LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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-BG121415.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	8.638	980	987	995	rVB	238011	414580	1.58%	0.237%
2	8.802	1008	1015	1026	rBV	121168	219702	0.84%	0.126%
3	10.541	1304	1311	1320	rVB	148293	283870	1.08%	0.162%
4	11.000	1377	1389	1394	rVV	4024628	9682453	36.99%	5.540%
5	11.094	1401	1405	1413	rVB	209860	345881	1.32%	0.198%
6	11.752	1508	1517	1524	rBV	892928	1605669	6.13%	0.919%
7	12.580	1646	1658	1668	rBV	3051941	5767567	22.03%	3.300%
8	12.680	1668	1675	1682	rBV	156130	276116	1.05%	0.158%
9	12.792	1682	1694	1704	rVV	1721959	3157581	12.06%	1.807%
10	13.273	1768	1776	1783	rVV	409884	712541	2.72%	0.408%
11	13.356	1783	1790	1797	rVB	164951	265233	1.01%	0.152%
12	13.503	1809	1815	1819	rBV2	135355	217124	0.83%	0.124%
13	13.567	1819	1826	1834	rVV	1514375	2378359	9.09%	1.361%
14	13.761	1853	1859	1870	rVB	472366	894777	3.42%	0.512%
15	13.908	1870	1884	1891	rBV	540945	1503758	5.74%	0.860%
16	14.055	1899	1909	1913	rBV	747588	1449263	5.54%	0.829%
17	14.108	1913	1918	1921	rVV	532766	874259	3.34%	0.500%
18	14.137	1921	1923	1927	rVB2	254416	277944	1.06%	0.159%
19	14.290	1944	1949	1952	rBV	298799	460544	1.76%	0.263%
20	14.454	1965	1977	1982	rBV3	573321	1514999	5.79%	0.867%
21	14.713	2015	2021	2029	rVV2	546202	1150869	4.40%	0.658%
22	14.825	2029	2040	2044	rVV	5216014	10968272	41.90%	6.275%
23	14.866	2044	2047	2052	rVV	241434	374811	1.43%	0.214%
24	14.930	2052	2058	2067	rVV2	227154	540638	2.07%	0.309%
25	15.036	2072	2076	2081	rVV2	293269	525361	2.01%	0.301%
26	15.148	2086	2095	2100	rVV	3760423	7311986	27.93%	4.183%
27	15.201	2100	2104	2114	rVB2	195980	352762	1.35%	0.202%
28	15.336	2119	2127	2133	rBV3	155929	312140	1.19%	0.179%
29	15.394	2133	2137	2142	rBV2	144095	211065	0.81%	0.121%
30	15.512	2149	2157	2160	rBV3	128927	270384	1.03%	0.155%
31	15.723	2184	2193	2197	rVV3	292926	613076	2.34%	0.351%
32	15.800	2197	2206	2212	rVB	4600276	9438534	36.06%	5.400%
33	15.876	2212	2219	2221	rBV	274033	463631	1.77%	0.265%
34	15.906	2221	2224	2227	rVV	376603	558396	2.13%	0.319%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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-BG121415.M
Title : SVOA CALIBRATION

35	15.941	2227	2230	2235	rVB3	697374	1001474	3.83%	0.573%
36	16.029	2241	2245	2248	rVV	311881	408462	1.56%	0.234%
37	16.070	2248	2252	2259	rVB	850933	1285305	4.91%	0.735%
38	16.217	2268	2277	2284	rBV	860308	1858764	7.10%	1.063%
39	16.282	2284	2288	2290	rBV	198693	270102	1.03%	0.155%
40	16.564	2332	2336	2342	rVV	334769	480976	1.84%	0.275%
41	16.775	2360	2372	2377	rBV2	612185	1477029	5.64%	0.845%
42	16.828	2377	2381	2386	rVV3	256407	460091	1.76%	0.263%
43	16.922	2392	2397	2402	rVB2	248654	435278	1.66%	0.249%
44	16.998	2408	2410	2413	rVV	194587	267932	1.02%	0.153%
45	17.040	2413	2417	2421	rVV2	234324	404086	1.54%	0.231%
46	17.134	2429	2433	2439	rVB5	113148	235716	0.90%	0.135%
47	17.204	2439	2445	2453	rBV3	249279	677775	2.59%	0.388%
48	17.298	2454	2461	2471	rVB	1509857	2414421	9.22%	1.381%
49	17.574	2485	2508	2511	rBV	8348256	26176466	100.00%	14.976%
50	17.604	2511	2513	2515	rVV	1187390	1400977	5.35%	0.802%
51	17.633	2515	2518	2523	rVV	2297776	3261641	12.46%	1.866%
52	17.674	2523	2525	2534	rVB2	214435	324091	1.24%	0.185%
53	17.886	2549	2561	2568	rBV2	1565363	3692335	14.11%	2.113%
54	17.991	2574	2579	2587	rBV3	297949	504463	1.93%	0.289%
55	18.056	2587	2590	2597	rVB3	118043	213068	0.81%	0.122%
56	18.197	2609	2614	2622	rVB	129495	286957	1.10%	0.164%
57	18.350	2630	2640	2644	rBV	1142081	1907914	7.29%	1.092%
58	18.403	2644	2649	2655	rVB2	1558243	2424104	9.26%	1.387%
59	18.485	2655	2663	2668	rBV	518641	951799	3.64%	0.545%
60	18.555	2668	2675	2684	rBV2	2144042	4610363	17.61%	2.638%
61	18.644	2684	2690	2694	rVV3	133114	210291	0.80%	0.120%
62	18.691	2694	2698	2702	rVV2	174469	234971	0.90%	0.134%
63	18.843	2719	2724	2729	rVV	1006212	1380959	5.28%	0.790%
64	18.890	2729	2732	2740	rVV2	146358	229434	0.88%	0.131%
65	19.084	2756	2765	2769	rBV3	182463	299721	1.15%	0.171%
66	19.255	2788	2794	2799	rBV	261726	524858	2.01%	0.300%
67	19.554	2833	2845	2849	rBV	6130568	13335400	50.94%	7.630%
68	19.619	2852	2856	2861	rVB2	212971	300657	1.15%	0.172%
69	19.766	2875	2881	2886	rVB2	306687	536858	2.05%	0.307%
70	19.913	2891	2906	2910	rVV3	4626932	12757083	48.73%	7.299%
71	19.948	2910	2912	2920	rVB2	311669	435985	1.67%	0.249%

LSC Area Percent Report

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Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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-BG121415.M
Title : SVOA CALIBRATION

72	20.060	2926	2931	2936	rVB	412949	560272	2.14%	0.321%
73	20.124	2936	2942	2948	rVB	343073	537235	2.05%	0.307%
74	20.201	2948	2955	2961	rBV2	327781	873995	3.34%	0.500%
75	20.259	2961	2965	2970	rVB	269439	355387	1.36%	0.203%
76	20.330	2971	2977	2980	rBV2	305163	593176	2.27%	0.339%
77	20.377	2980	2985	2989	rVB	1075595	1594970	6.09%	0.913%
78	20.471	2995	3001	3005	rBV	1227907	1864670	7.12%	1.067%
79	20.530	3005	3011	3014	rVV3	362768	743467	2.84%	0.425%
80	20.565	3014	3017	3021	rVV	226934	316489	1.21%	0.181%
81	20.671	3030	3035	3038	rBV	189195	264876	1.01%	0.152%
82	20.712	3038	3042	3045	rVV2	206666	324245	1.24%	0.186%
83	20.747	3045	3048	3053	rVB	191899	228409	0.87%	0.131%
84	21.082	3101	3105	3111	rBV	116523	234637	0.90%	0.134%
85	21.323	3140	3146	3149	rBV	325516	527016	2.01%	0.302%
86	21.364	3149	3153	3157	rVV	363940	528920	2.02%	0.303%
87	21.417	3157	3162	3166	rVV2	263200	440841	1.68%	0.252%
88	21.734	3205	3216	3222	rVV3	1730182	3758231	14.36%	2.150%
89	21.805	3223	3228	3239	rVB	1282672	2223755	8.50%	1.272%
90	21.951	3247	3253	3261	rBV	342173	564341	2.16%	0.323%
91	22.157	3282	3288	3296	rVV2	207957	412704	1.58%	0.236%
92	22.480	3336	3343	3349	rVV	111979	275801	1.05%	0.158%
93	22.809	3395	3399	3407	rVB4	116216	243861	0.93%	0.140%
94	23.984	3589	3599	3606	rBV	356670	1259942	4.81%	0.721%
95	24.713	3715	3723	3730	rBV	159898	458900	1.75%	0.263%
96	24.795	3730	3737	3743	rVV	242626	681565	2.60%	0.390%
97	24.872	3743	3750	3764	rVV2	255671	771751	2.95%	0.442%
98	25.018	3765	3775	3782	rVV3	187854	582319	2.22%	0.333%
99	25.095	3783	3788	3799	rVB2	69772	206995	0.79%	0.118%
100	28.732	4396	4407	4428	rVB4	53505	283572	1.08%	0.162%

Sum of corrected areas: 174784293

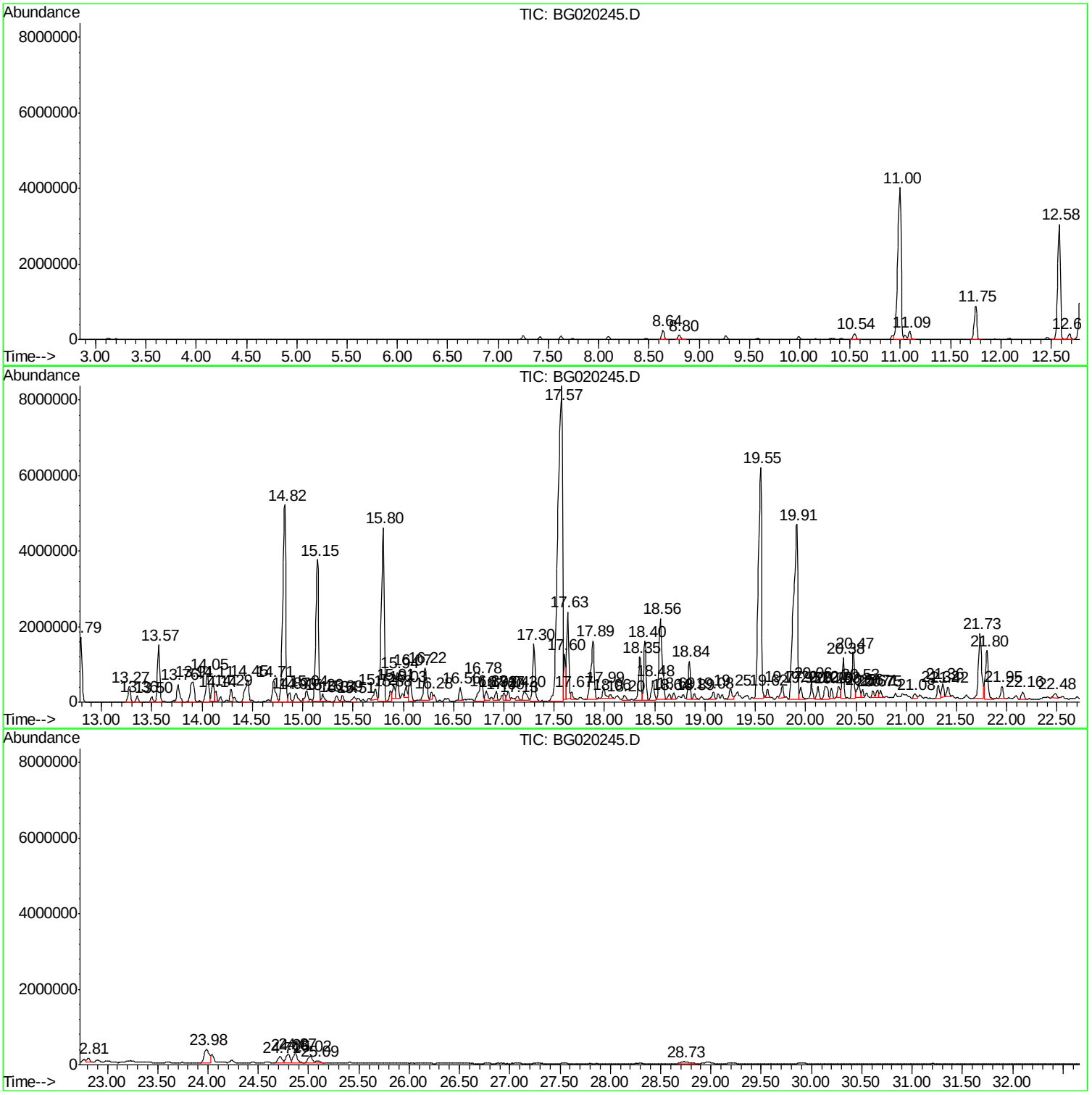
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

