LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110615\
Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.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	3.129	42	49	56	rBV	64146	122861	5.63%	0.450%
2	3.205	57	62	73	rVB	228617	332279	15.23%	1.217%
3	7.324	758	763	771	rBV2	37258	65151	2.99%	0.239%
4	7.489	785	791	801	rBV	129561	218652	10.02%	0.801%
5	7.706	821	828	840	rBV	136207	236412	10.84%	0.866%
6	8.176	900	908	916	rBV	152982	263928	12.10%	0.967%
7	8.558	966	973	982	rVB2	136602	226259	10.37%	0.829%
8	8.881	1022	1028	1037	rVB2	115141	199853	9.16%	0.732%
9	9.351	1101	1108	1119	rVV2	196969	428738	19.65%	1.570%
10	9.545	1134	1141	1150	rVB2	48590	79213	3.63%	0.290%
11	9.739	1167	1174	1179	rVB4	21240	36718	1.68%	0.134%
12	10.080	1223	1232	1241	rBV	174859	308992	14.16%	1.132%
13	10.403	1278	1287	1294	rBV5	14895	33714	1.55%	0.123%
14	10.620	1316	1324	1333	rBV	234929	427481	19.59%	1.566%
15	11.008	1383	1390	1396	rBV	219342	385650	17.68%	1.413%
16	11.120	1404	1409	1415	rBV6	16012	36204	1.66%	0.133%
17	11.184	1415	1420	1426	rVV4	41596	77807	3.57%	0.285%
18	11.237	1426	1429	1435	rVV4	19218	32469	1.49%	0.119%
19	11.296	1435	1439	1444	rVB4	15318	26388	1.21%	0.097%
20	11.419	1454	1460	1466	rVB4	27022	54057	2.48%	0.198%
21	11.660	1496	1501	1507	rVB3	10782	17961	0.82%	0.066%
22	12.113	1569	1578	1585	rBV	66361	117620	5.39%	0.431%
23	12.547	1647	1652	1659	rBV	67850	117045	5.37%	0.429%
24	12.700	1673	1678	1681	rBV2	12791	18526	0.85%	0.068%
25	12.841	1698	1702	1712	rVB4	21697	48337	2.22%	0.177%
26	13.869	1872	1877	1886	rVB4	23737	45939	2.11%	0.168%
27	13.981	1891	1896	1903	rVV6	12519	27242	1.25%	0.100%
28	14.204	1928	1934	1940	rVV	556492	784599	35.96%	2.874%
29	14.363	1953	1961	1964	rBV3	26195	46683	2.14%	0.171%
30	14.398	1964	1967	1972	rVB	29885	39956	1.83%	0.146%
31	14.504	1977	1985	1997	rBV	529916	951083	43.60%	3.484%
32	14.809	2031	2037	2042	rVV2	395518	635639	29.14%	2.328%
33	14.874	2042	2048	2054	rVB	856705	1289506	59.11%	4.723%
34	14.992	2063	2068	2075	rBV2	57430	90001	4.13%	0.330%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110615\
Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Title : SVOA CALIBRATION

35	15.115	2084	2089	2095	rVV	53243	75128	3.44%	0.275%
36	15.203	2097	2104	2111	rVB	654688	968487	44.39%	3.547%
37	15.409	2133	2139	2145	rBV5	21552	43709	2.00%	0.160%
38	15.509	2145	2156	2162	rBV4	30863	66930	3.07%	0.245%
39	15.579	2162	2168	2172	rBV7	10030	19814	0.91%	0.073%
40	15.749	2193	2197	2199	rVV2	28847	39421	1.81%	0.144%
41	15.796	2199	2205	2210	rVV	741496	1132155	51.90%	4.147%
42	15.849	2210	2214	2219	rVV	221815	340164	15.59%	1.246%
43	15.902	2219	2223	2229	rVV	310914	467942	21.45%	1.714%
44	15.973	2232	2235	2237	rVV3	37416	50418	2.31%	0.185%
45	16.002	2238	2240	2244	rVV2	42666	63401	2.91%	0.232%
46	16.055	2247	2249	2253	rVV4	28429	44194	2.03%	0.162%
47	16.102	2253	2257	2260	rVV3	44985	75312	3.45%	0.276%
48	16.143	2260	2264	2273	rVV2	126261	206637	9.47%	0.757%
49	16.284	2276	2288	2297	rVV3	144209	344630	15.80%	1.262%
50	16.378	2301	2304	2311	rVV	27045	42135	1.93%	0.154%
51	16.525	2323	2329	2335	rVB	254621	385358	17.66%	1.411%
52	16.643	2342	2349	2356	rBV	61816	112402	5.15%	0.412%
53	16.842	2372	2383	2388	rBV8	29111	89844	4.12%	0.329%
54	16.907	2389	2394	2398	rVB8	13343	24485	1.12%	0.090%
55	17.001	2404	2410	2417	rVB5	29281	58609	2.69%	0.215%
56	17.071	2417	2422	2426	rBV4	14620	26468	1.21%	0.097%
57	17.118	2426	2430	2432	rBV4	16139	19286	0.88%	0.071%
58	17.195	2439	2443	2449	rVB	34159	56948	2.61%	0.209%
59	17.271	2451	2456	2461	rBV4	16754	40873	1.87%	0.150%
60	17.324	2463	2465	2468	rVV2	28348	37149	1.70%	0.136%
61	17.365	2468	2472	2477	rVV2	126480	190075	8.71%	0.696%
62	17.424	2477	2482	2490	rVV2	103420	190269	8.72%	0.697%
63	17.494	2490	2494	2498	rVV5	38294	86788	3.98%	0.318%
64	17.547	2498	2503	2508	rVV2	623600	951948	43.64%	3.487%
65	17.594	2508	2511	2514	rVV2	62581	85636	3.93%	0.314%
66	17.647	2514	2520	2531	rVB	893417	1464720	67.14%	5.365%
67	17.906	2560	2564	2565	rBV3	17285	19043	0.87%	0.070%
68	17.953	2566	2572	2580	rVB	771845	1192086	54.64%	4.366%
69	18.035	2583	2586	2588	rBV4	14697	20576	0.94%	0.075%
70	18.182	2606	2611	2618	rBV3	62007	164278	7.53%	0.602%
71	18.235	2618	2620	2624	rVB5	41808	54108	2.48%	0.198%

LSC Area Percent Report

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Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Title : SVOA CALIBRATION

72	18.341	2634	2638	2642	rBV3	34641	52054	2.39%	0.191%
73	18.382	2642	2645	2647	rVB	18696	19346	0.89%	0.071%
74	18.423	2647	2652	2655	rBV	56182	77264	3.54%	0.283%
75	18.464	2655	2659	2666	rVB	208568	293894	13.47%	1.076%
76	18.540	2668	2672	2678	rBV6	22581	40398	1.85%	0.148%
77	18.623	2678	2686	2694	rBV2	165905	337575	15.47%	1.236%
78	18.699	2694	2699	2700	rBV2	61421	101630	4.66%	0.372%
79	18.758	2706	2709	2712	rVV2	85286	97902	4.49%	0.359%
80	18.793	2712	2715	2718	rVB2	39896	48767	2.24%	0.179%
81	18.852	2720	2725	2730	rBV2	155408	234529	10.75%	0.859%
82	18.905	2730	2734	2739	rVB2	89507	140550	6.44%	0.515%
83	18.987	2745	2748	2754	rVB4	38750	63770	2.92%	0.234%
84	19.122	2766	2771	2774	rBV5	31673	53735	2.46%	0.197%
85	19.427	2819	2823	2826	rBV3	32397	44016	2.02%	0.161%
86	19.469	2827	2830	2834	rVB3	40749	46251	2.12%	0.169%
87	19.592	2843	2851	2857	rVB	437872	681527	31.24%	2.496%
88	19.792	2880	2885	2886	rBV5	20889	28513	1.31%	0.104%
89	19.927	2901	2908	2920	rVB2	1182310	2181587	100.00%	7.990%
90	20.321	2968	2975	2981	rBV2	258366	478005	21.91%	1.751%
91	20.379	2981	2985	2991	rVB2	160251	227656	10.44%	0.834%
92	20.761	3047	3050	3057	rVB2	35224	53066	2.43%	0.194%
93	20.855	3063	3066	3070	rBV4	28549	43680	2.00%	0.160%
94	20.896	3071	3073	3077	rVB	25072	31571	1.45%	0.116%
95	20.996	3085	3090	3093	rBV	98033	151686	6.95%	0.556%
96	21.043	3094	3098	3106	rVB	93471	161687	7.41%	0.592%
97	21.831	3225	3232	3239	rVB	776273	1331186	61.02%	4.876%
98	22.471	3335	3341	3348	rBV	140464	285140	13.07%	1.044%
99	24.950	3752	3763	3774	rVB	629438	1743028	79.90%	6.384%
100	25.185	3792	3803	3813	rVB	392740	1177908	53.99%	4.314%

Sum of corrected areas: 27302310

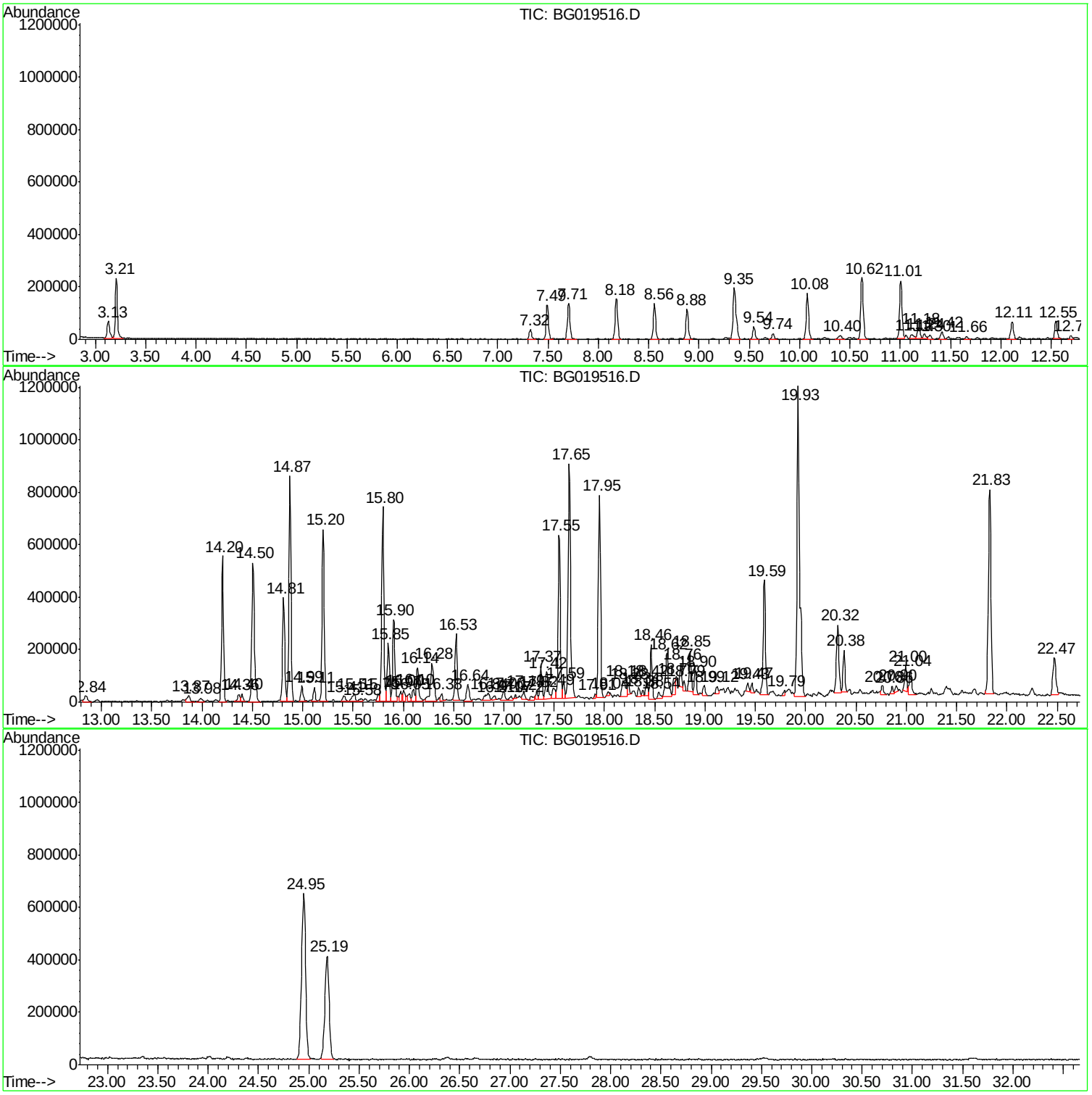
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110615\
Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110615\
Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
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Instrument : BNA_G
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

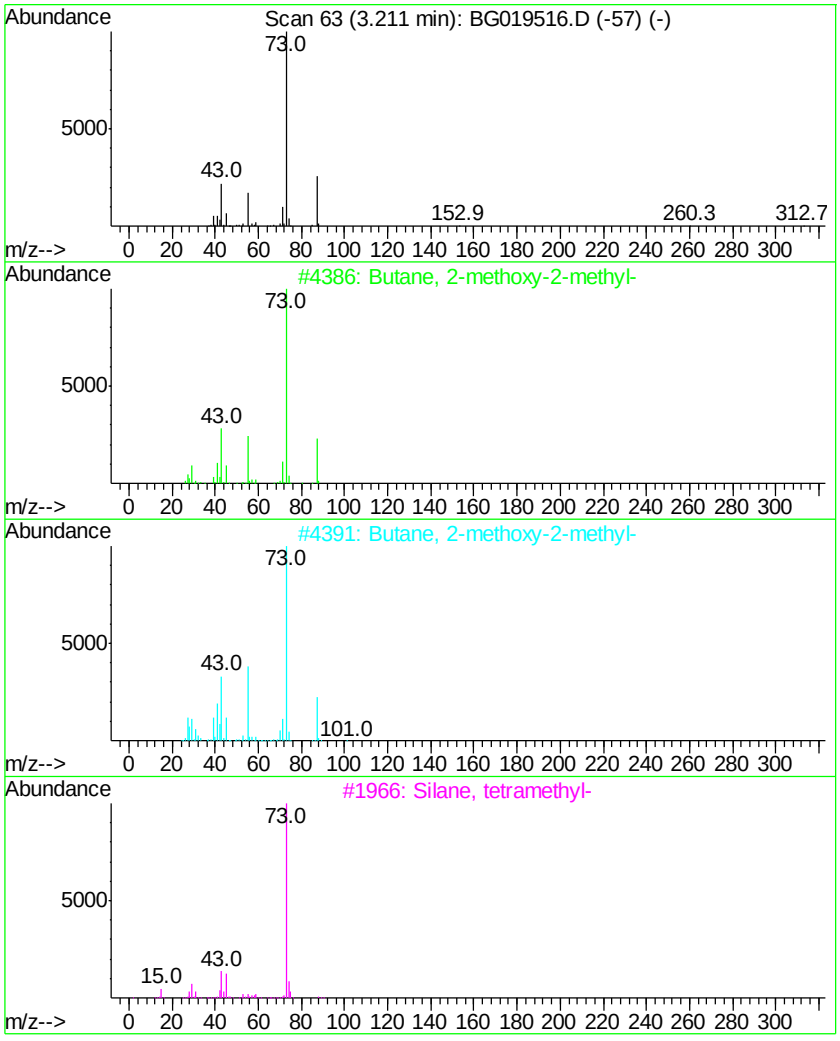
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

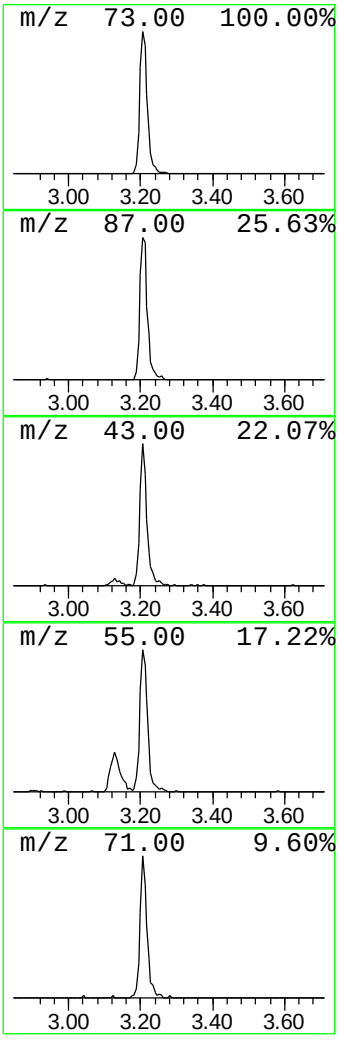
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.21	25.18 ng/ul	332279	1,4-Dichlorobenzene-d4	8.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	50
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	39
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	35
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	35
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110615\
Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

