Methylenedioxyphenylisop...	267	C17H17NO2	1000378-96-6	10





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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

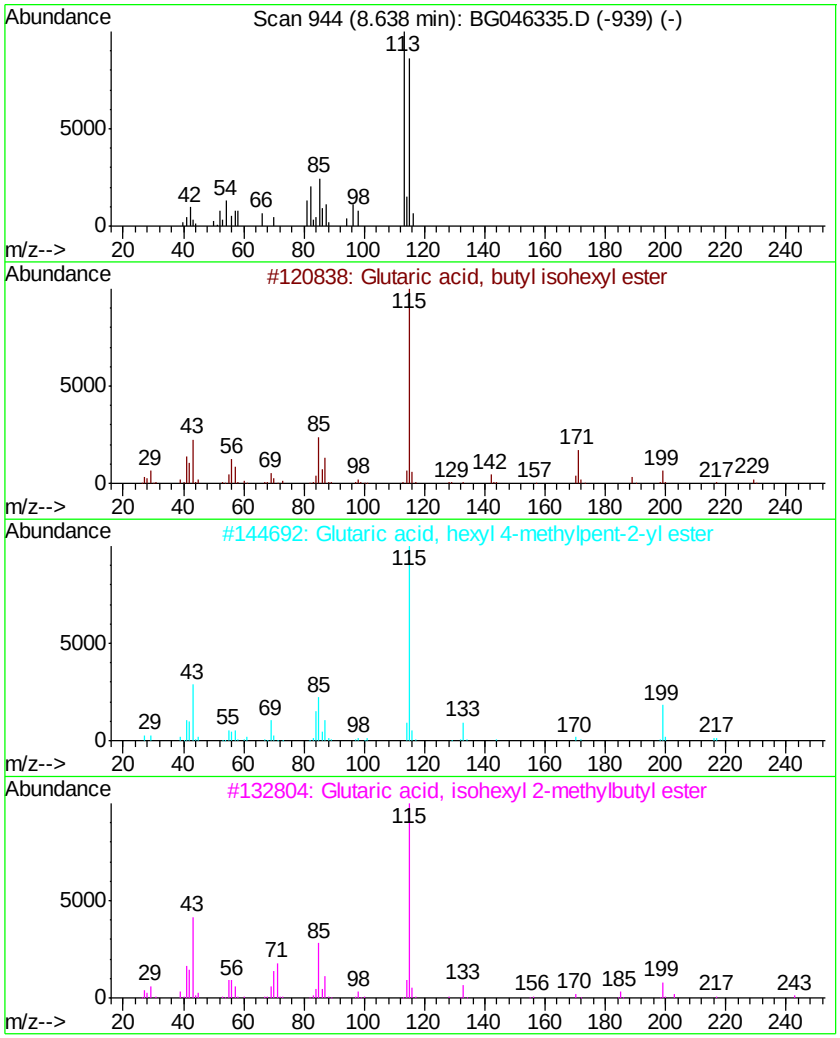
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

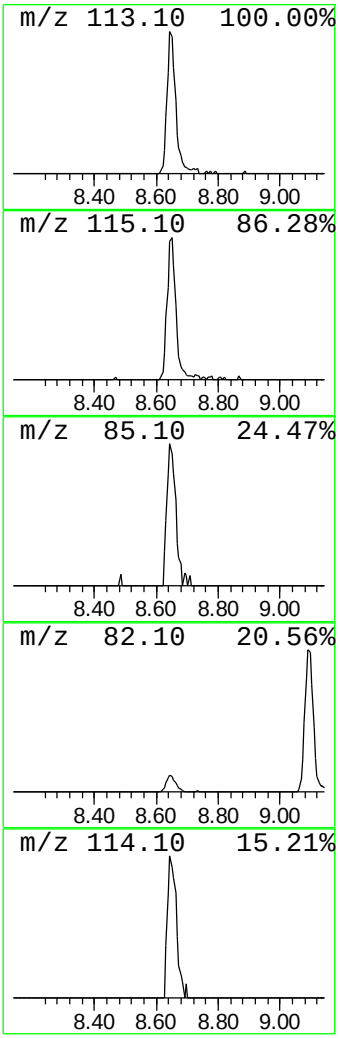
****

Peak Number 5 unknown-03 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.64	3.52 ng/ul	80081	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Glutaric acid, butyl isohexyl ester	272	C15H28O4	1000358-31-7	43
2	Glutaric acid, hexyl 4-methylpen...	300	C17H32O4	1000359-38-2	43
3	Glutaric acid, isohexyl 2-methyl...	286	C16H30O4	1000358-39-4	43
4	Glutaric acid, butyl 3-methylpen...	272	C15H28O4	1000360-05-7	43
5	Glutaric acid, 2-methylpentyl pe...	286	C16H30O4	1000358-41-4	38





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Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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Quant Title : SVOA CALIBRATION

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

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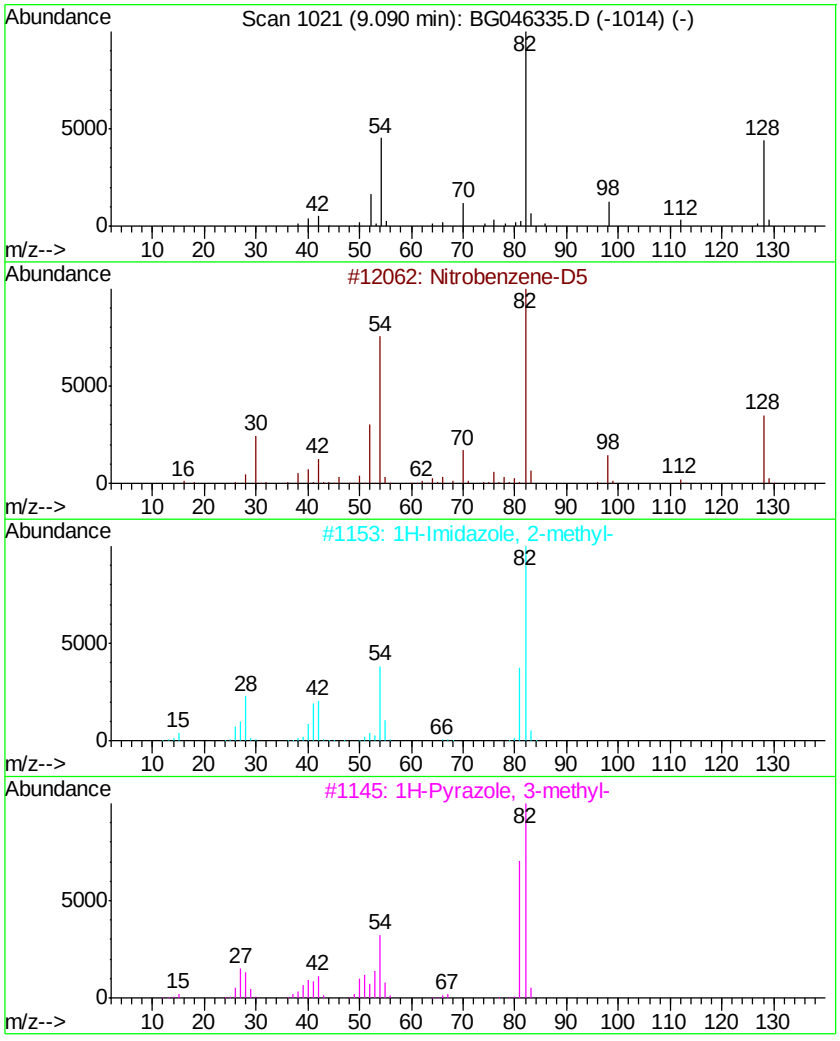
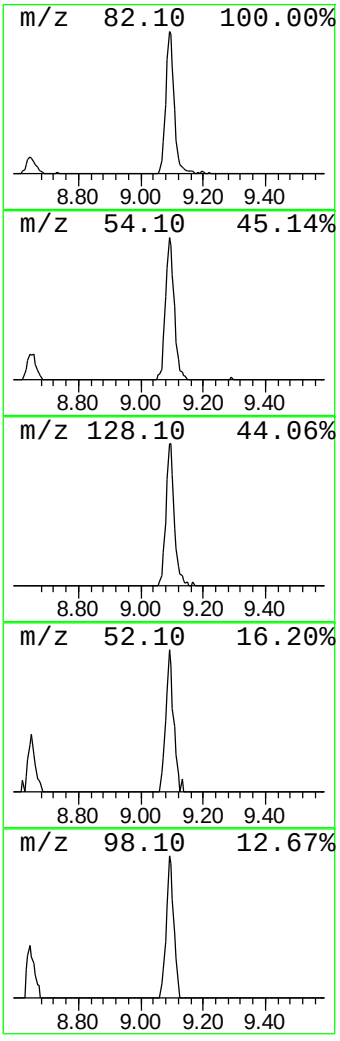
Peak Number 6 unknown-04 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	3.63 ng/ul	82496	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitrobenzene-D5	128	C6D5NO2	004165-60-0	47
2	1H-Imidazole, 2-methyl-	82	C4H6N2	000693-98-1	38
3	1H-Pyrazole, 3-methyl-	82	C4H6N2	001453-58-3	33
4	2-Cyclohexen-1-one, 3-methyl-	110	C7H10O	001193-18-6	28
5	Nitrobenzene-D5	128	C6D5NO2	004165-60-0	25