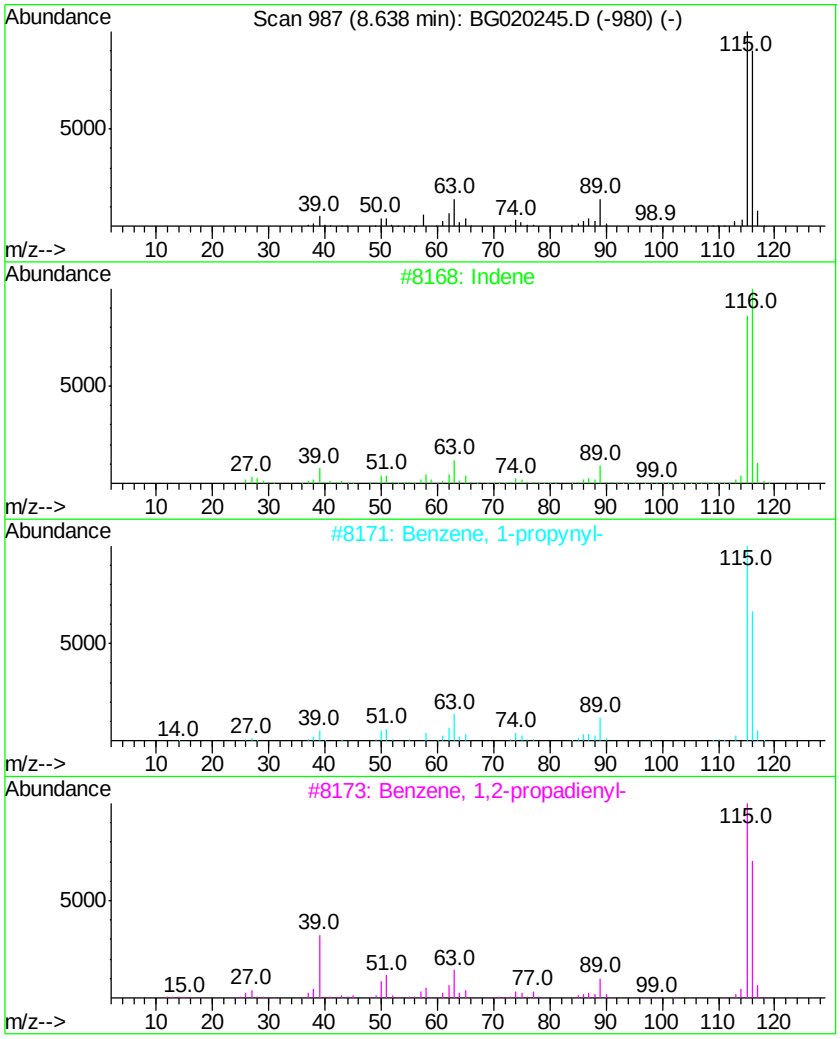
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

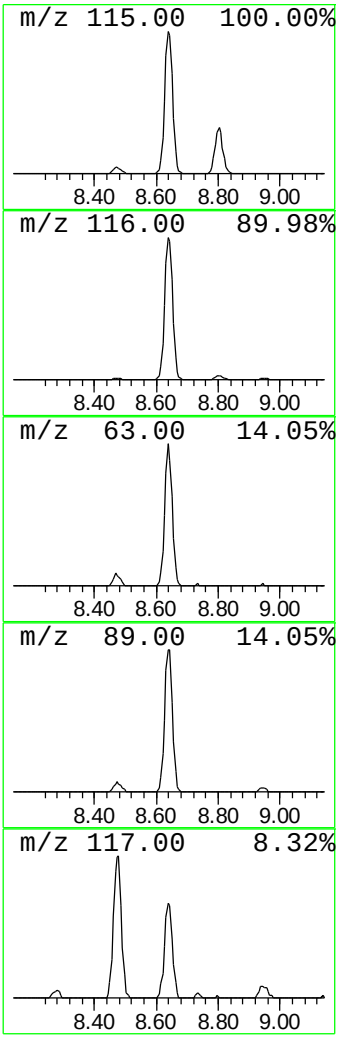
****

Peak Number 1 Indene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.64	20.00 ng/ul	414580	1,4-Dichlorobenzene-d4	8.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	95
2	Benzene, 1-propynyl-	116	C9H8	000673-32-5	94
3	Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	91
4	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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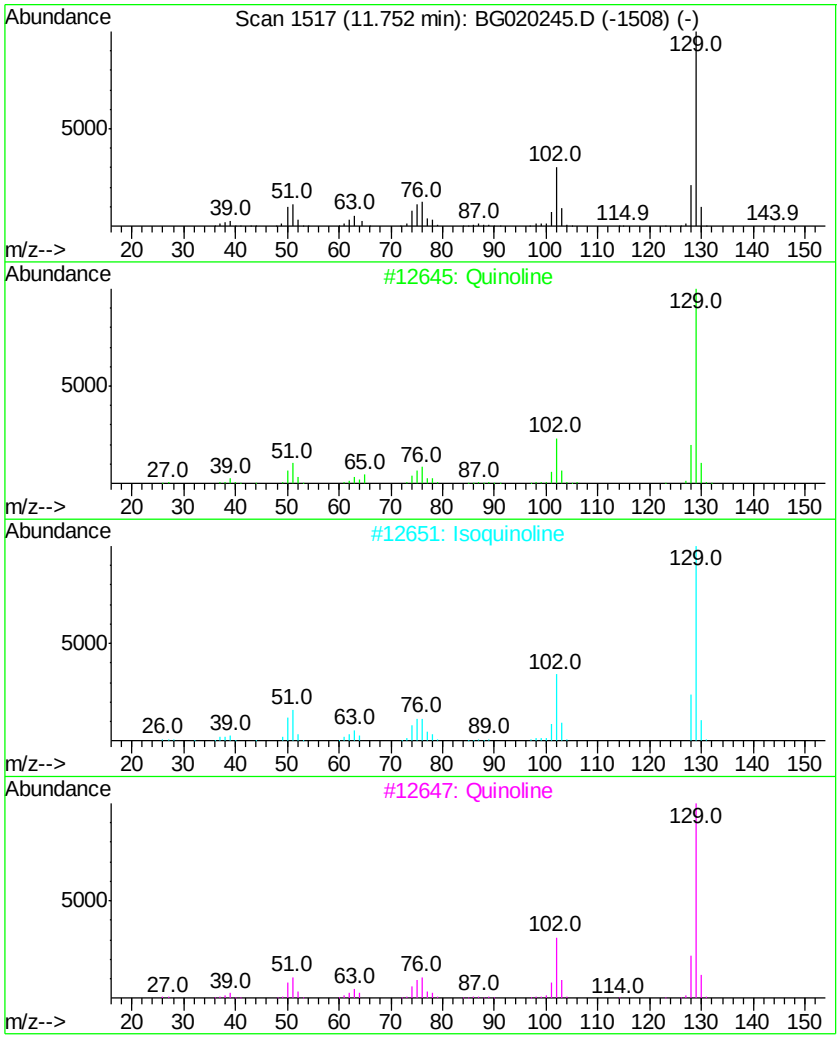
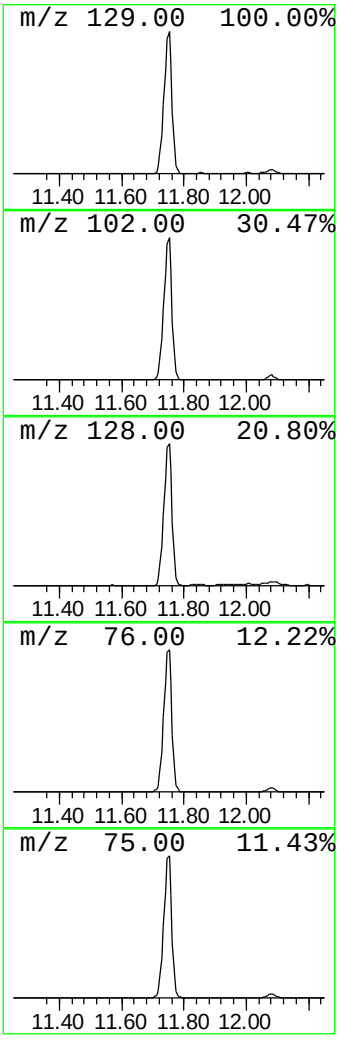
Peak Number 2 Quinoline Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	3.32 ng/ul	1605670	Naphthalene-d8	10.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline	129	C9H7N	000091-22-5	97
2	Isoquinoline	129	C9H7N	000119-65-3	96
3	Quinoline	129	C9H7N	000091-22-5	96
4	Quinoline	129	C9H7N	000091-22-5	96
5	Isoquinoline	129	C9H7N	000119-65-3	95





Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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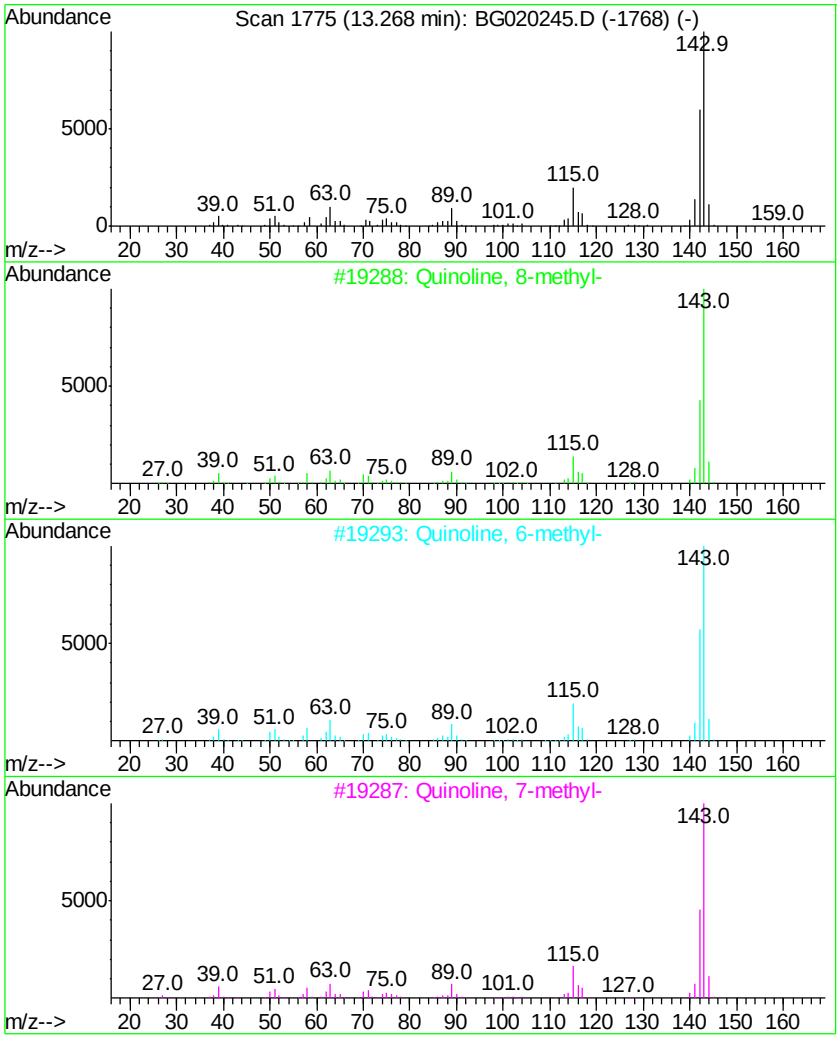
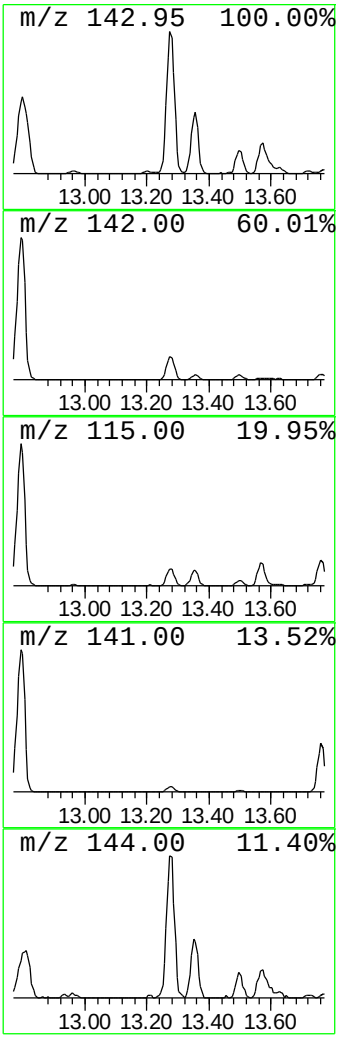
Peak Number 3 Quinoline, 8-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.27	12.38 ng/ul	712541	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 8-methyl-	143	C10H9N	000611-32-5	97
2	Quinoline, 6-methyl-	143	C10H9N	000091-62-3	96
3	Quinoline, 7-methyl-	143	C10H9N	000612-60-2	96
4	Quinoline, 5-methyl-	143	C10H9N	007661-55-4	96
5	Quinoline, 8-methyl-	143	C10H9N	000611-32-5	96





Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

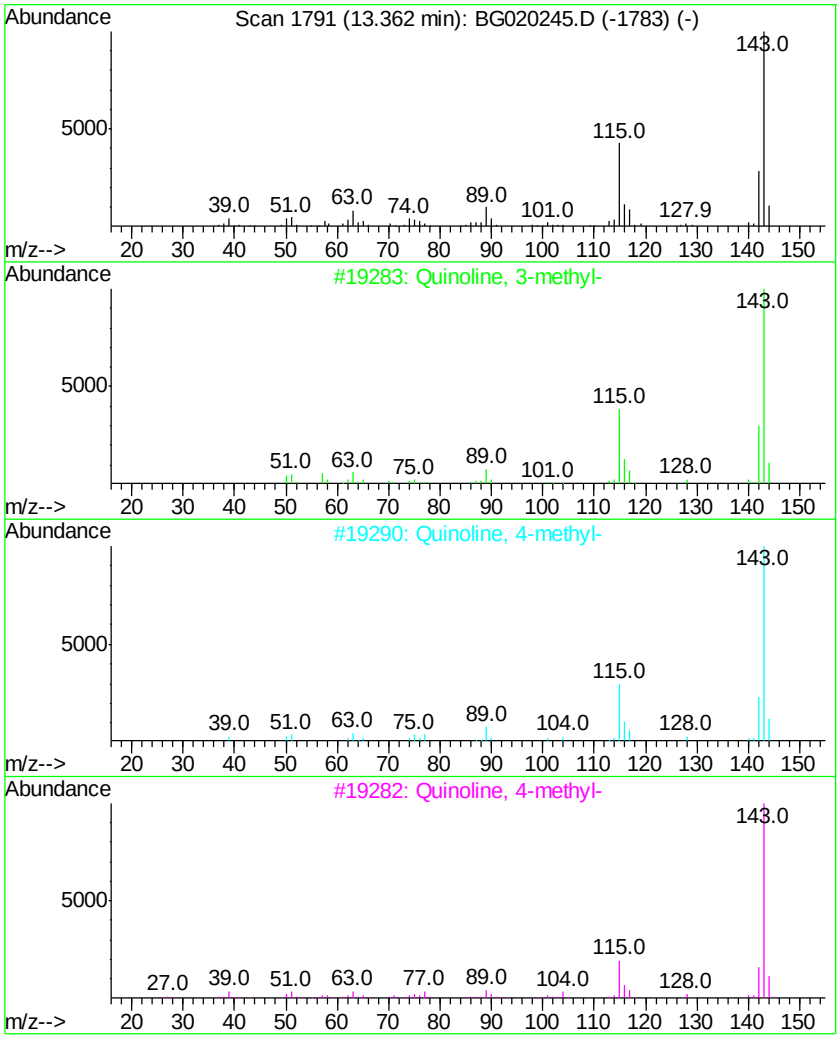
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

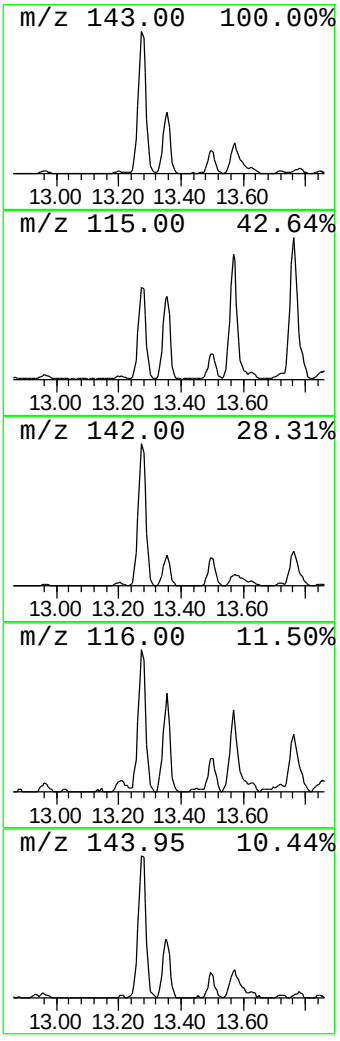
****

Peak Number 4 Quinoline, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.36	4.61 ng/ul	265233	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 3-methyl-	143	C10H9N	000612-58-8	97
2	Quinoline, 4-methyl-	143	C10H9N	000491-35-0	91
3	Quinoline, 4-methyl-	143	C10H9N	000491-35-0	90
4	2-Naphthalenamine	143	C10H9N	000091-59-8	87
5	Isoquinoline, 1-methyl-	143	C10H9N	001721-93-3	86





Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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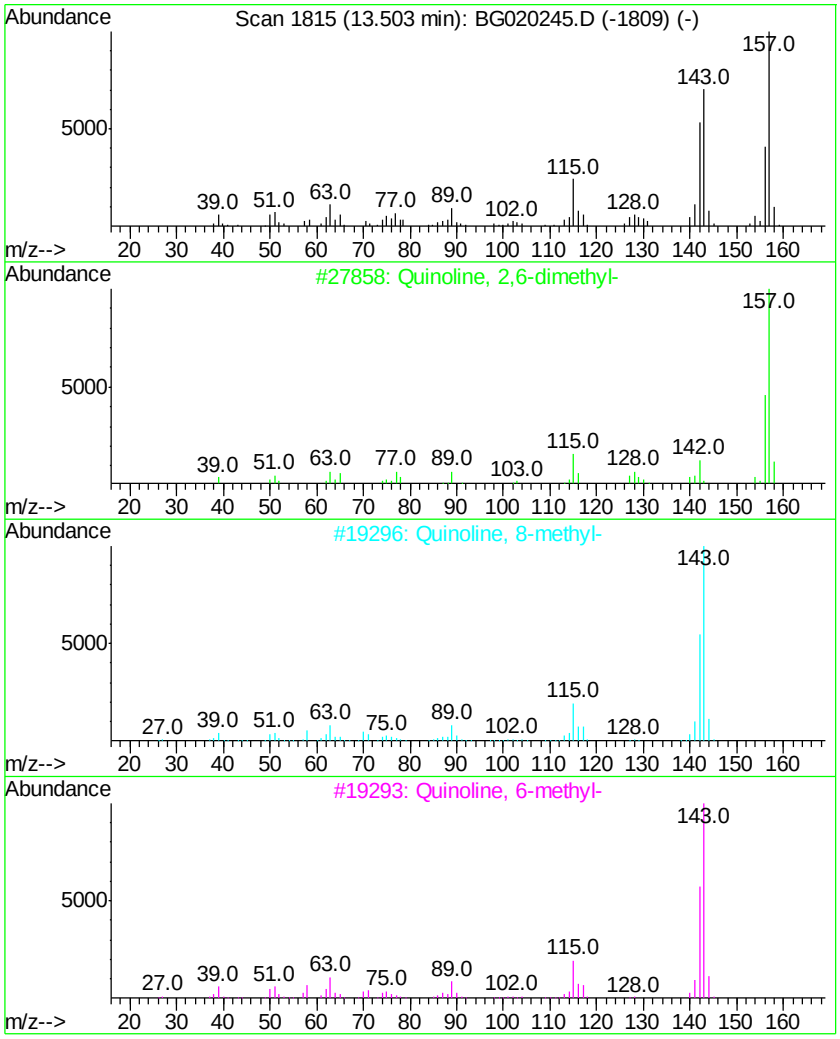
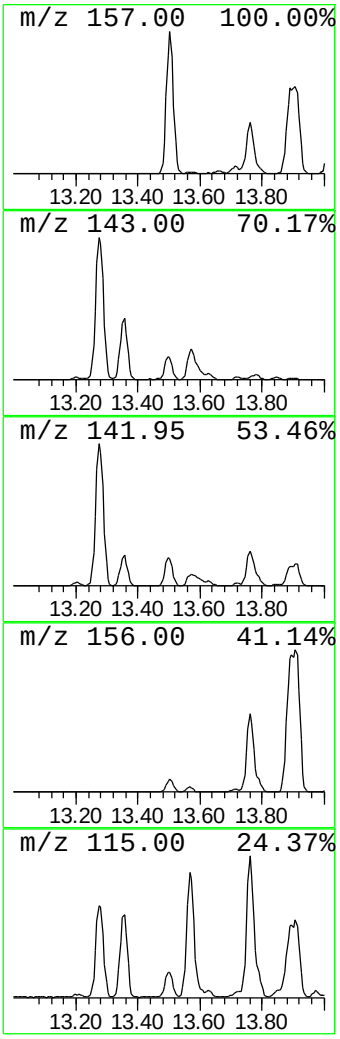
Peak Number 5 Quinoline, 2,6-dimethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.50	3.77 ng/ul	217124	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 2,6-dimethyl-	157	C11H11N	000877-43-0	91
2	Quinoline, 8-methyl-	143	C10H9N	000611-32-5	86
3	Quinoline, 6-methyl-	143	C10H9N	000091-62-3	83
4	Quinoline, 7-methyl-	143	C10H9N	000612-60-2	83
5	Quinoline, 5-methyl-	143	C10H9N	007661-55-4	70





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Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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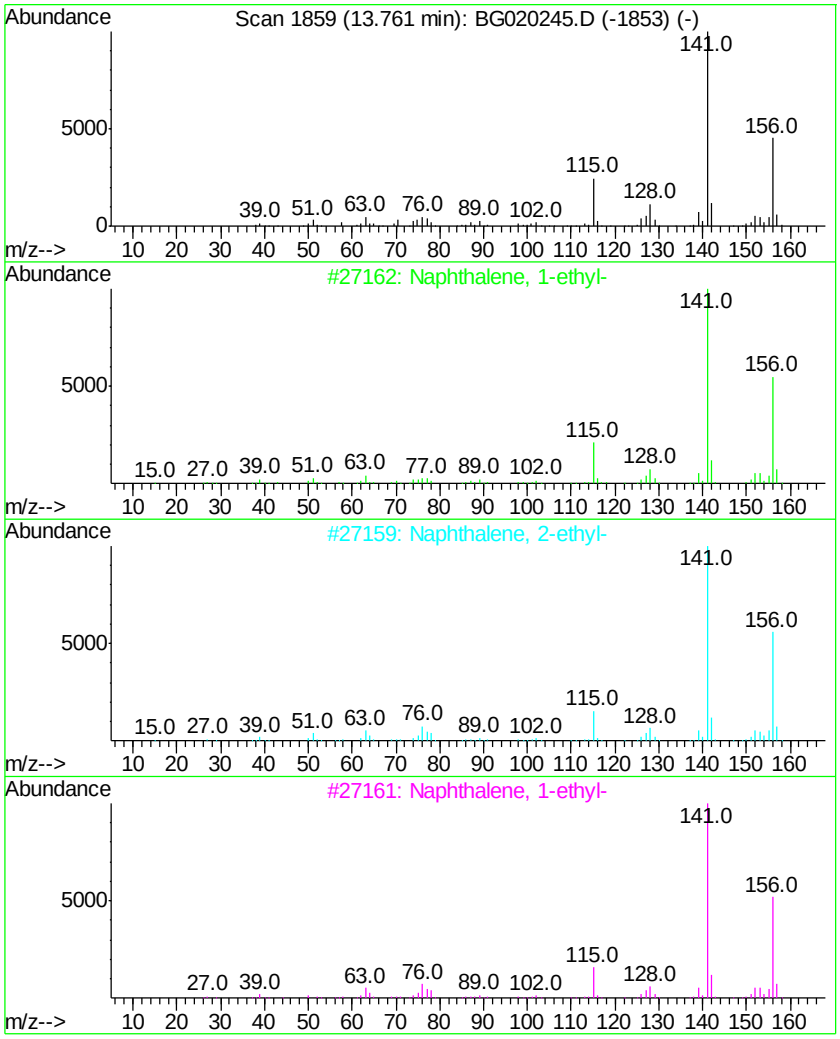
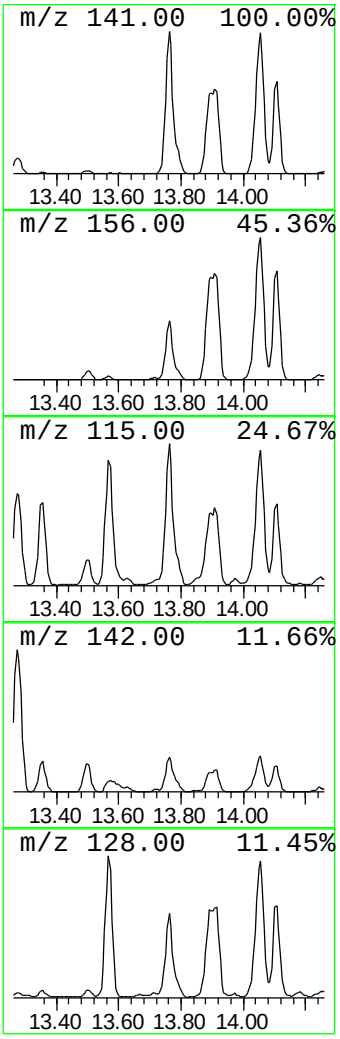
Peak Number 6 Naphthalene, 1-ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.76	15.55 ng/ul	894777	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	97
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	94
3	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	94
4	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	93
5	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	93