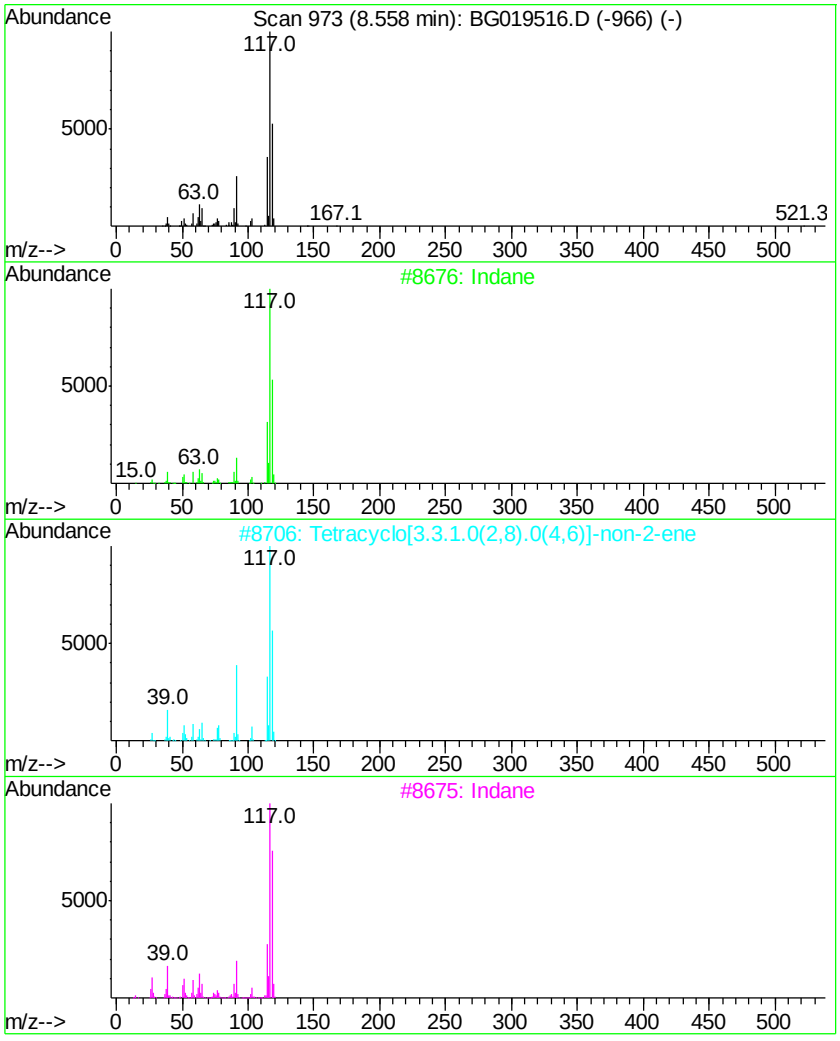
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

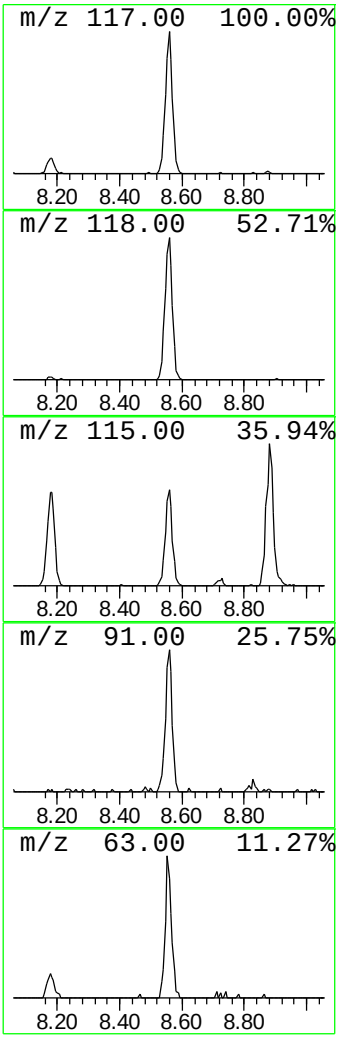
****

Peak Number 3 Indane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.56	17.15 ng/ul	226259	1,4-Dichlorobenzene-d4	8.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	91
2	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	72
3	Indane	118	C9H10	000496-11-7	64
4	cis-.beta.-Methylstyrene	118	C9H10	000766-90-5	64
5	Deltacyclene	118	C9H10	007785-10-6	59





Data Path : Z:\HPCHEM1\BNA G\DATA\BG110615\
Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

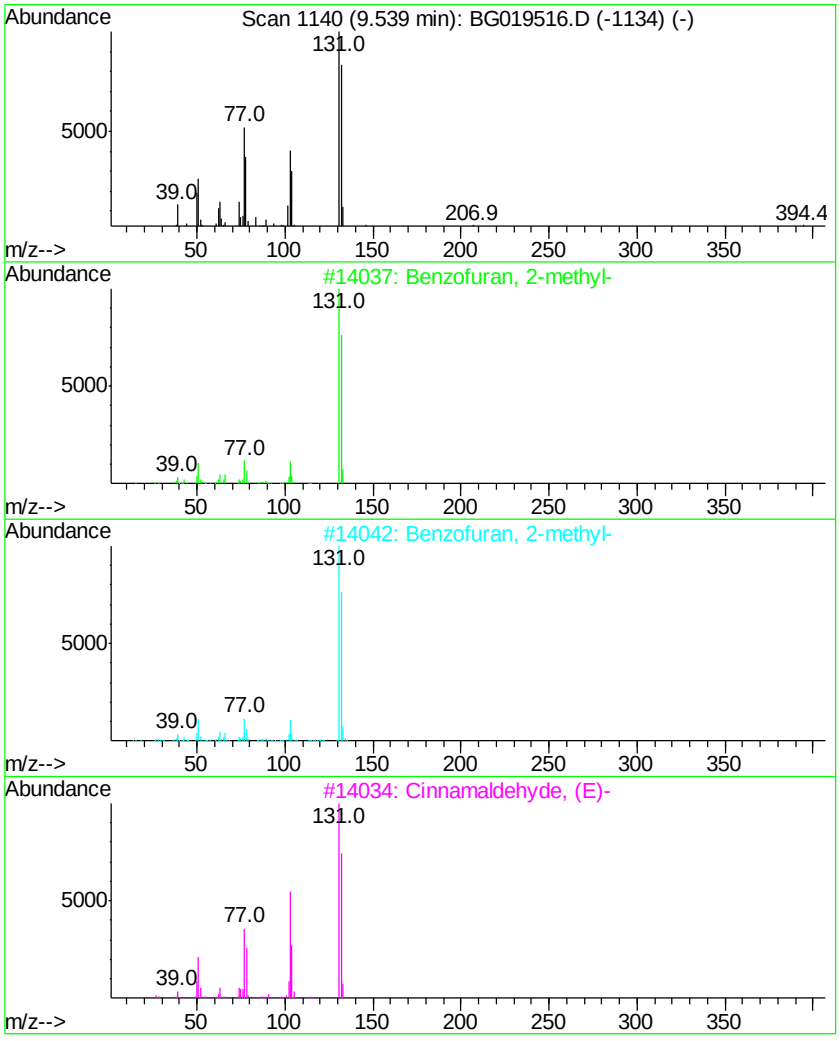
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

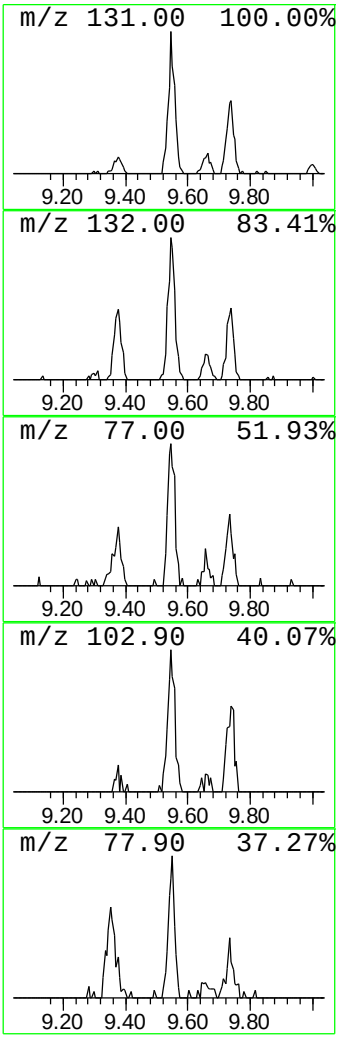
****

Peak Number 4 Benzofuran, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.54	6.00 ng/ul	79213	1,4-Dichlorobenzene-d4	8.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	94
2	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	93
3	Cinnamaldehyde, (E)-	132	C9H8O	014371-10-9	91
4	Benzofuran, 7-methyl-	132	C9H8O	017059-52-8	89
5	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	87





Data Path : Z:\HPCHEM1\BNA G\DATA\BG110615\
Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

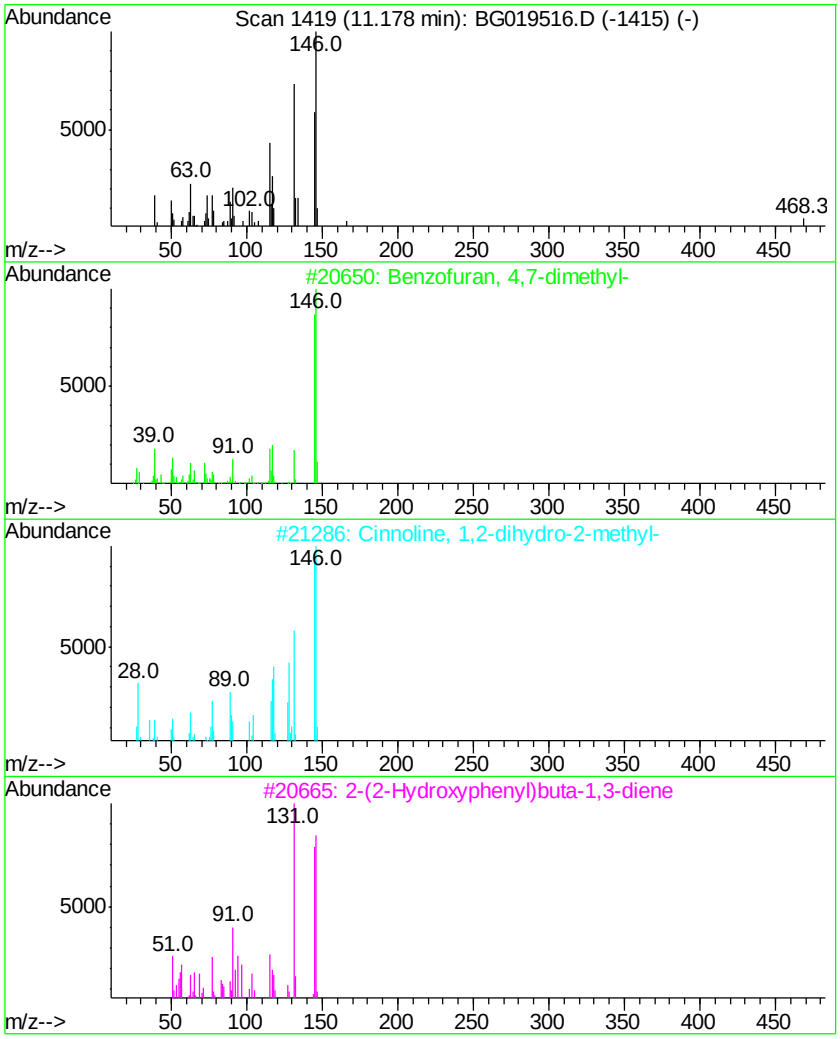
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

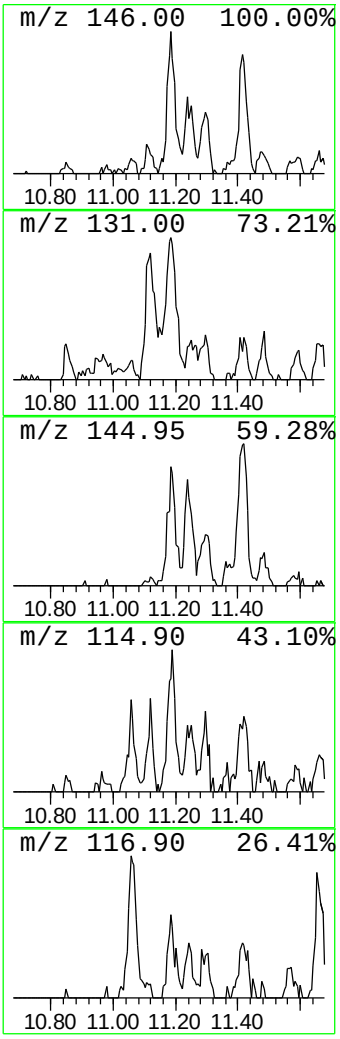
****

Peak Number 5 Benzofuran, 4,7-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.18	4.04 ng/ul	77807	Naphthalene-d8	11.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 4,7-dimethyl-	146	C10H10O	028715-26-6	83
2	Cinnoline, 1,2-dihydro-2-methyl-	146	C9H10N2	054063-10-4	83
3	2-(2-Hydroxyphenyl)buta-1,3-diene	146	C10H10O	038865-47-3	80
4	1H-Indazole, 5,7-dimethyl-	146	C9H10N2	043067-41-0	72
5	1H-Benzimidazole, 5,6-dimethyl-	146	C9H10N2	000582-60-5	72





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110615\
Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

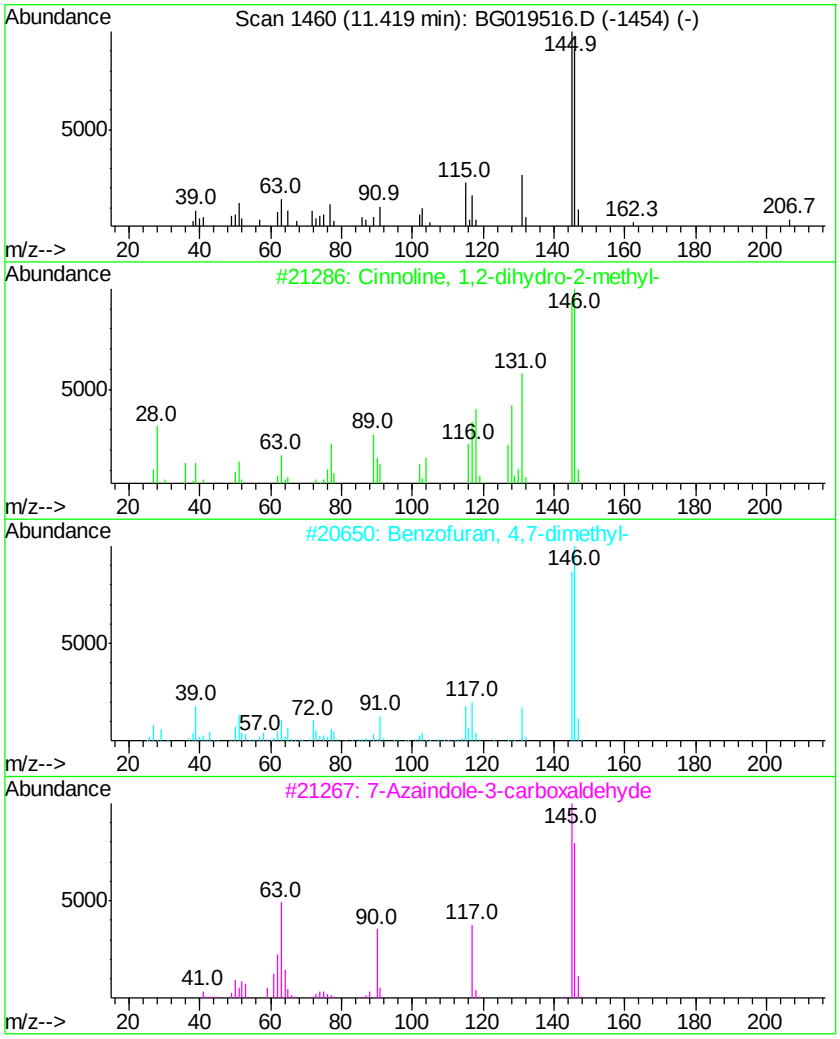
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

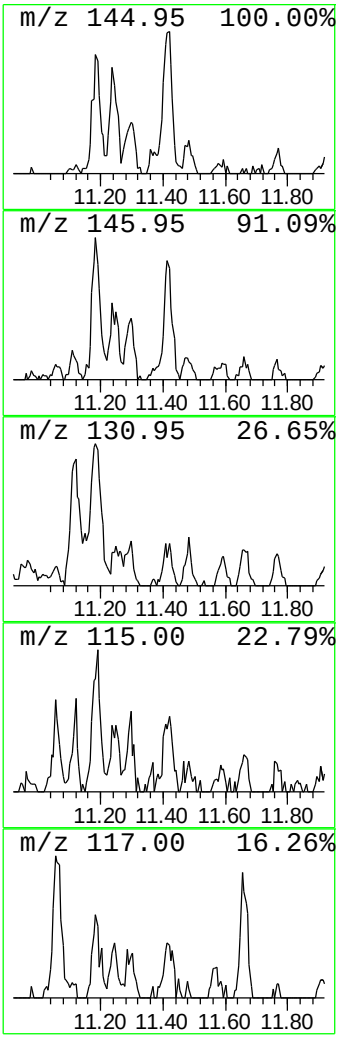
****

Peak Number 6 Cinnoline, 1,2-dihydro-2-me... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.42	2.80 ng/ul	54057	Naphthalene-d8	11.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cinnoline, 1,2-dihydro-2-methyl-	146	C9H10N2	054063-10-4	72
2	Benzofuran, 4,7-dimethyl-	146	C10H10O	028715-26-6	72
3	7-Azaindole-3-carboxaldehyde	146	C8H6N2O	004649-09-6	59
4	Benzonitrile, 4-(dimethylamino)-	146	C9H10N2	001197-19-9	53
5	1H-Benzimidazole, 5,6-dimethyl-	146	C9H10N2	000582-60-5	52