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Instrument : BNA_G
ClientSampleId : BFMK7

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Quant Title : SVOA CALIBRATION

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

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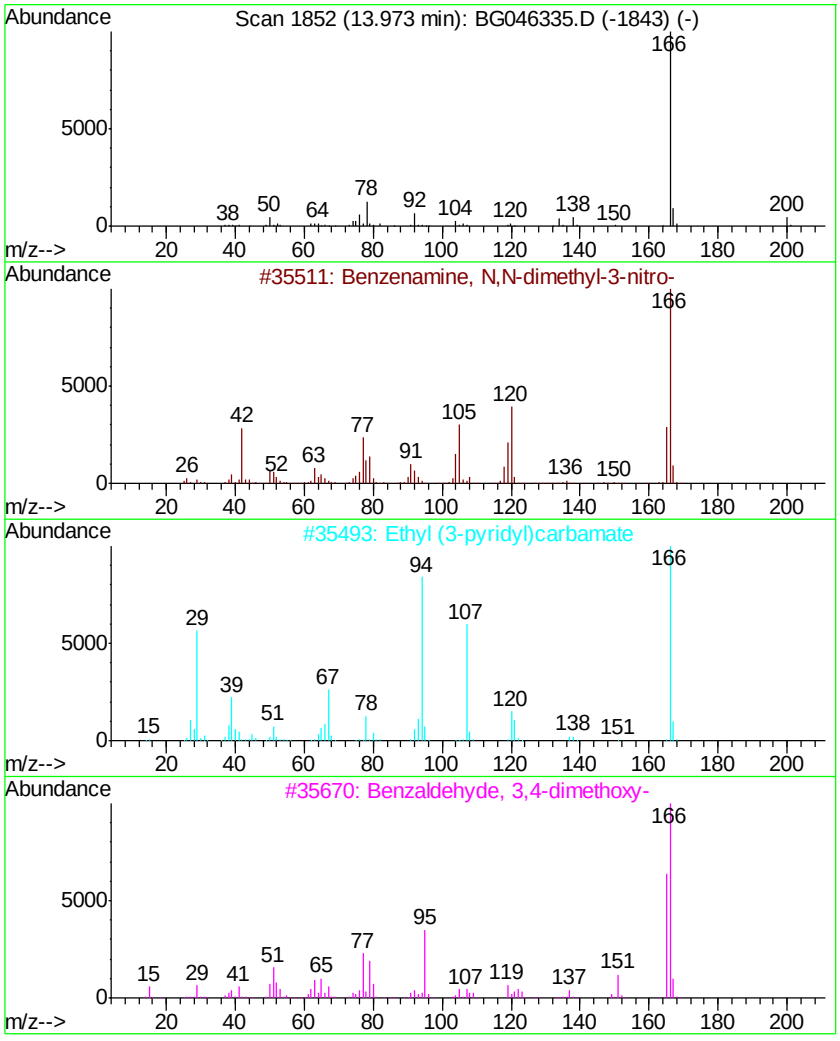
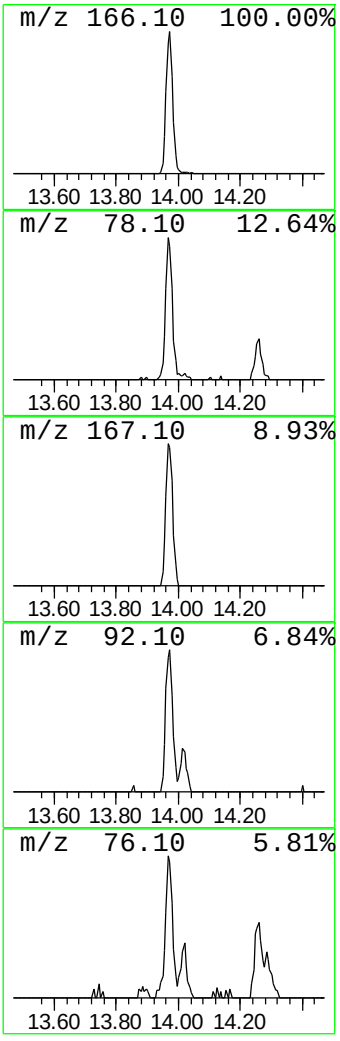
Peak Number 7 Benzenamine, N,N-dimethyl-3... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	4.02 ng/ul	197613	Acenaphthene-d10	14.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, N,N-dimethyl-3-nitro-	166	C8H10N2O2	000619-31-8	64
2	Ethyl (3-pyridyl)carbamate	166	C8H10N2O2	006276-11-5	39
3	Benzaldehyde, 3,4-dimethoxy-	166	C9H10O3	000120-14-9	9
4	1H-Purine, 6-(methylthio)-	166	C6H6N4S	000050-66-8	9
5	p-Anisamidoxime	166	C8H10N2O2	005373-87-5	9





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Operator : CG/JU
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Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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Quant Title : SVOA CALIBRATION

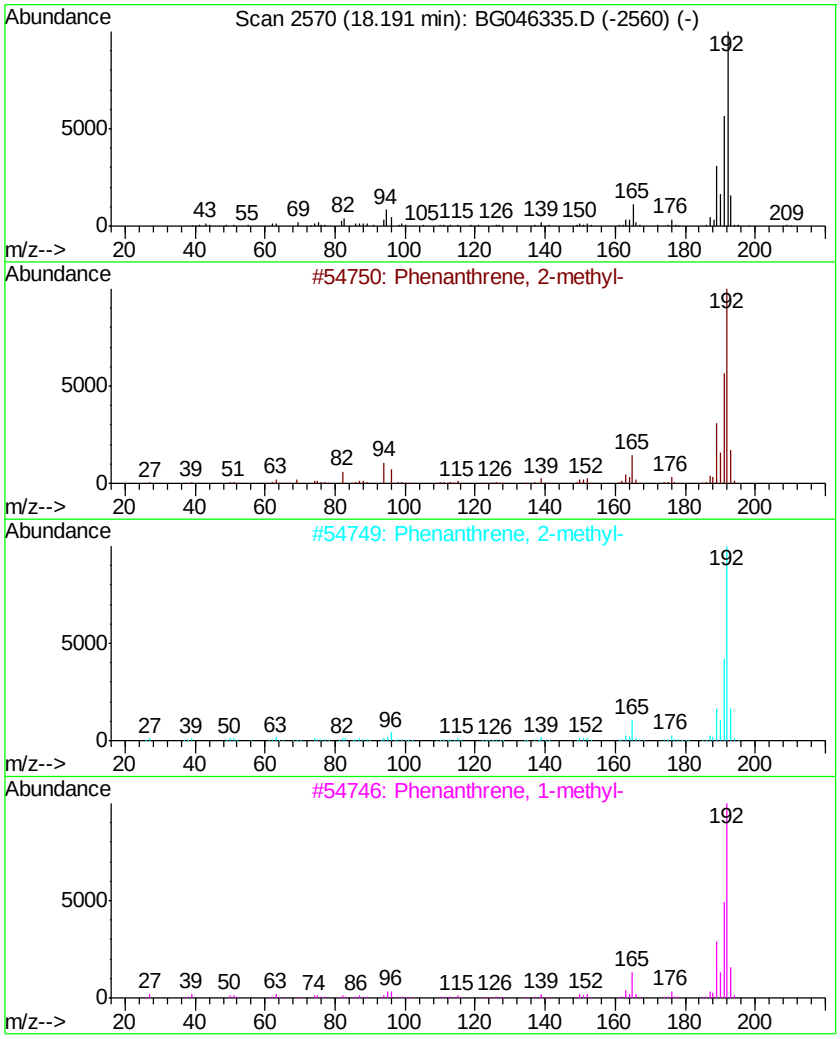
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