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Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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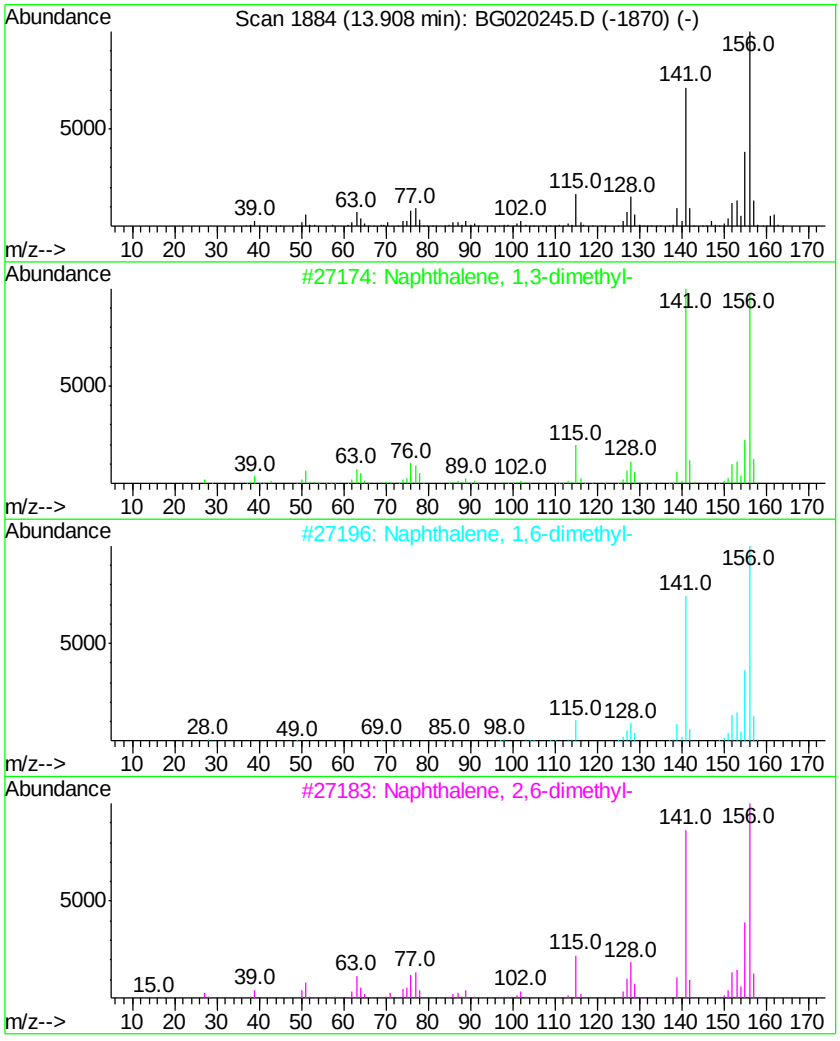
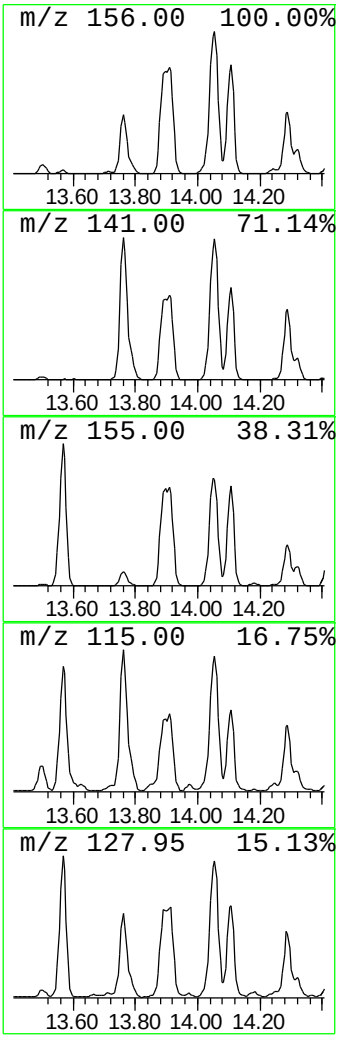
Peak Number 7 Naphthalene, 1,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.91	26.13 ng/ul	1503760	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96





Library Search Compound Report

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Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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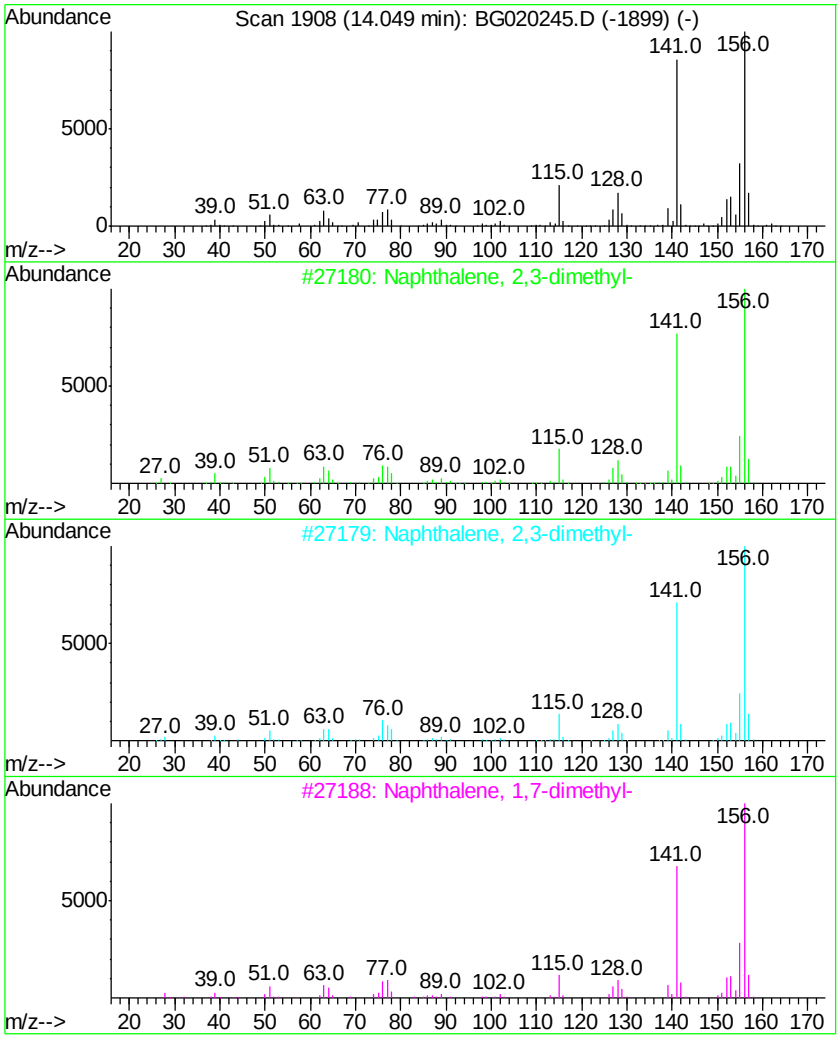
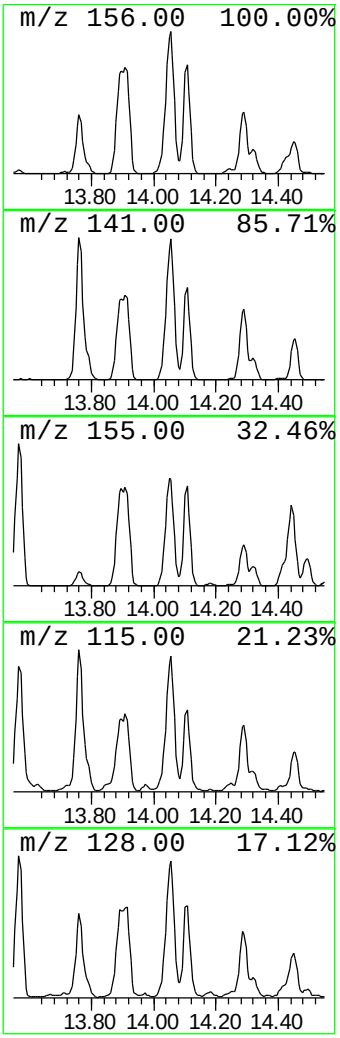
Peak Number 8 Naphthalene, 2,3-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.05	25.19 ng/ul	1449260	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96





Library Search Compound Report

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Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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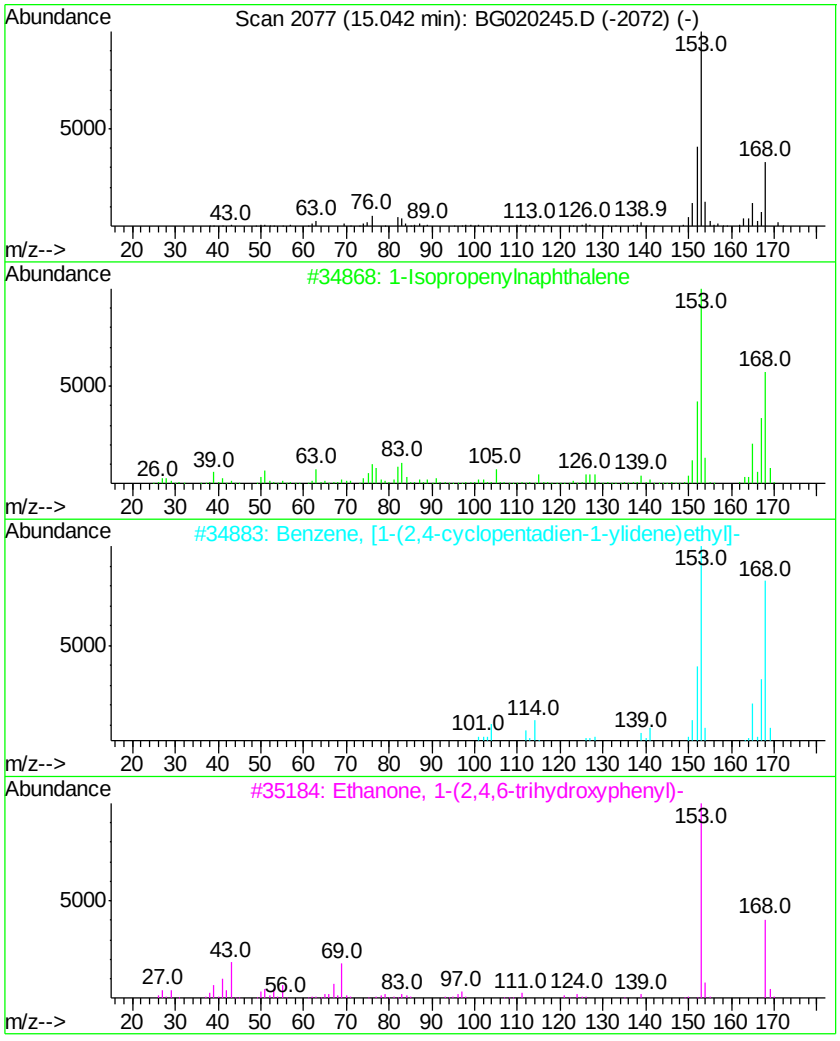
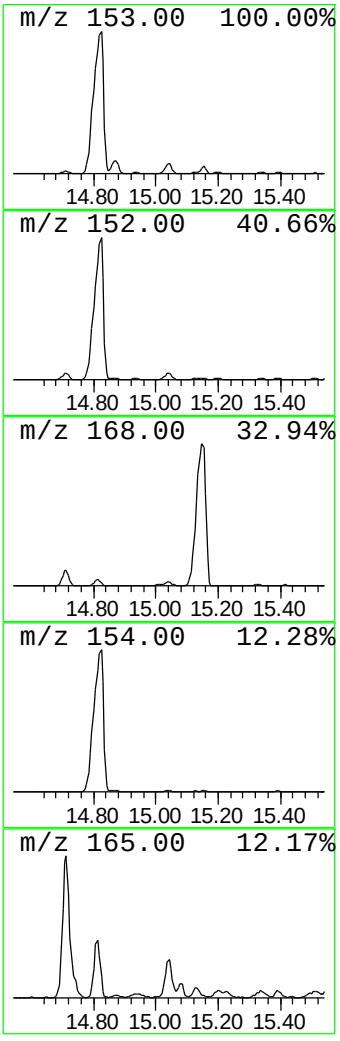
Peak Number 10 1-Isopropenylnaphthalene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.04	9.13 ng/ul	525361	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	80
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	50
3	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	43
4	2(1H)-Pyridinethione, 1,4,6-trim...	153	C8H11NS	019006-70-3	42
5	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	38





