LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\
Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

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-BG080319MA.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	3.140	5	9	34	rVB	2302896	3797768	100.00%	6.182%
2	4.168	178	184	193	rBV	67036	108649	2.86%	0.177%
3	7.182	688	697	711	rVB	294694	585000	15.40%	0.952%
4	7.341	718	724	742	rVB	223875	390803	10.29%	0.636%
5	7.553	753	760	771	rVV	335002	583467	15.36%	0.950%
6	8.023	833	840	848	rBV	247292	440851	11.61%	0.718%
7	8.733	954	961	972	rBV	386580	706045	18.59%	1.149%
8	9.192	1027	1039	1047	rBV	291681	531521	14.00%	0.865%
9	9.356	1062	1067	1078	rBV2	35563	59060	1.56%	0.096%
10	9.920	1154	1163	1179	rBV	260508	494829	13.03%	0.805%
11	10.467	1247	1256	1275	rBV	433023	838434	22.08%	1.365%
12	10.849	1312	1321	1326	rBV	352034	683515	18.00%	1.113%
13	10.896	1326	1329	1336	rVV	136107	235614	6.20%	0.384%
14	10.978	1336	1343	1358	rVB	343429	681378	17.94%	1.109%
15	12.511	1598	1604	1613	rVB	68818	116554	3.07%	0.190%
16	12.729	1635	1641	1651	rVB	41506	73981	1.95%	0.120%
17	13.516	1768	1775	1779	rBV2	30378	52112	1.37%	0.085%
18	13.863	1825	1834	1841	rBV3	27728	75397	1.99%	0.123%
19	14.004	1852	1858	1864	rBV2	38888	73333	1.93%	0.119%
20	14.086	1864	1872	1876	rVV	792150	1213971	31.97%	1.976%
21	14.127	1876	1879	1885	rVB	130603	189905	5.00%	0.309%
22	14.380	1909	1922	1938	rBV	958189	1635679	43.07%	2.662%
23	14.685	1963	1974	1980	rBV	634069	1030392	27.13%	1.677%
24	14.750	1980	1985	1992	rVV	193418	320156	8.43%	0.521%
25	14.879	2001	2007	2019	rBV	232107	474009	12.48%	0.772%
26	15.085	2036	2042	2050	rVV	157093	265630	6.99%	0.432%
27	15.479	2101	2109	2112	rBV4	22721	51288	1.35%	0.083%
28	15.678	2134	2143	2148	rBV	1287257	1946515	51.25%	3.168%
29	15.731	2148	2152	2158	rVB	226678	322126	8.48%	0.524%
30	15.796	2158	2163	2171	rBV	229929	385765	10.16%	0.628%
31	15.896	2177	2180	2186	rBV4	22464	45316	1.19%	0.074%
32	16.031	2198	2203	2210	rVB	60952	105051	2.77%	0.171%
33	16.172	2220	2227	2236	rBV	55339	127787	3.36%	0.208%
34	16.401	2259	2266	2273	rBV7	40571	101395	2.67%	0.165%

LSC Area Percent Report

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Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

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-BG080319MA.M
Title : SVOA CALIBRATION

35	16.742	2315	2324	2329	rVV4	49020	122831	3.23%	0.200%
36	16.789	2329	2332	2338	rVV3	26152	49514	1.30%	0.081%
37	16.971	2355	2363	2367	rBV5	33659	77782	2.05%	0.127%
38	17.012	2367	2370	2378	rVV2	34107	70906	1.87%	0.115%
39	17.088	2378	2383	2391	rVV2	74060	134813	3.55%	0.219%
40	17.188	2391	2400	2405	rVV5	47682	125107	3.29%	0.204%
41	17.253	2406	2411	2420	rVB	127022	211173	5.56%	0.344%
42	17.441	2435	2443	2446	rBV	725365	1191774	31.38%	1.940%
43	17.482	2446	2450	2455	rVV	1829643	2781295	73.23%	4.527%
44	17.541	2455	2460	2463	rVV	1247539	2043590	53.81%	3.326%
45	17.570	2463	2465	2471	rVV	473517	602874	15.87%	0.981%
46	17.629	2471	2475	2480	rVB3	21743	39857	1.05%	0.065%
47	17.840	2505	2511	2516	rBV	179676	303373	7.99%	0.494%
48	17.958	2524	2531	2536	rVB2	39641	81229	2.14%	0.132%
49	18.023	2538	2542	2550	rVB2	47162	83748	2.21%	0.136%
50	18.169	2562	2567	2574	rVB2	25272	45471	1.20%	0.074%
51	18.316	2587	2592	2596	rBV	210643	312868	8.24%	0.509%
52	18.363	2596	2600	2609	rVV	311285	455054	11.98%	0.741%
53	18.446	2609	2614	2619	rVV	96107	139300	3.67%	0.227%
54	18.510	2619	2625	2629	rVV2	326499	614896	16.19%	1.001%
55	18.546	2629	2631	2638	rVB	146298	194487	5.12%	0.317%
56	18.622	2640	2644	2647	rBV4	37390	56879	1.50%	0.093%
57	18.810	2671	2676	2680	rVV	178365	260762	6.87%	0.424%
58	18.851	2680	2683	2690	rVB2	124732	189239	4.98%	0.308%
59	19.057	2714	2718	2721	rVV2	79578	115787	3.05%	0.188%
60	19.110	2723	2727	2730	rVV	63300	96130	2.53%	0.156%
61	19.145	2730	2733	2737	rVB	53615	70983	1.87%	0.116%
62	19.233	2742	2748	2753	rBV	109723	220463	5.81%	0.359%
63	19.321	2761	2763	2766	rVB2	53631	49873	1.31%	0.081%
64	19.368	2767	2771	2779	rVB3	100093	174401	4.59%	0.284%
65	19.497	2786	2793	2798	rVB	2340910	3577768	94.21%	5.824%
66	19.550	2798	2802	2806	rBV	52793	66177	1.74%	0.108%
67	19.591	2806	2809	2813	rVB2	33269	41512	1.09%	0.068%
68	19.685	2821	2825	2828	rBV4	35718	51643	1.36%	0.084%
69	19.732	2829	2833	2842	rVB3	93730	183403	4.83%	0.299%
70	19.826	2843	2849	2852	rBV2	1992837	3428617	90.28%	5.581%
71	19.856	2852	2854	2861	rVV	2082786	2550995	67.17%	4.152%

LSC Area Percent Report

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Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

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-BG080319MA.M
Title : SVOA CALIBRATION

72	19.926	2861	2866	2872	rVB2	126687	210160	5.53%	0.342%
73	20.032	2880	2884	2890	rVB	131010	196480	5.17%	0.320%
74	20.179	2902	2909	2915	rBV3	168768	471482	12.41%	0.767%
75	20.314	2927	2932	2933	rBV2	110322	169926	4.47%	0.277%
76	20.343	2933	2937	2943	rVB	421885	630374	16.60%	1.026%
77	20.443	2950	2954	2958	rBV2	306431	379665	10.00%	0.618%
78	20.502	2958	2964	2968	rVV2	196804	348810	9.18%	0.568%
79	20.537	2968	2970	2974	rVB	85247	99646	2.62%	0.162%
80	20.643	2984	2988	2991	rBV2	117198	157674	4.15%	0.257%
81	20.684	2992	2995	2999	rVV	106600	143393	3.78%	0.233%
82	21.107	3063	3067	3074	rVB	159394	278649	7.34%	0.454%
83	21.295	3095	3099	3103	rVB2	131721	187837	4.95%	0.306%
84	21.336	3103	3106	3108	rBV	145359	180173	4.74%	0.293%
85	21.366	3109	3111	3120	rVB2	199429	452492	11.91%	0.737%
86	21.706	3162	3169	3176	rBV3	1434696	3721430	97.99%	6.057%
87	21.771	3176	3180	3191	rVB	1000369	1709281	45.01%	2.782%
88	21.924	3201	3206	3212	rBV	259123	419303	11.04%	0.683%
89	22.130	3237	3241	3249	rVB2	126380	226205	5.96%	0.368%
90	22.459	3294	3297	3303	rVB	162007	274929	7.24%	0.448%
91	22.541	3306	3311	3316	rBV2	187603	330163	8.69%	0.537%
92	23.957	3543	3552	3560	rBV2	720774	2597700	68.40%	4.228%
93	24.074	3568	3572	3579	rVB2	189670	387768	10.21%	0.631%
94	24.215	3591	3596	3604	rVB	172170	388032	10.22%	0.632%
95	24.691	3670	3677	3683	rBV	334707	890197	23.44%	1.449%
96	24.773	3684	3691	3697	rVV	770844	2001165	52.69%	3.257%
97	24.844	3698	3703	3716	rVB	671254	1692152	44.56%	2.754%
98	24.997	3720	3729	3735	rBV2	480791	1415739	37.28%	2.304%
99	26.201	3929	3934	3947	rVB2	191894	564576	14.87%	0.919%
100	28.734	4352	4365	4387	rVB4	250120	1350716	35.57%	2.199%

Sum of corrected areas: 61435987

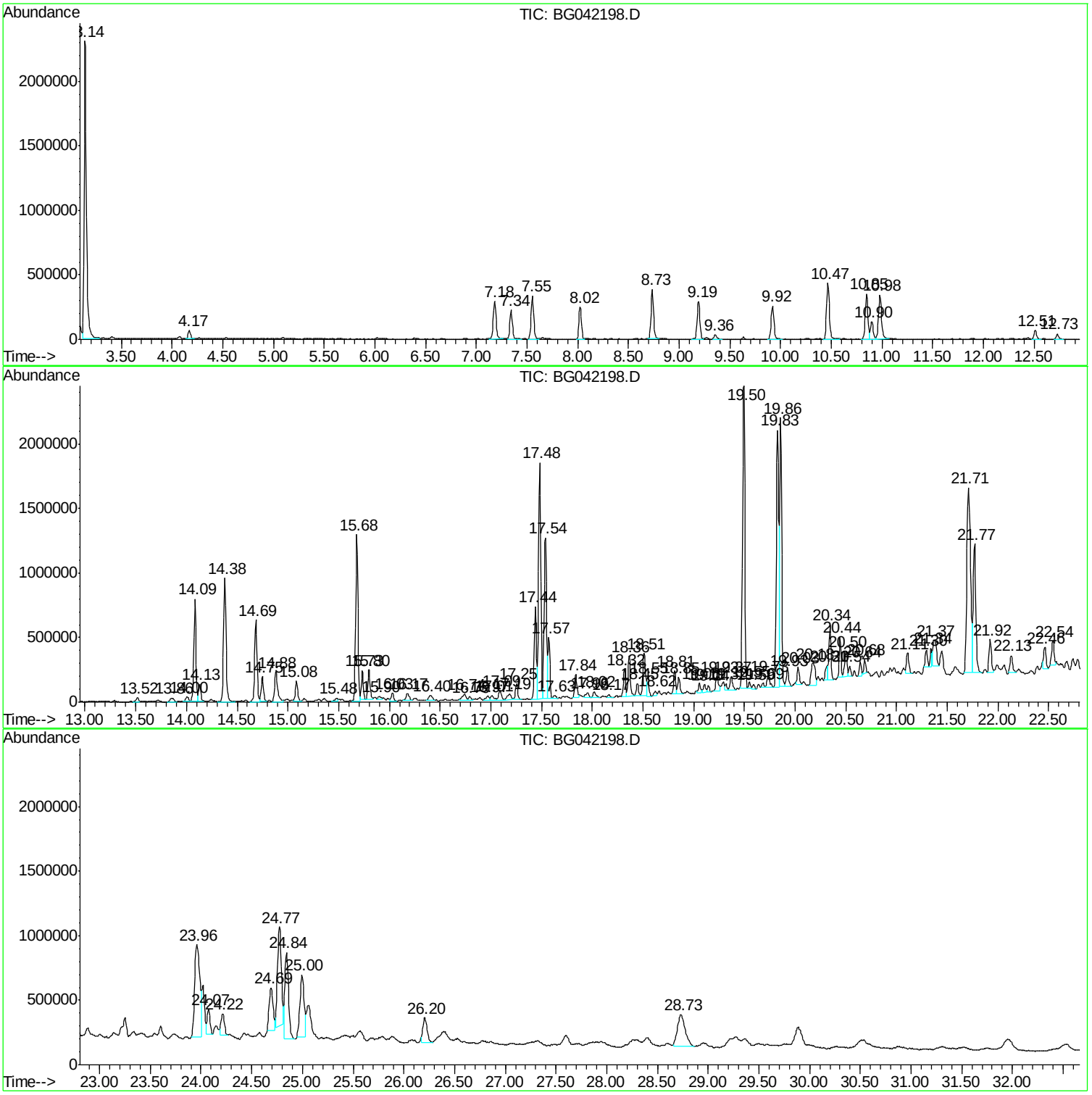
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\
Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.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 G\DATA\BG081319\
Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

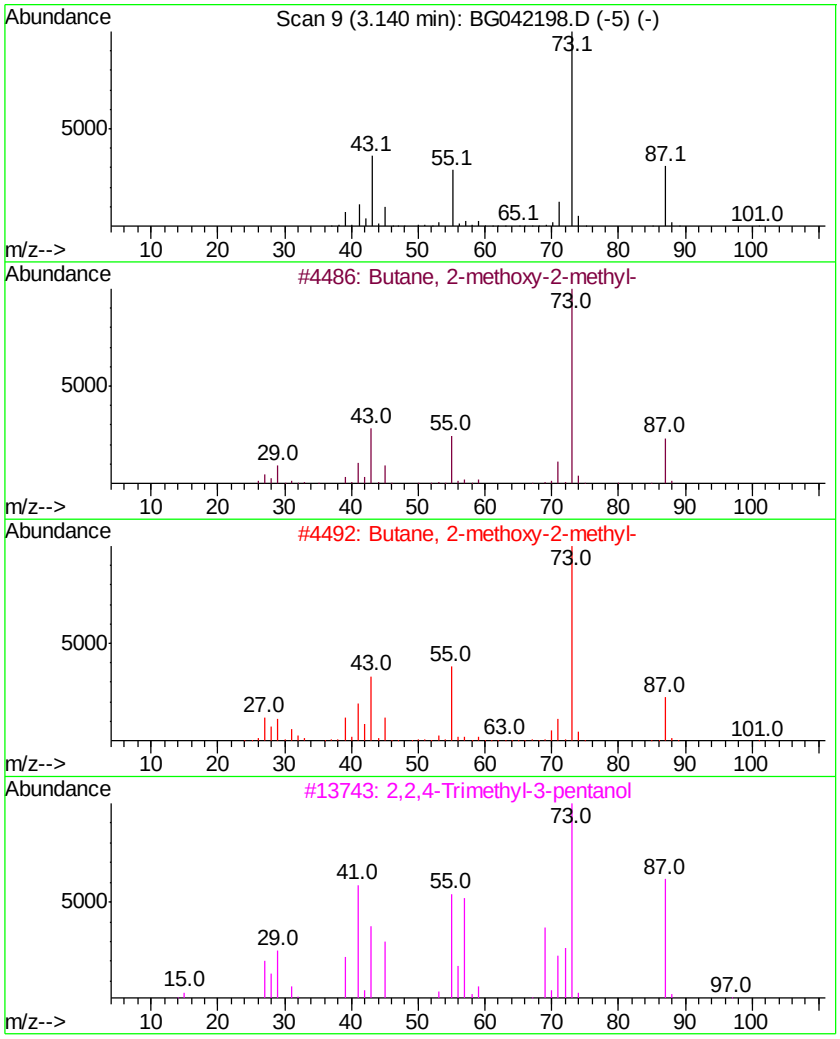
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

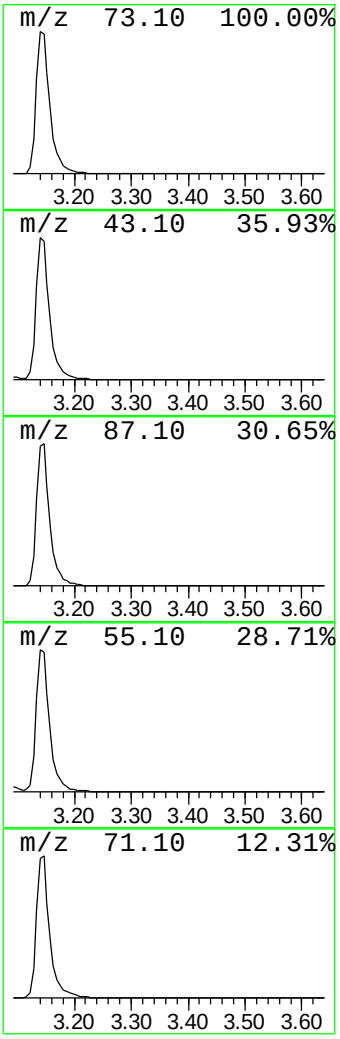
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.14	172.29 ng/ul	3797770	1,4-Dichlorobenzene-d4	8.02