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Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
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Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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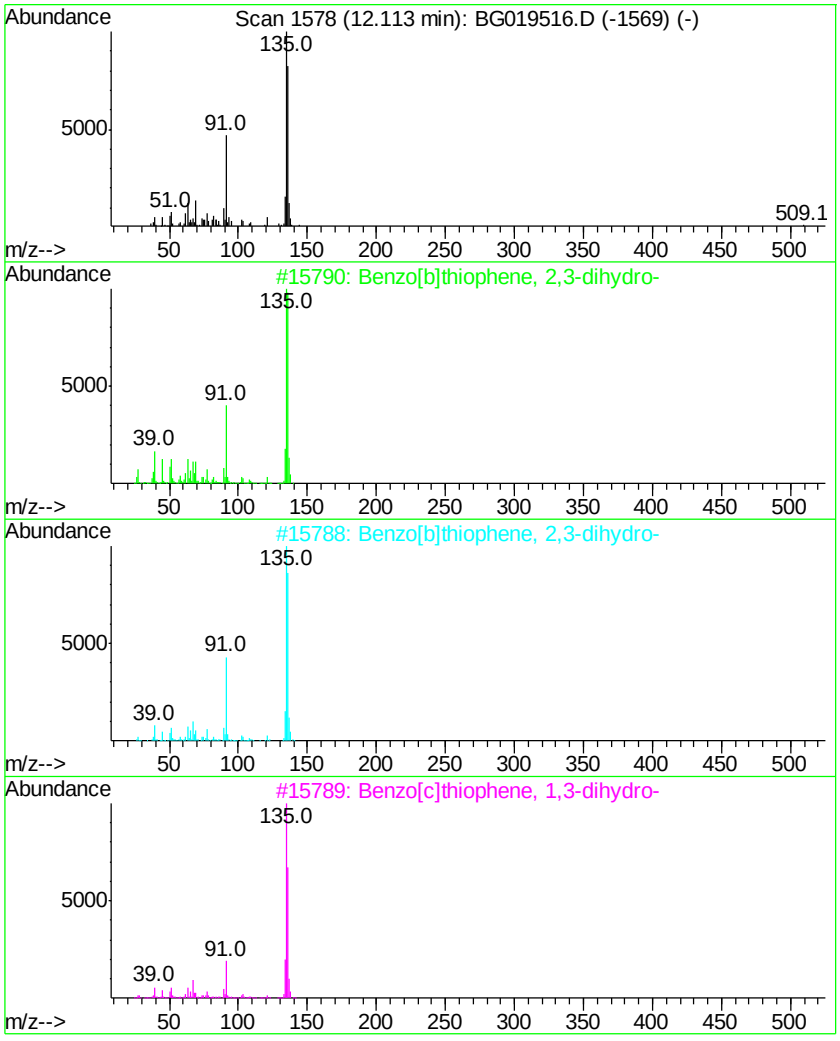
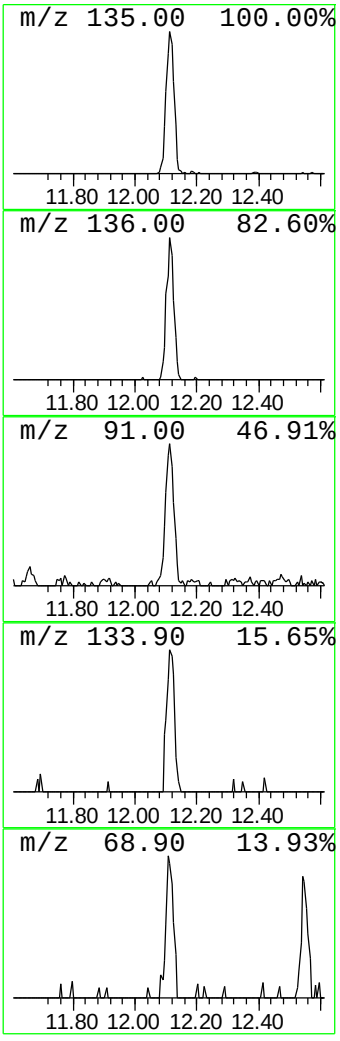
Peak Number 7 Benzo[b]thiophene, 2,3-dihy... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	6.10 ng/ul	117620	Naphthalene-d8	11.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S	004565-32-6	94
2	Benzo[b]thiophene, 2,3-dihydro-	136	C8H8S	004565-32-6	94
3	Benzo[c]thiophene, 1,3-dihydro-	136	C8H8S	002471-92-3	86
4	Benzene, (ethenylthio)-	136	C8H8S	001822-73-7	86
5	Benzene, (ethenylthio)-	136	C8H8S	001822-73-7	86





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Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

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

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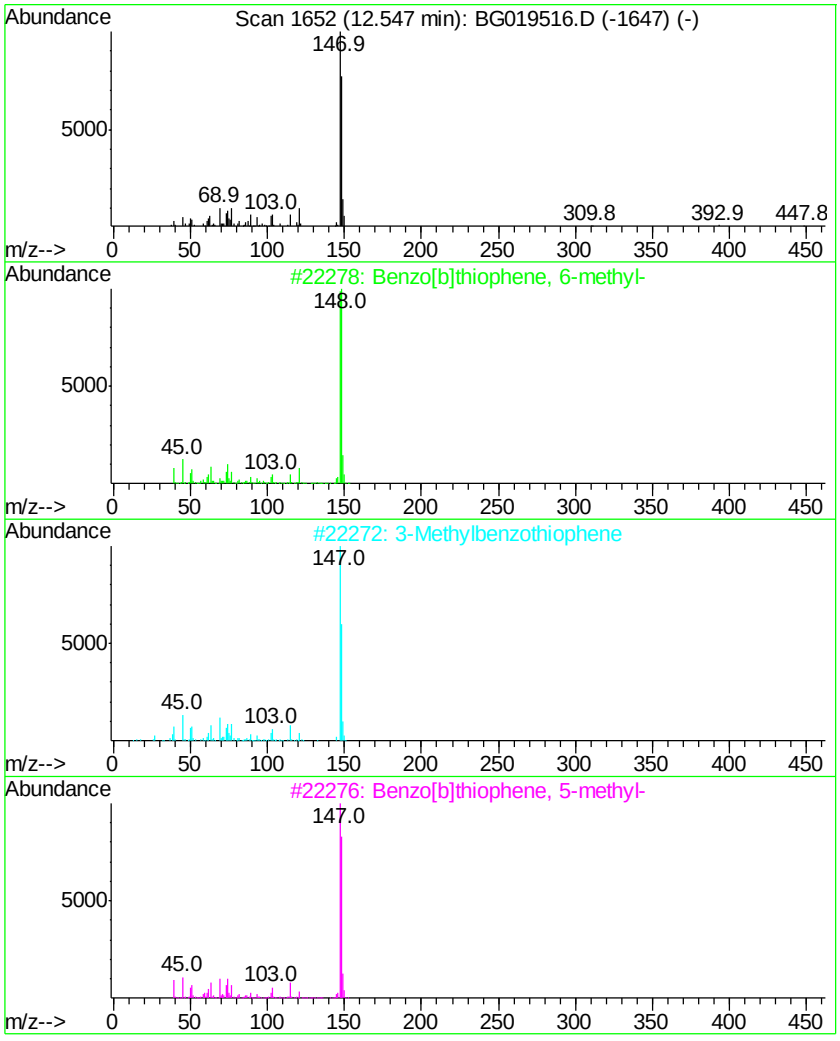
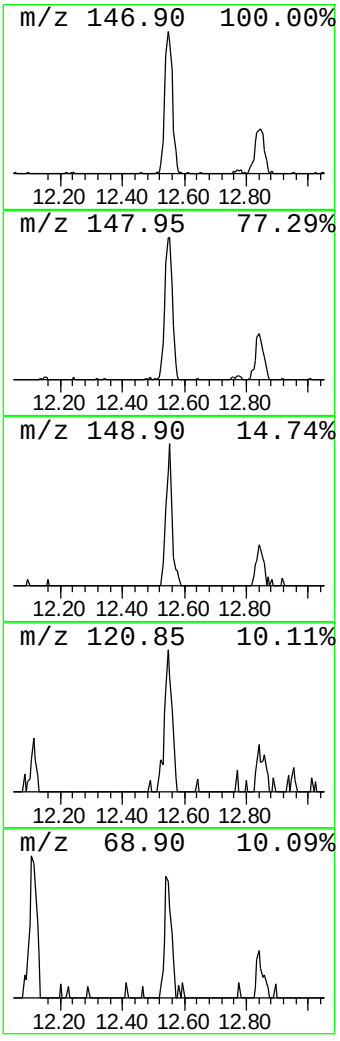
Peak Number 8 Benzo[b]thiophene, 6-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	6.07 ng/ul	117045	Naphthalene-d8	11.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 6-methyl-	148	C9H8S	016587-47-6	91
2	3-Methylbenzothiophene	148	C9H8S	001455-18-1	90
3	Benzo[b]thiophene, 5-methyl-	148	C9H8S	014315-14-1	90
4	3-Methylbenzothiophene	148	C9H8S	001455-18-1	90
5	Benzo[b]thiophene, 4-methyl-	148	C9H8S	014315-11-8	90





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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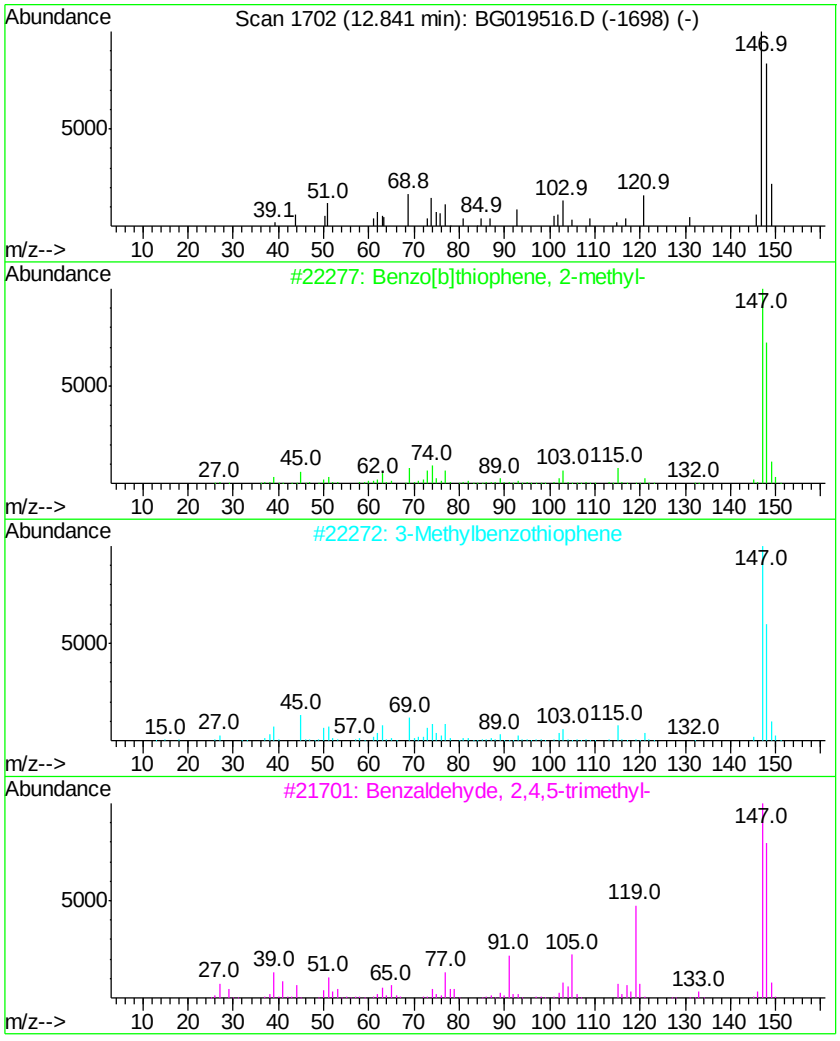
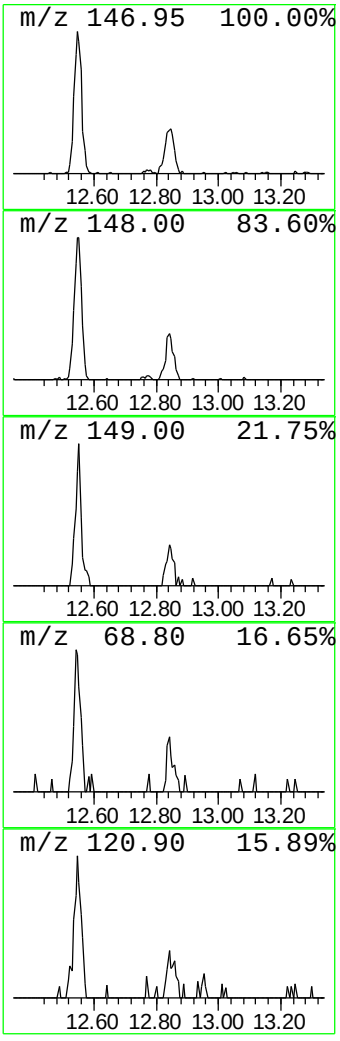
Peak Number 9 Benzo[b]thiophene, 2-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.84	2.51 ng/ul	48337	Naphthalene-d8	11.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	72
2	3-Methylbenzothiophene	148	C9H8S	001455-18-1	72
3	Benzaldehyde, 2,4,5-trimethyl-	148	C10H12O	005779-72-6	64
4	2-Propenoic acid, 3-phenyl-	148	C9H8O2	000621-82-9	64
5	2-Methyl-5-hydroxybenzofuran	148	C9H8O2	006769-56-8	59





Library Search Compound Report

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Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

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

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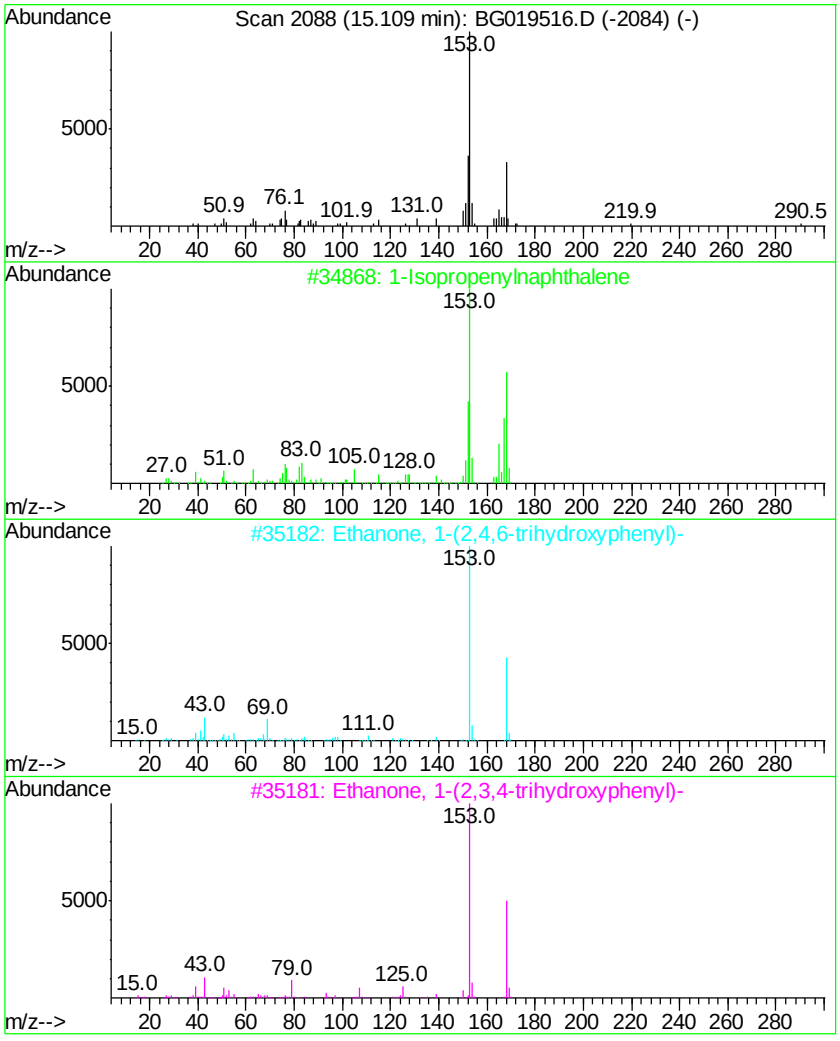
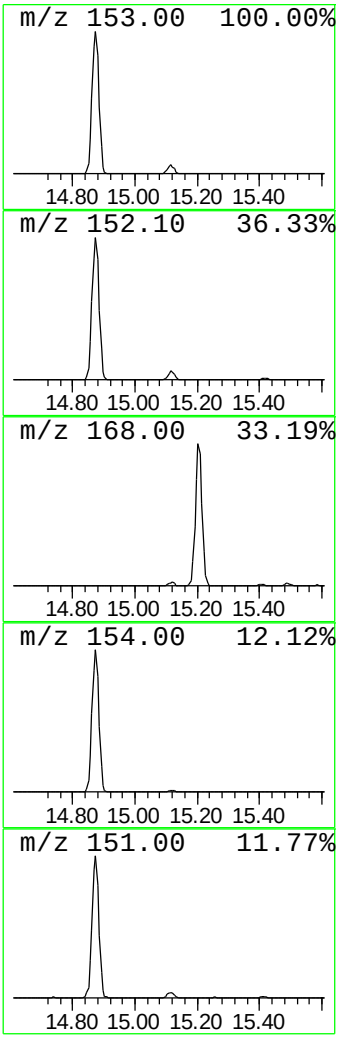
Peak Number 10 1-Isopropenylnaphthalene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.11	2.36 ng/ul	75128	Acenaphthene-d10	14.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	87
2	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	43
3	Ethanone, 1-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	43
4	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	43
5	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	43