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Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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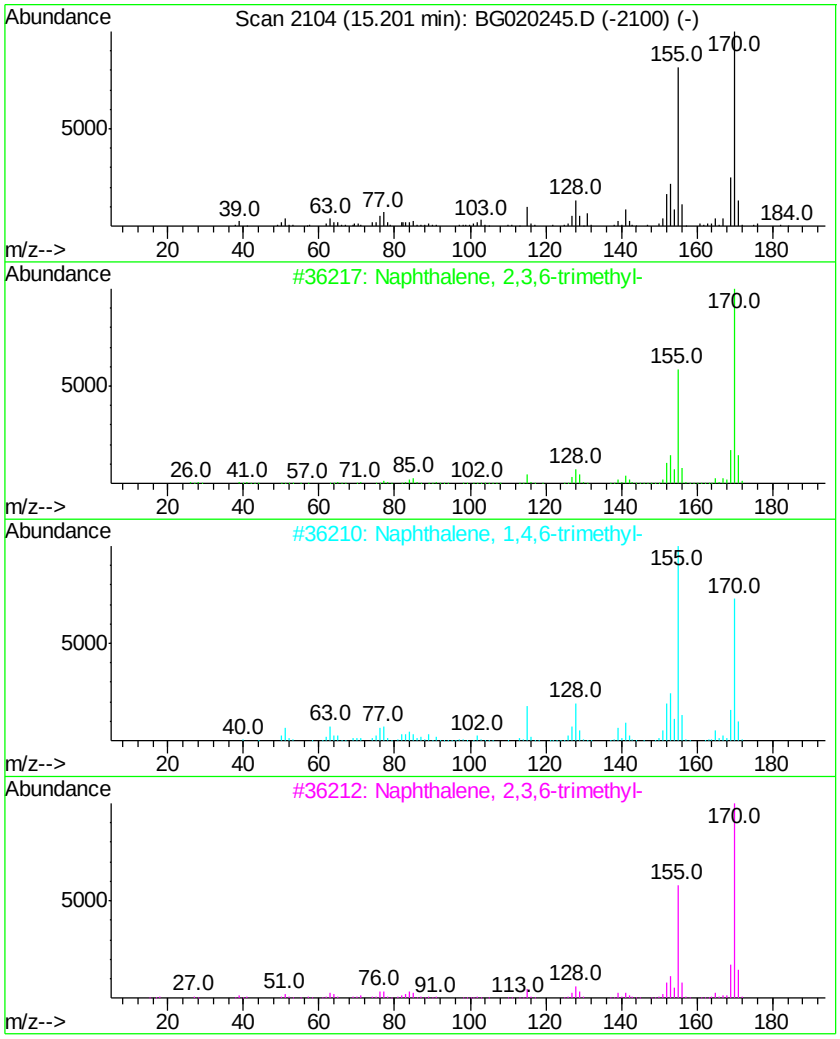
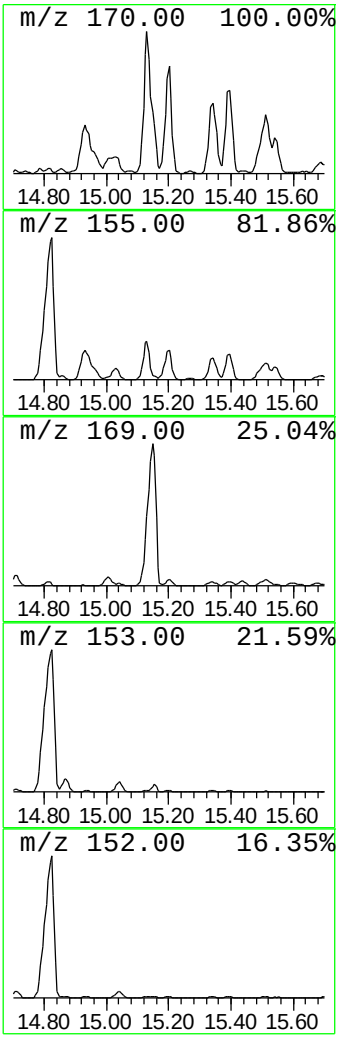
Peak Number 11 Naphthalene, 2,3,6-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	6.13 ng/ul	352762	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	95
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	94
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	94
4	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	94
5	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	94





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Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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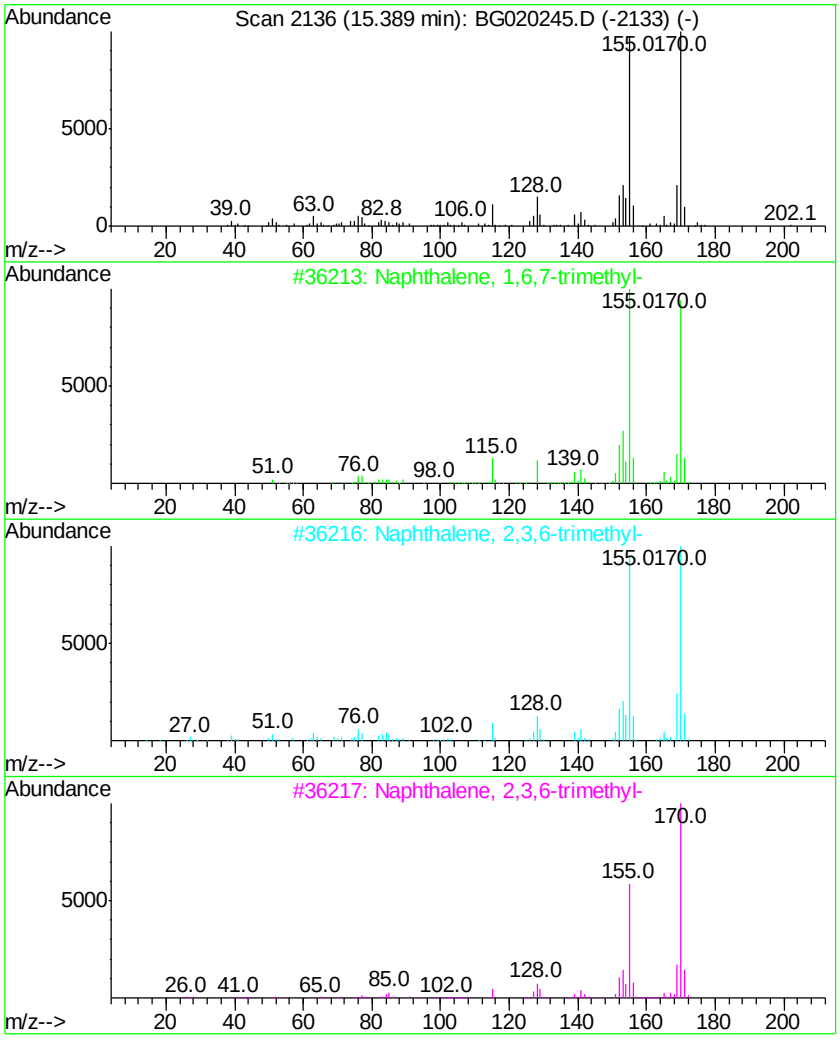
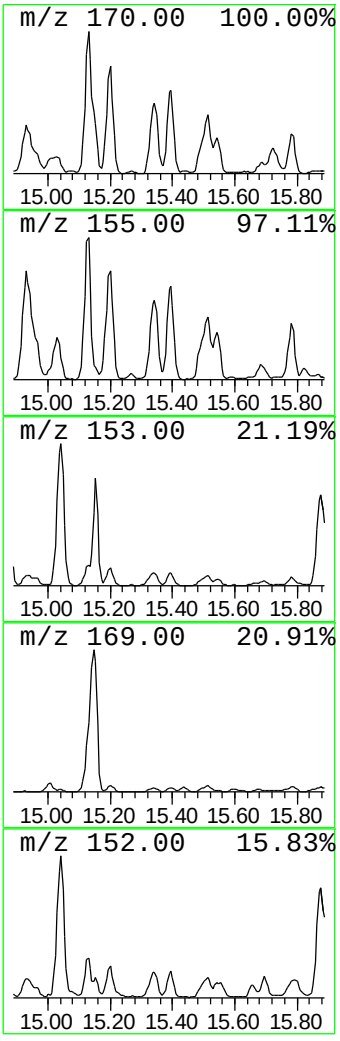
Peak Number 13 Naphthalene, 1,6,7-trimethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.39	3.67 ng/ul	211065	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93
5	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93





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Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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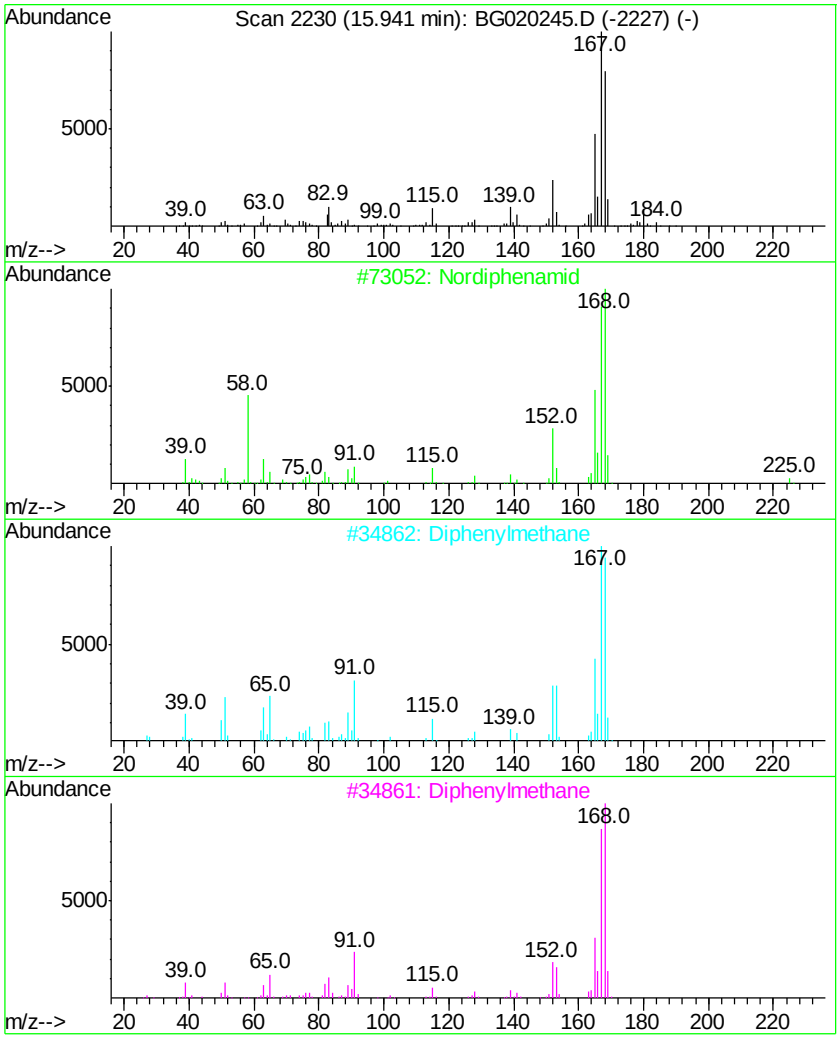
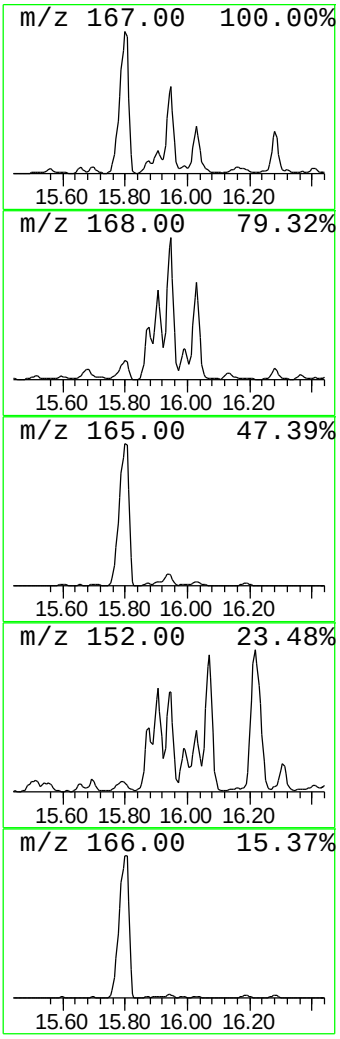
Peak Number 15 Nordiphenamid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	17.40 ng/ul	1001470	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nordiphenamid	225	C15H15NO	000954-21-2	90
2	Diphenylmethane	168	C13H12	000101-81-5	74
3	Diphenylmethane	168	C13H12	000101-81-5	74
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	74
5	Diphenylmethane	168	C13H12	000101-81-5	68





Library Search Compound Report

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Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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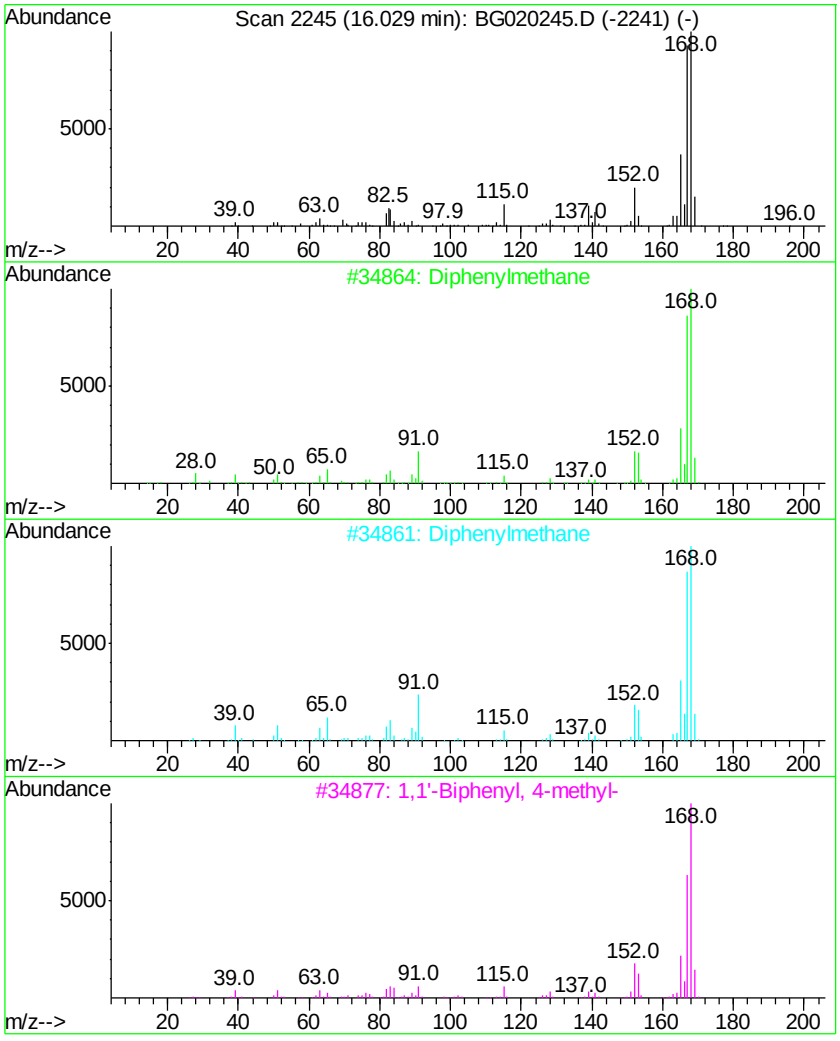
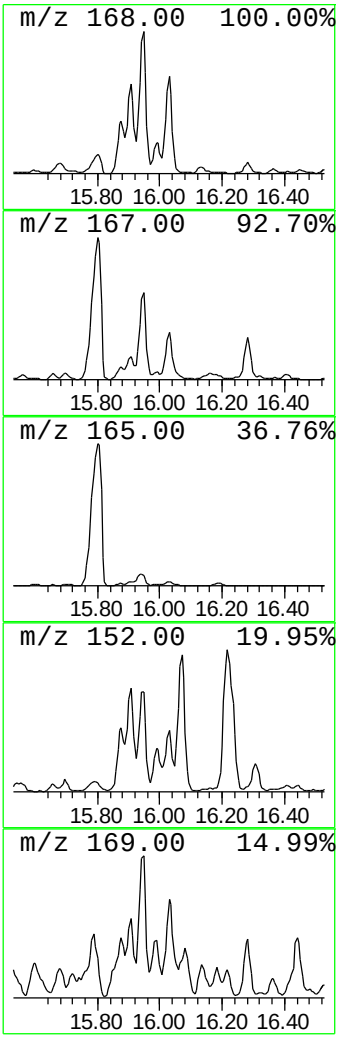
Peak Number 16 Diphenylmethane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.03	7.10 ng/ul	408462	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diphenylmethane	168	C13H12	000101-81-5	83
2	Diphenylmethane	168	C13H12	000101-81-5	83
3	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	80
4	Diphenylmethane	168	C13H12	000101-81-5	80
5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	74