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	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\
Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

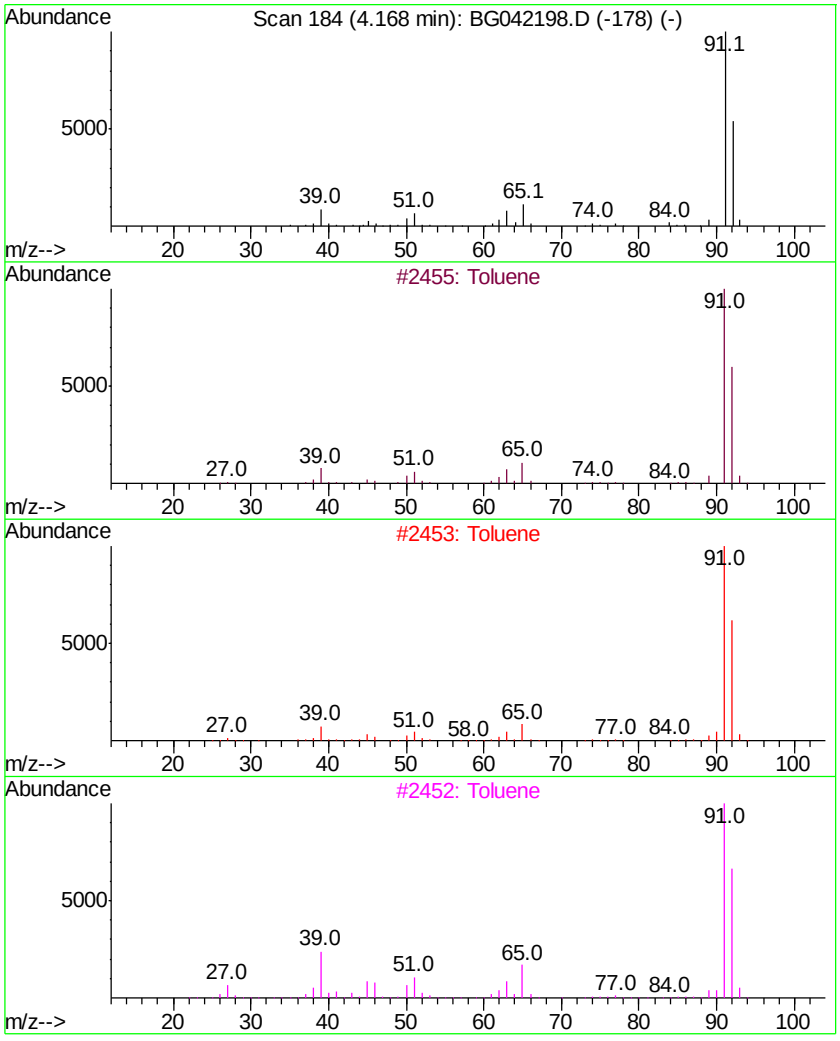
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

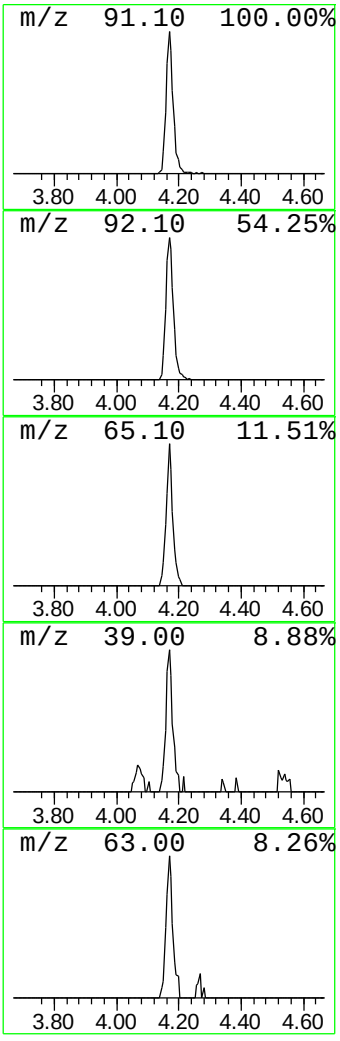
****

Peak Number 2 Toluene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.17	4.93 ng/ul	108649	1,4-Dichlorobenzene-d4	8.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	94
2	Toluene	92	C7H8	000108-88-3	90
3	Toluene	92	C7H8	000108-88-3	90
4	Toluene	92	C7H8	000108-88-3	90
5	Toluene	92	C7H8	000108-88-3	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\
Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

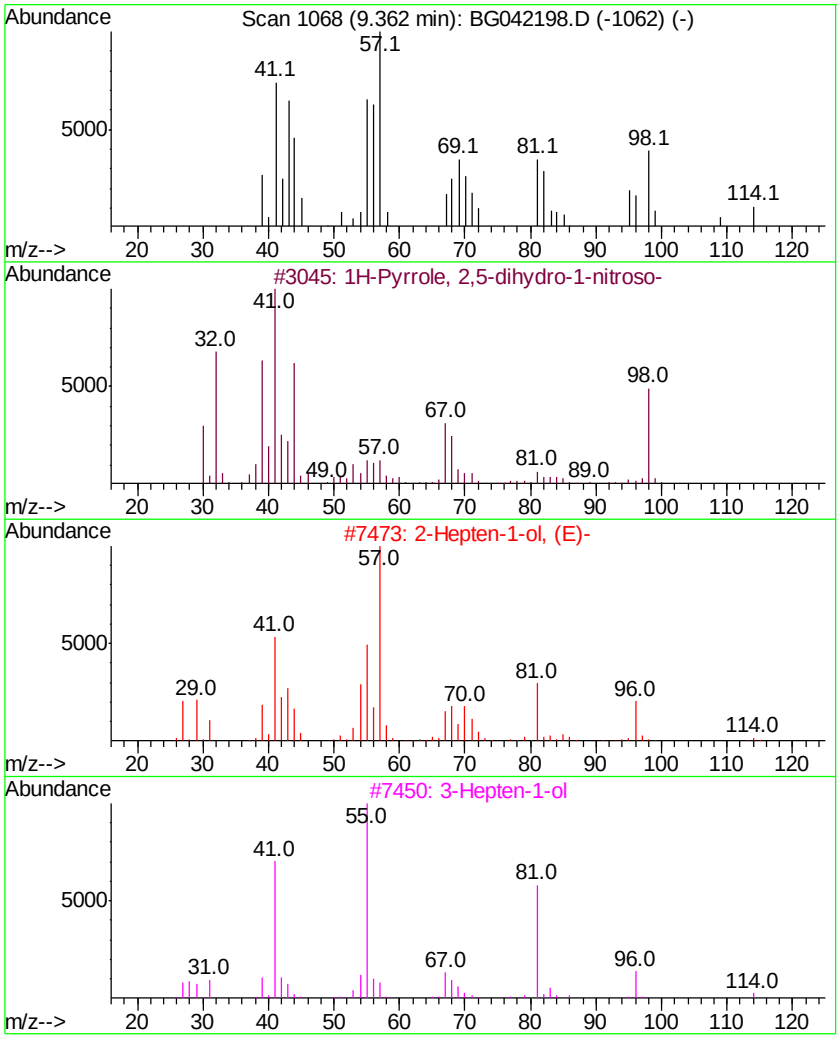
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

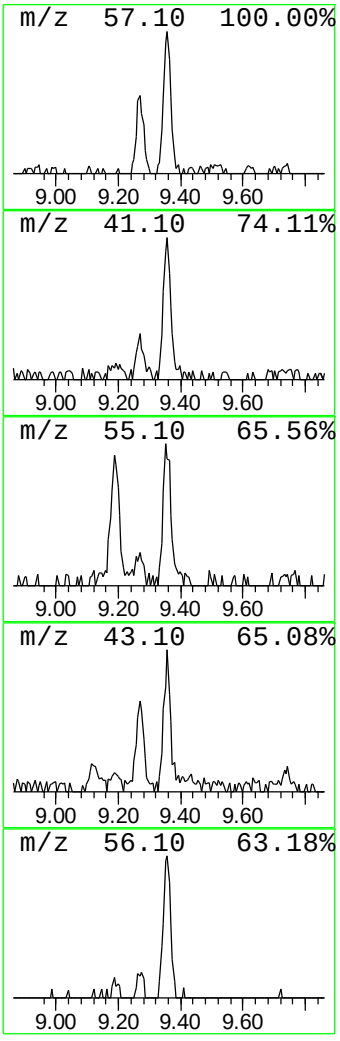
****

Peak Number 3 unknown-01 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	2.68 ng/ul	59060	1,4-Dichlorobenzene-d4	8.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole, 2,5-dihydro-1-nitroso-	98	C4H6N2O	010552-94-0	38
2	2-Hepten-1-ol, (E)-	114	C7H14O	033467-76-4	35
3	3-Hepten-1-ol	114	C7H14O	010606-47-0	25
4	2-Hexene, 5-methyl-, (E)-	98	C7H14	007385-82-2	25
5	(Z)-Hex-2-ene, 5-methyl-	98	C7H14	013151-17-2	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\
Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

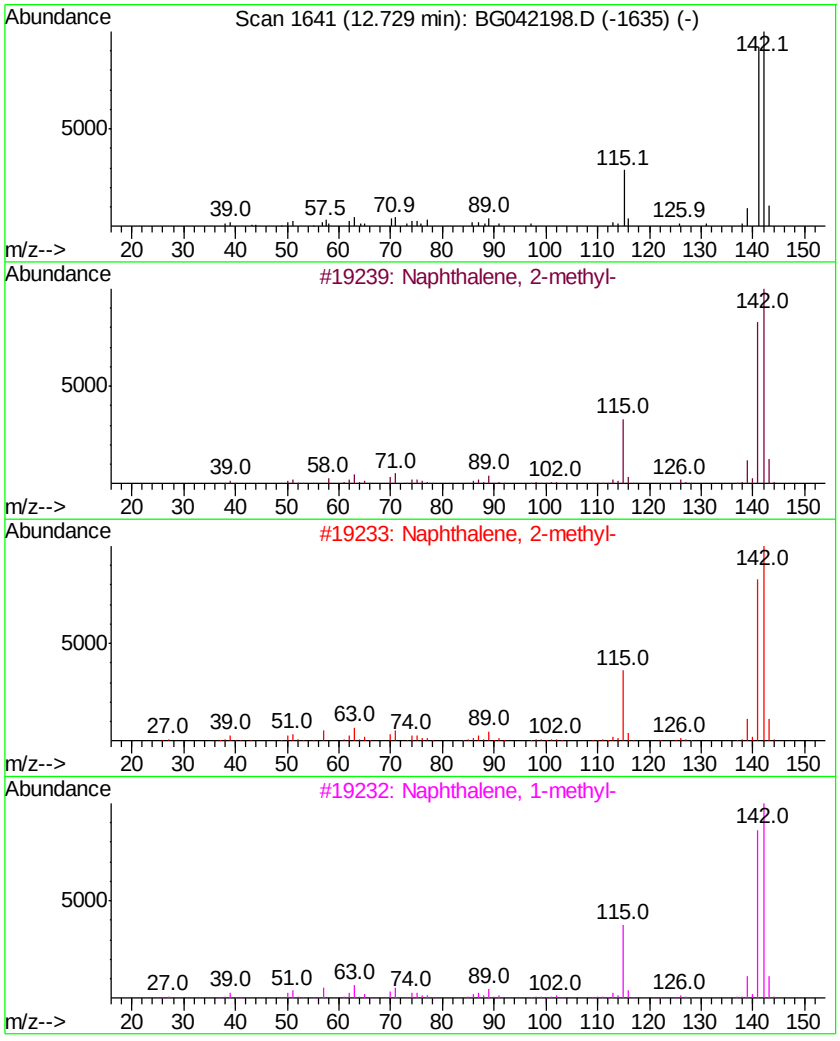
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

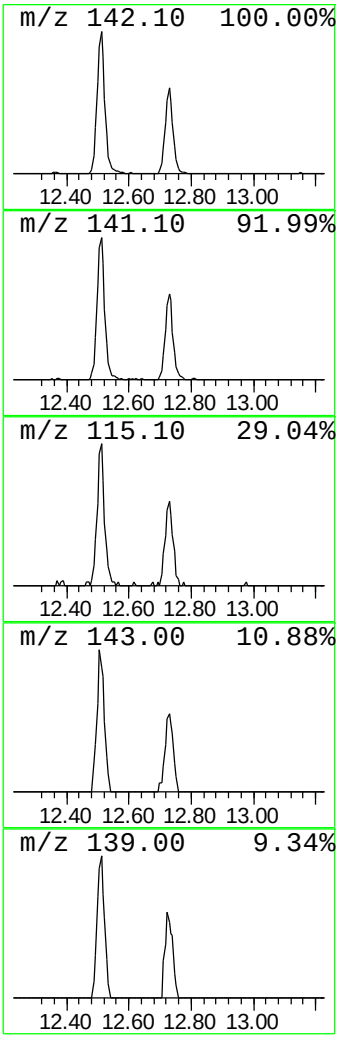
****

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.73	2.16 ng/ul	73981	Naphthalene-d8	10.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	95
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
5	Benzocycloheptatriene	142	C11H10	000264-09-5	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\
Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

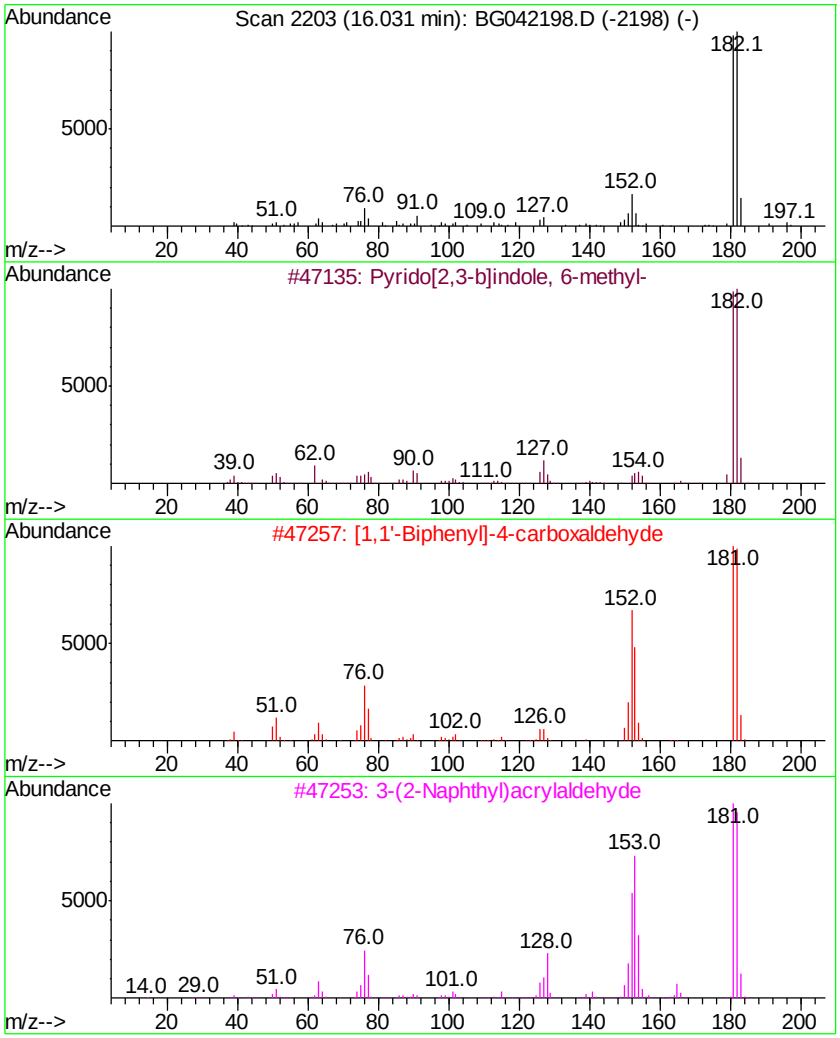
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