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Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

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

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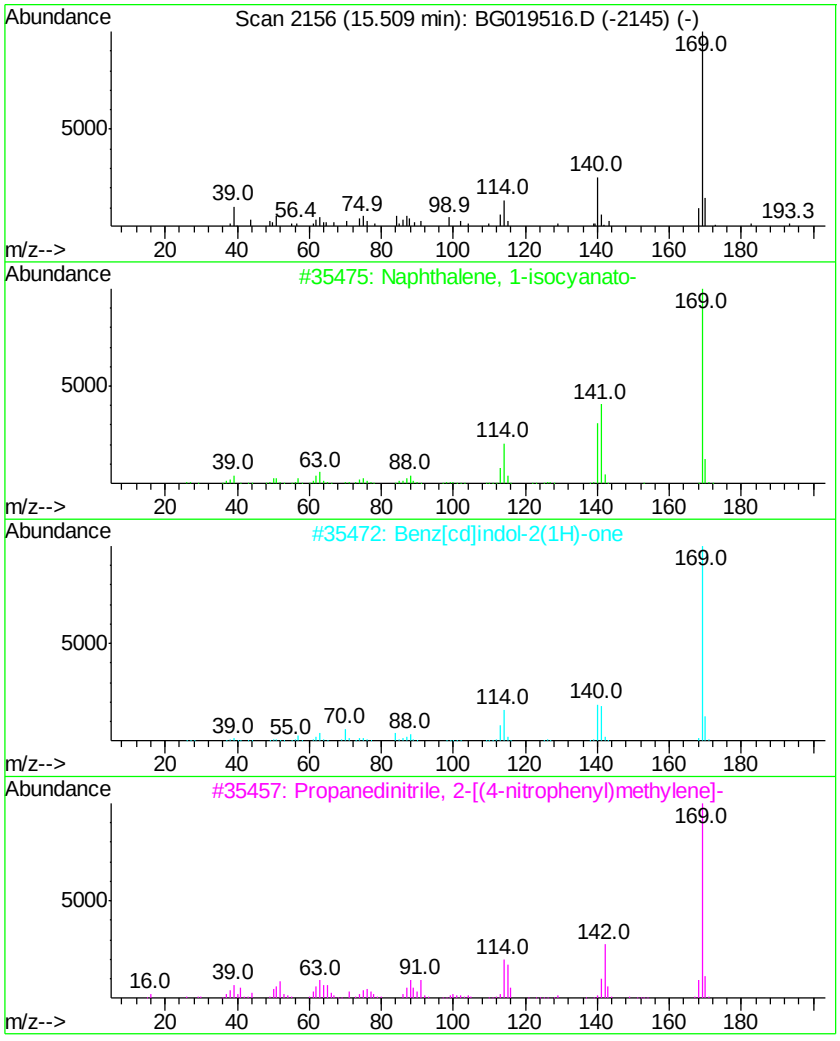
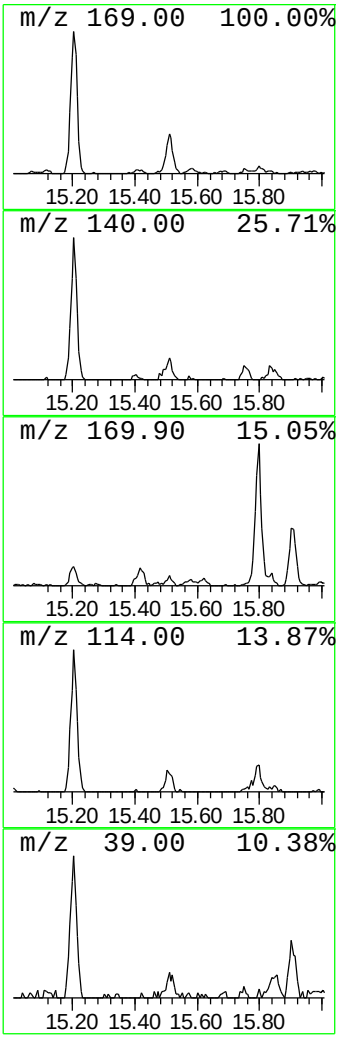
Peak Number 11 Naphthalene, 1-isocyanato- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.51	2.11 ng/ul	66930	Acenaphthene-d10	14.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-isocyanato-	169	C11H7NO	000086-84-0	81
2	Benz[cd]indol-2(1H)-one	169	C11H7NO	000130-00-7	64
3	Propanedinitrile, 2-[(4-nitrophe...	169	C10H7N3	017082-32-5	59
4	[1,2,4]Triazolo[4,3-a]quinoline	169	C10H7N3	000235-06-3	53
5	[1,1'-Biphenyl]-4-amine	169	C12H11N	000092-67-1	53





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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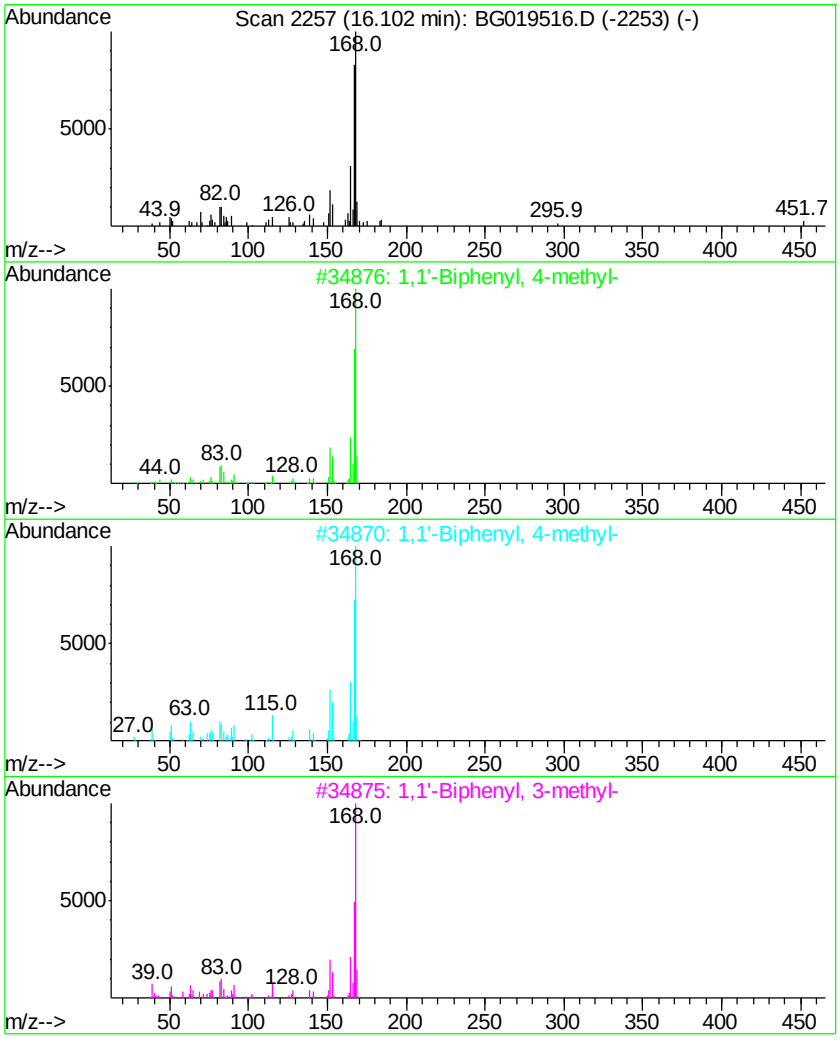
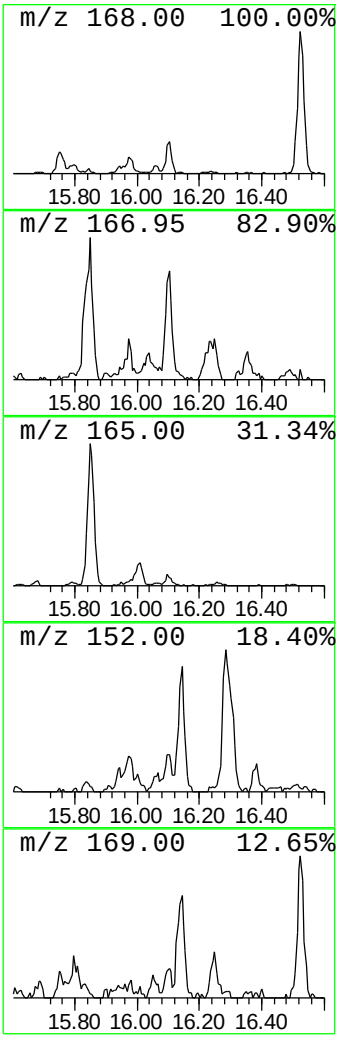
Peak Number 12 1,1'-Biphenyl, 4-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.10	2.37 ng/ul	75312	Acenaphthene-d10	14.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	87
2	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	87
3	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	83
4	Diphenylmethane	168	C13H12	000101-81-5	83
5	Diphenylmethane	168	C13H12	000101-81-5	83





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Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

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

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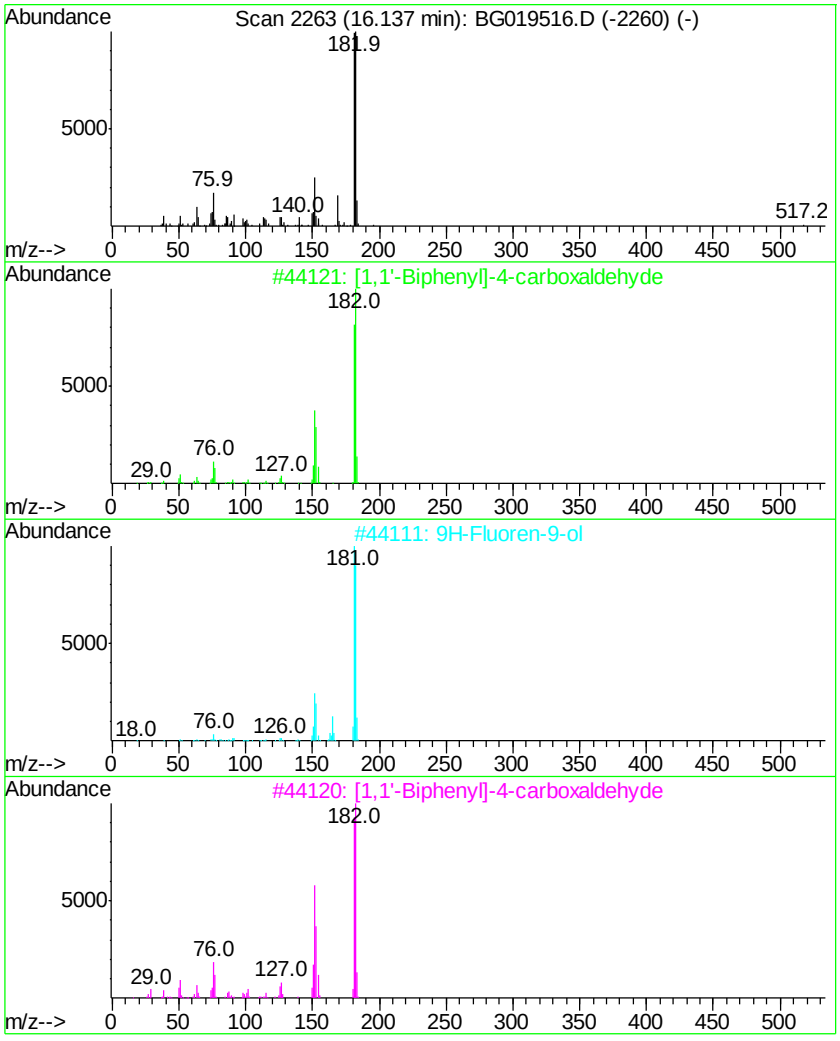
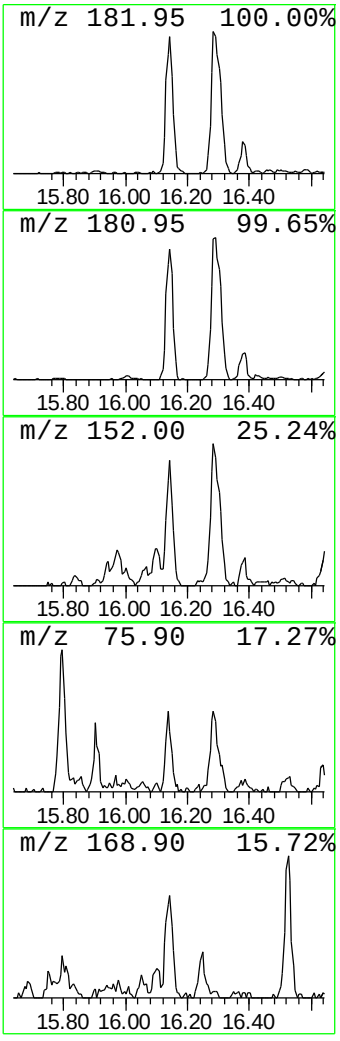
Peak Number 13 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.14	6.50 ng/ul	206637	Acenaphthene-d10	14.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	81
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
5	9H-Xanthene	182	C13H10O	000092-83-1	53





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Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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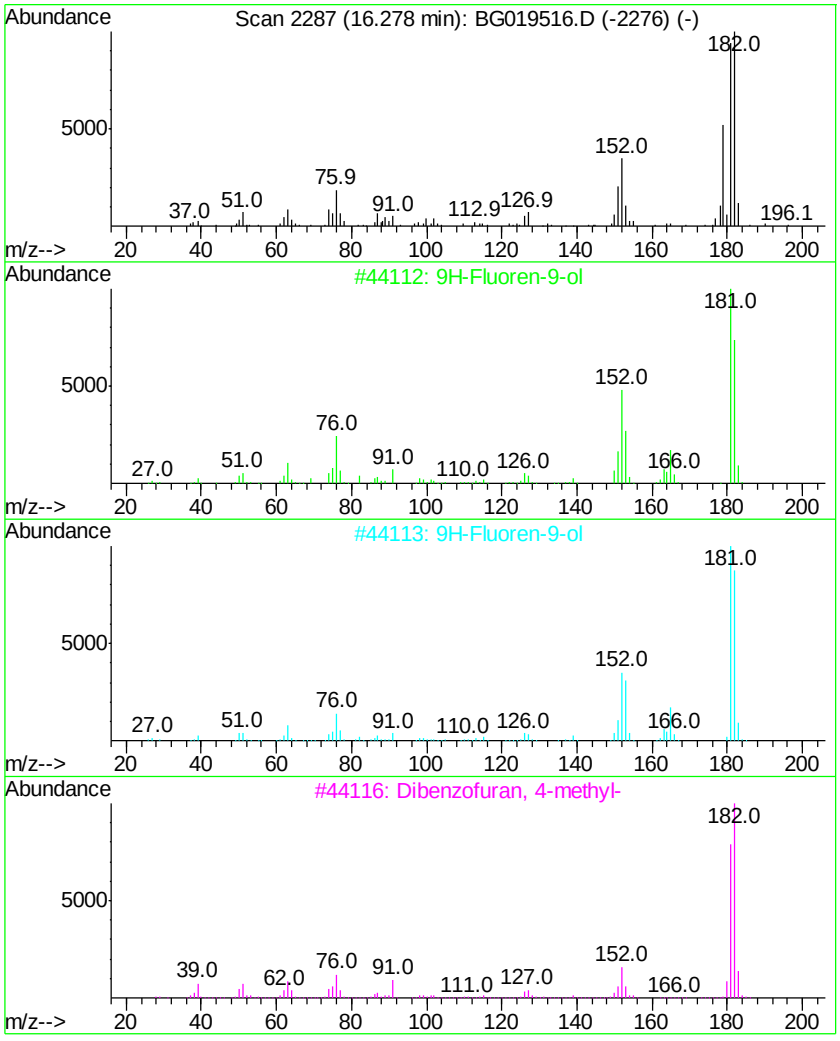
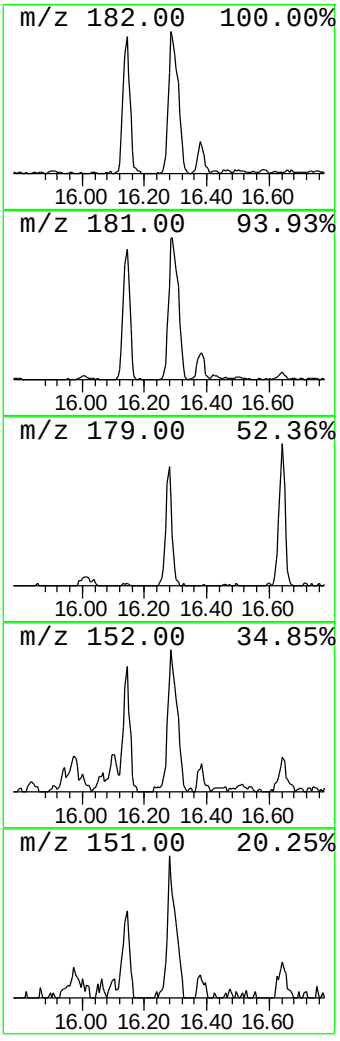
Peak Number 14 9H-Fluoren-9-ol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.28	7.24 ng/ul	344630	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	87
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	74
4	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	64