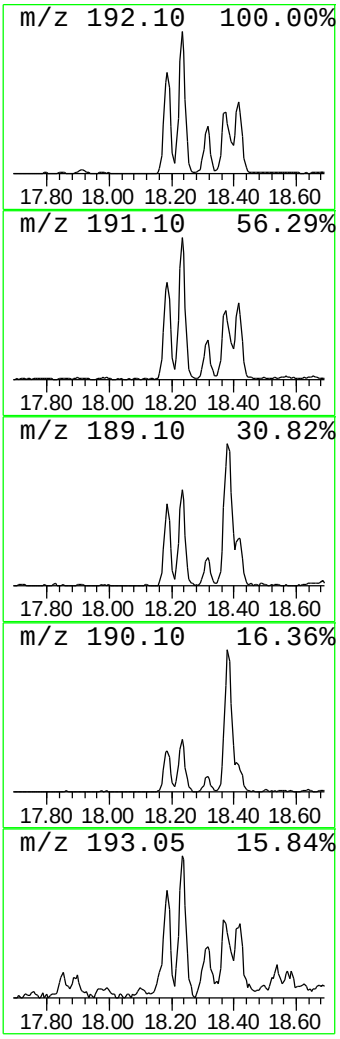
****

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	2.97 ng/ul	185839	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





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Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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Quant Title : SVOA CALIBRATION

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

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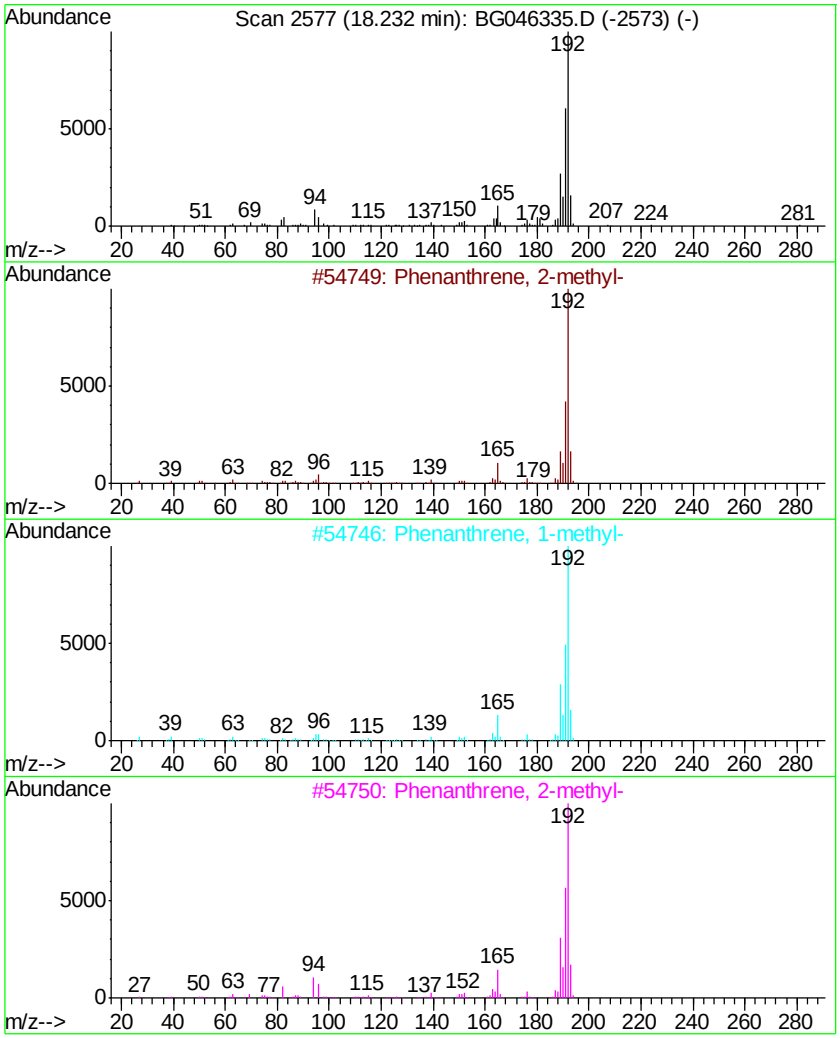
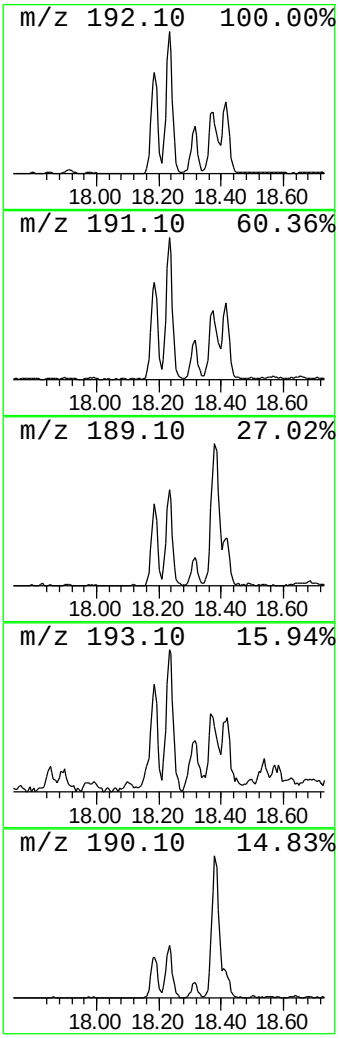
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.23	3.76 ng/ul	235417	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





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Sample : L3636-11
Misc :
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Instrument : BNA_G
ClientSampleId : BFMK7

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Quant Title : SVOA CALIBRATION

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

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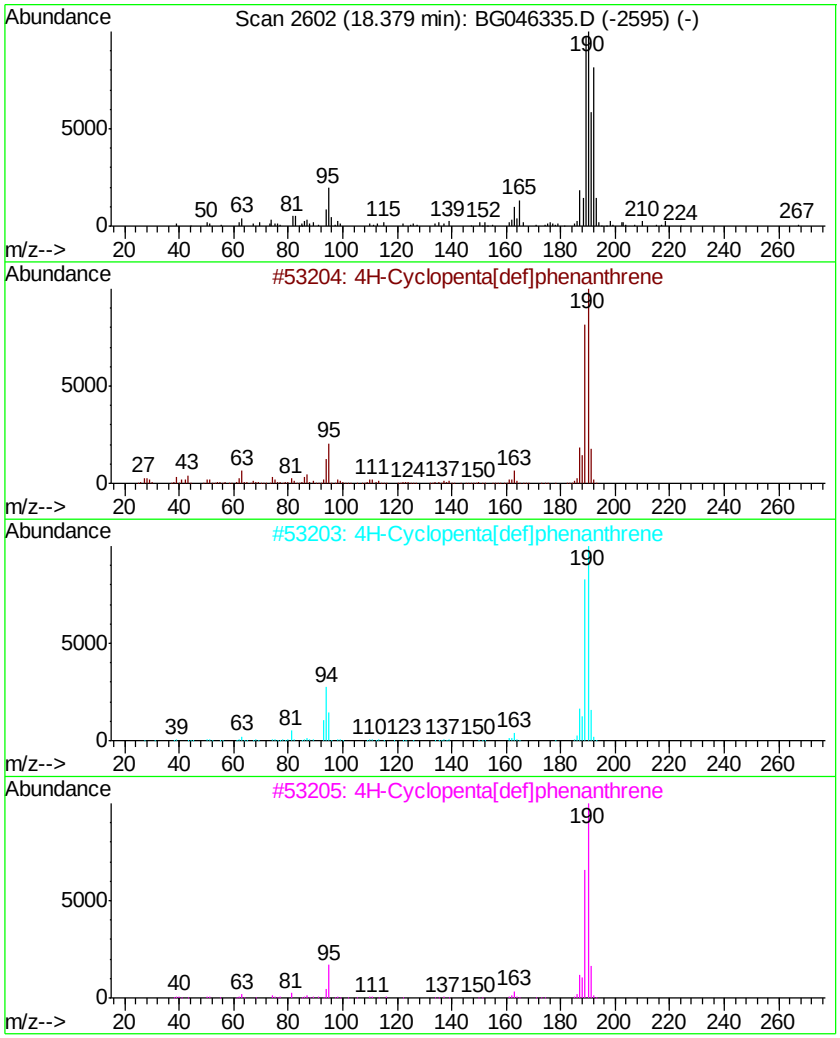
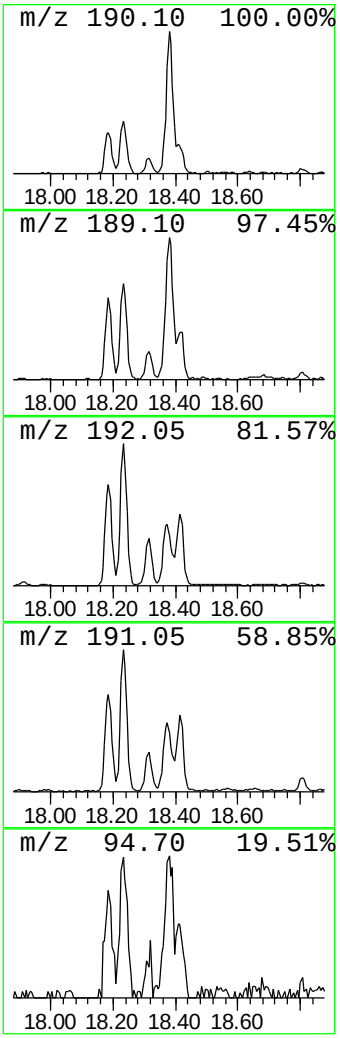
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.38	3.26 ng/ul	203746	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	78
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
5	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	46