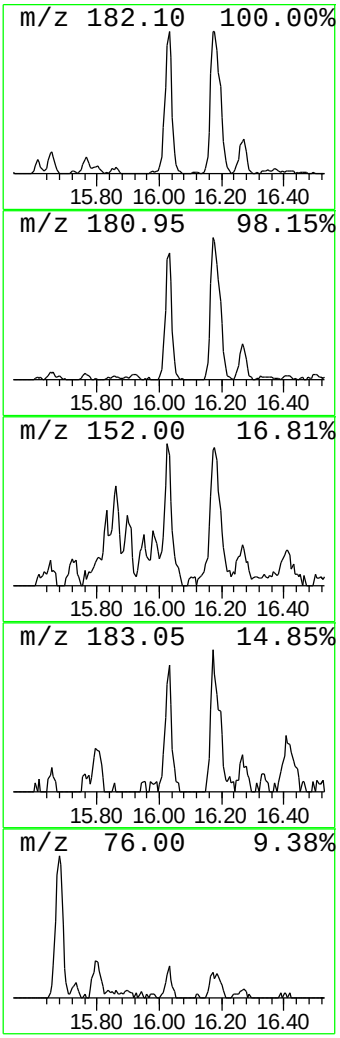
****

Peak Number 5 Pyrido[2,3-b]indole, 6-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.03	2.04 ng/ul	105051	Acenaphthene-d10	14.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	86
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
3	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	78
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	76





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Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
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Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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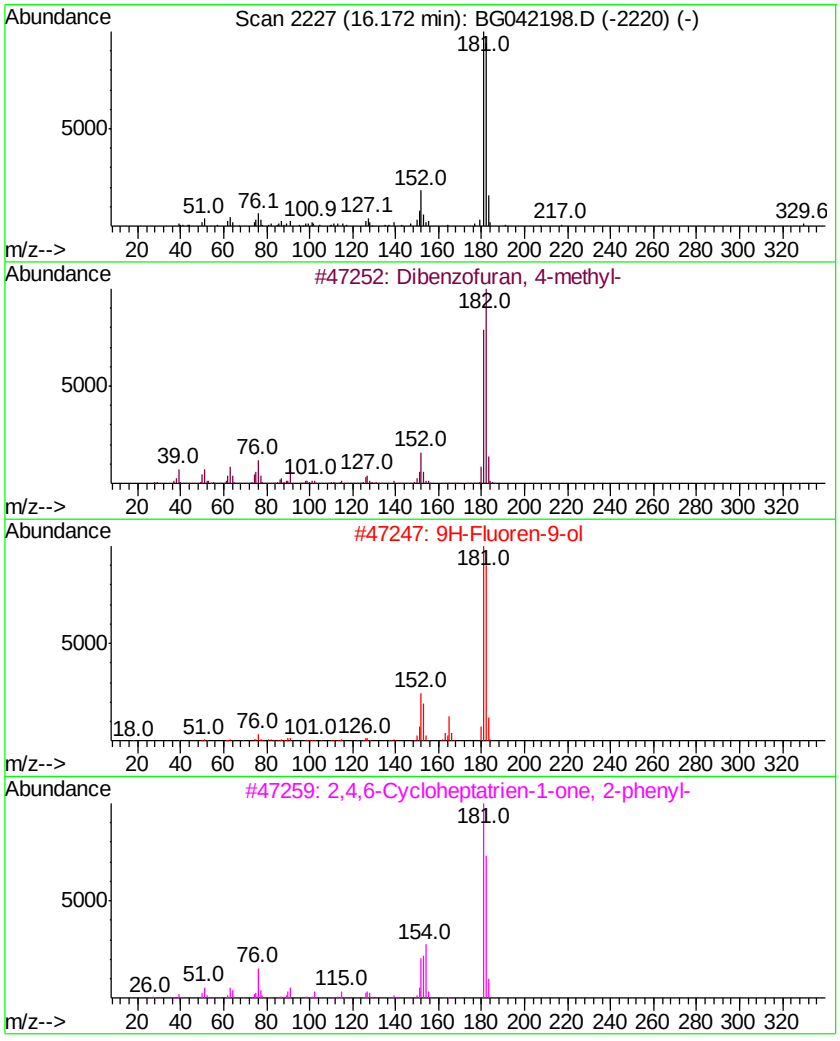
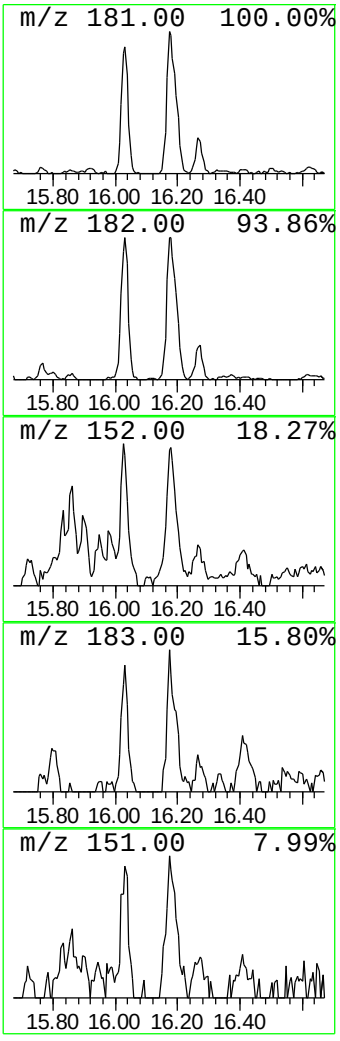
Peak Number 6 Dibenzofuran, 4-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.17	2.14 ng/ul	127787	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
5	Norharmane, N-methyl-	182	C12H10N2	1000374-78-6	80





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Sample : K4304-04
Misc :
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Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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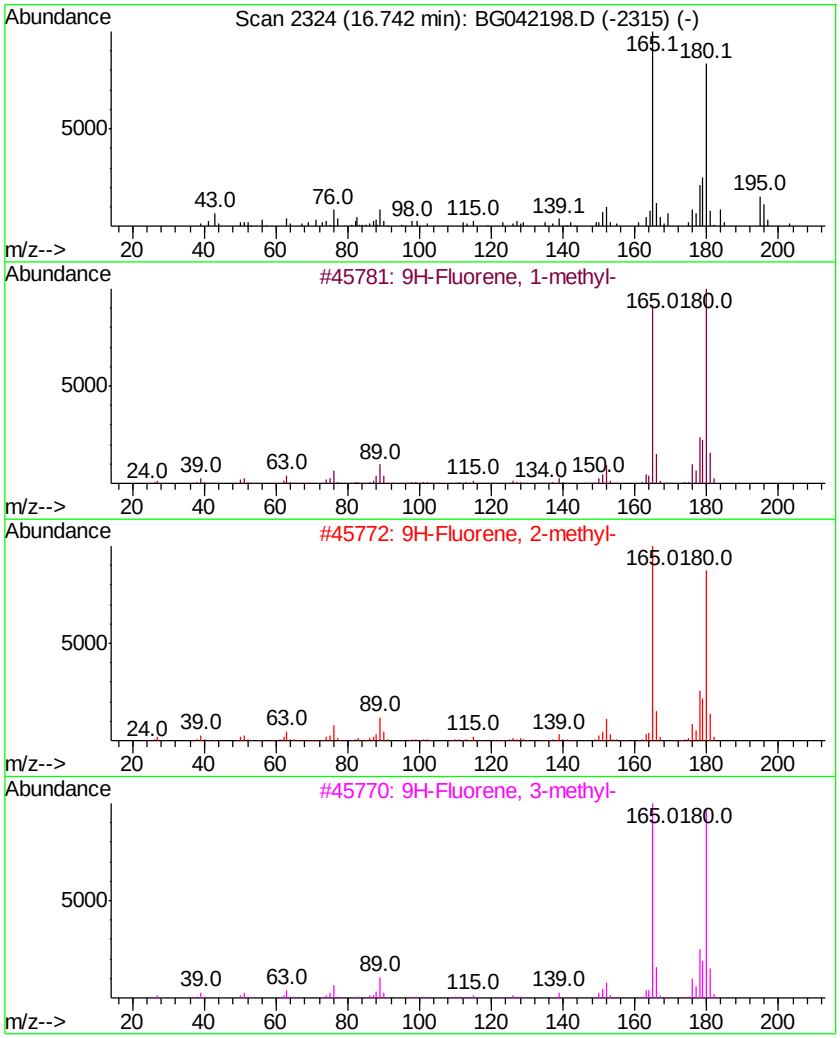
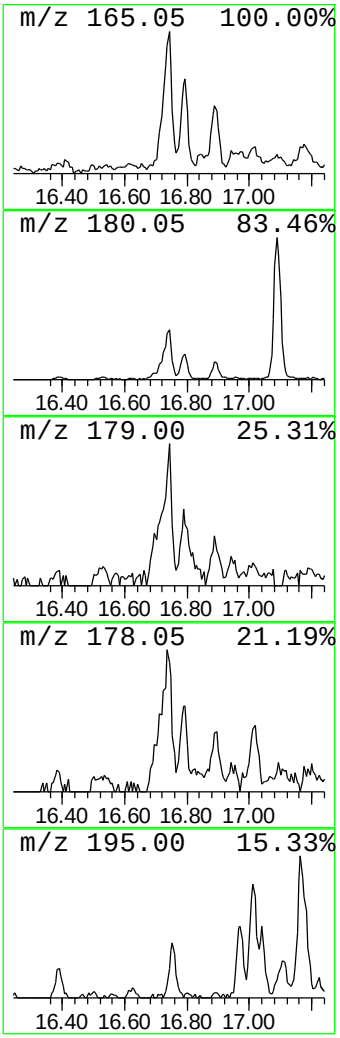
Peak Number 7 9H-Fluorene, 1-methyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.74	2.06 ng/ul	122831	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	76
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	76
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	68
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	68





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Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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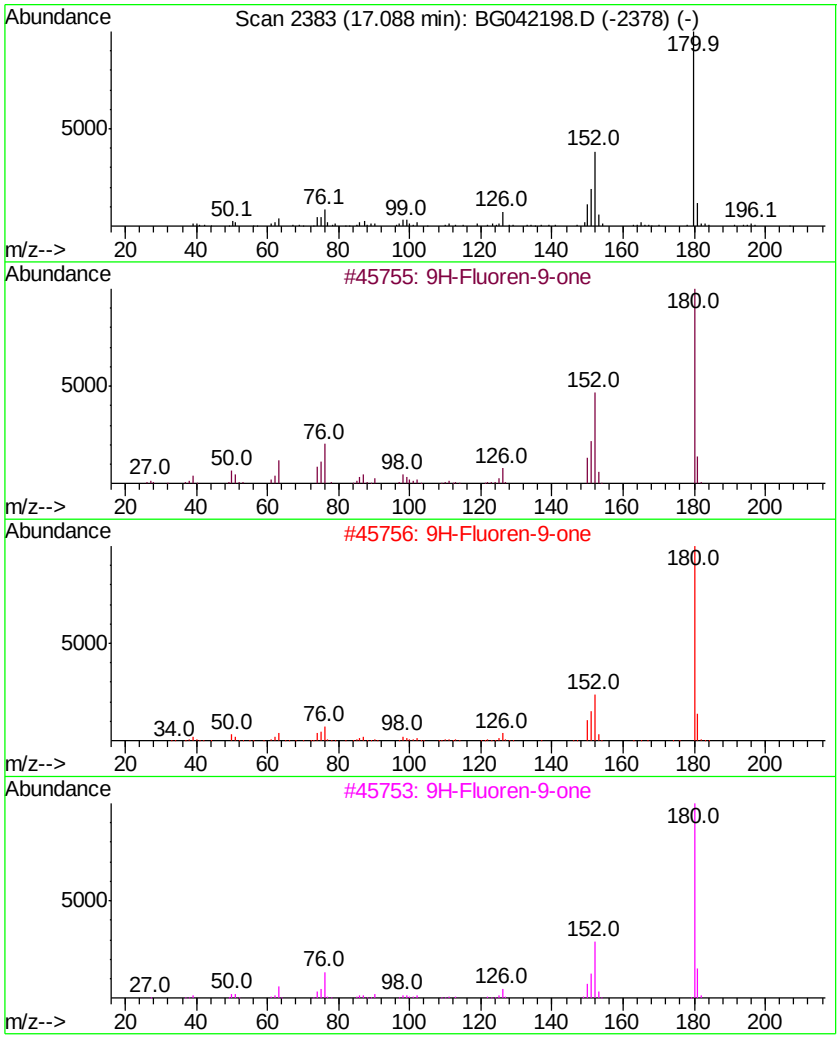
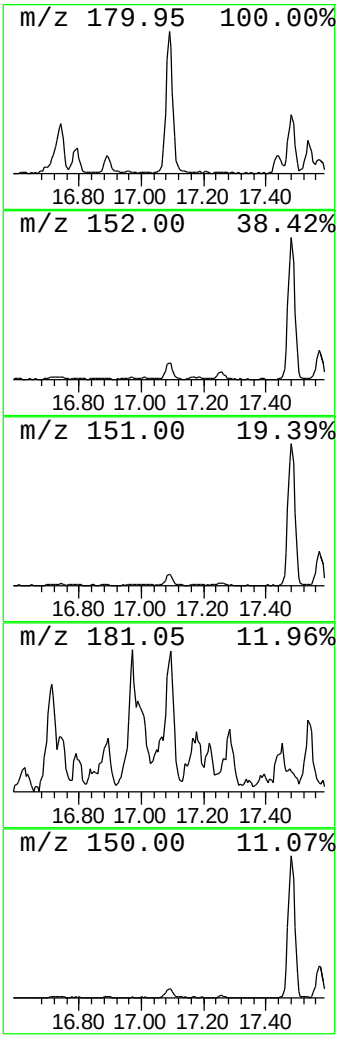
Peak Number 8 9H-Fluoren-9-one Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.09	2.26 ng/ul	134813	Phenanthrene-d10	17.44

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	93
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	78