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Misc :
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Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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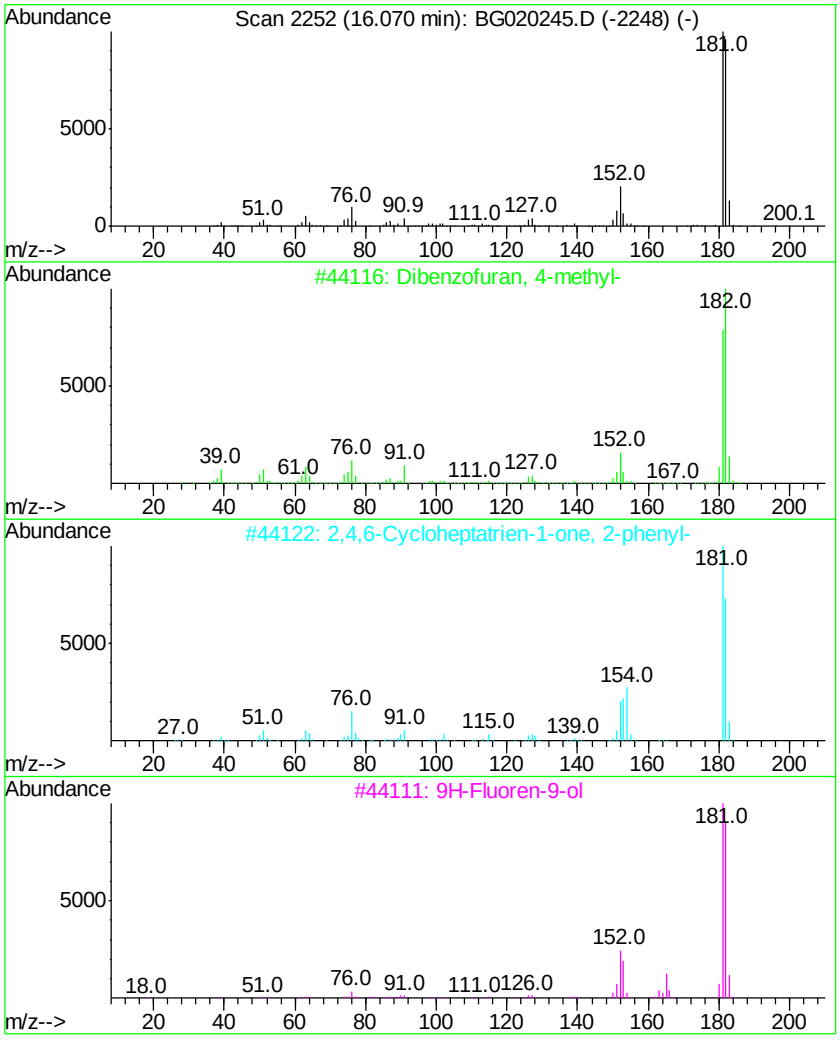
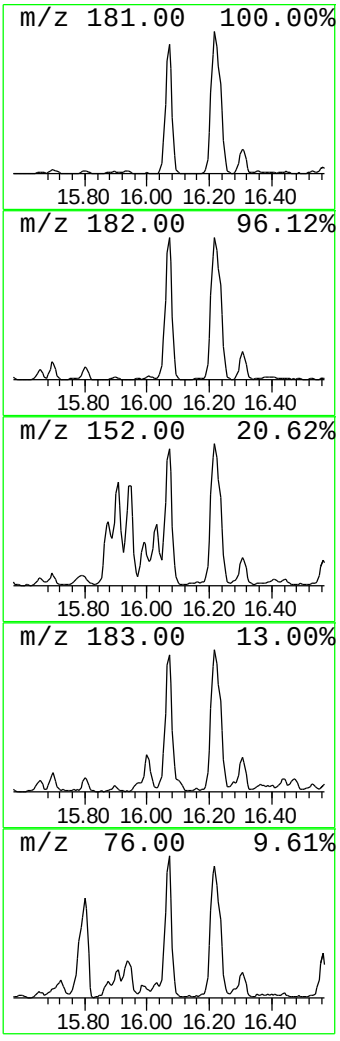
Peak Number 17 Dibenzofuran, 4-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.07	22.34 ng/ul	1285310	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	72





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Misc :
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Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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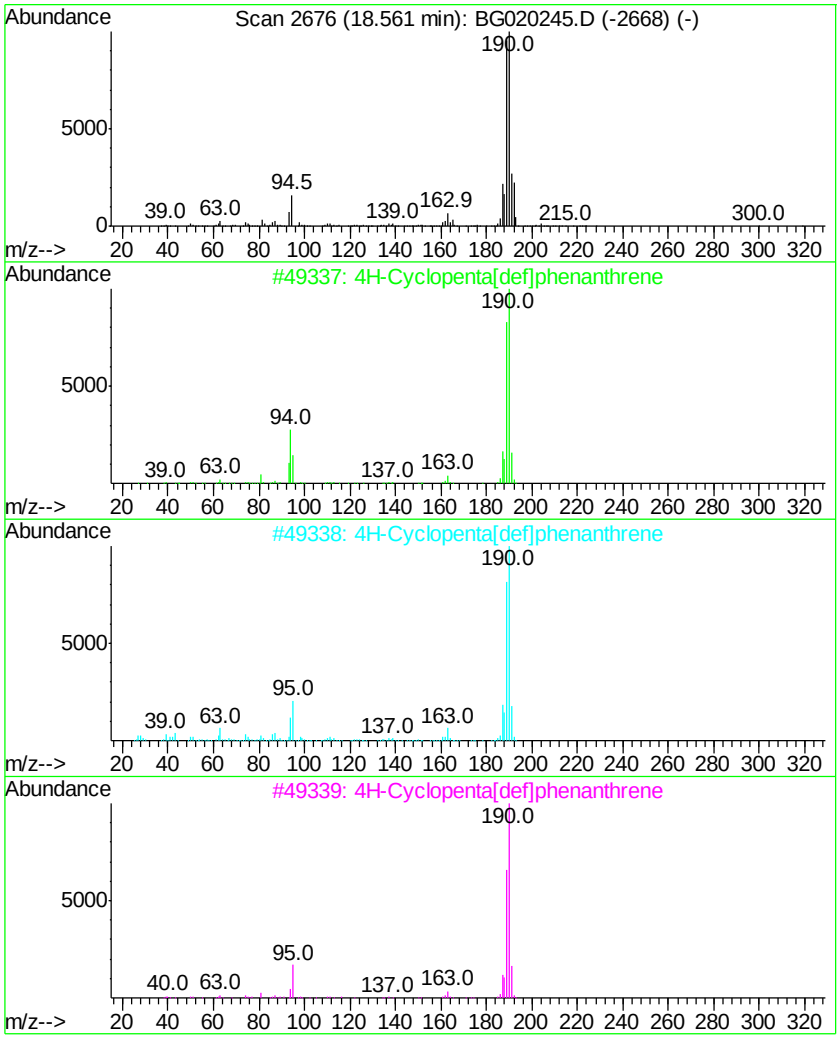
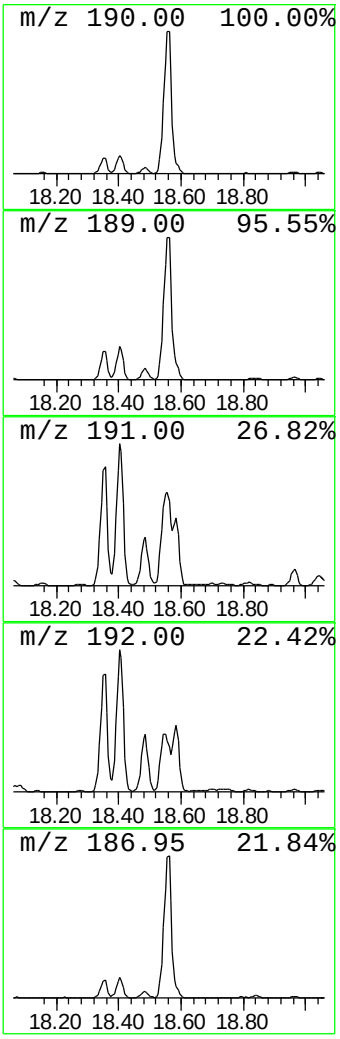
Peak Number 18 4H-Cyclopenta[def]phenanthrene Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	3.52 ng/ul	4610360	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	72
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42





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ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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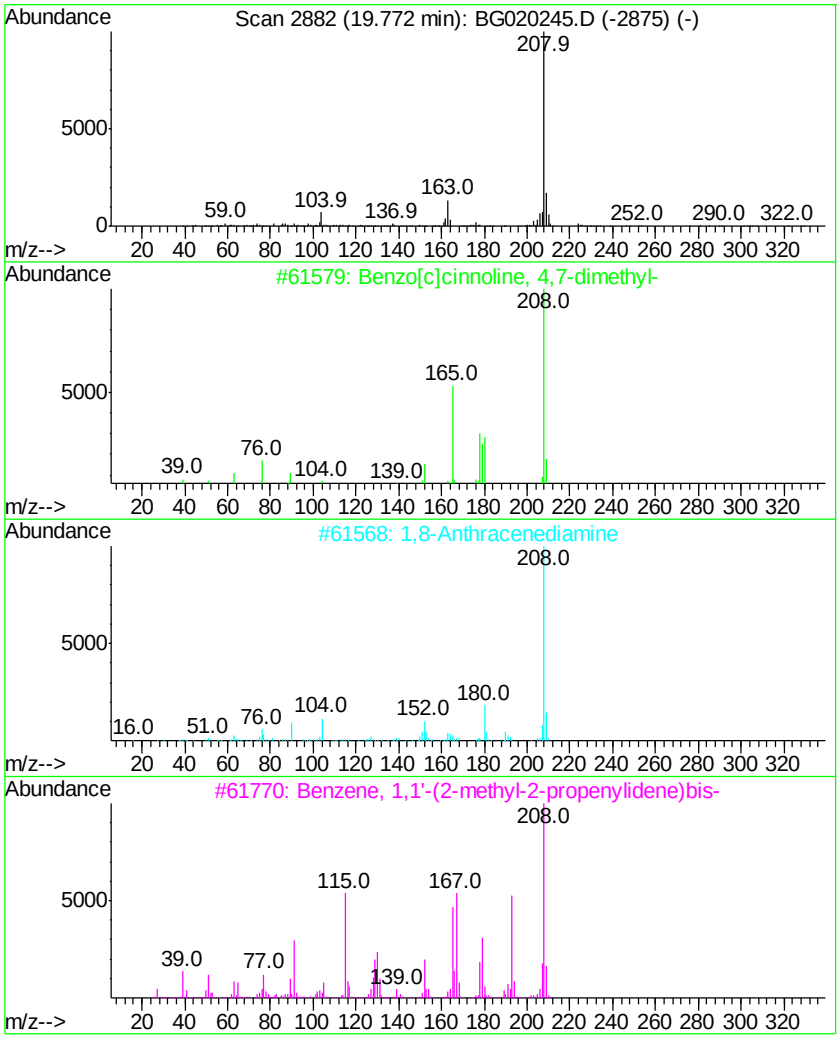
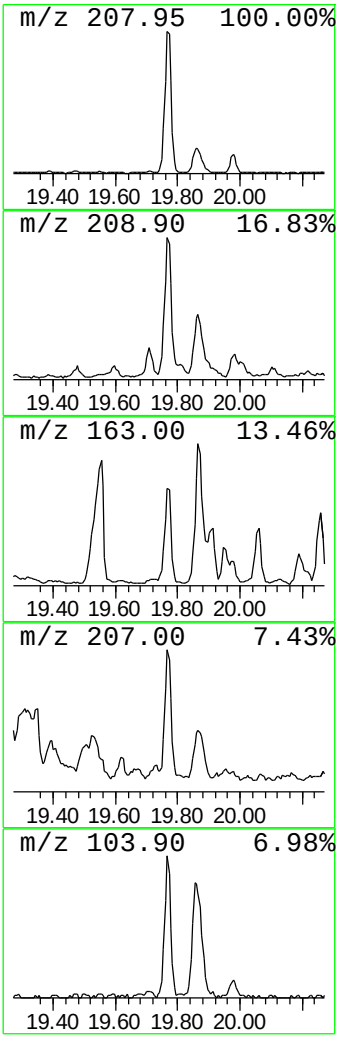
Peak Number 19 Benzo[c]cinnoline, 4,7-dime... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	2.86 ng/ul	536858	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]cinnoline, 4,7-dimethyl-	208	C14H12N2	020684-54-2	64
2	1,8-Anthracenediamine	208	C14H12N2	139312-39-3	64
3	Benzene, 1,1'-(2-methyl-2-propen...	208	C16H16	070813-56-8	59
4	1,6-Dimethylphenazine	208	C14H12N2	058718-43-7	53
5	4,7-Dimethyl-1,10-phenanthroline	208	C14H12N2	003248-05-3	53