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Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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Quant Title : SVOA CALIBRATION

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

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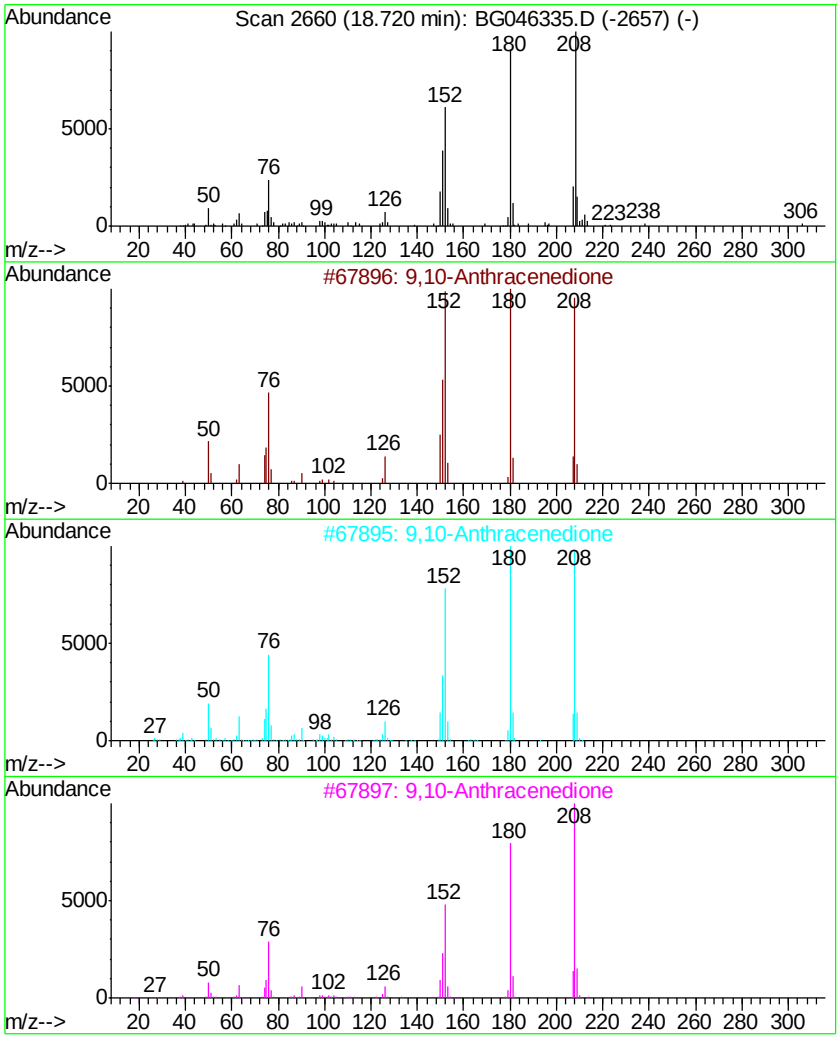
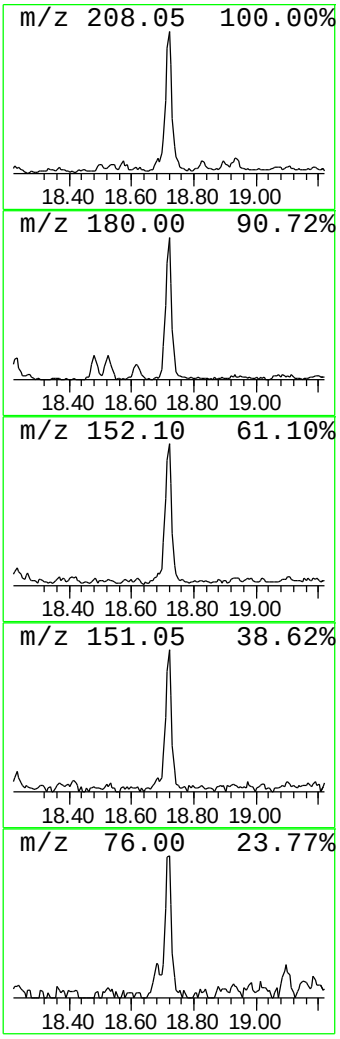
Peak Number 11 9,10-Anthracenedione Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.72	2.05 ng/ul	128276	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	91
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	90
4	5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	58
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	53





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Operator : CG/JU
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Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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Quant Title : SVOA CALIBRATION

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

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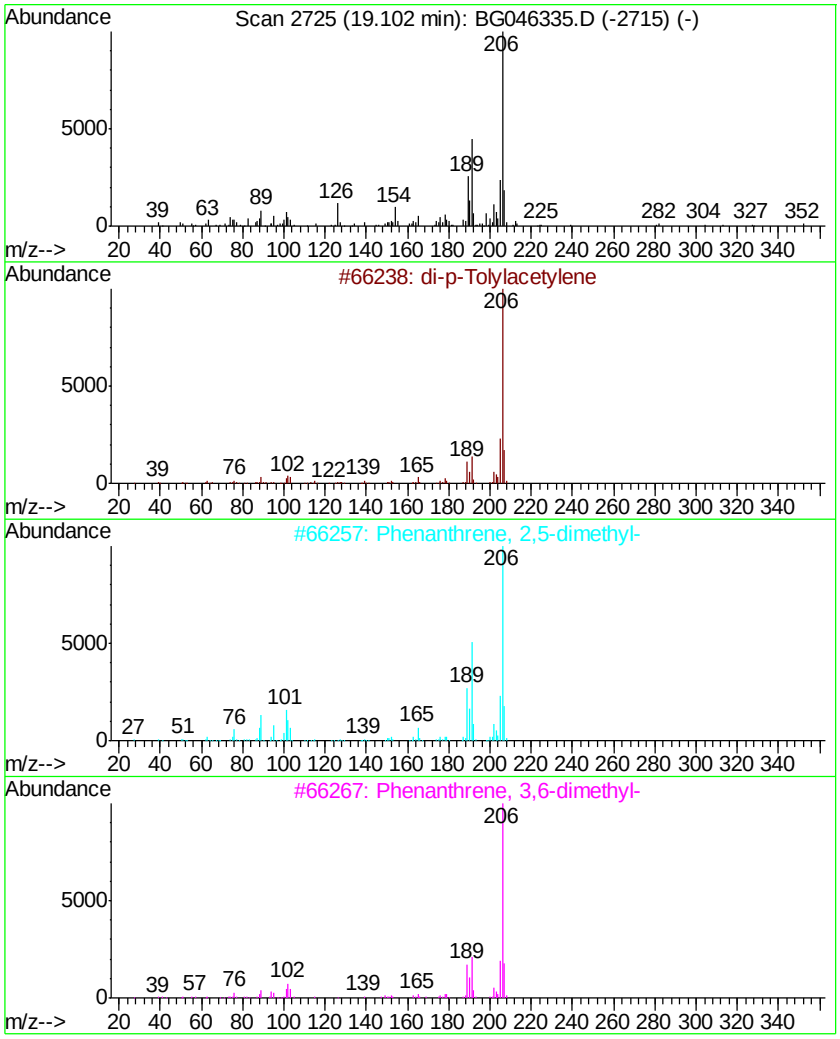
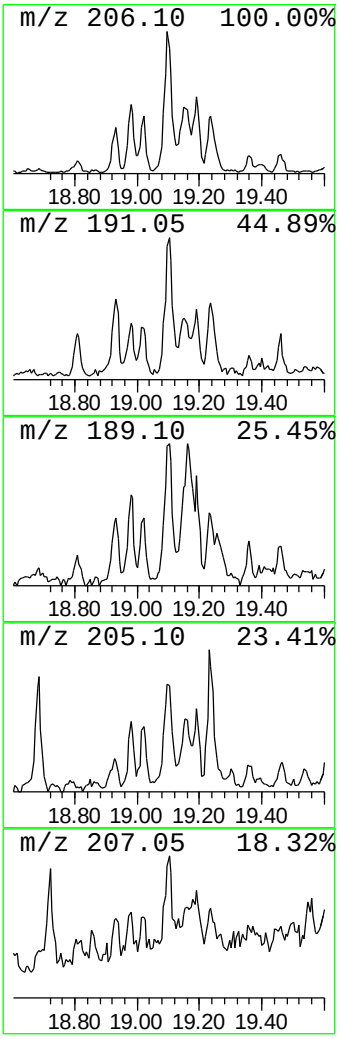
Peak Number 12 di-p-Tolylacetylene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.10	2.56 ng/ul	160125	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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Instrument : BNA_G
ClientSampleId : BFMK7