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Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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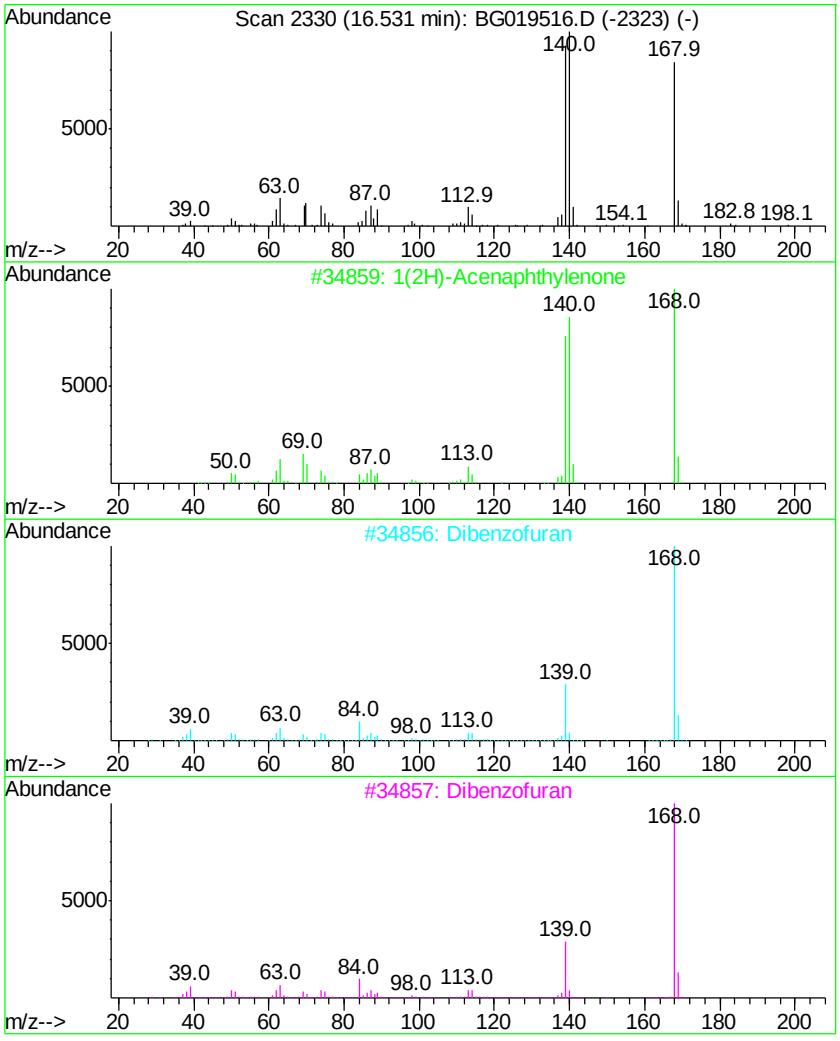
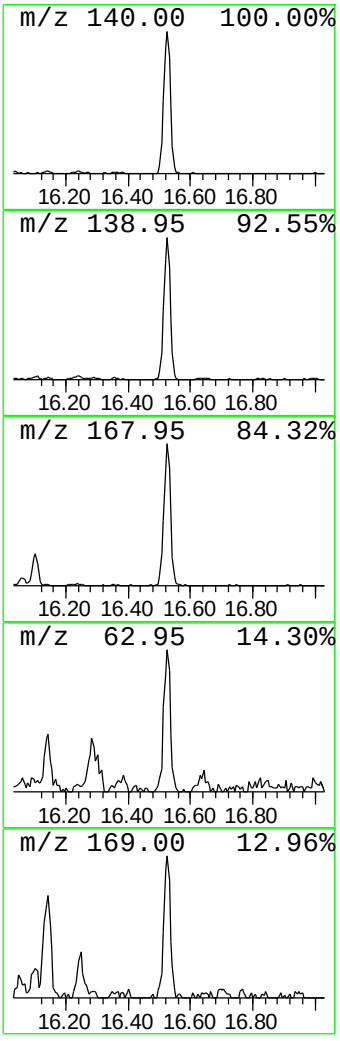
Peak Number 15 1(2H)-Acenaphthylenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.53	8.10 ng/ul	385358	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	94
2	Dibenzofuran	168	C12H8O	000132-64-9	58
3	Dibenzofuran	168	C12H8O	000132-64-9	58
4	7(4H)-Benzothiazolone, 2-amino-5...	168	C7H8N2OS	017583-10-7	50
5	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	49





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Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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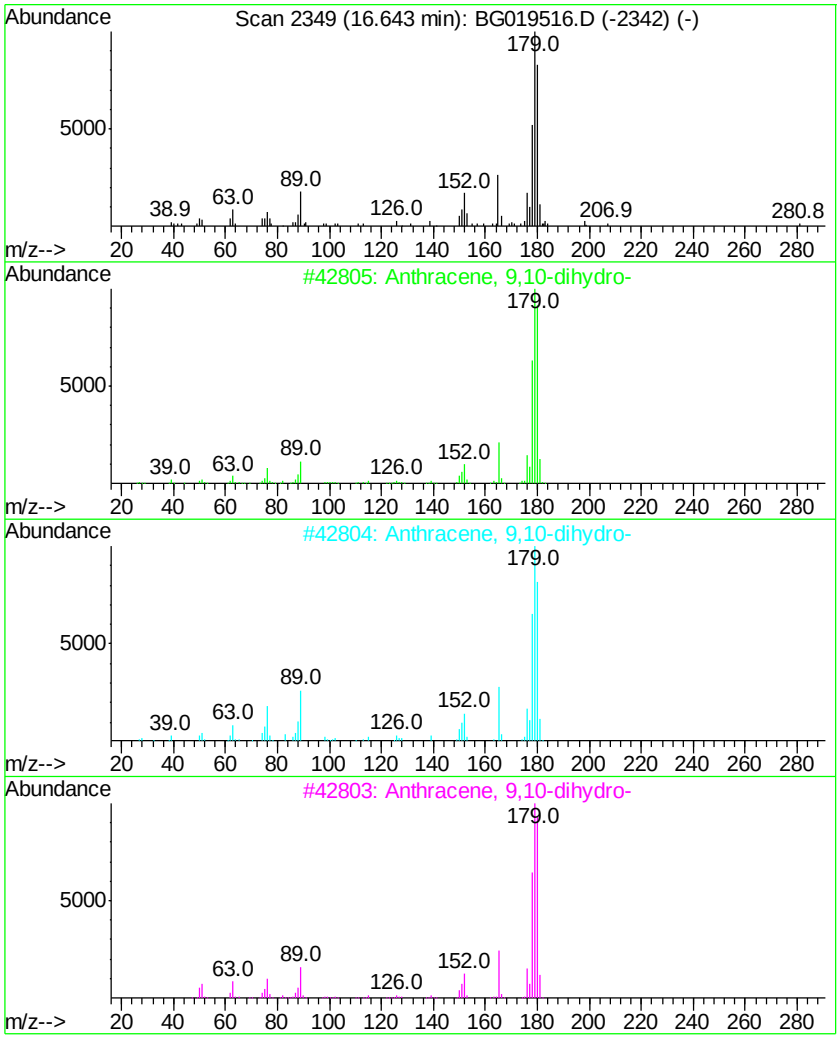
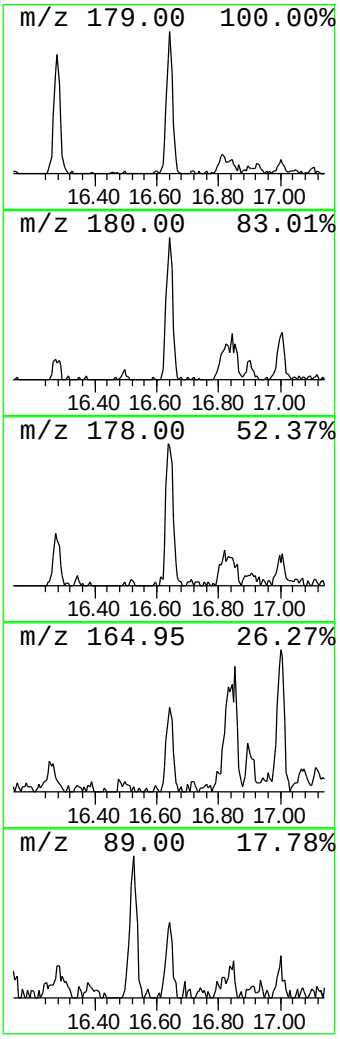
Peak Number 16 Anthracene, 9,10-dihydro- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.64	2.36 ng/ul	112402	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	96
2	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
3	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	94
4	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	83
5	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	81





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Misc :
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Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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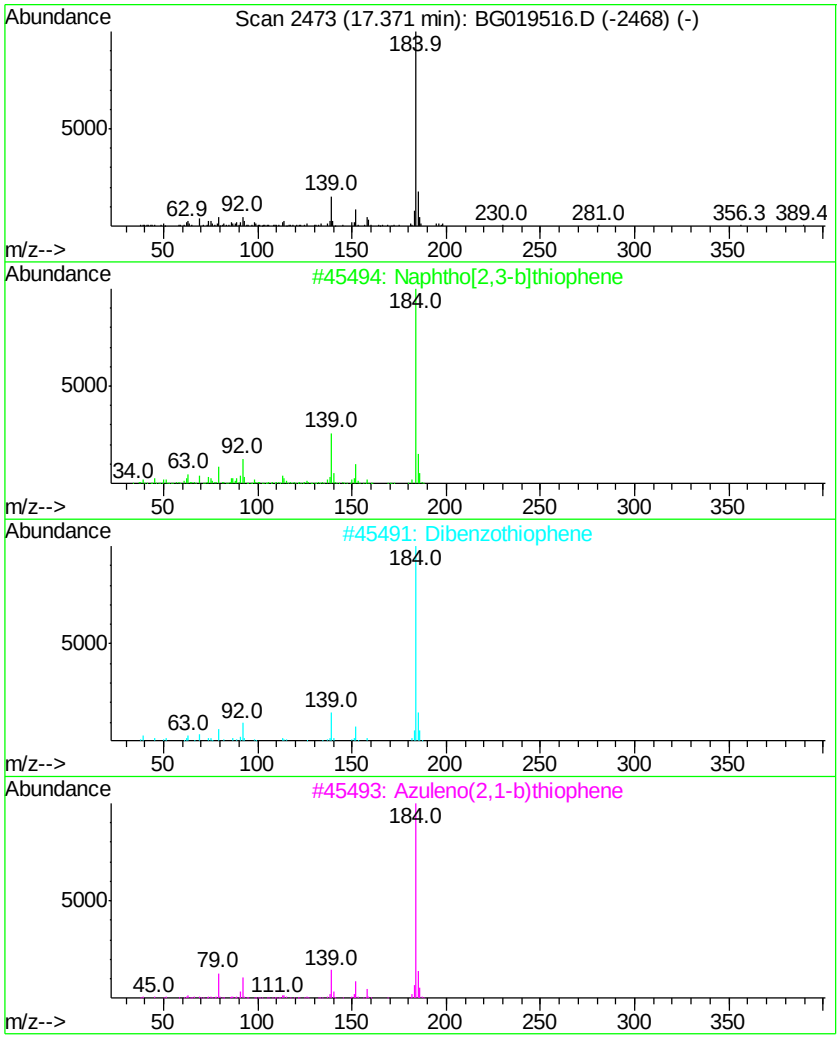
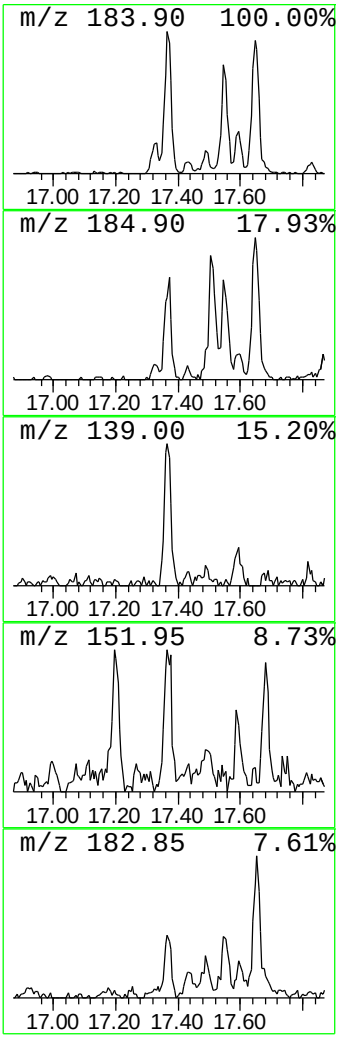
Peak Number 17 Naphtho[2,3-b]thiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.37	3.99 ng/ul	190075	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
2	Dibenzothiophene	184	C12H8S	000132-65-0	93
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Dibenzothiophene	184	C12H8S	000132-65-0	90
5	Dibenzothiophene	184	C12H8S	000132-65-0	81





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Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

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

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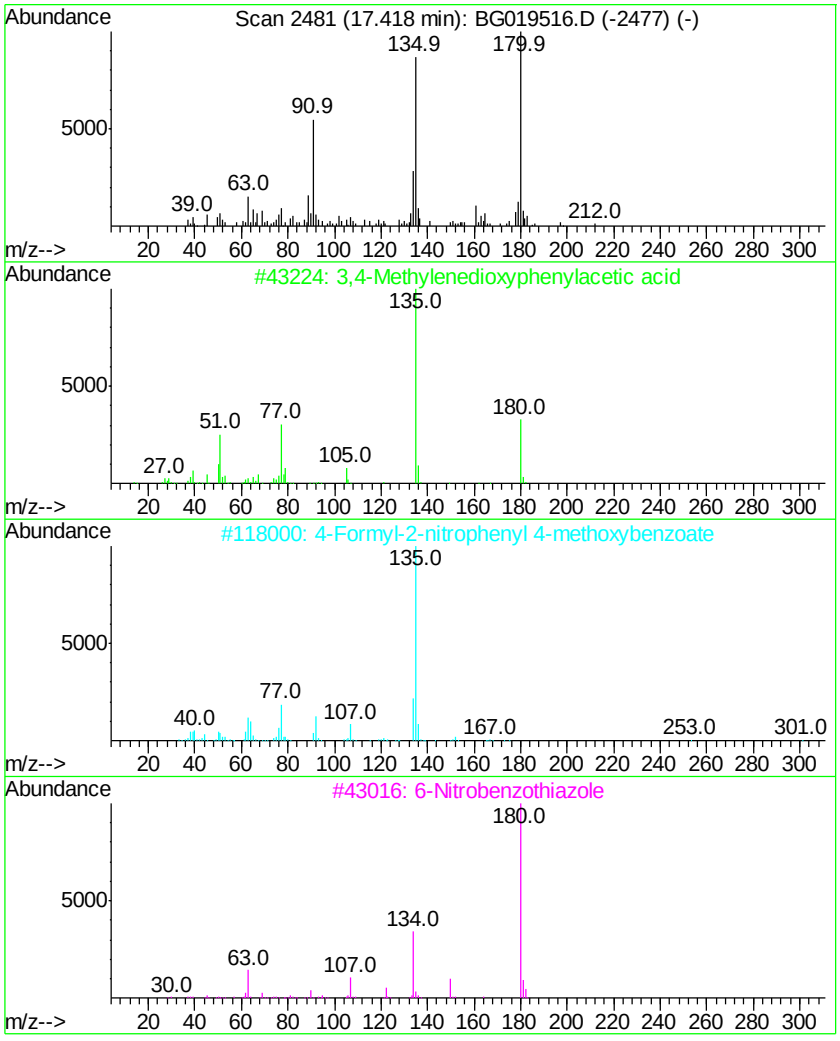
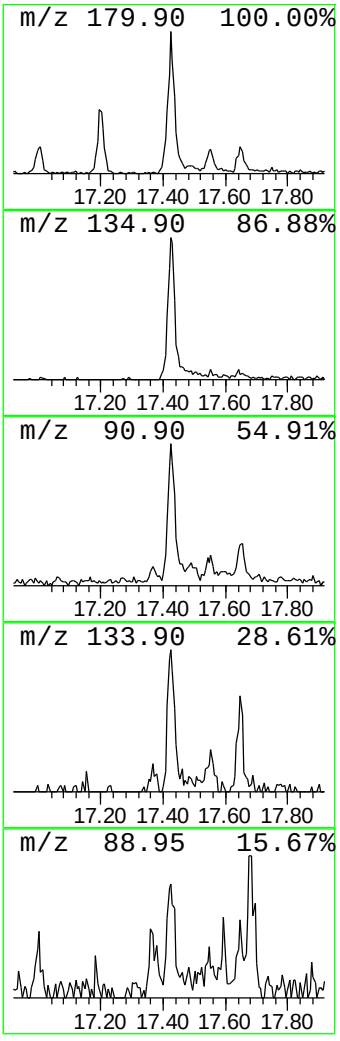
Peak Number 18 3,4-Methylenedioxyphenylace... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.42	4.00 ng/ul	190269	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Methylenedioxyphenylacetic acid	180	C9H8O4	002861-28-1	59
2	4-Formyl-2-nitrophenyl 4-methoxy...	301	C15H11NO6	349489-11-8	38
3	6-Nitrobenzothiazole	180	C7H4N2O2S	002942-06-5	35
4	4-Cyanothiophenol	135	C7H5NS	036801-01-1	35
5	Thieno[2,3-c]pyridine, 3-nitro-	180	C7H4N2O2S	028783-28-0	35