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Sample : G4767-18
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Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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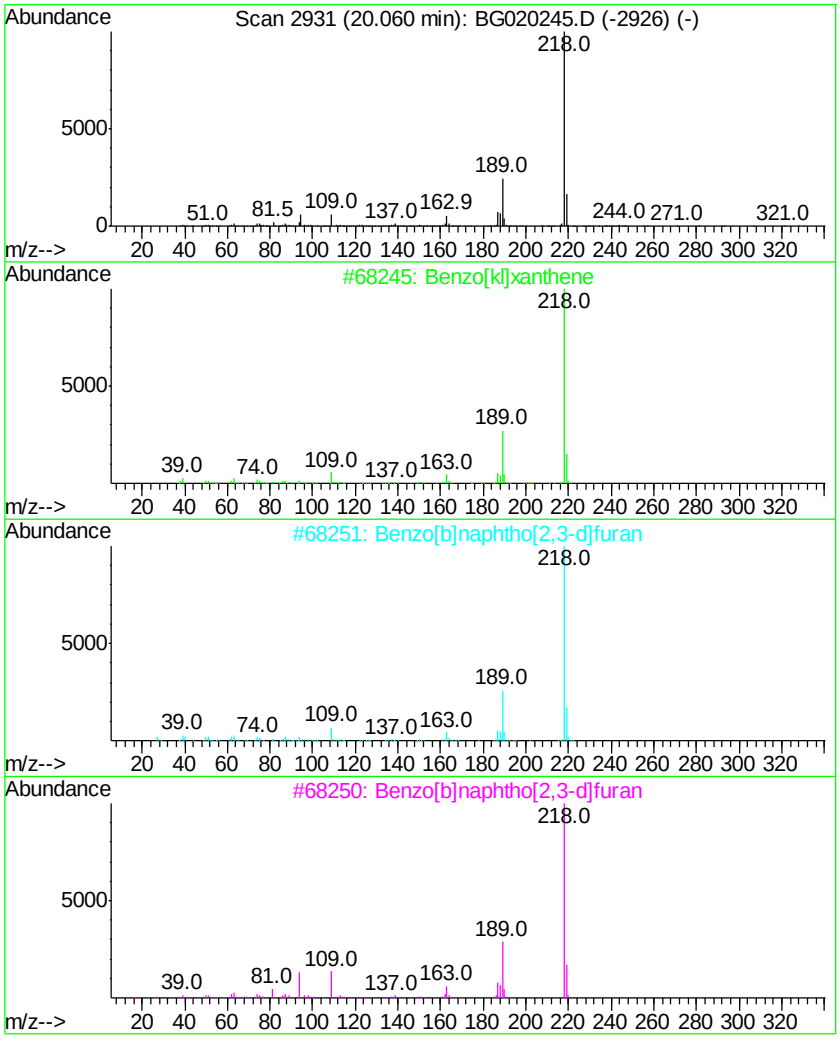
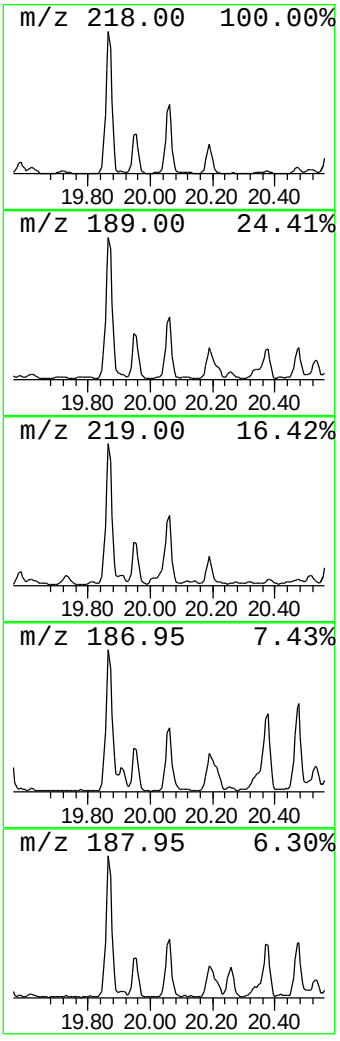
Peak Number 20 Benzo[kl]xanthene Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.06	2.98 ng/ul	560272	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[kl]xanthene	218	C16H10O	000200-23-7	97
2	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	96
3	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	94
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	94
5	Indeno[2,1-b]chromene,	218	C16H10O	000243-24-3	91





Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

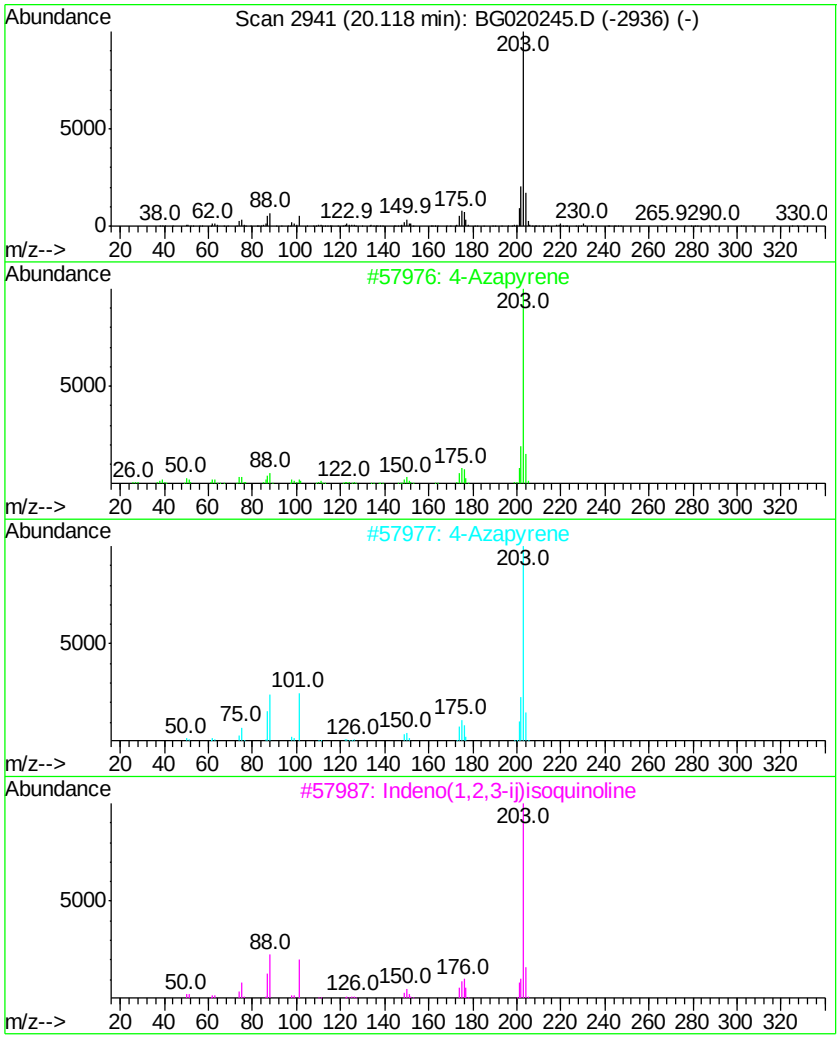
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

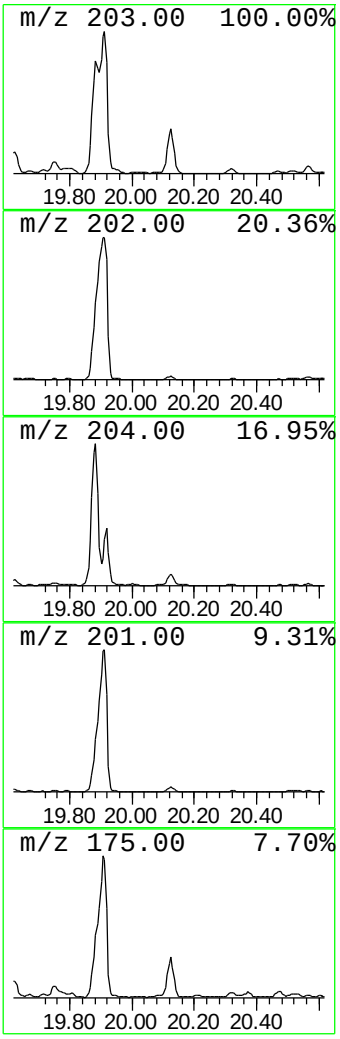
****

Peak Number 21 4-Azapyrene Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.12	2.86 ng/ul	537235	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Azapyrene	203	C15H9N	000194-03-6	95
2	4-Azapyrene	203	C15H9N	000194-03-6	94
3	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	93
4	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	93
5	9-Cyanophenanthrene	203	C15H9N	002510-55-6	91





Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

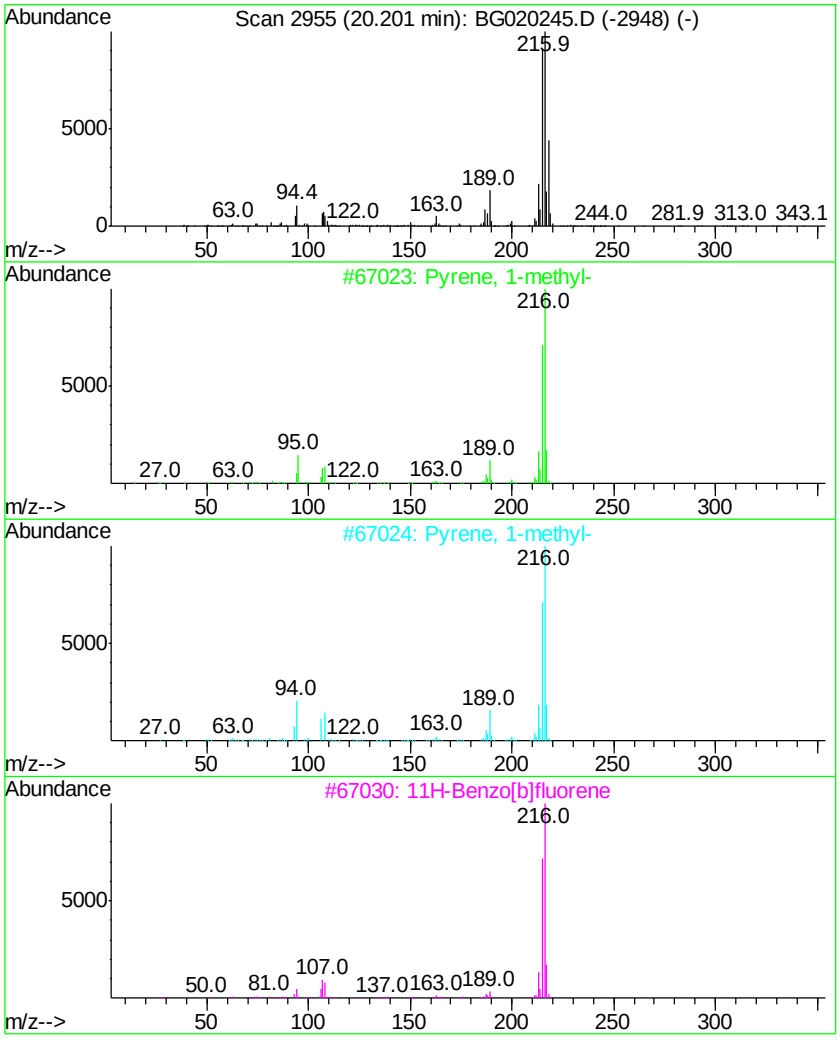
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