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Quant Title : SVOA CALIBRATION

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

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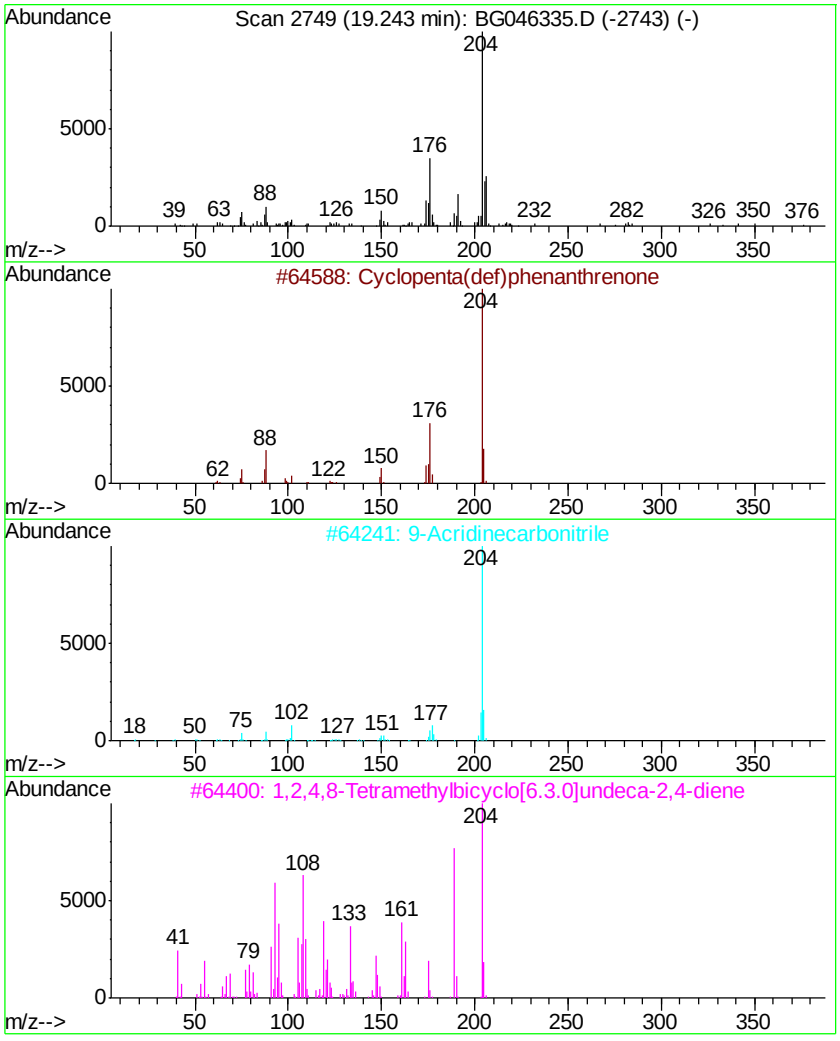
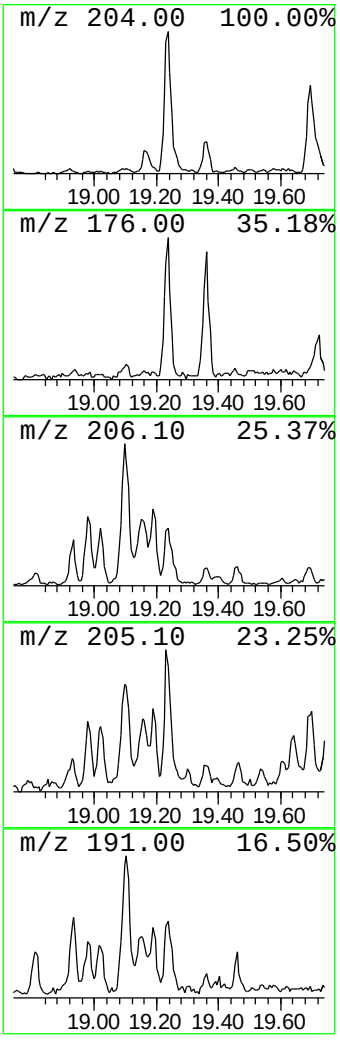
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.24	2.38 ng/ul	149101	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	91
2	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	43
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43
4	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	43
5	1,2,4-Triazolo[2,3-c]thieno[3,2-...	204	C9H8N4S	113246-88-1	40





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Quant Title : SVOA CALIBRATION

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

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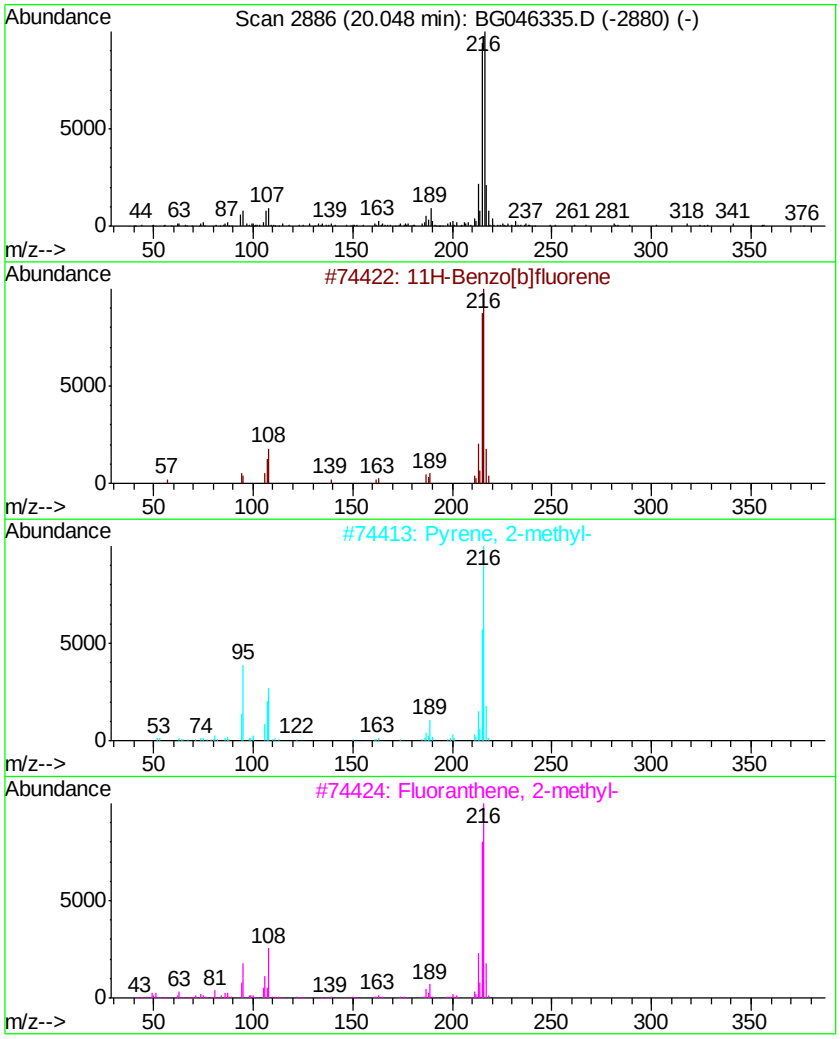
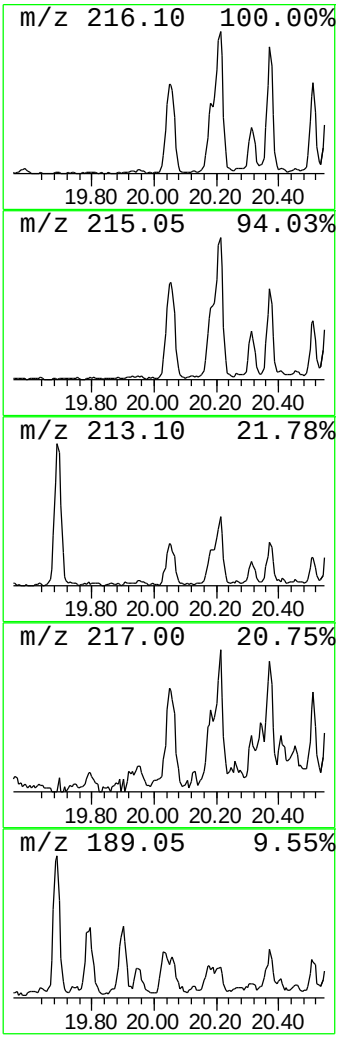
Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.05	2.30 ng/ul	241423	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90