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Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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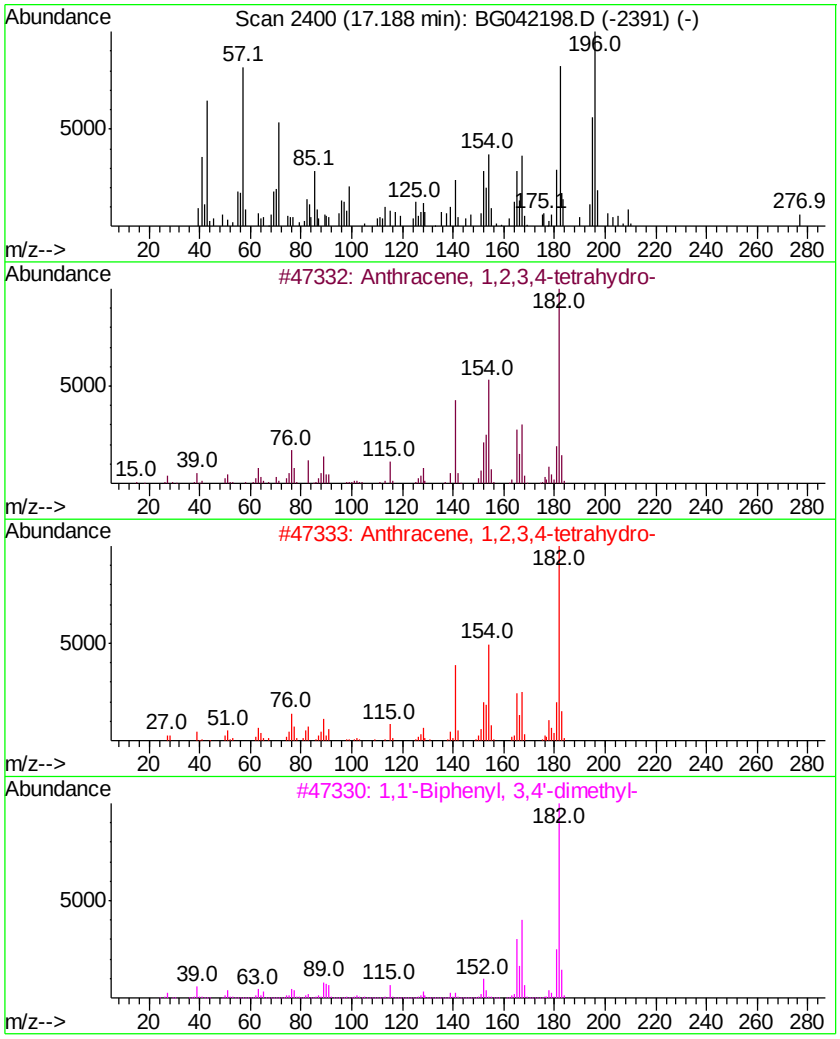
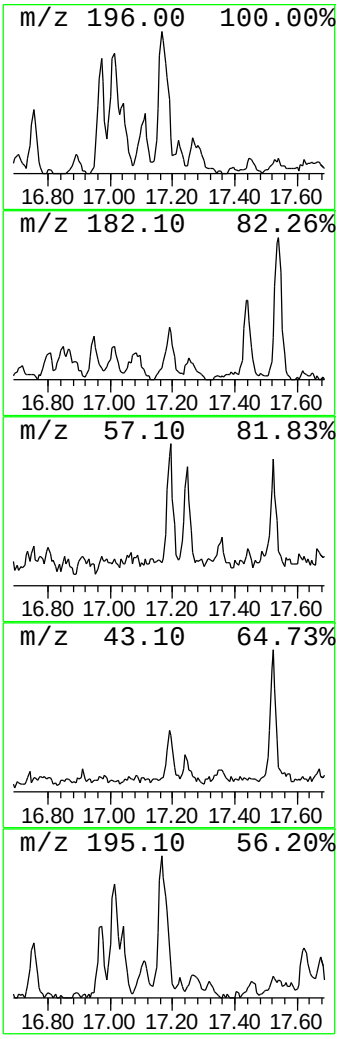
Peak Number 9 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.19	2.10 ng/ul	125107	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	64
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	46
3	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	42
4	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	42
5	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	42





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Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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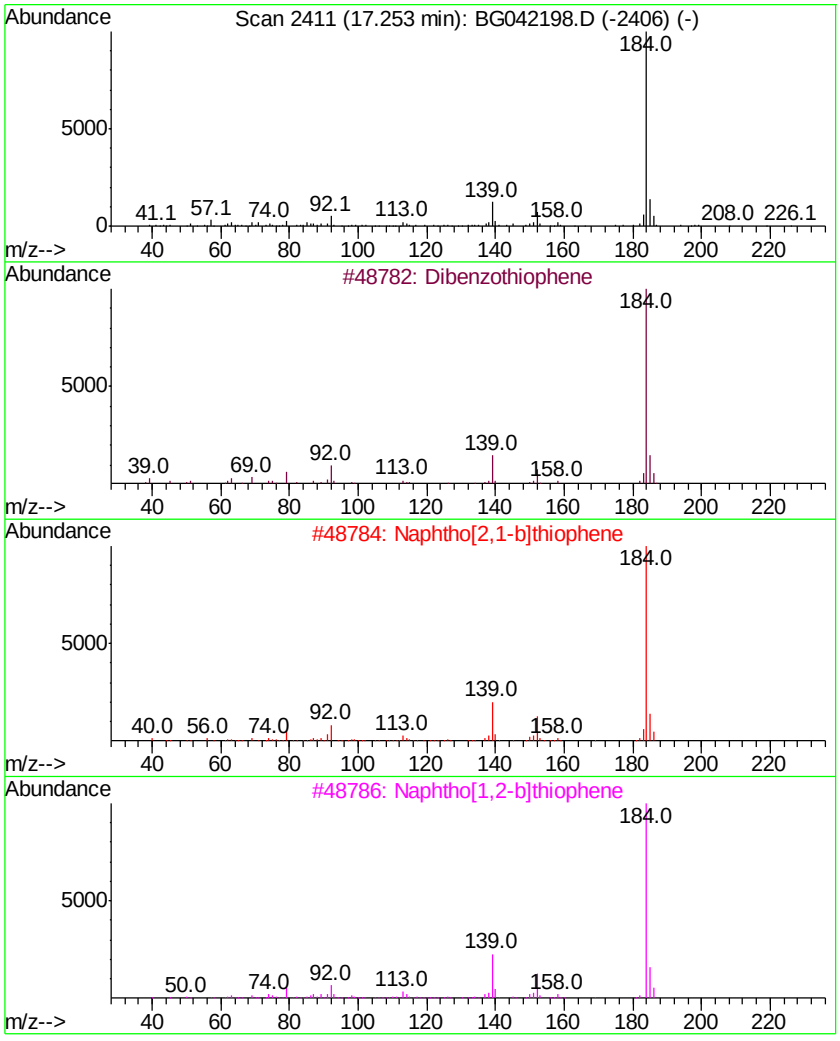
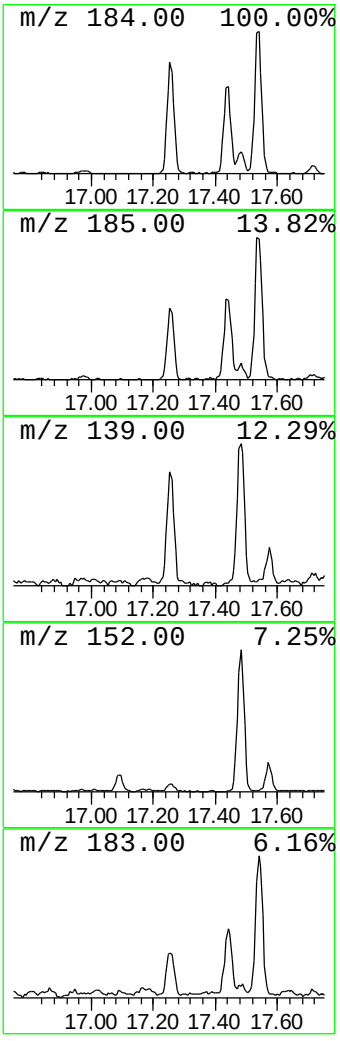
Peak Number 10 Dibenzothiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.25	3.54 ng/ul	211173	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Dibenzothiophene	184	C12H8S	000132-65-0	94
5	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93





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Sample : K4304-04
Misc :
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Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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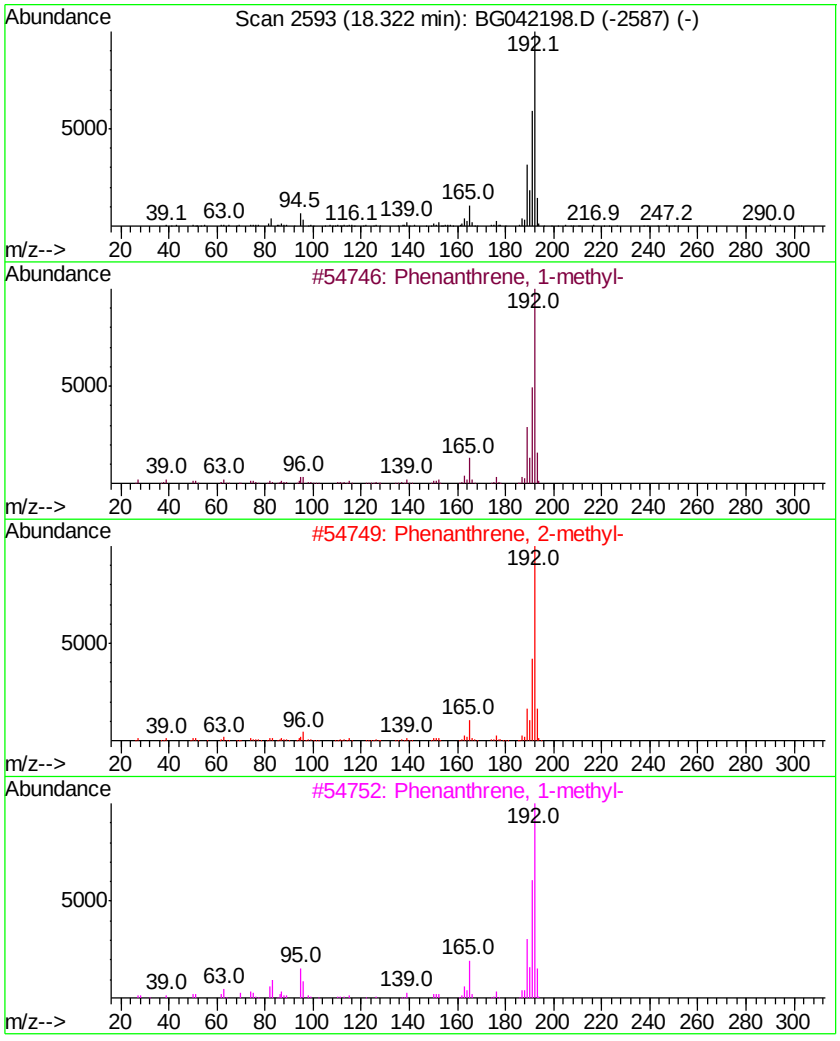
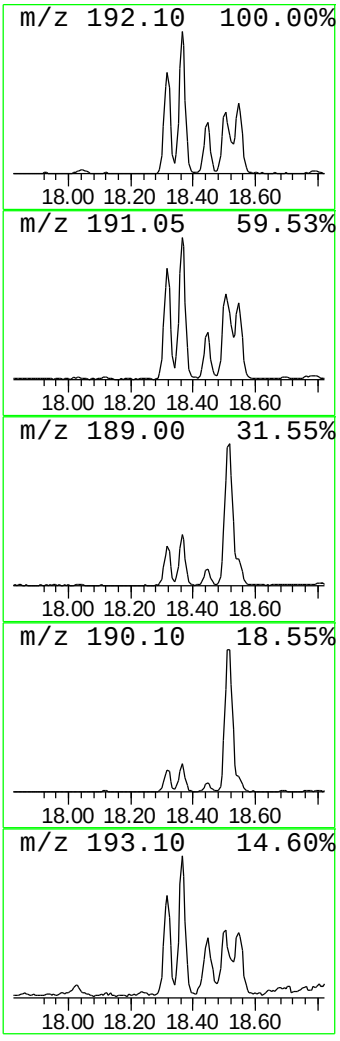
Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.32	5.25 ng/ul	312868	Phenanthrene-d10	17.44

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	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





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Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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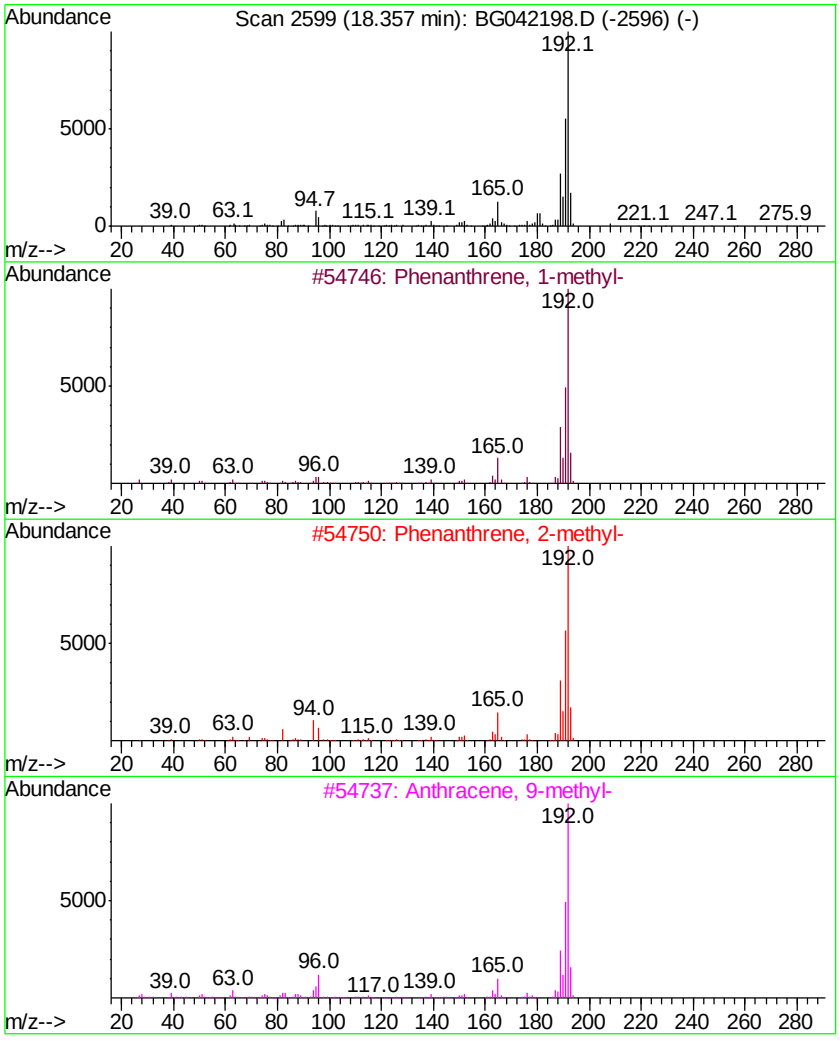
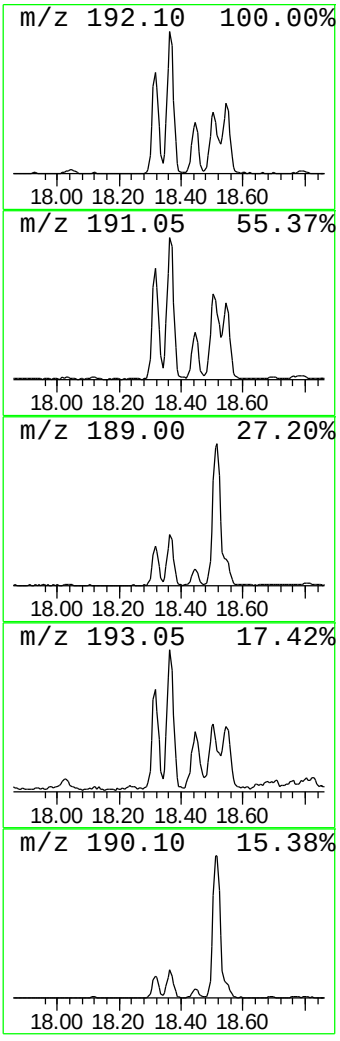
Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.36	7.64 ng/ul	455054	Phenanthrene-d10	17.44