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Operator : UM/NP
Sample : G4245-14
Misc :
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Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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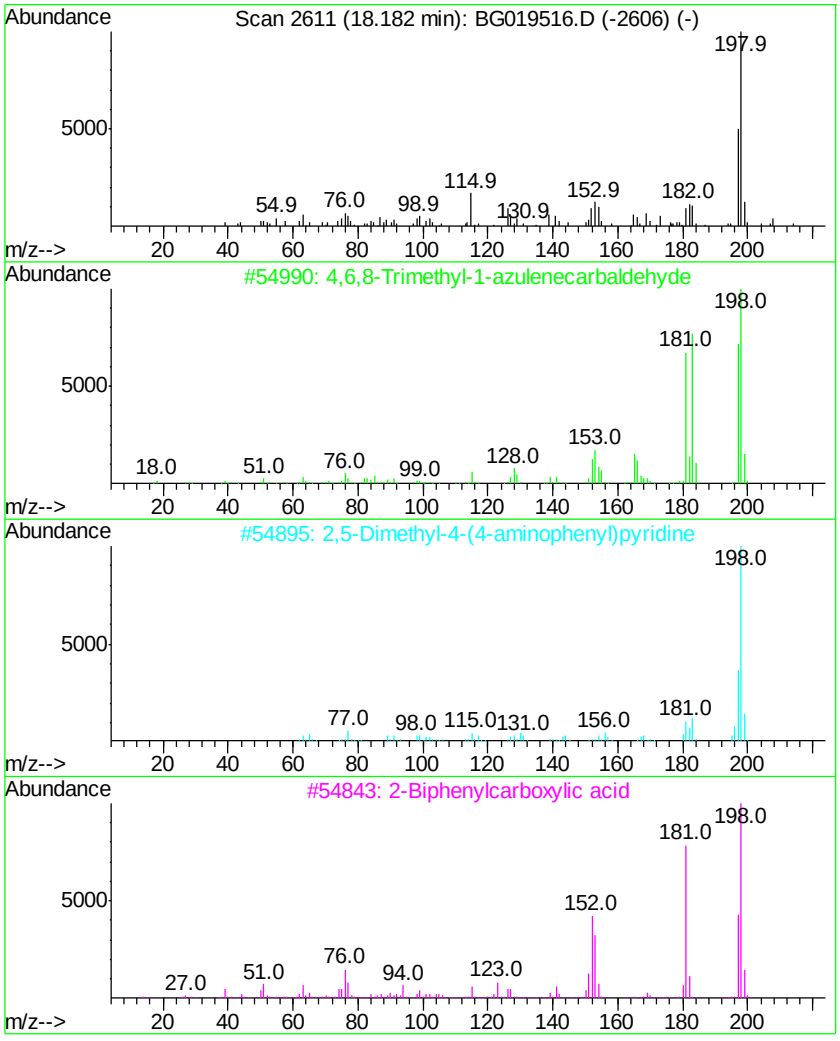
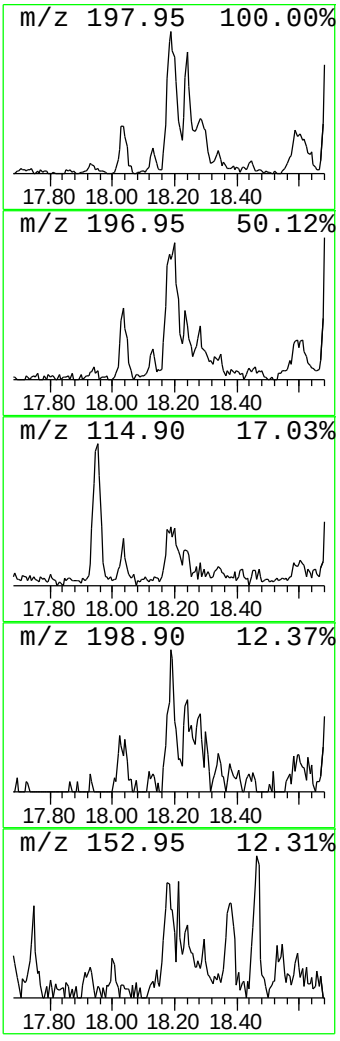
Peak Number 19 4,6,8-Trimethyl-1-azuleneca... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.18	3.45 ng/ul	164278	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,6,8-Trimethyl-1-azulenecarbald...	198	C14H14O	000832-62-2	72
2	2,5-Dimethyl-4-(4-aminophenyl)py...	198	C13H14N2	071153-40-7	62
3	2-Biphenylcarboxylic acid	198	C13H10O2	000947-84-2	59
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	58
5	2-Propenoic acid, 3-(2-naphthale...	198	C13H10O2	051557-26-7	58





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Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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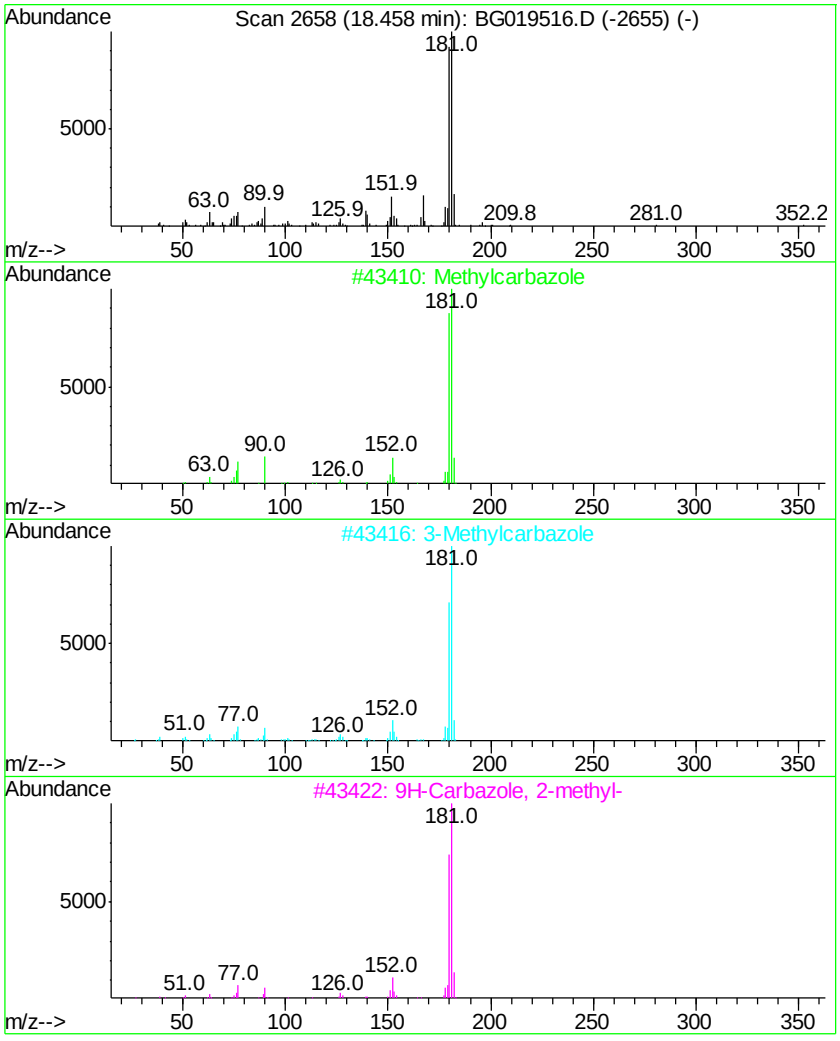
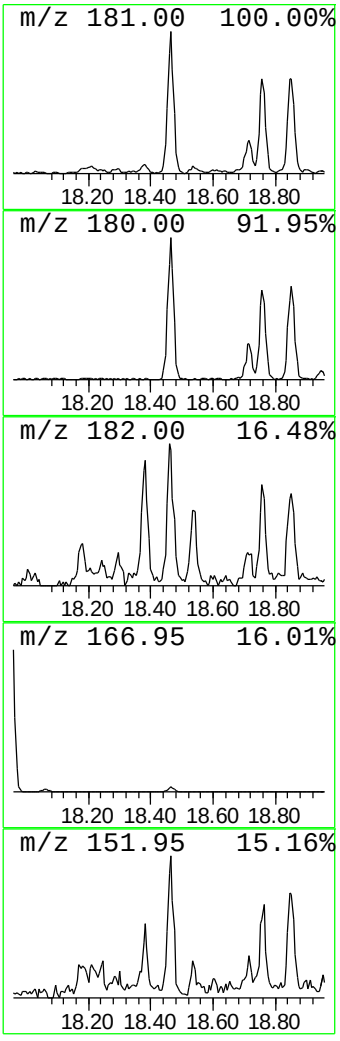
Peak Number 20 Methylcarbazole Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.46	6.17 ng/ul	293894	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylcarbazole	181	C13H11N	027323-29-1	96
2	3-Methylcarbazole	181	C13H11N	004630-20-0	94
3	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	94
4	1-Methylcarbazole	181	C13H11N	006510-65-2	94
5	4-Methylcarbazole	181	C13H11N	003770-48-7	93





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Misc :
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Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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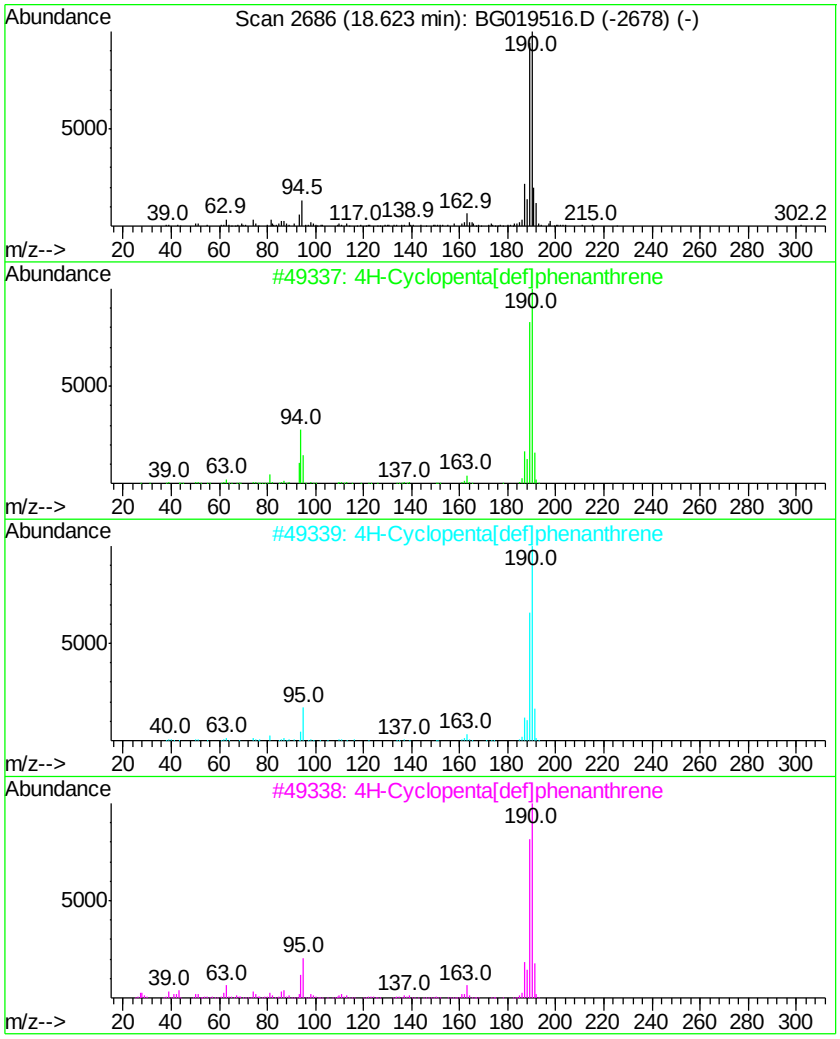
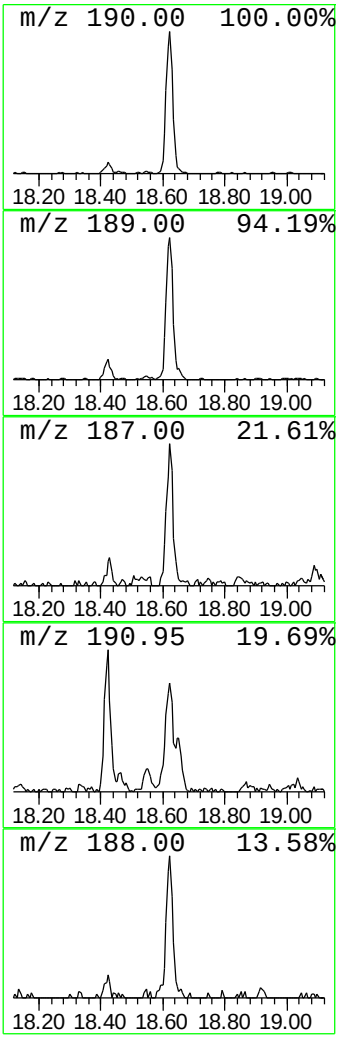
Peak Number 21 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.62	7.09 ng/ul	337575	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	91
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
4	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	59
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	42





Library Search Compound Report

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ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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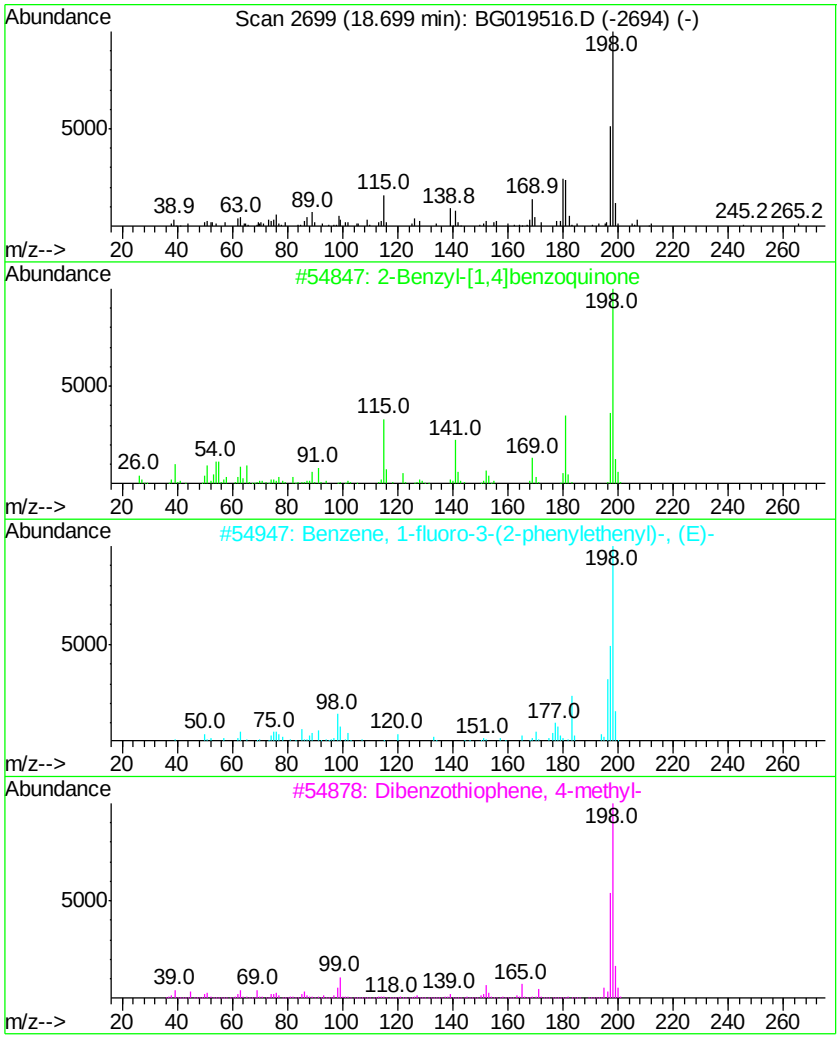
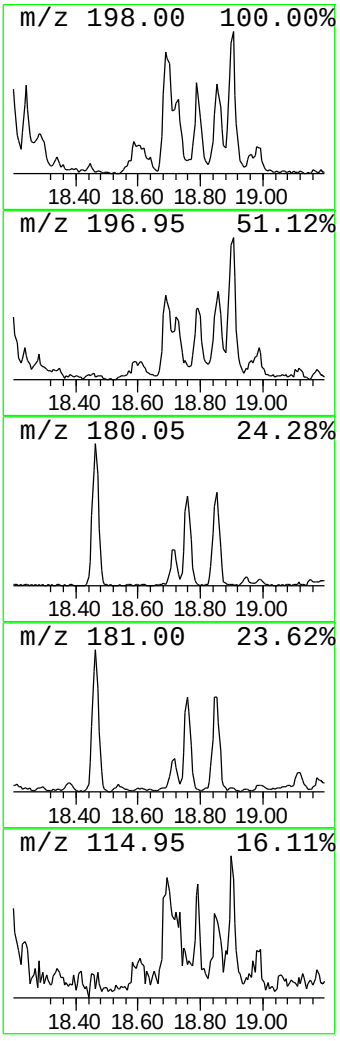
Peak Number 22 2-Benzyl-[1,4]benzoquinone Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	2.14 ng/ul	101630	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Benzyl-[1,4]benzoquinone	198	C13H10O2	038940-10-2	68
2	Benzene, 1-fluoro-3-(2-phenyleth...	198	C14H11F	003041-81-4	52
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	50
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	50
5	2,8-Dibenzofurandiamine	198	C12H10N2O	025295-66-3	47