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Misc :
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Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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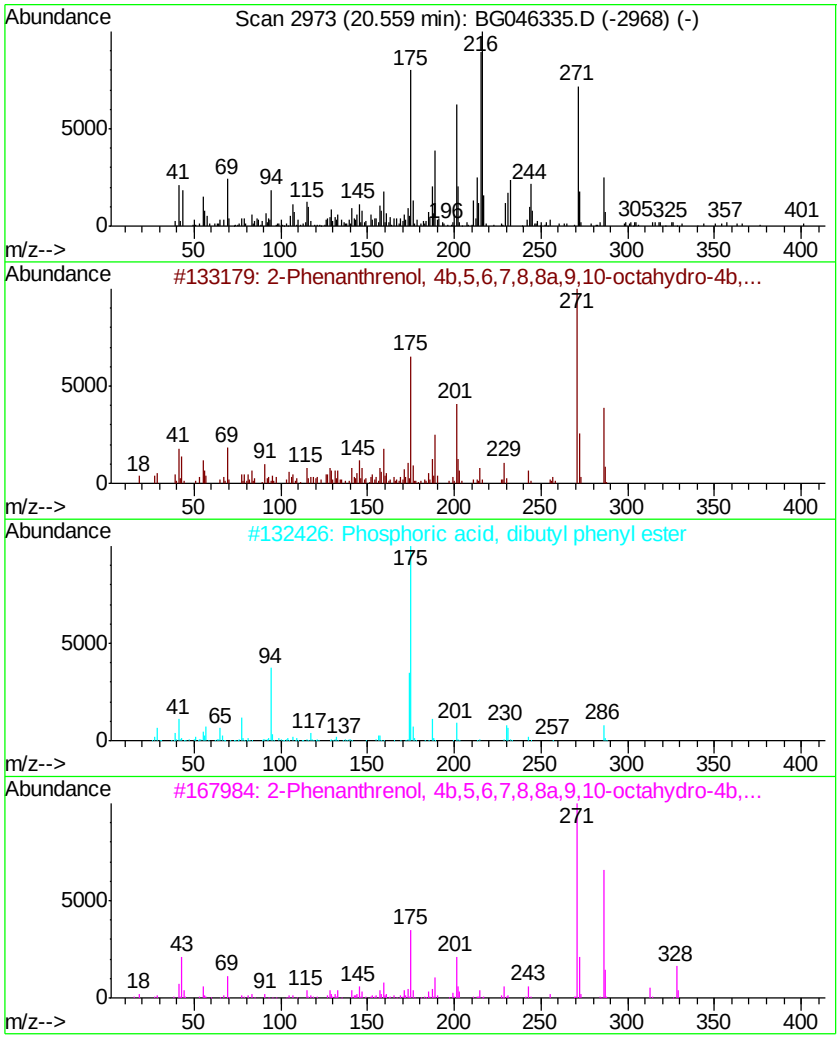
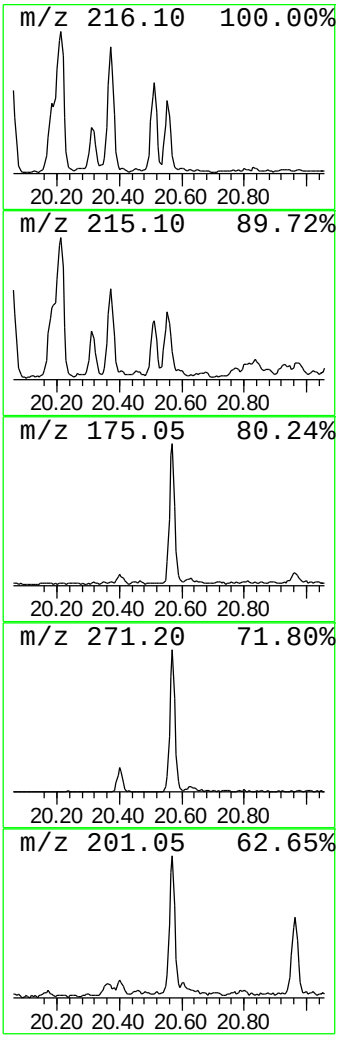
Peak Number 15 2-Phenanthrenol, 4b,5,6,7,8... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.56	2.79 ng/ul	292380	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenanthrenol, 4b,5,6,7,8,8a,9...	286	C20H30O	000511-15-9	64
2	Phosphoric acid, dibutyl phenyl ...	286	C14H23O4P	002528-36-1	35
3	2-Phenanthrenol, 4b,5,6,7,8,8a,9...	328	C22H32O2	015340-82-6	27
4	Oxazole, 2-(1-naphthalenyl)-5-ph...	271	C19H13NO	000846-63-9	27
5	Pyrrolidine, 1-[5-(1,3-benzodiox...	271	C16H17NO3	025924-78-1	22





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Quant Title : SVOA CALIBRATION

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

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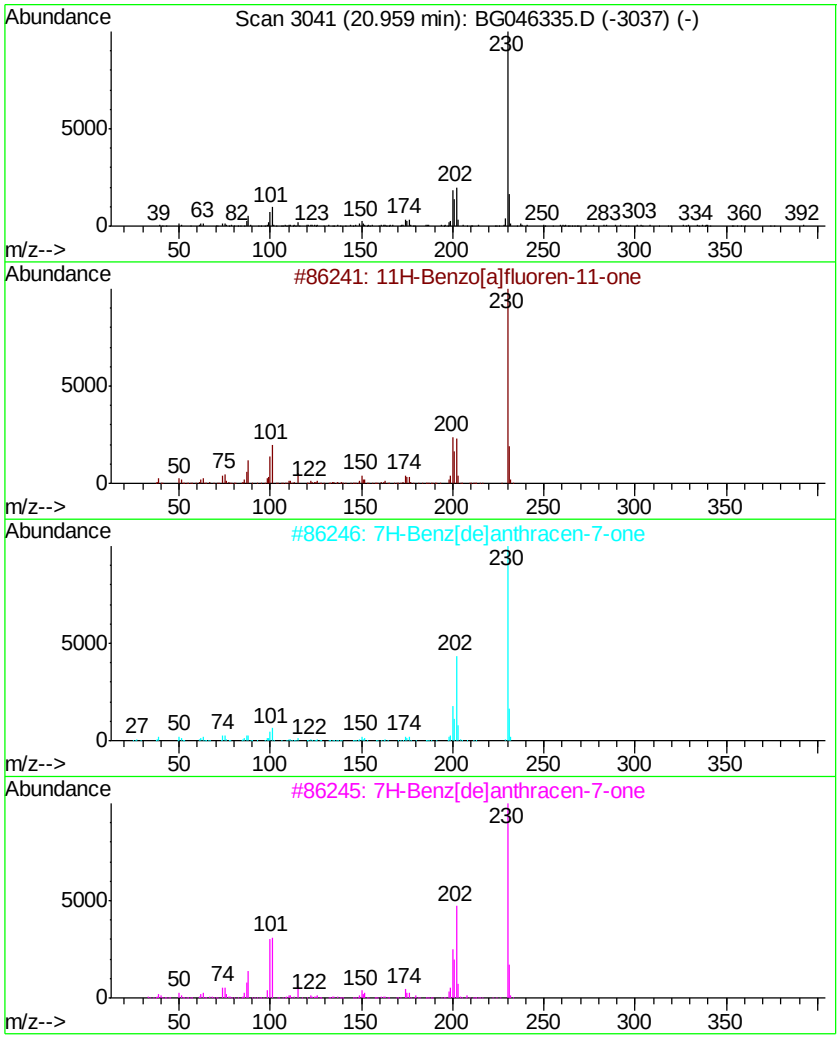
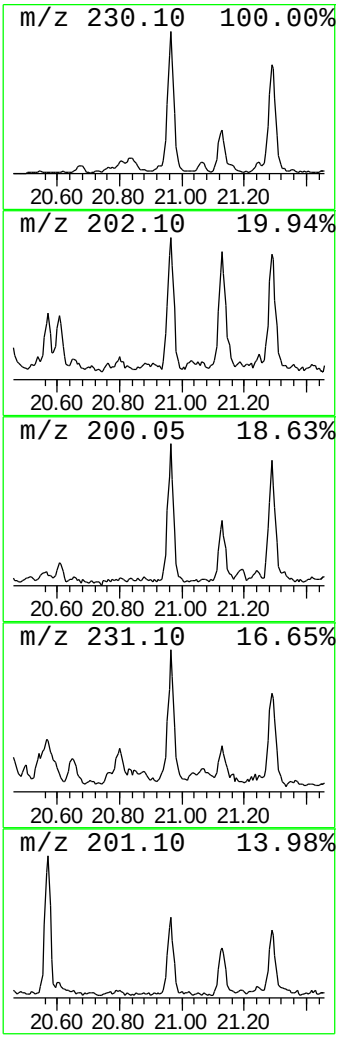
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.96	2.12 ng/ul	222177	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	96
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	87
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
5	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72