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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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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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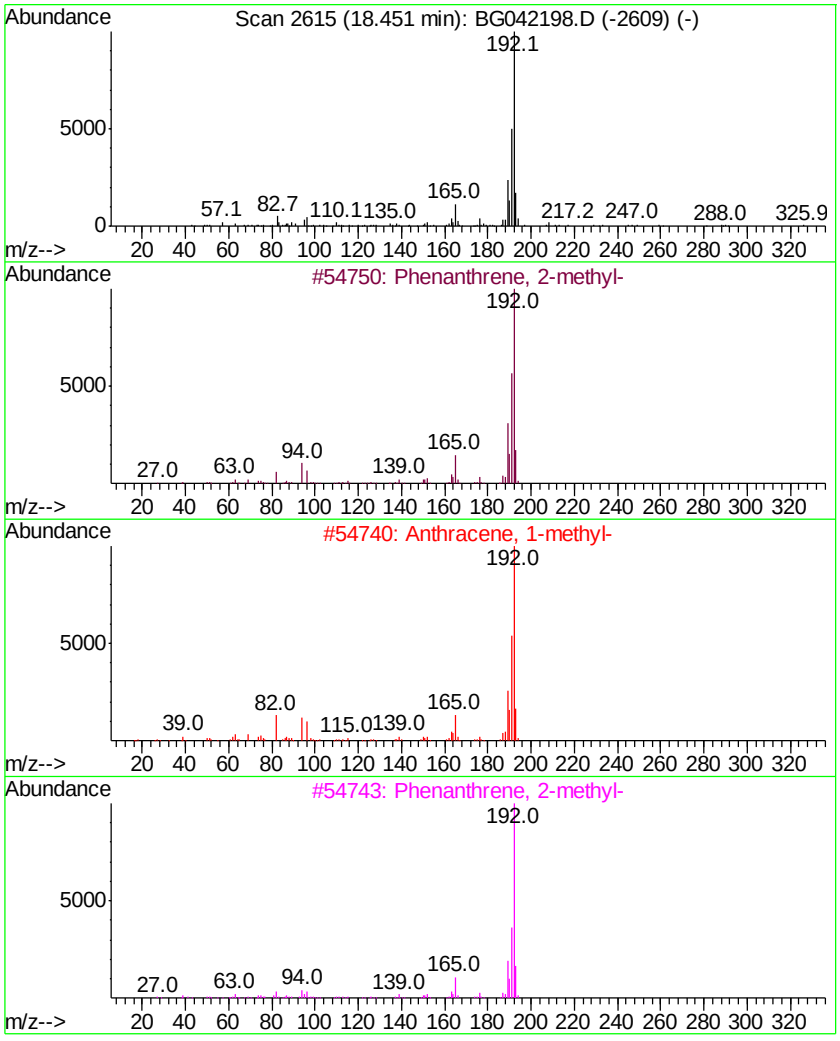
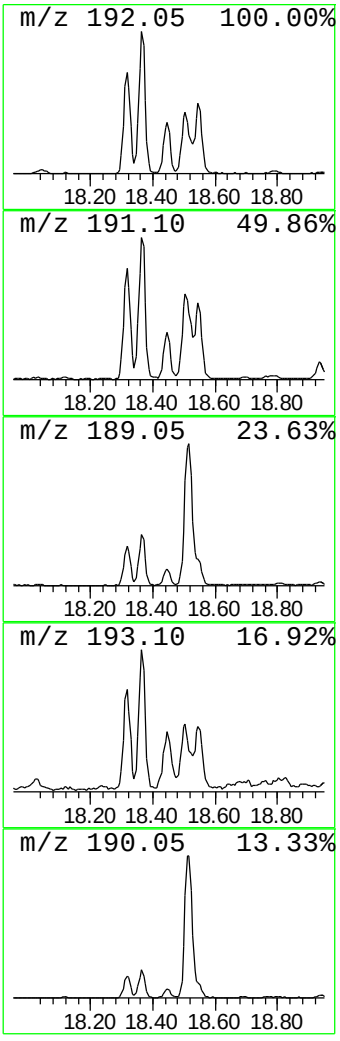
Peak Number 13 Anthracene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	2.34 ng/ul	139300	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91





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Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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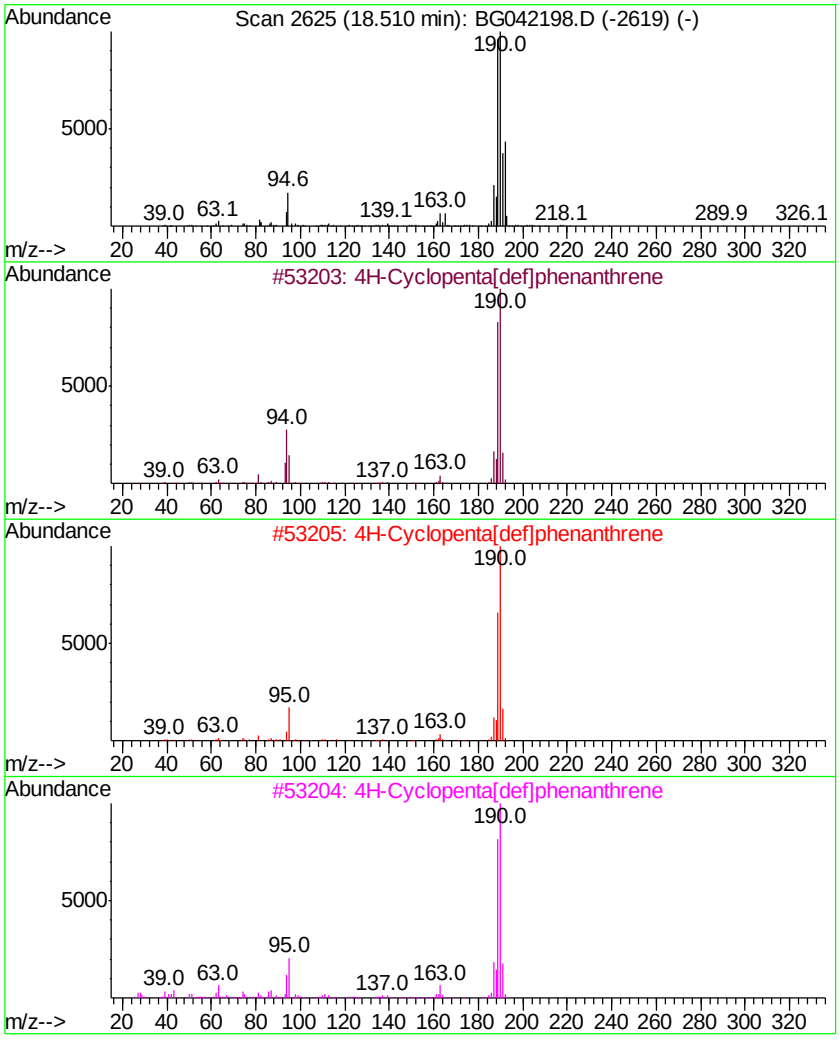
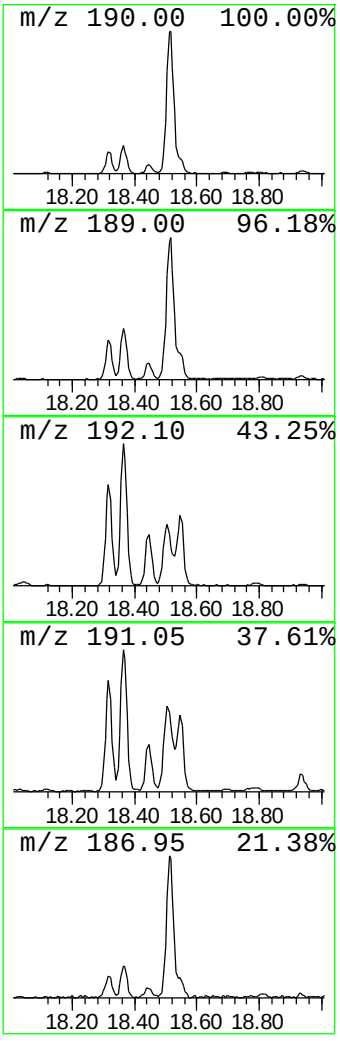
Peak Number 14 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.51	10.32 ng/ul	614896	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42





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Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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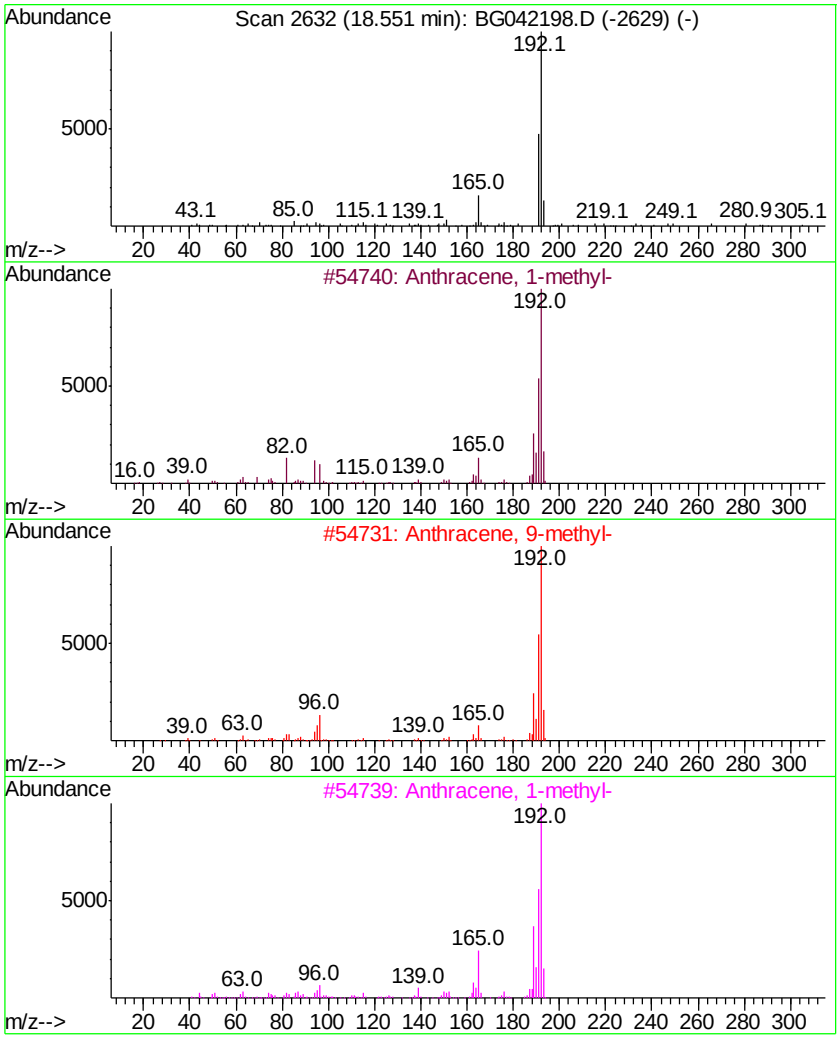
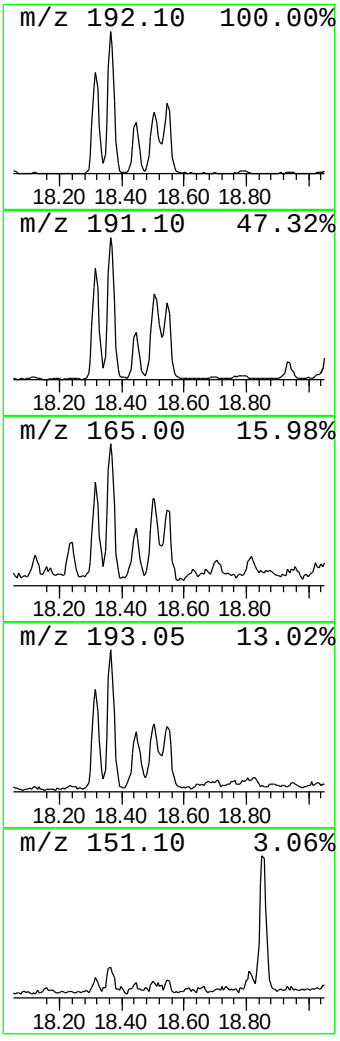
Peak Number 15 Anthracene, 9-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.55	3.26 ng/ul	194487	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	86
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	78
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	72
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	72





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Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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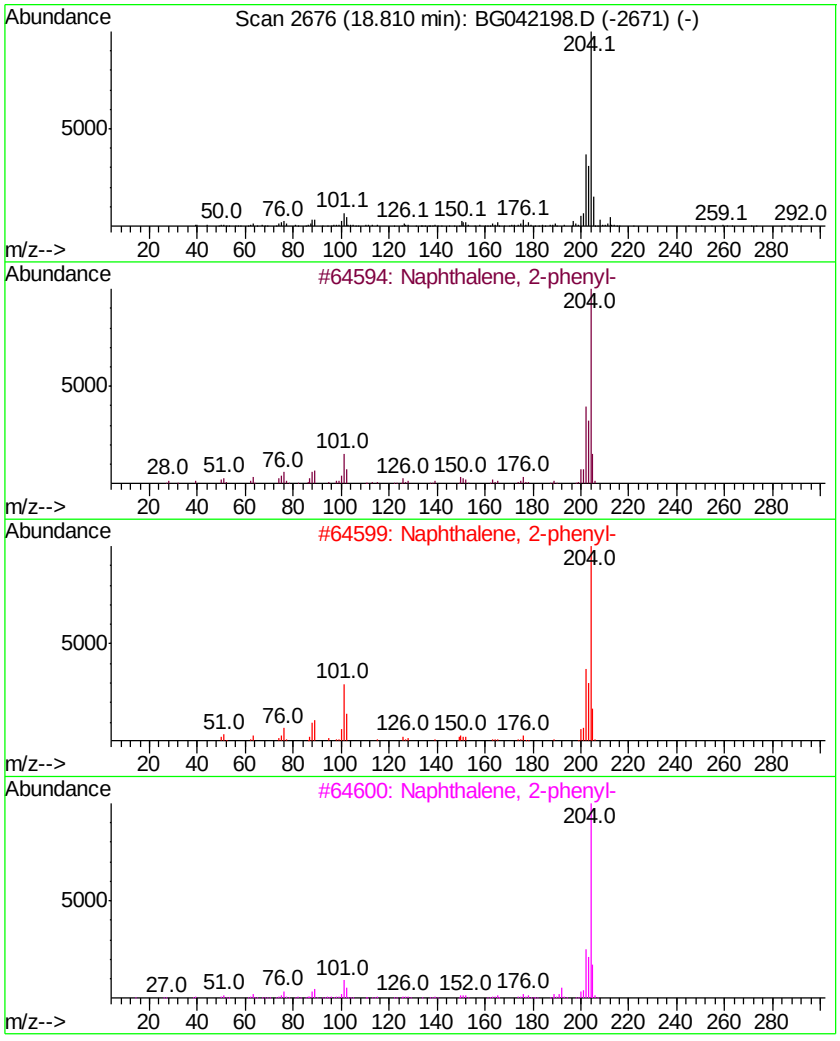
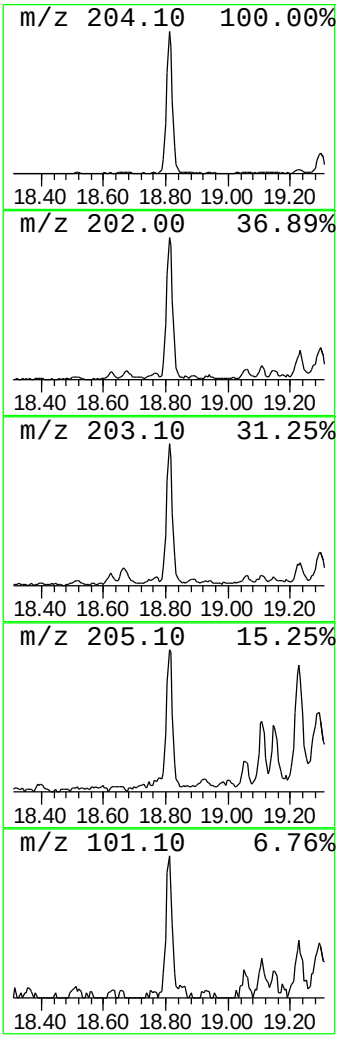
Peak Number 16 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.81	4.38 ng/ul	260762	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	59
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	58





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TIC Integration Parameters: LSCINT.P