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ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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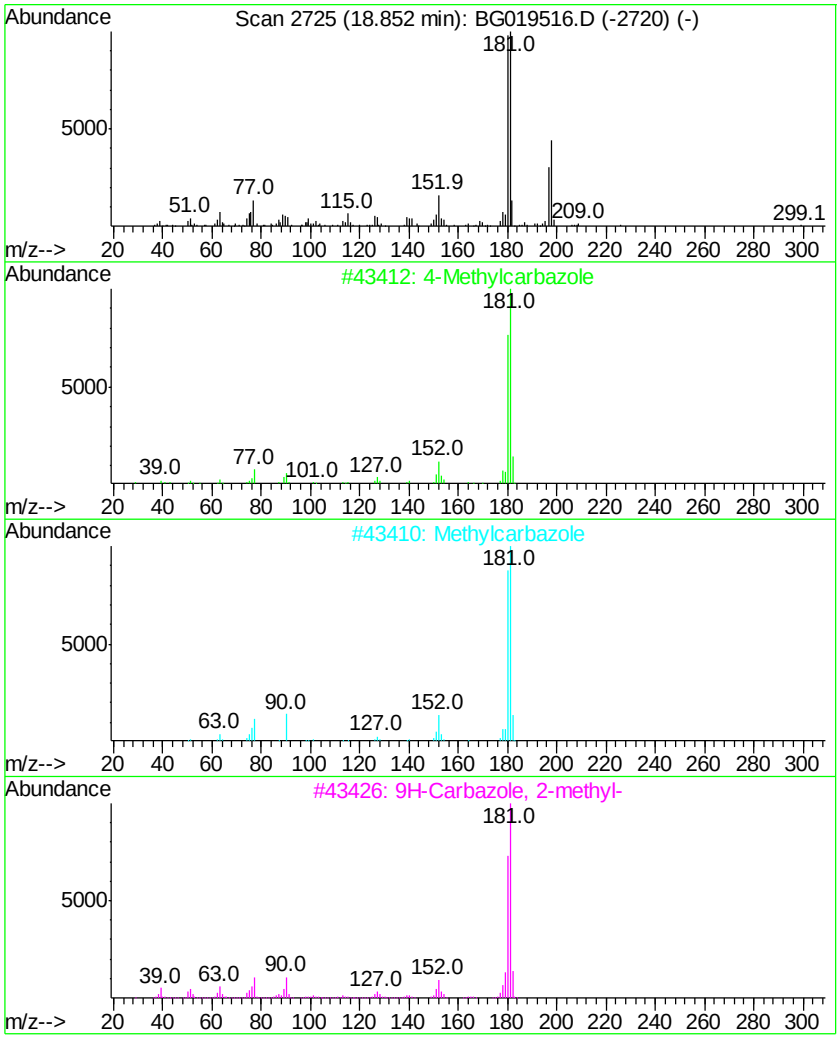
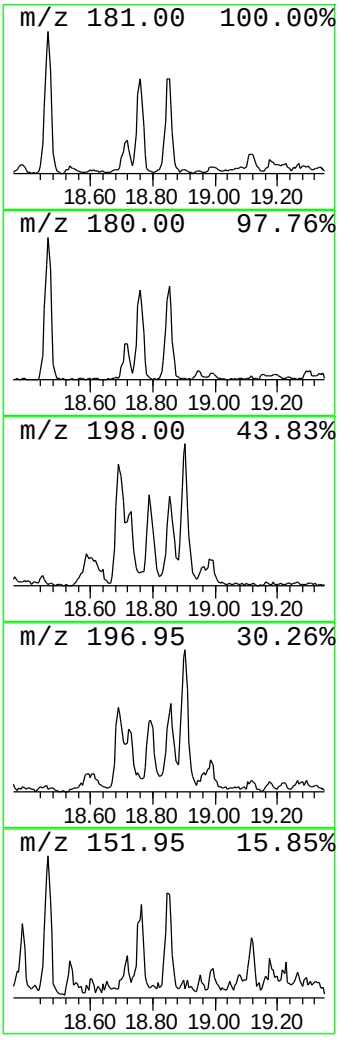
Peak Number 24 4-Methylcarbazole Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	4.93 ng/ul	234529	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylcarbazole	181	C13H11N	003770-48-7	86
2	Methylcarbazole	181	C13H11N	027323-29-1	86
3	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	86
4	1-Methylcarbazole	181	C13H11N	006510-65-2	86
5	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	70





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Sample : G4245-14
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Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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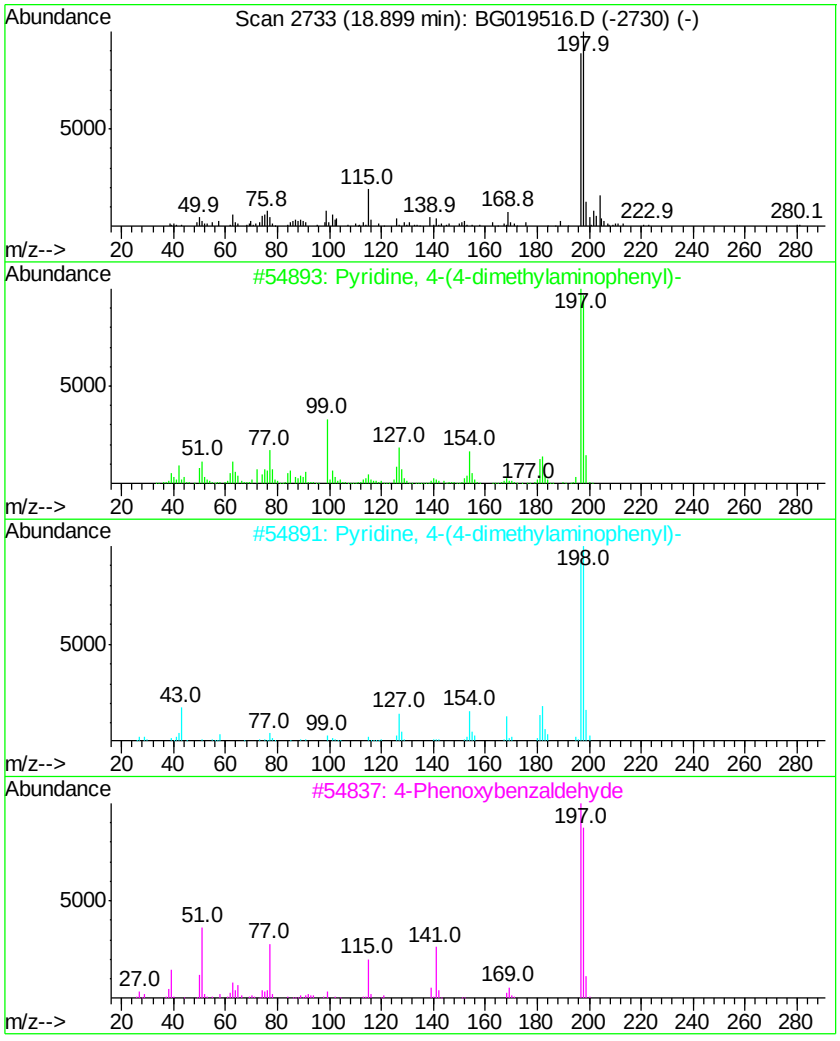
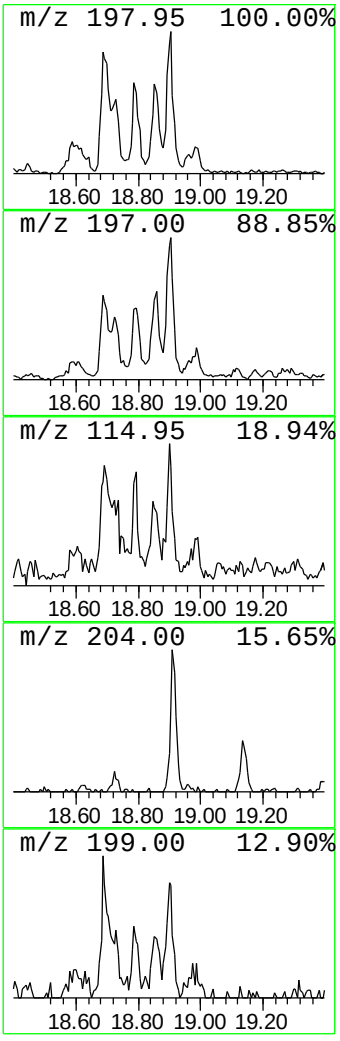
Peak Number 25 Pyridine, 4-(4-dimethylamin... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	2.95 ng/ul	140550	Phenanthrene-d10	17.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	64
2	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	59
3	4-Phenoxybenzaldehyde	198	C13H10O2	000067-36-7	59
4	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	59
5	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	45





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

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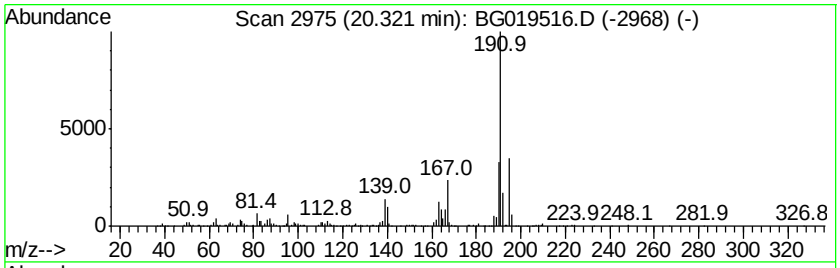
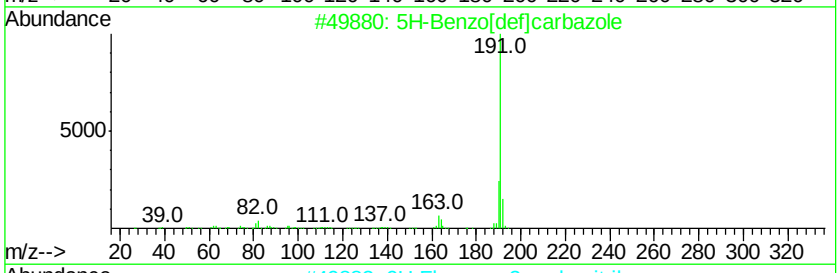
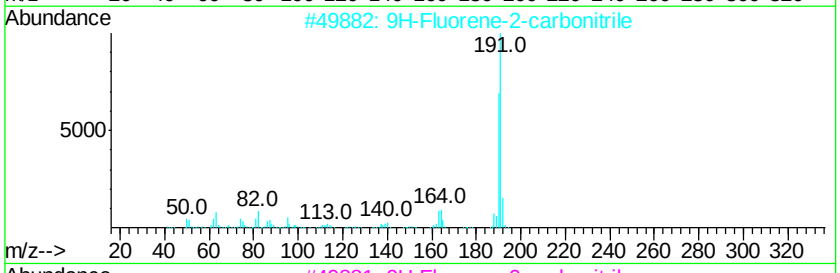
Peak Number 26 5H-Benzo[def]carbazole Concentration Rank 6

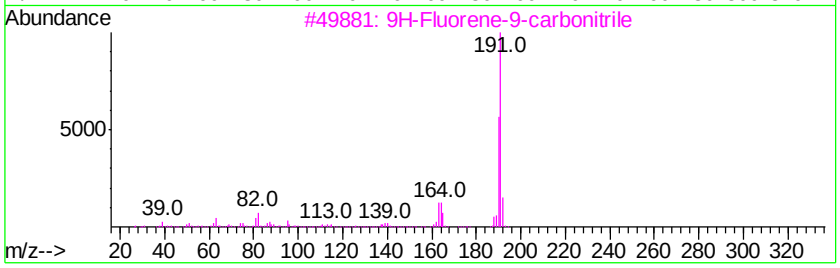
R.T.	EstConc	Area	Relative to ISTD	R.T.
20.32	7.18 ng/ul	478005	Chrysene-d12	21.83

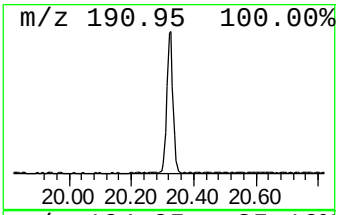
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Benzo[def]carbazole	191	C14H9N	000203-65-6	64
2	9H-Fluorene-2-carbonitrile	191	C14H9N	002523-48-0	55
3	9H-Fluorene-9-carbonitrile	191	C14H9N	001529-40-4	55
4	1,2,3,6-Tetrahydropyridine, 4-[4...	191	C11H13NO2	090684-17-6	47
5	9-(Chloromethyl)anthracene	226	C15H11Cl	024463-19-2	28

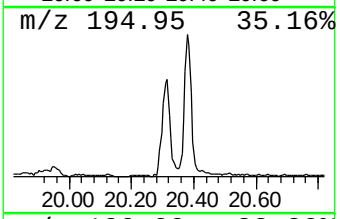


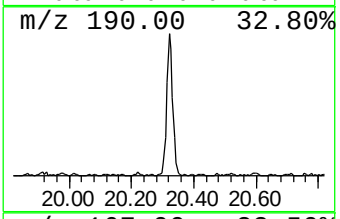


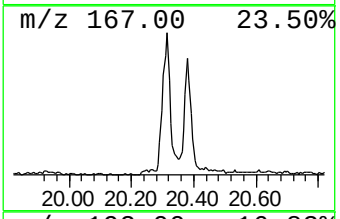


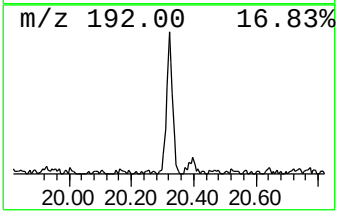












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Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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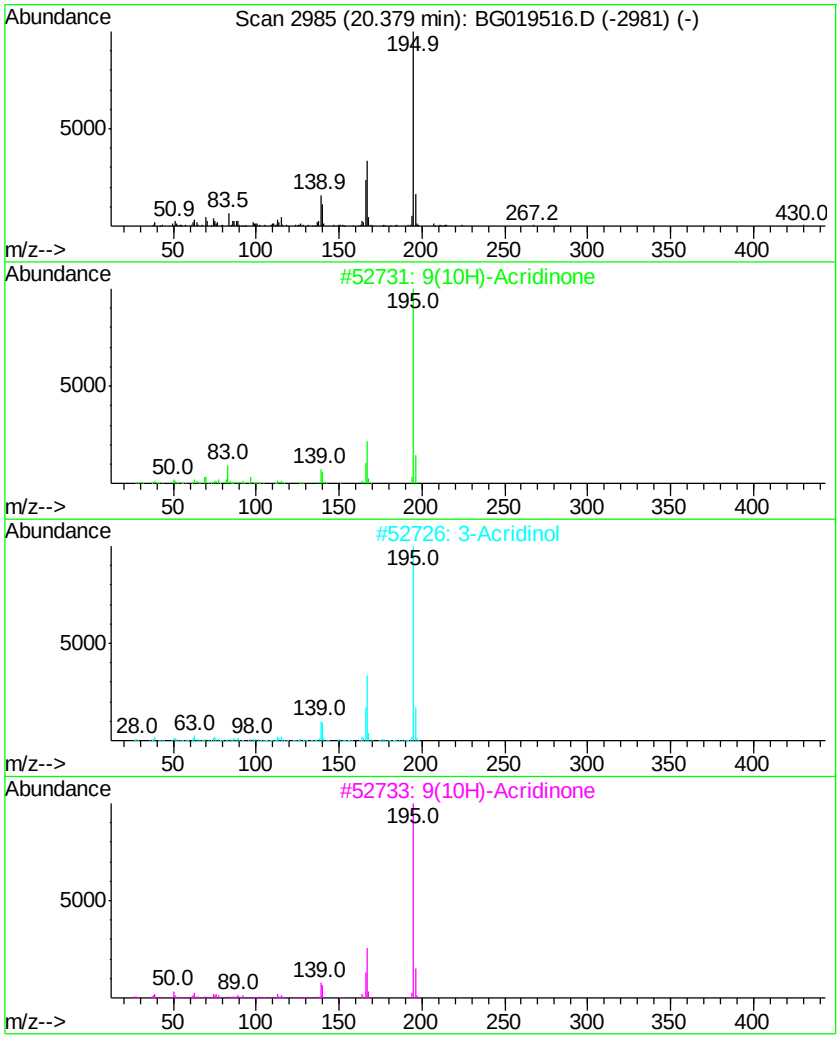
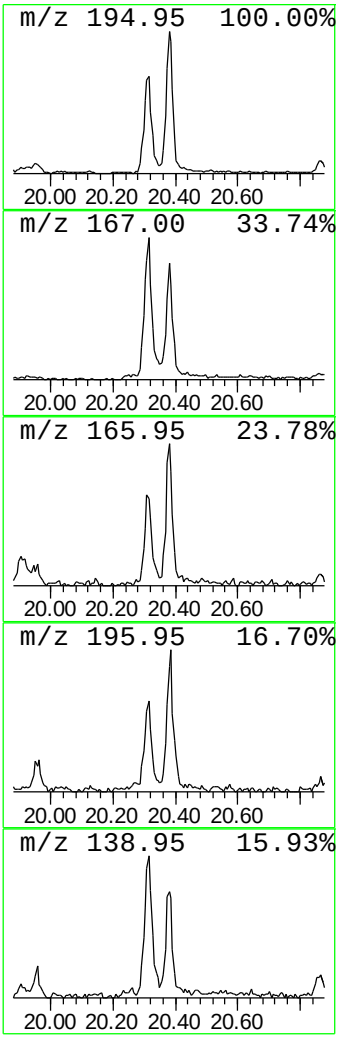
Peak Number 27 9(10H)-Acridinone Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.38	3.42 ng/ul	227656	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9(10H)-Acridinone	195	C13H9NO	000578-95-0	95
2	3-Acridinol	195	C13H9NO	007132-70-9	94
3	9(10H)-Acridinone	195	C13H9NO	000578-95-0	94
4	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	93
5	4-Amino-9-fluorenone	195	C13H9NO	004269-15-2	91