Library Search Compound Report

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Data File : BG046335.D
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Sample : L3636-11
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Instrument : BNA_G
ClientSampleId : BFMK7

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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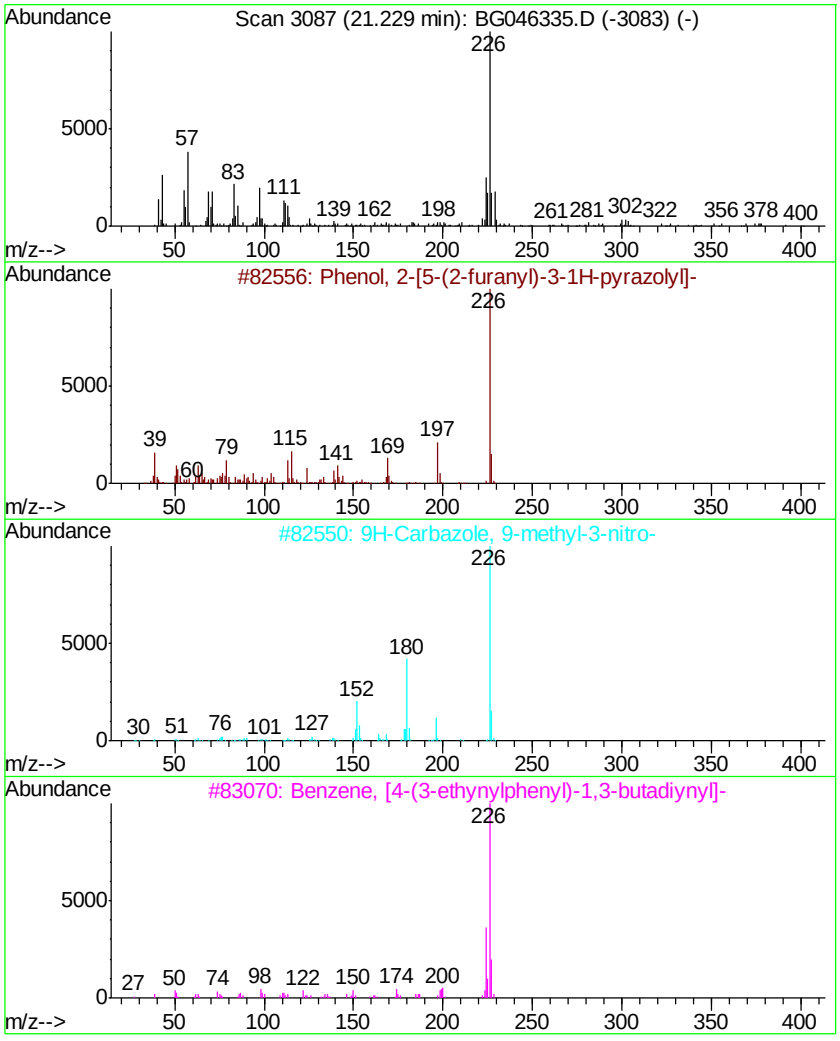
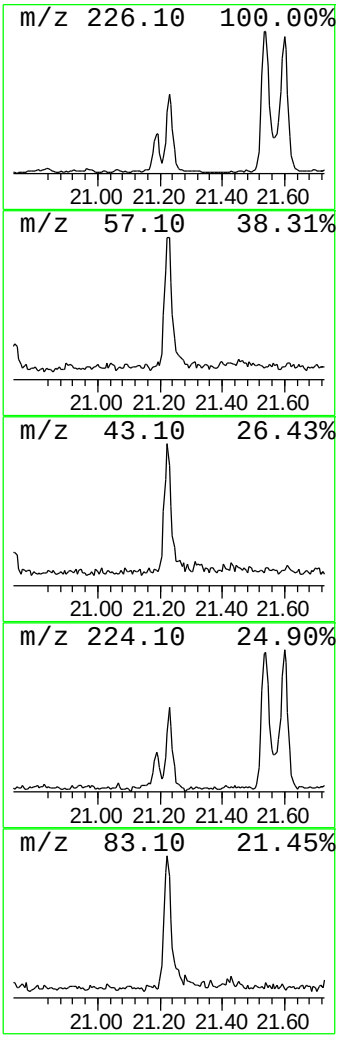
Peak Number 17 unknown-05 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.23	2.18 ng/ul	228163	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2-[5-(2-furanyl)-3-1H-py...	226	C13H10N2O2	038371-84-5	43
2	9H-Carbazole, 9-methyl-3-nitro-	226	C13H10N2O2	061166-05-0	43
3	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	43
4	9H-Xanthen-9-one, 3-methoxy-	226	C14H10O3	003722-52-9	37
5	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	37





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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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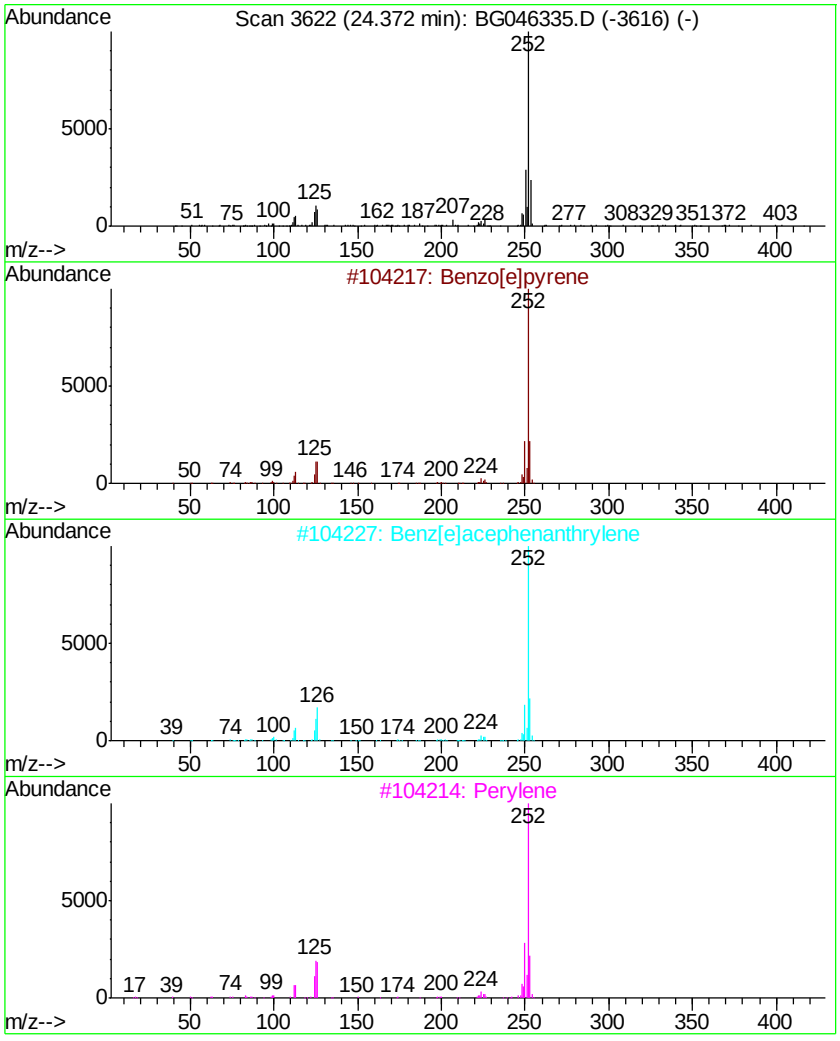
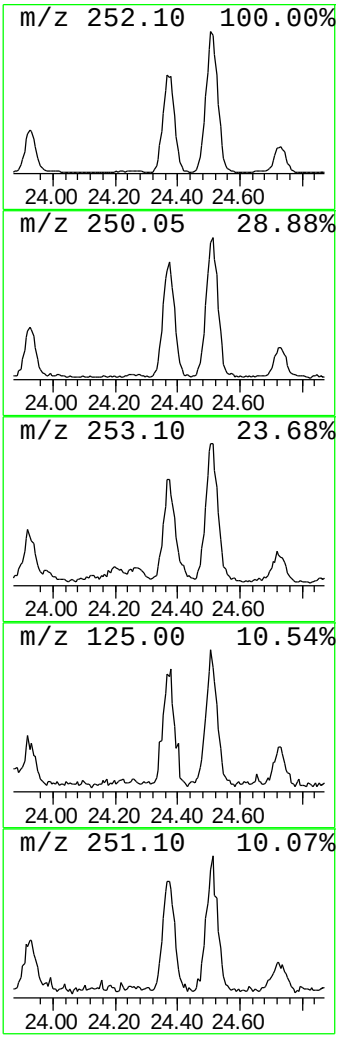
Peak Number 18 Benzo[e]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.37	2.84 ng/ul	209750	Perylene-d12	24.66