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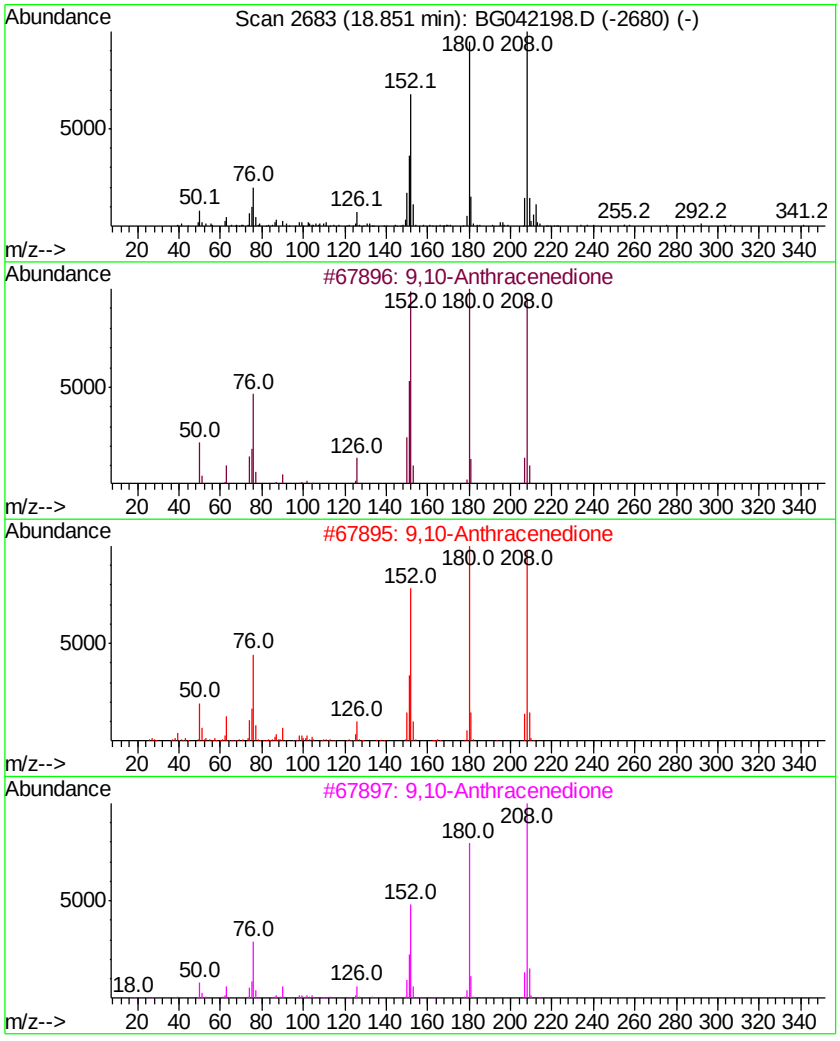
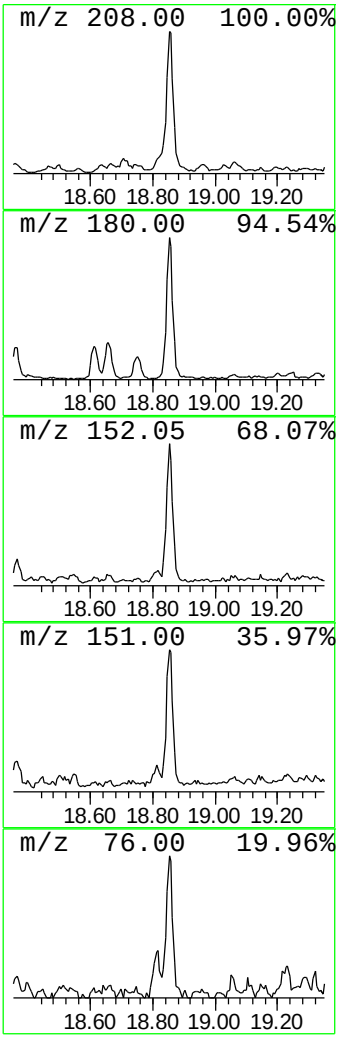
Peak Number 17 9,10-Anthracenedione Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	3.18 ng/ul	189239	Phenanthrene-d10	17.44

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	94
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	55





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Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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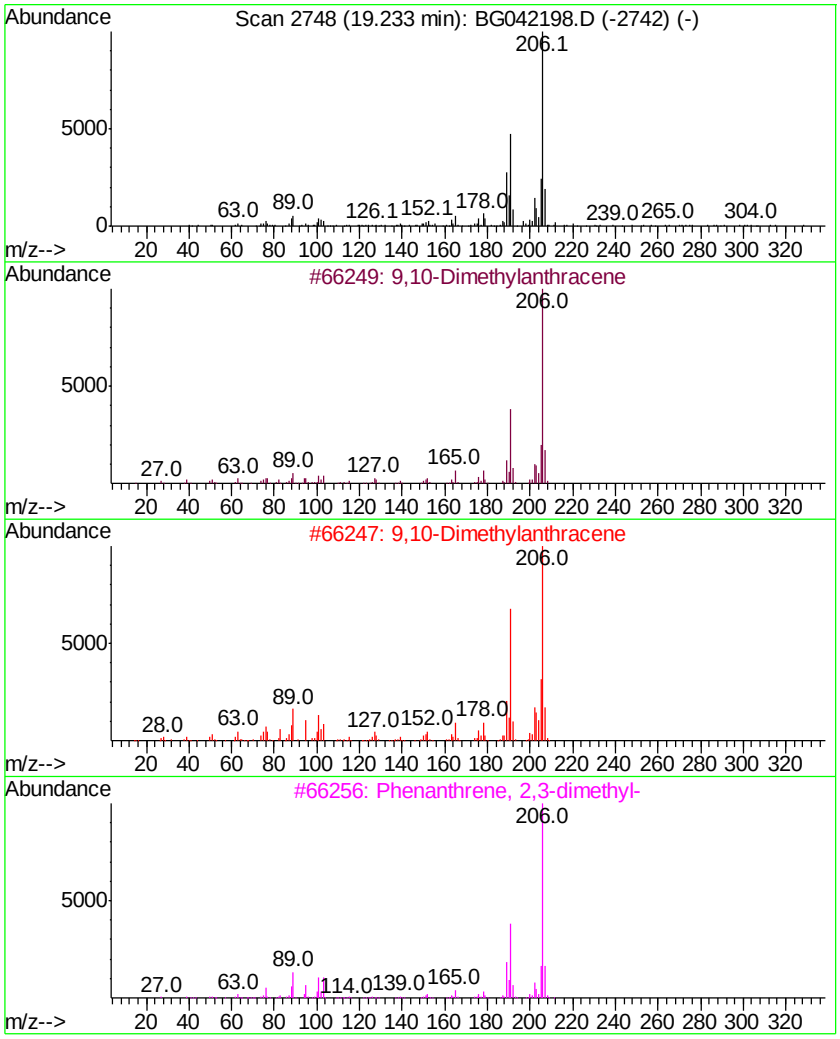
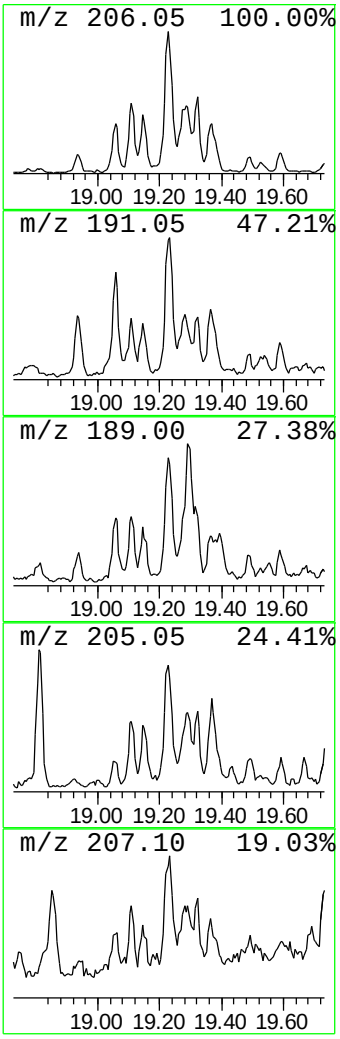
Peak Number 18 9,10-Dimethylanthracene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.23	3.70 ng/ul	220463	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87





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ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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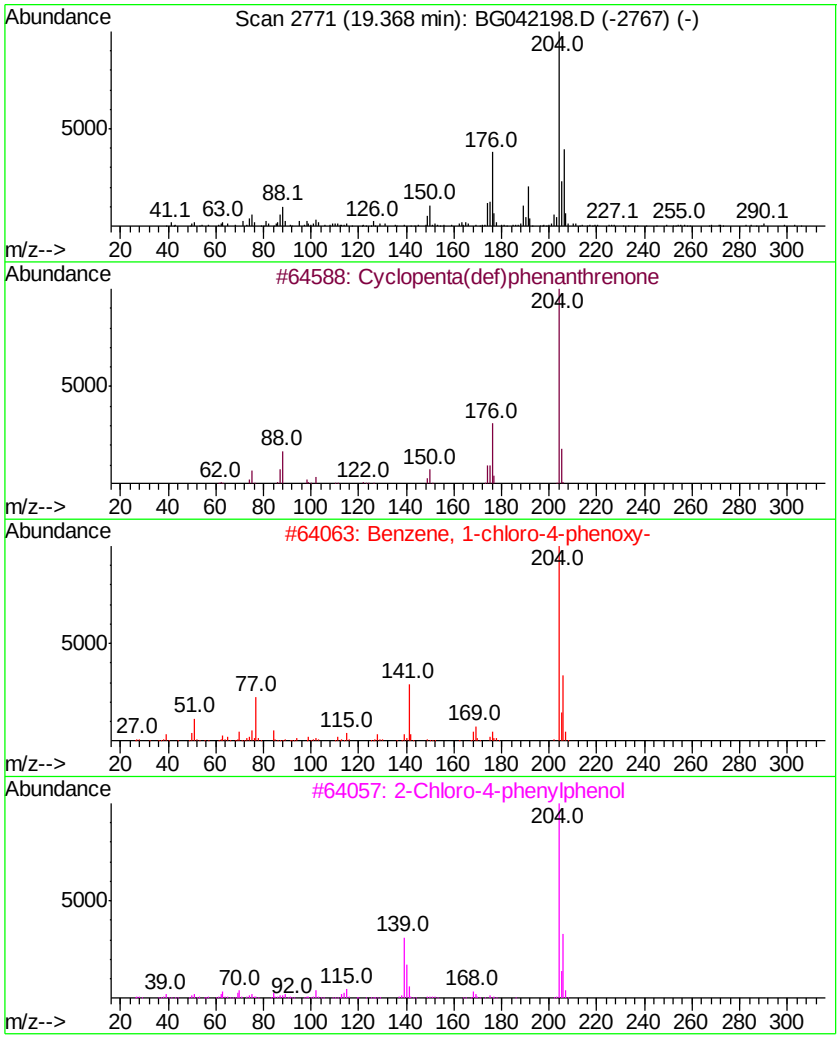
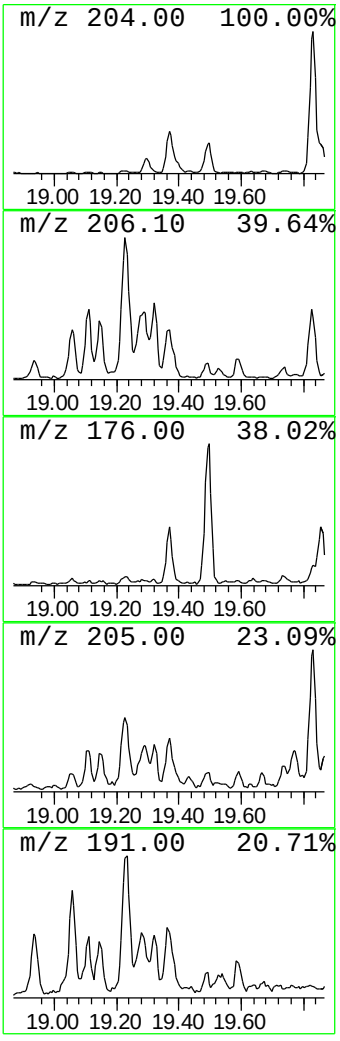
Peak Number 19 Cyclopenta(def)phenanthrenone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.37	2.93 ng/ul	174401	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	83
2	Benzene, 1-chloro-4-phenoxy-	204	C12H9ClO	007005-72-3	46
3	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	43
4	[1,1'-Biphenyl-3-ol], 6-chloro-	204	C12H9ClO	021345-13-1	43
5	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	43





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ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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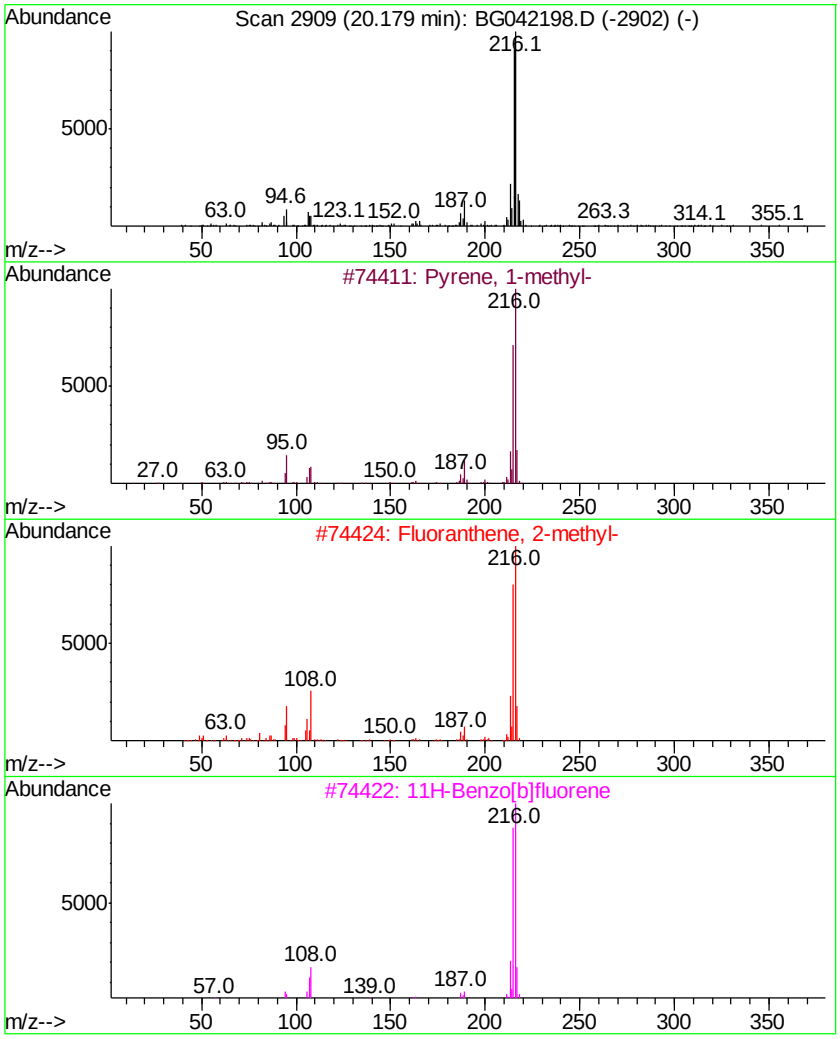
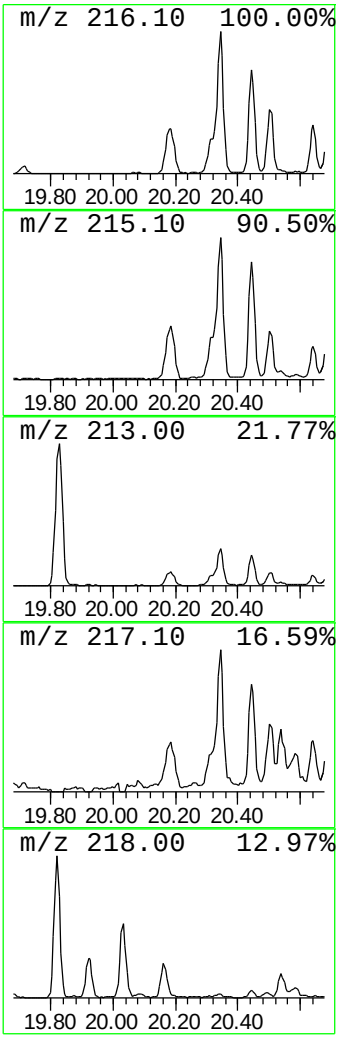
Peak Number 20 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.18	2.53 ng/ul	471482	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	89