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ClientSampleId : BCY48

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Quant Title : SVOA CALIBRATION

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

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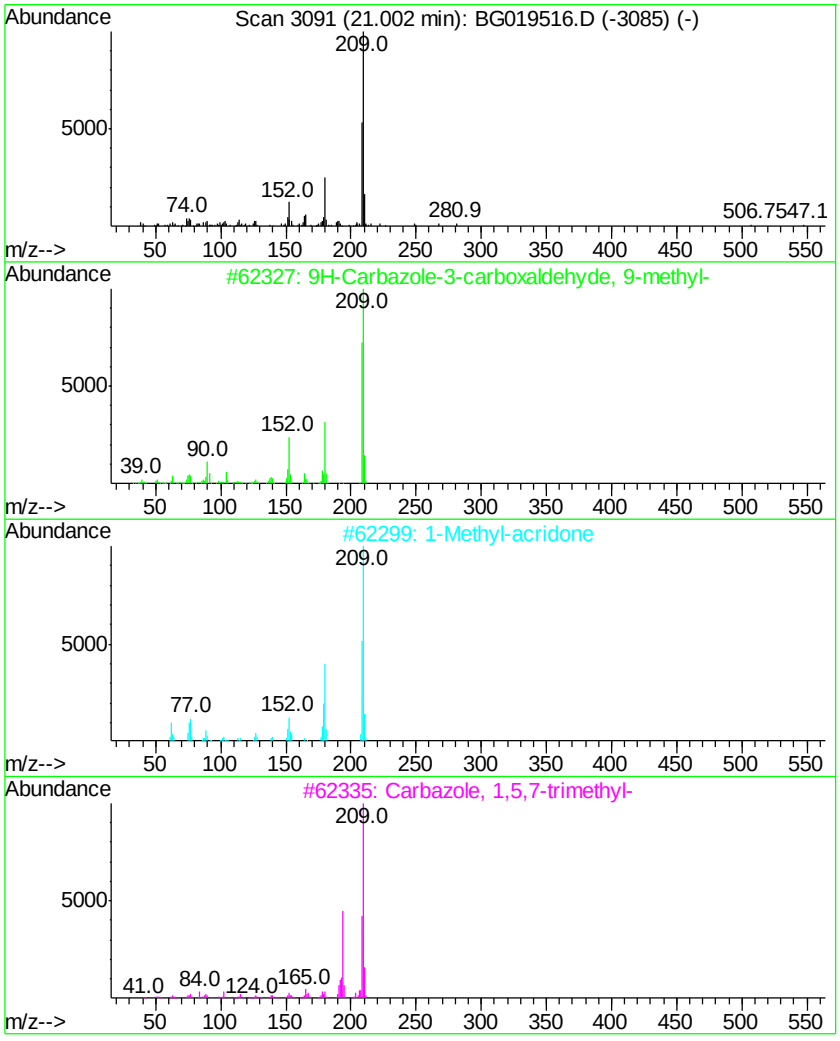
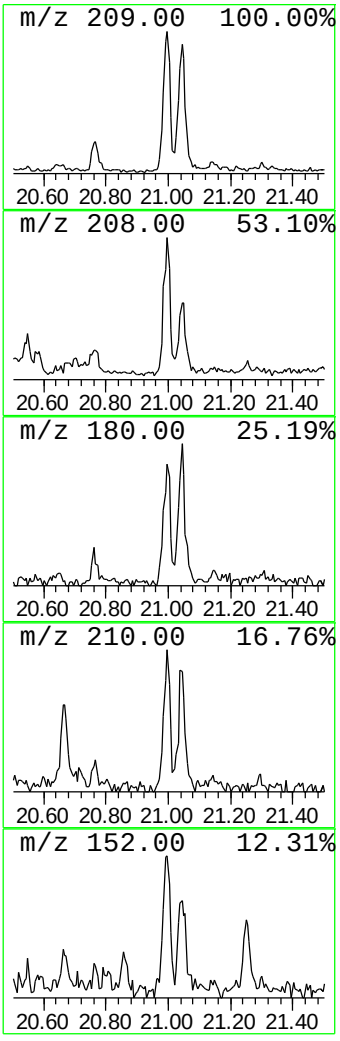
Peak Number 28 9H-Carbazole-3-carboxaldehy... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.00	2.28 ng/ul	151686	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Carbazole-3-carboxaldehyde, 9...	209	C14H11NO	021240-56-2	90
2	1-Methyl-acridone	209	C14H11NO	065753-71-1	64
3	Carbazole, 1,5,7-trimethyl-	209	C15H15N	078787-84-5	59
4	Indeno[2,1-c]pyridine, 1,4,6-tri...	209	C15H15N	062736-77-0	58
5	3-(N-Methylamino)-9-methylcarbazole	210	C14H14N2	005416-98-8	58





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Quant Title : SVOA CALIBRATION

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

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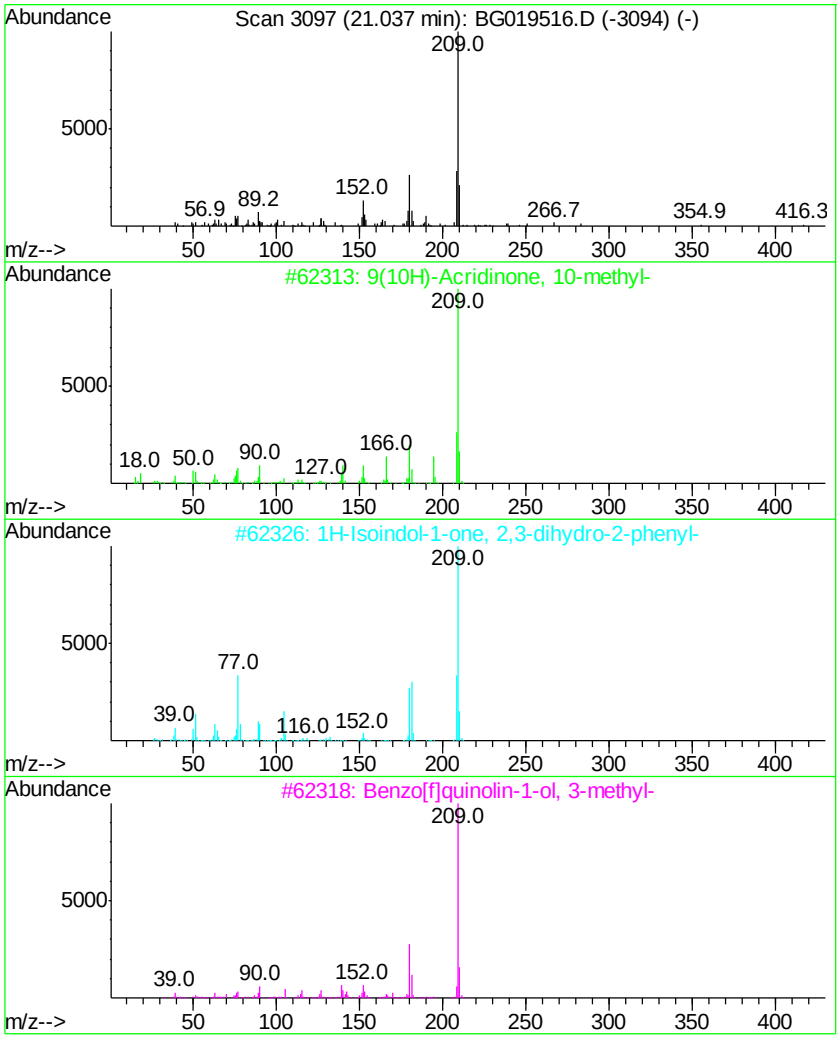
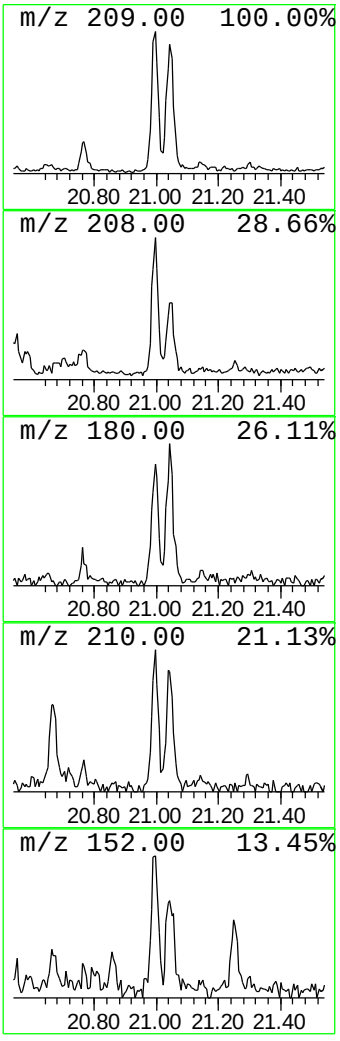
Peak Number 29 9(10H)-Acridinone, 10-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.04	2.43 ng/ul	161687	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9(10H)-Acridinone, 10-methyl-	209	C14H11NO	000719-54-0	83
2	1H-Isoindol-1-one, 2,3-dihydro-2...	209	C14H11NO	005388-42-1	80
3	Benzo[f]quinolin-1-ol, 3-methyl-	209	C14H11NO	001210-03-3	72
4	9(10H)-Acridinone, 10-methyl-	209	C14H11NO	000719-54-0	72
5	4-Methyl-acridone	209	C14H11NO	068506-36-5	72





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Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

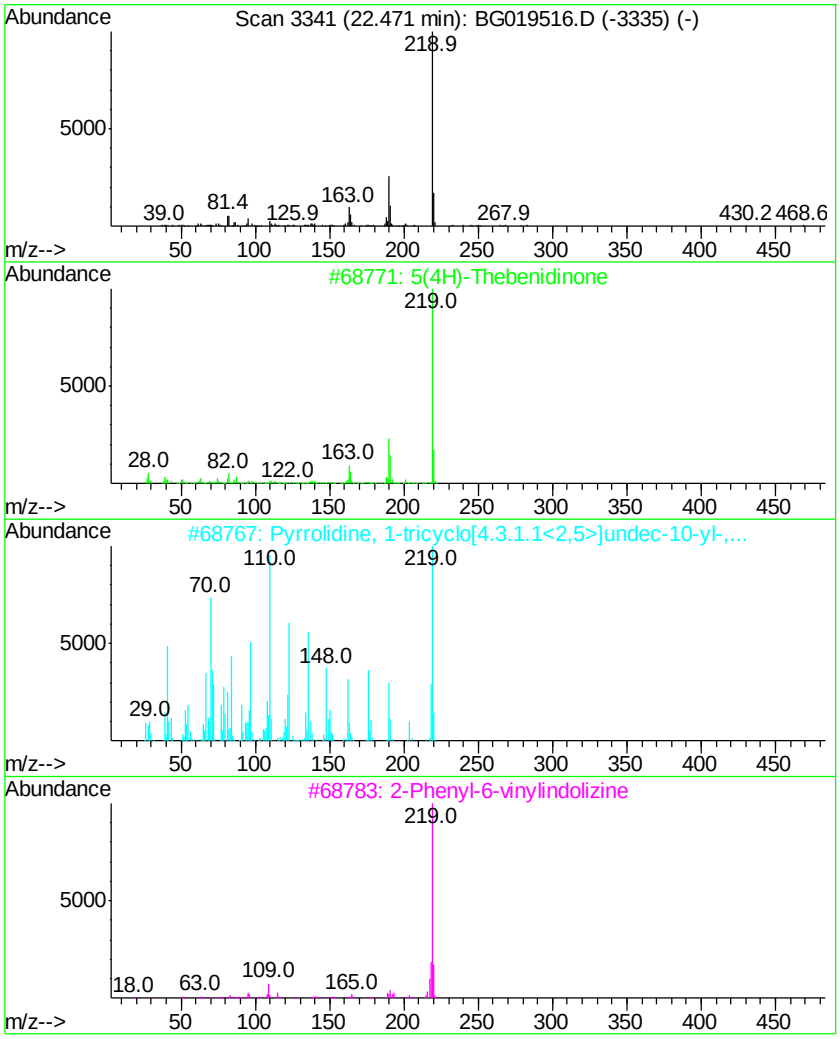
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

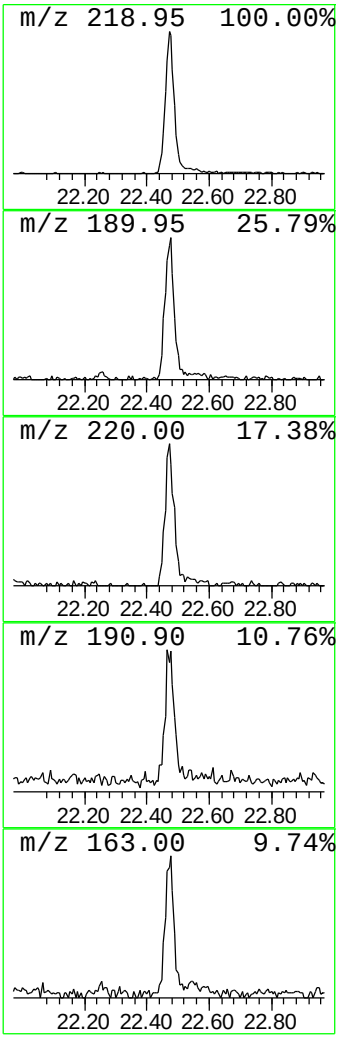
****

Peak Number 30 5(4H)-Thebenidinone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.47	4.28 ng/ul	285140	Chrysene-d12	21.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5(4H)-Thebenidinone	219	C15H9NO	064884-40-8	91
2	Pyrrolidine, 1-tricyclo[4.3.1.1<...	219	C15H25N	085538-51-8	60
3	2-Phenyl-6-vinylindolizine	219	C16H13N	077652-49-4	50
4	11H-Pyrido[3',2'-4,5]pyrrolo[3,2...	219	C14H9N3	1000212-49-8	50
5	1(2H)-Phthalazinone, 4-[(3-hydro...	219	C11H13N3O2	053442-56-1	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG110615\
Data File : BG019516.D
Acq On : 6 Nov 2015 17:35
Operator : UM/NP
Sample : G4245-14
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BCY48

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102815.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	3.21	25.2	ng/ul	332279	1	8.18	263928	20.0
Indane	8.56	17.1	ng/ul	226259	1	8.18	263928	20.0
Benzofuran, 2-met...	9.54	6.0	ng/ul	79213	1	8.18	263928	20.0
Benzofuran, 4,7-d...	11.18	4.0	ng/ul	77807	2	11.01	385650	20.0
Cinnoline, 1,2-di...	11.42	2.8	ng/ul	54057	2	11.01	385650	20.0
Benzo[b]thiophene...	12.11	6.1	ng/ul	117620	2	11.01	385650	20.0
Benzo[b]thiophene...	12.55	6.1	ng/ul	117045	2	11.01	385650	20.0
Benzo[b]thiophene...	12.84	2.5	ng/ul	48337	2	11.01	385650	20.0
1-Isopropenylnaph...	15.11	2.4	ng/ul	75128	3	14.81	635639	20.0
Naphthalene, 1-is...	15.51	2.1	ng/ul	66930	3	14.81	635639	20.0
1,1'-Biphenyl, 4-...	16.10	2.4	ng/ul	75312	3	14.81	635639	20.0
[1,1'-Biphenyl]-4...	16.14	6.5	ng/ul	206637	3	14.81	635639	20.0
9H-Fluoren-9-ol	16.28	7.2	ng/ul	344630	4	17.55	951948	20.0
1(2H)-Acenaphthyl...	16.53	8.1	ng/ul	385358	4	17.55	951948	20.0
Anthracene, 9,10-...	16.64	2.4	ng/ul	112402	4	17.55	951948	20.0
Naphtho[2,3-b]thi...	17.37	4.0	ng/ul	190075	4	17.55	951948	20.0
3,4-Methylenediox...	17.42	4.0	ng/ul	190269	4	17.55	951948	20.0
4,6,8-Trimethyl-1...	18.18	3.5	ng/ul	164278	4	17.55	951948	20.0
Methylcarbazole	18.46	6.2	ng/ul	293894	4	17.55	951948	20.0
4H-Cyclopenta[def...	18.62	7.1	ng/ul	337575	4	17.55	951948	20.0
2-Benzyl-[1,4]ben...	18.70	2.1	ng/ul	101630	4	17.55	951948	20.0
4-Methylcarbazole	18.85	4.9	ng/ul	234529	4	17.55	951948	20.0
Pyridine, 4-(4-di...	18.90	3.0	ng/ul	140550	4	17.55	951948	20.0
5H-Benzo[def]carb...	20.32	7.2	ng/ul	478005	5	21.83	1331190	20.0
9(10H)-Acridinone	20.38	3.4	ng/ul	227656	5	21.83	1331190	20.0
9H-Carbazole-3-ca...	21.00	2.3	ng/ul	151686	5	21.83	1331190	20.0
9(10H)-Acridinone...	21.04	2.4	ng/ul	161687	5	21.83	1331190	20.0
5(4H)-Thebenidinone	22.47	4.3	ng/ul	285140	5	21.83	1331190	20.0