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





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

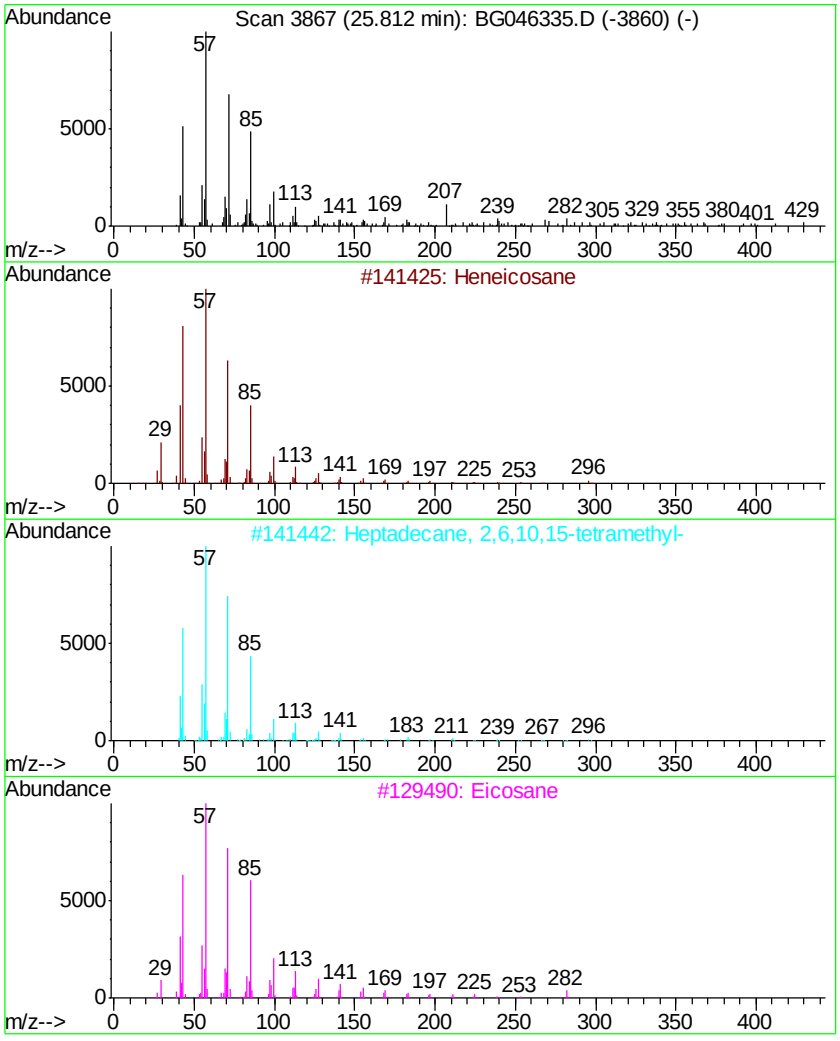
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

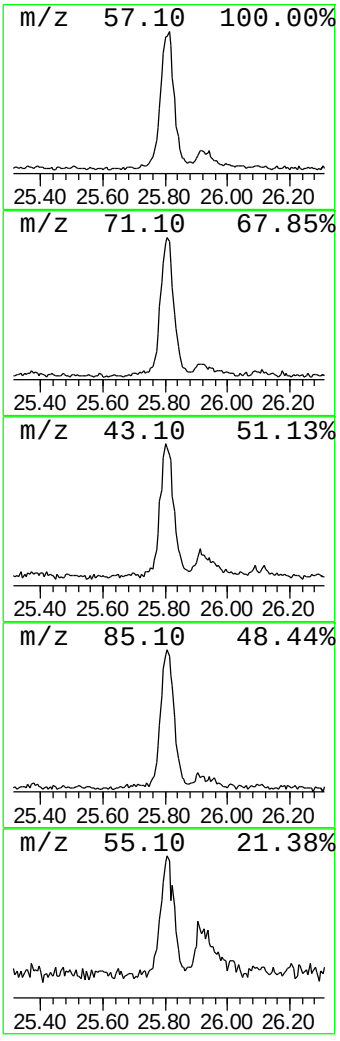
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.81	3.38 ng/ul	249989	Perylene-d12	24.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	93
2	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	93
3	Eicosane	282	C20H42	000112-95-8	93
4	Heptadecane	240	C17H36	000629-78-7	93
5	Eicosane	282	C20H42	000112-95-8	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG081720\
Data File : BG046335.D
Acq On : 18 Aug 2020 19:52
Operator : CG/JU
Sample : L3636-11
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMK7

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	88.3	ng/ul	2005870	1	7.94	454581	20.0
Hexanoic acid, 2-...	7.11	3.2	ng/ul	73380	1	7.94	454581	20.0
unknown-01	7.27	3.1	ng/ul	70307	1	7.94	454581	20.0
unknown-02	7.47	3.7	ng/ul	84226	1	7.94	454581	20.0
unknown-03	8.64	3.5	ng/ul	80081	1	7.94	454581	20.0
unknown-04	9.09	3.6	ng/ul	82496	1	7.94	454581	20.0
Benzenamine, N,N-...	13.97	4.0	ng/ul	197613	3	14.57	983802	20.0
Phenanthrene, 2-m...	18.19	3.0	ng/ul	185839	4	17.31	1250900	20.0
Phenanthrene, 1-m...	18.23	3.8	ng/ul	235417	4	17.31	1250900	20.0
4H-Cyclopenta[def...	18.38	3.3	ng/ul	203746	4	17.31	1250900	20.0
9,10-Anthracenedione	18.72	2.0	ng/ul	128276	4	17.31	1250900	20.0
di-p-Tolylacetylene	19.10	2.6	ng/ul	160125	4	17.31	1250900	20.0
Cyclopenta(def)ph...	19.24	2.4	ng/ul	149101	4	17.31	1250900	20.0
11H-Benzo[b]fluorene	20.05	2.3	ng/ul	241423	5	21.56	2095630	20.0
2-Phenanthrenol, ...	20.56	2.8	ng/ul	292380	5	21.56	2095630	20.0
11H-Benzo[a]fluor...	20.96	2.1	ng/ul	222177	5	21.56	2095630	20.0
unknown-05	21.23	2.2	ng/ul	228163	5	21.56	2095630	20.0
Benzo[e]pyrene	24.37	2.8	ng/ul	209750	6	24.66	1477810	20.0
(DEL) Alkane: Str...	25.81	3.4	ng/ul	249989	6	24.66	1477810	20.0