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Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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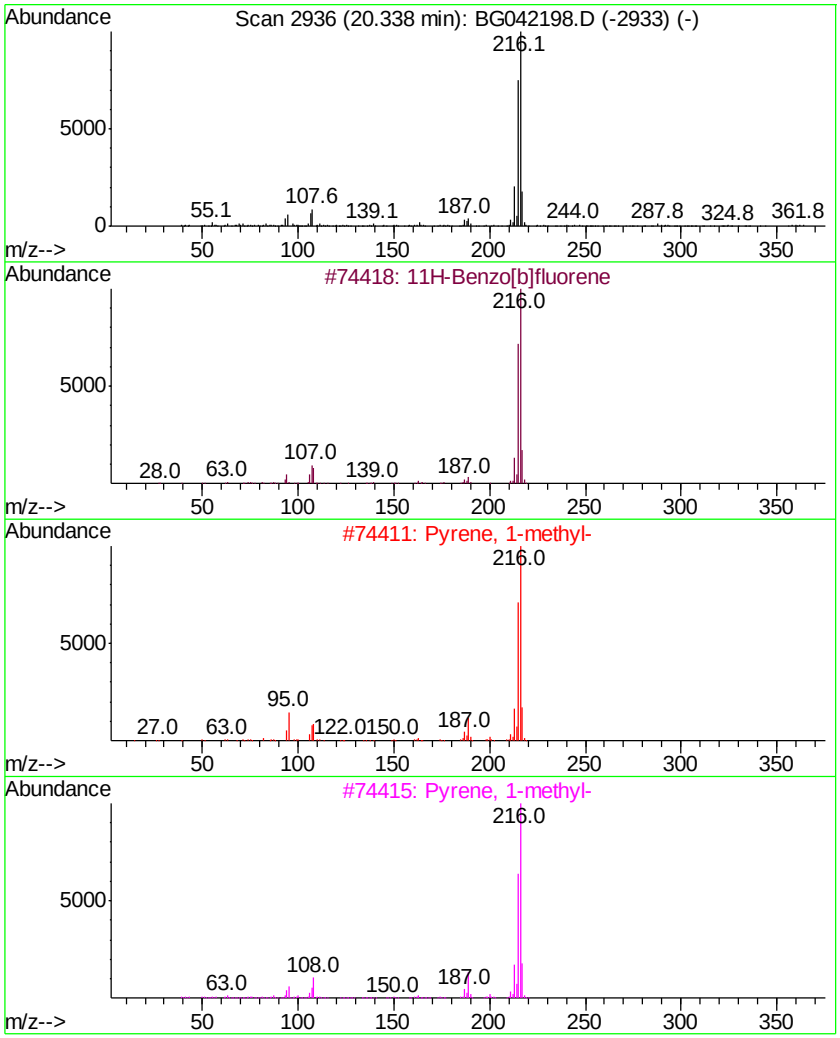
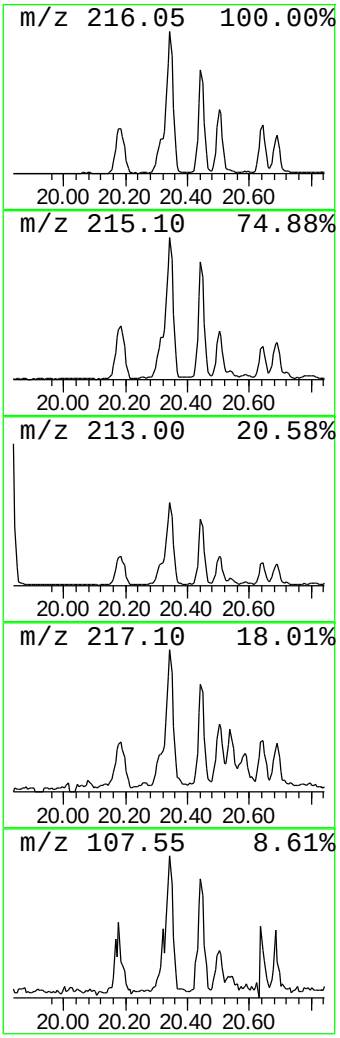
Peak Number 21 11H-Benzo[b]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.34	3.39 ng/ul	630374	Chrysene-d12	21.72

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





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Quant Title : SVOA CALIBRATION

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

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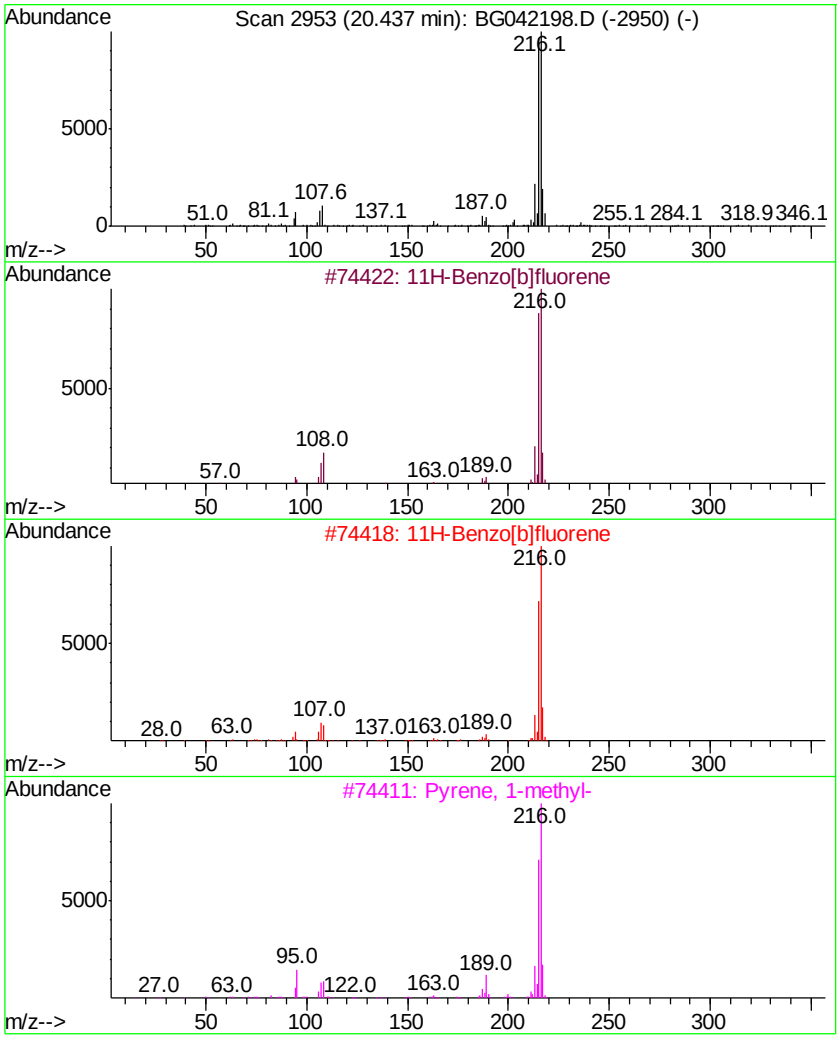
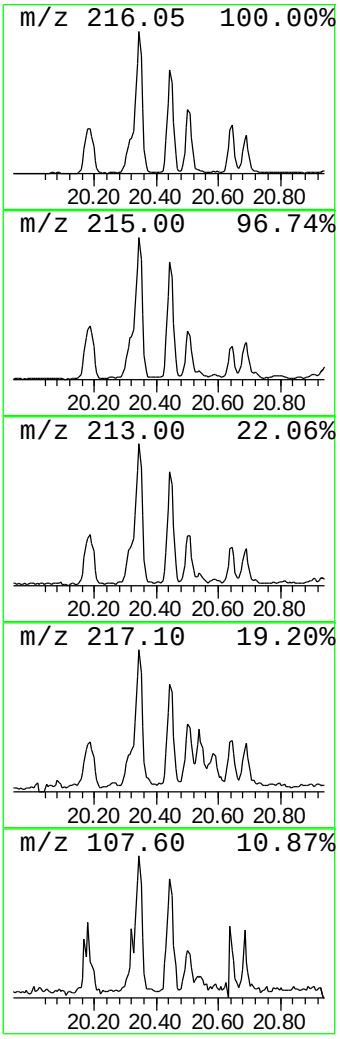
Peak Number 22 Fluoranthene, 2-methyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.44	2.04 ng/ul	379665	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	78





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Quant Title : SVOA CALIBRATION

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

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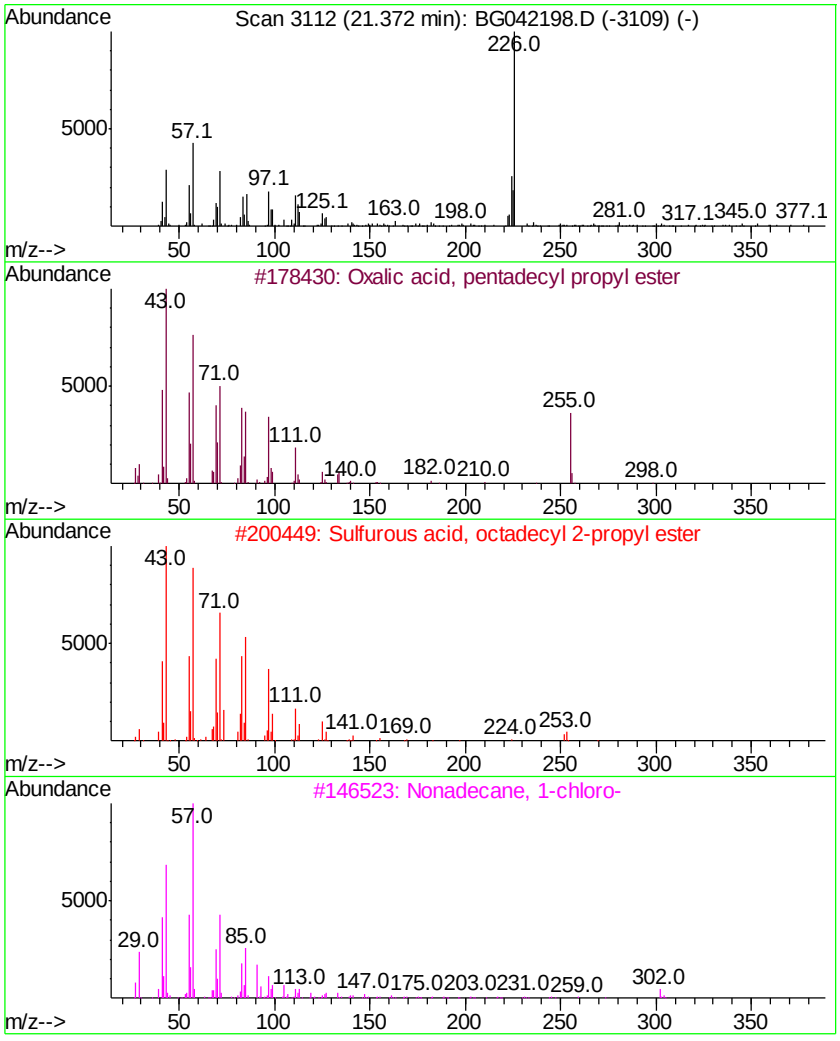
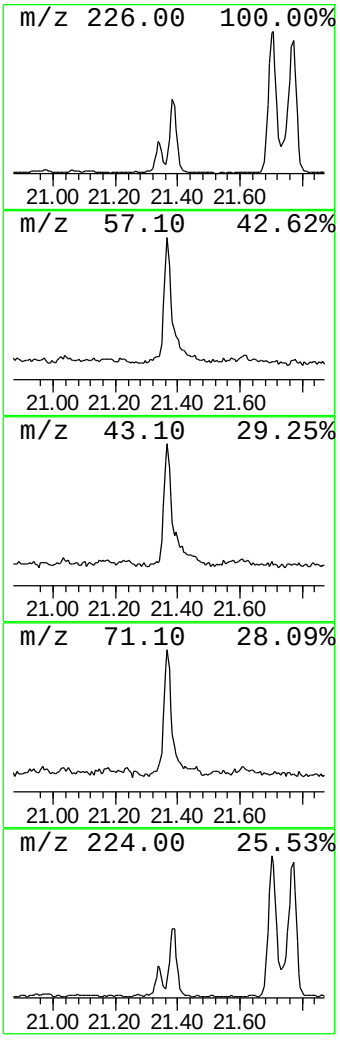
Peak Number 23 Oxalic acid, pentadecyl pro... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.37	2.43 ng/ul	452492	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, pentadecyl propyl e...	342	C20H38O4	1000309-26-8	83
2	Sulfurous acid, octadecyl 2-prop...	376	C21H44O3S	1000309-12-7	72
3	Nonadecane, 1-chloro-	302	C19H39Cl	062016-76-6	64
4	1-Decanol, 2-octyl-	270	C18H38O	045235-48-1	52
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	50





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Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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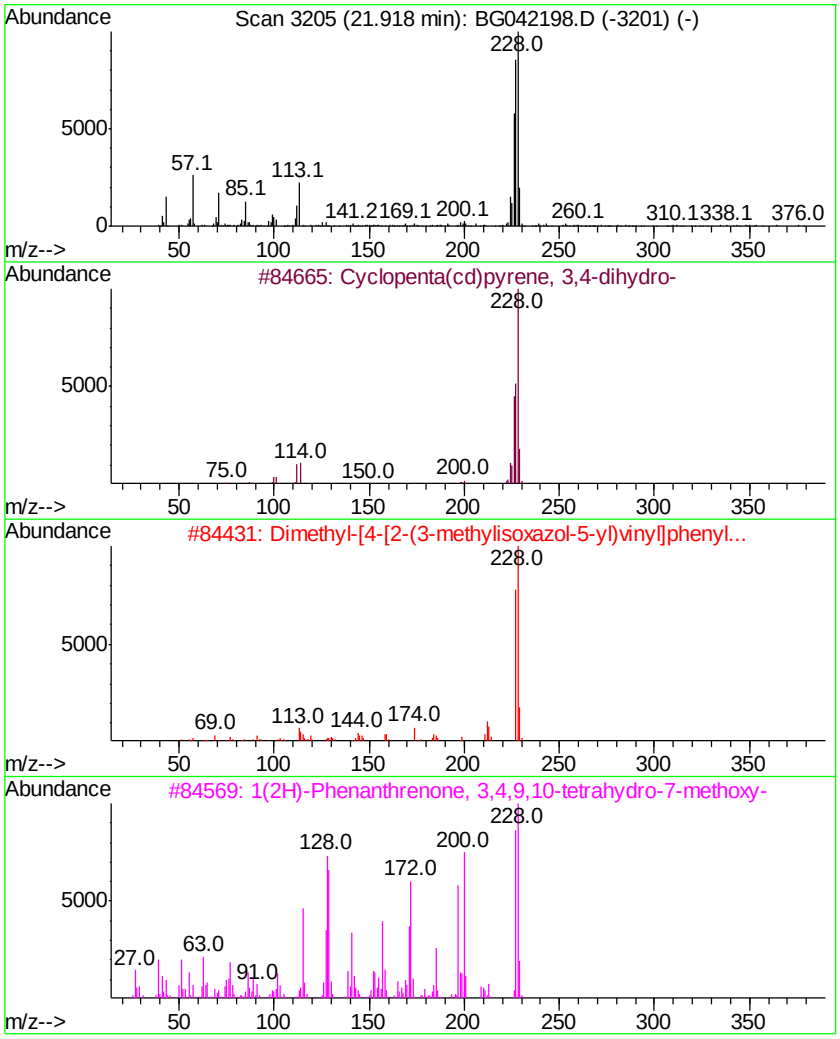
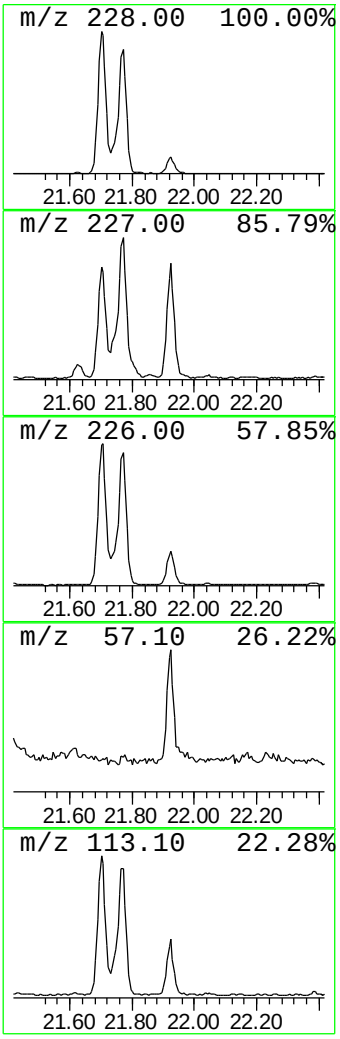
Peak Number 24 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.92	2.25 ng/ul	419303	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	55
2	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	47
3	1(2H)-Phenanthrenone, 3,4,9,10-t...	228	C15H16O2	014427-61-3	47
4	Benzo[c]phenanthrene	228	C18H12	000195-19-7	38
5	Triphenylene	228	C18H12	000217-59-4	38





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Quant Title : SVOA CALIBRATION

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

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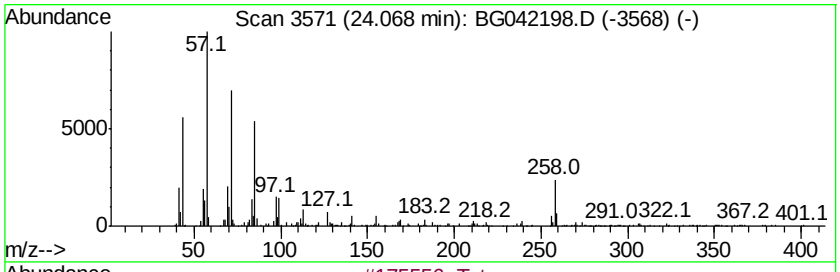
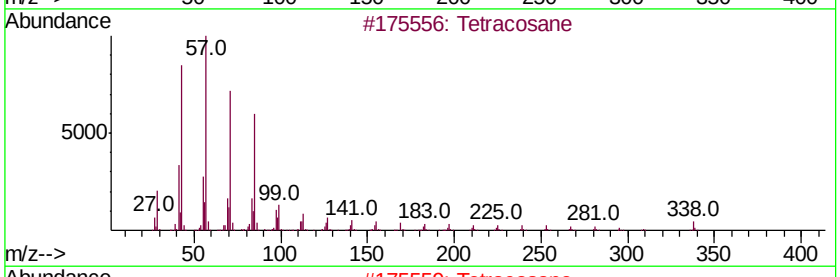
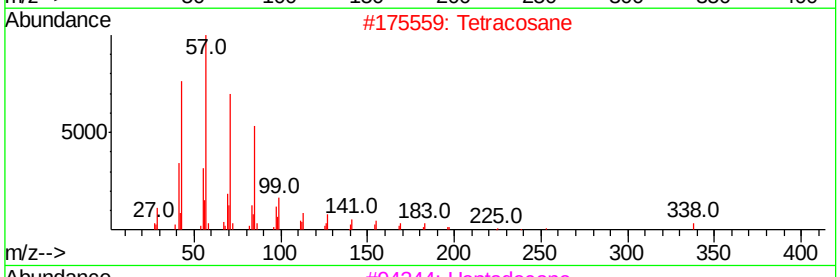
Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 7

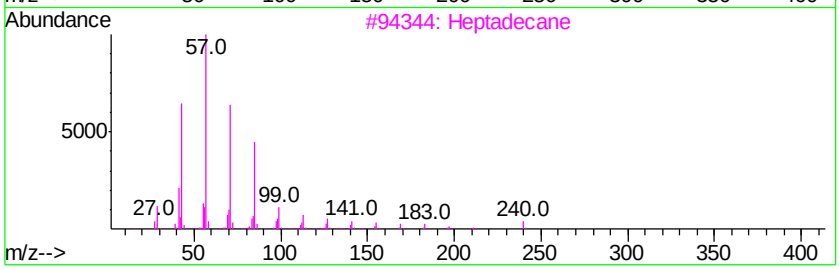
R.T.	EstConc	Area	Relative to ISTD	R.T.
24.07	5.48 ng/ul	387768	Perylene-d12	25.00

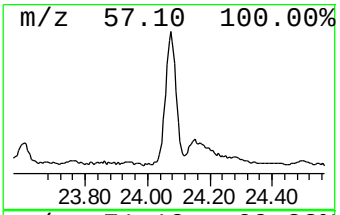
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	90
2	Tetracosane	338	C24H50	000646-31-1	90
3	Heptadecane	240	C17H36	000629-78-7	89
4	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	81
5	Docosane	310	C22H46	000629-97-0	74

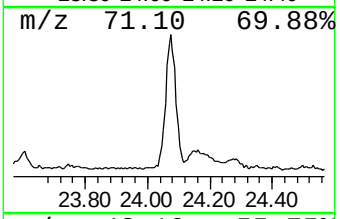


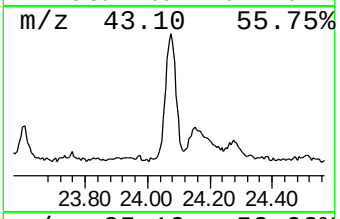


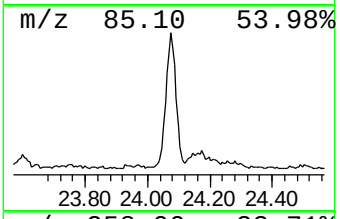


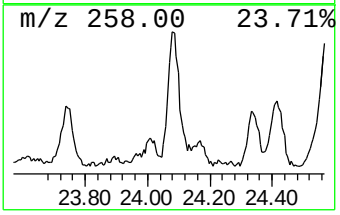












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Instrument : BNA_G
ClientSampleId : CB5N5

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Quant Title : SVOA CALIBRATION

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

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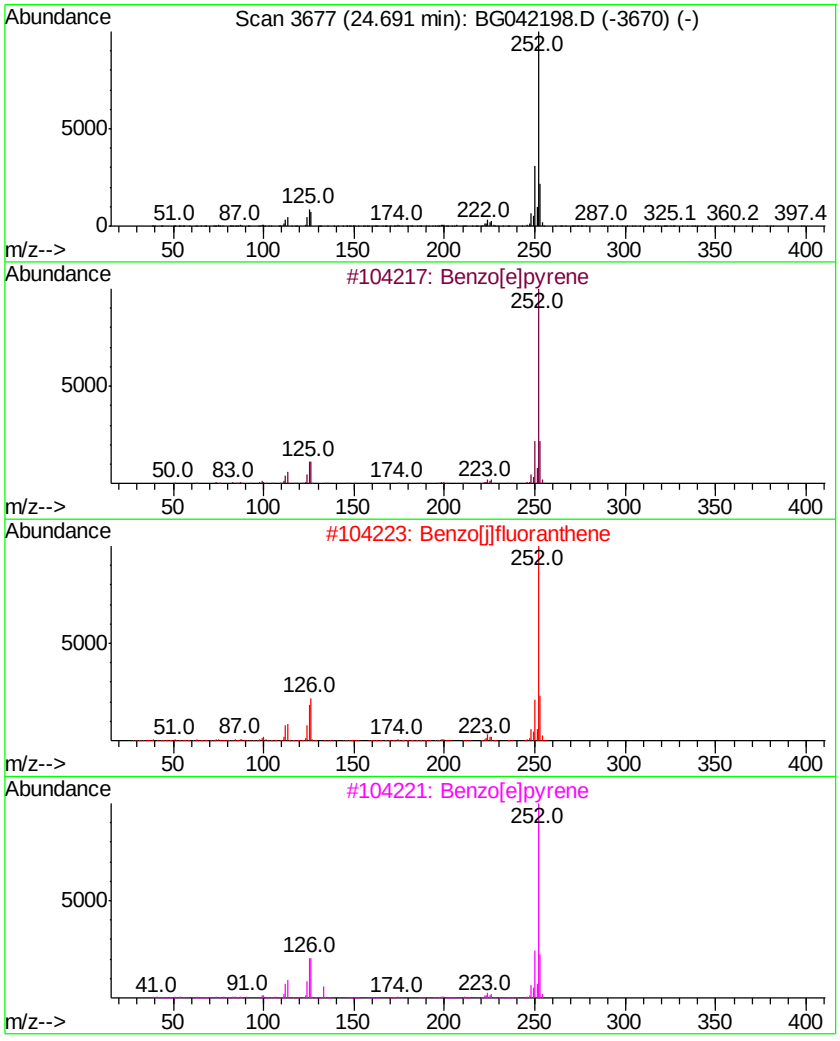
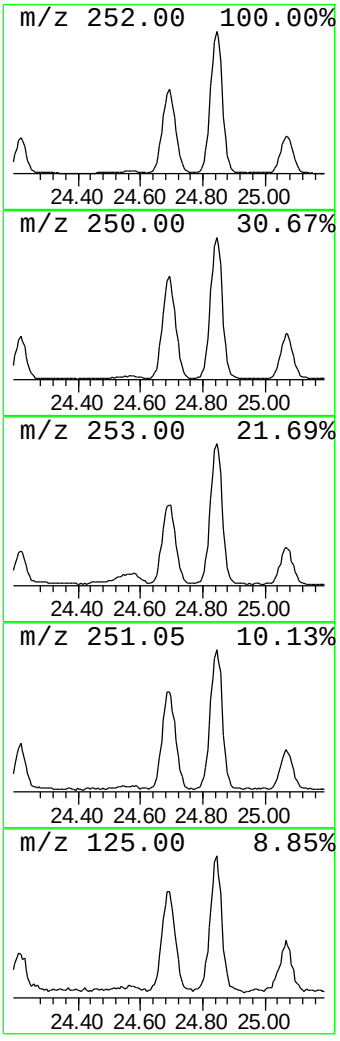
Peak Number 27 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.69	12.58 ng/ul	890197	Perylene-d12	25.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
3	Benzo[e]pyrene	252	C20H12	000192-97-2	94
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
5	Benzo[a]pyrene	252	C20H12	000050-32-8	90





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Quant Title : SVOA CALIBRATION

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

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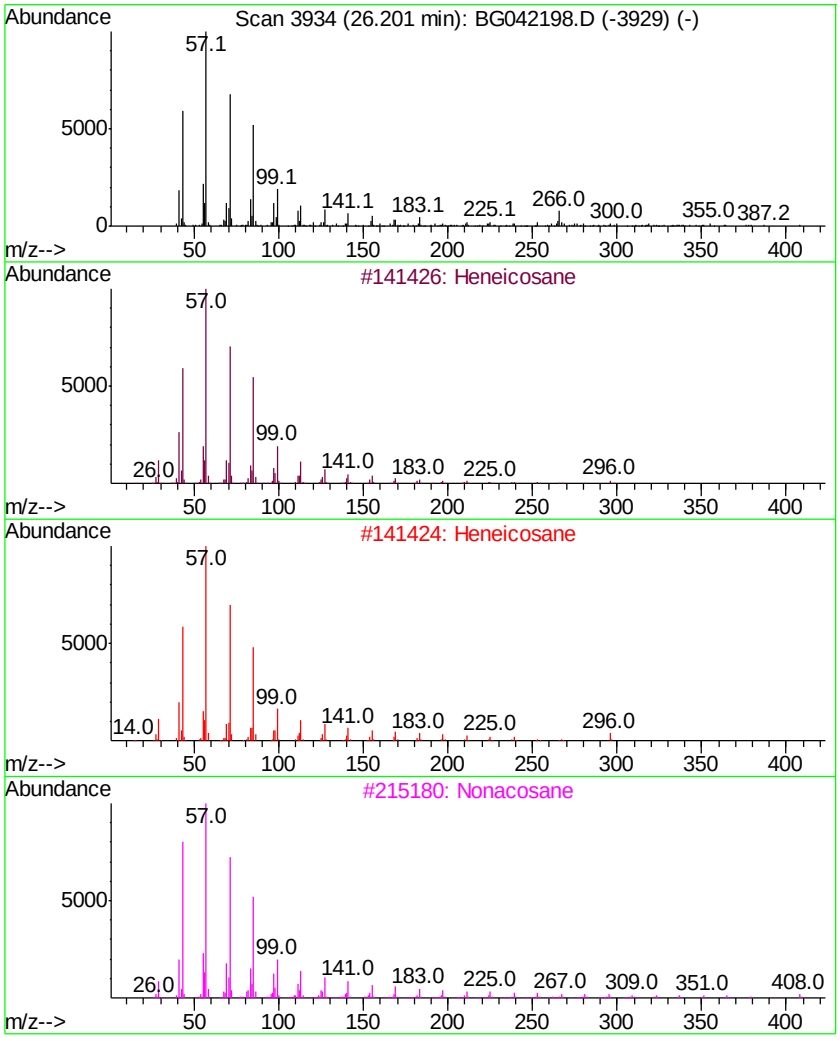
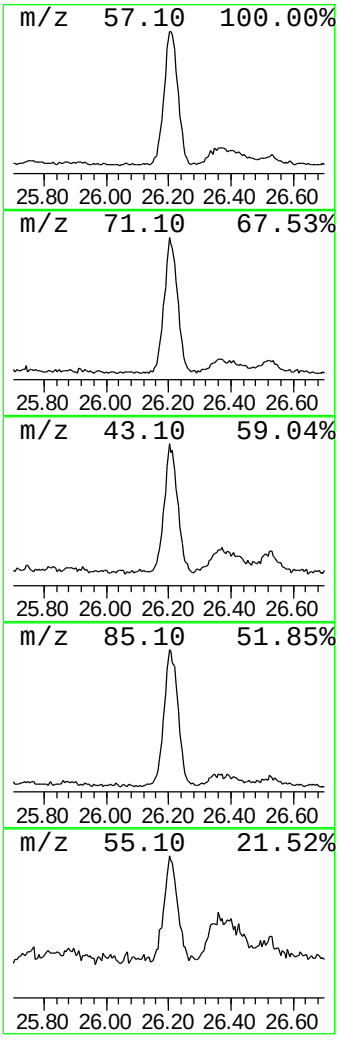
Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.20	7.98 ng/ul	564576	Perylene-d12	25.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	98
2	Heneicosane	296	C21H44	000629-94-7	94
3	Nonacosane	408	C29H60	000630-03-5	93
4	Heneicosane	296	C21H44	000629-94-7	92
5	2-methyloctacosane	408	C29H60	1000376-72-8	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG081319\
Data File : BG042198.D
Acq On : 14 Aug 2019 6:46
Operator : HP/JU
Sample : K4304-04
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : CB5N5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.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	172.3	ng/ul	3797770	1	8.02	440851	20.0
Toluene	4.17	4.9	ng/ul	108649	1	8.02	440851	20.0
unknown-01	9.36	2.7	ng/ul	59060	1	8.02	440851	20.0
Naphthalene, 1-me...	12.73	2.2	ng/ul	73981	2	10.85	683515	20.0
Pyrido[2,3-b]indo...	16.03	2.0	ng/ul	105051	3	14.69	1030390	20.0
Dibenzofuran, 4-m...	16.17	2.1	ng/ul	127787	4	17.44	1191770	20.0
9H-Fluorene, 1-me...	16.74	2.1	ng/ul	122831	4	17.44	1191770	20.0
9H-Fluoren-9-one	17.09	2.3	ng/ul	134813	4	17.44	1191770	20.0
Anthracene, 1,2,3...	17.19	2.1	ng/ul	125107	4	17.44	1191770	20.0
Dibenzothiophene	17.25	3.5	ng/ul	211173	4	17.44	1191770	20.0
Phenanthrene, 1-m...	18.32	5.3	ng/ul	312868	4	17.44	1191770	20.0
Phenanthrene, 2-m...	18.36	7.6	ng/ul	455054	4	17.44	1191770	20.0
Anthracene, 1-met...	18.45	2.3	ng/ul	139300	4	17.44	1191770	20.0
4H-Cyclopenta[def...	18.51	10.3	ng/ul	614896	4	17.44	1191770	20.0
Anthracene, 9-met...	18.55	3.3	ng/ul	194487	4	17.44	1191770	20.0
Tricyclo[8.2.2.2(...	18.81	4.4	ng/ul	260762	4	17.44	1191770	20.0
9,10-Anthracenedione	18.85	3.2	ng/ul	189239	4	17.44	1191770	20.0
9,10-Dimethylanth...	19.23	3.7	ng/ul	220463	4	17.44	1191770	20.0
Cyclopenta(def)ph...	19.37	2.9	ng/ul	174401	4	17.44	1191770	20.0
Pyrene, 1-methyl-	20.18	2.5	ng/ul	471482	5	21.72	3721430	20.0
11H-Benzo[b]fluorene	20.34	3.4	ng/ul	630374	5	21.72	3721430	20.0
Fluoranthene, 2-m...	20.44	2.0	ng/ul	379665	5	21.72	3721430	20.0
Oxalic acid, pent...	21.37	2.4	ng/ul	452492	5	21.72	3721430	20.0
Cyclopenta(cd)pyr...	21.92	2.3	ng/ul	419303	5	21.72	3721430	20.0
(DEL) Alkane: Str...	24.07	5.5	ng/ul	387768	6	25.00	1415740	20.0
Benzo[e]pyrene	24.69	12.6	ng/ul	890197	6	25.00	1415740	20.0
(DEL) Alkane: Str...	26.20	8.0	ng/ul	564576	6	25.00	1415740	20.0