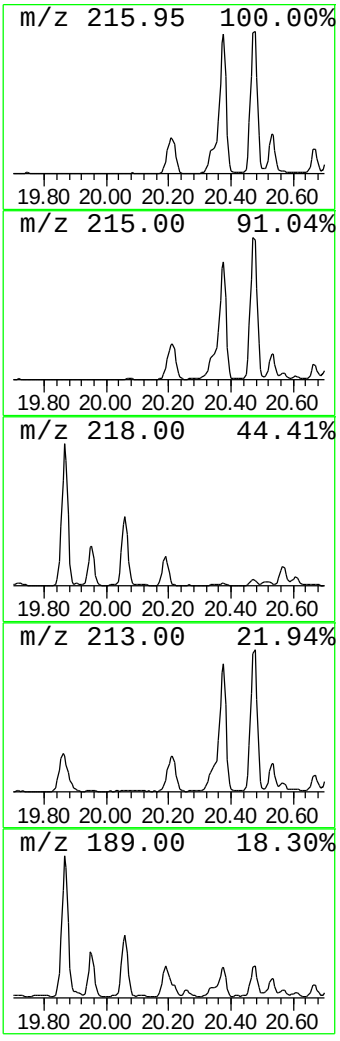
****

Peak Number 22 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.20	4.65 ng/ul	873995	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	89
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	76
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	76





Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
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Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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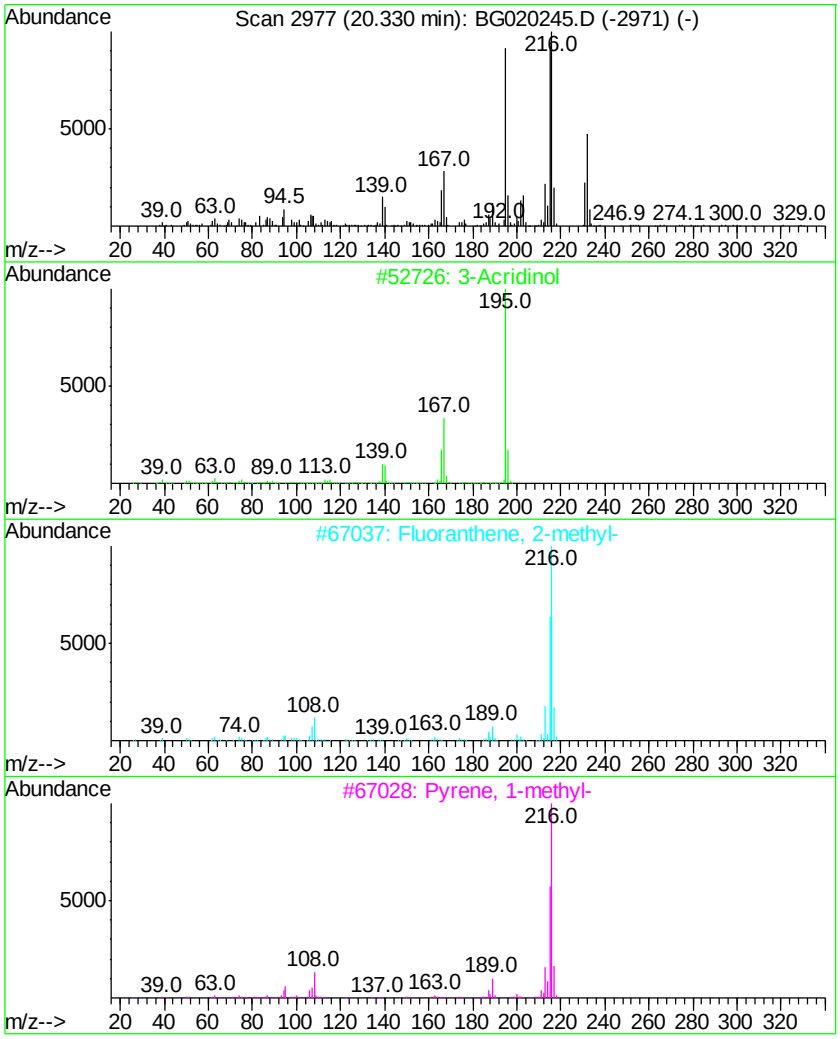
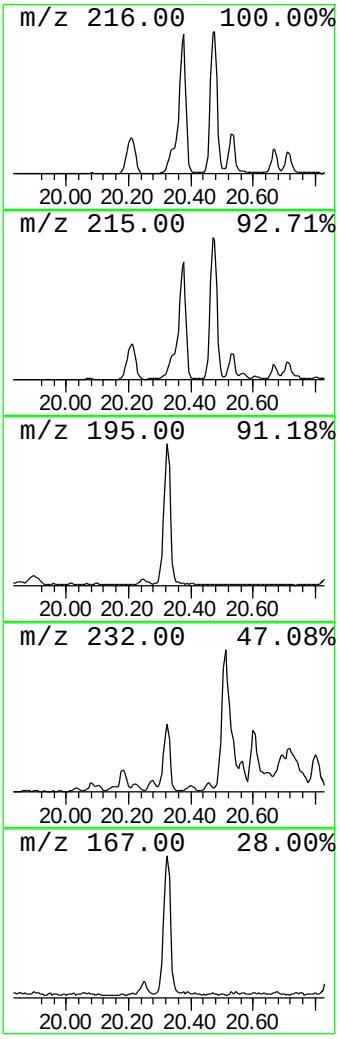
Peak Number 23 3-Acridinol Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.33	3.16 ng/ul	593176	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Acridinol	195	C13H9NO	007132-70-9	90
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	62
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	59
5	6(5H)-Phenanthridinone	195	C13H9NO	001015-89-0	59





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Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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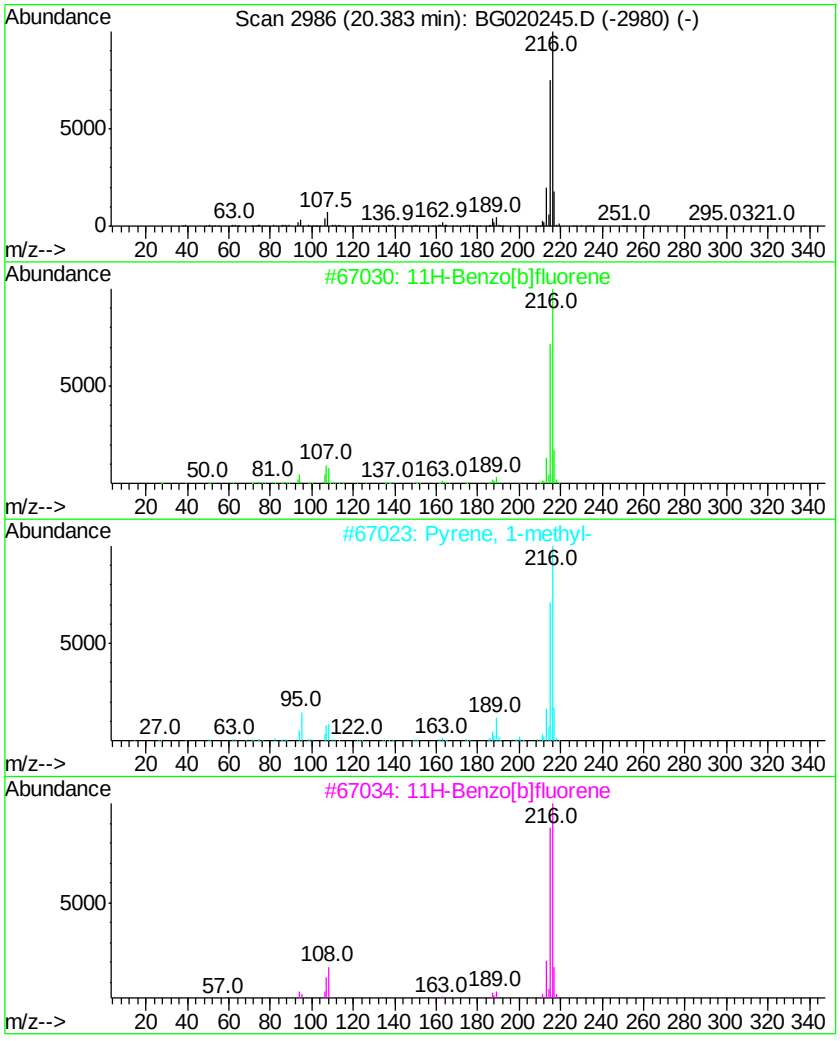
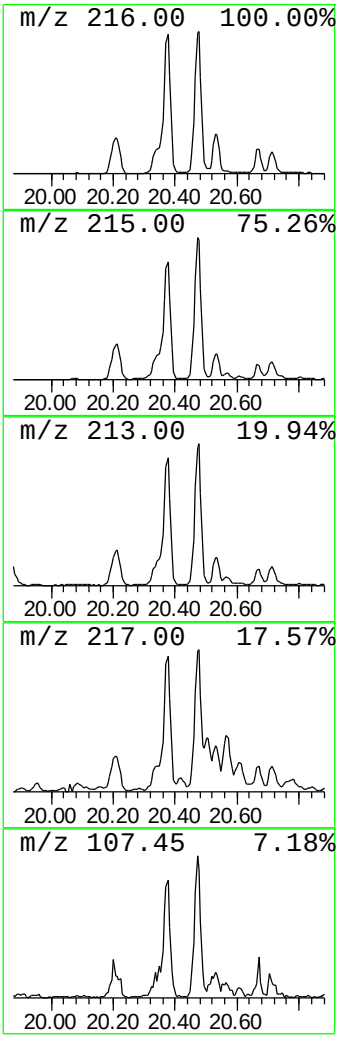
Peak Number 24 11H-Benzo[b]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.38	8.49 ng/ul	1594970	Chrysene-d12	21.75

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	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91





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Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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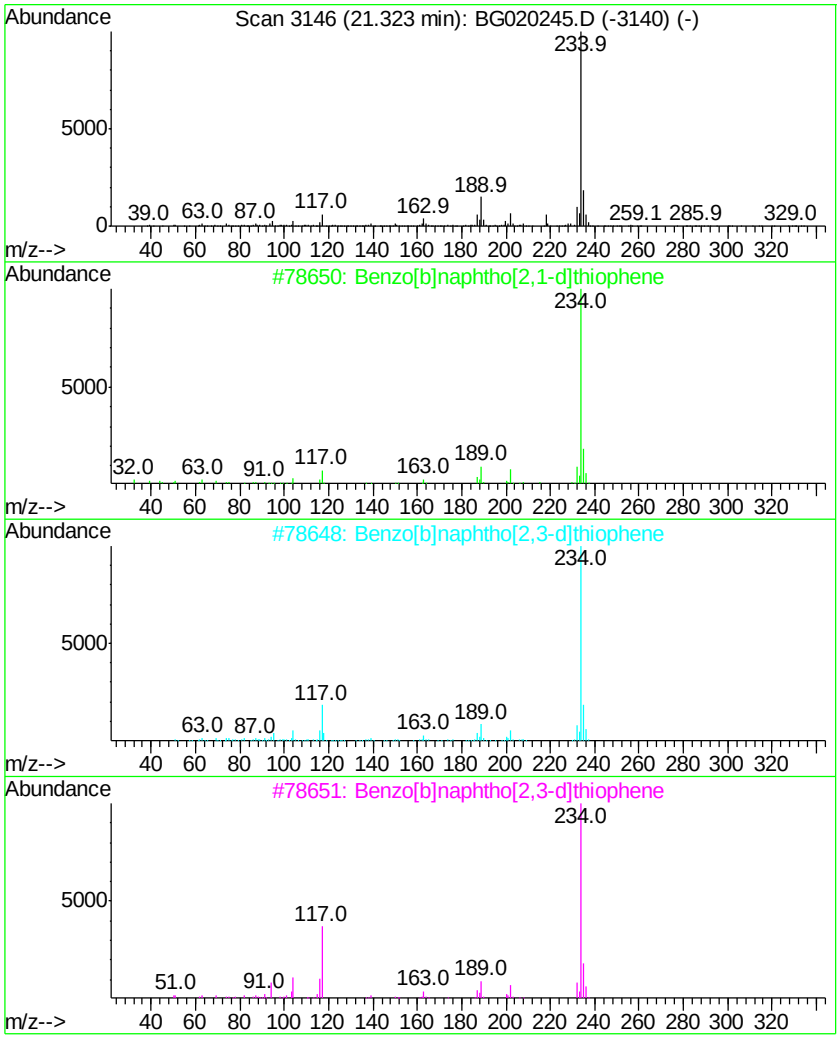
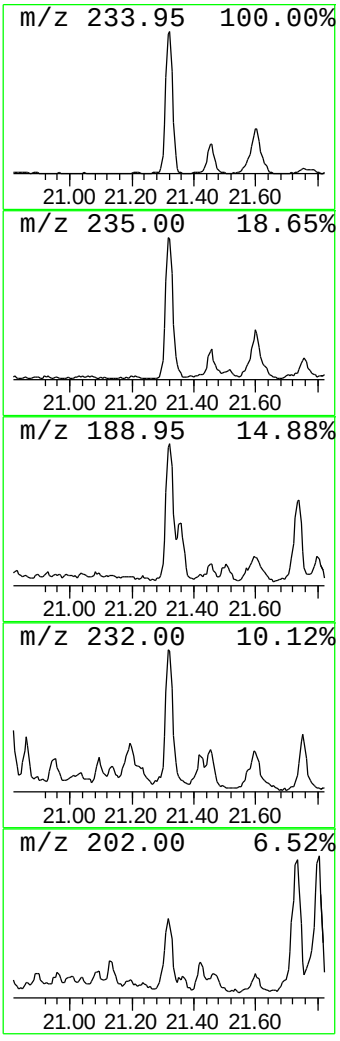
Peak Number 27 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.32	2.80 ng/ul	527016	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	87





Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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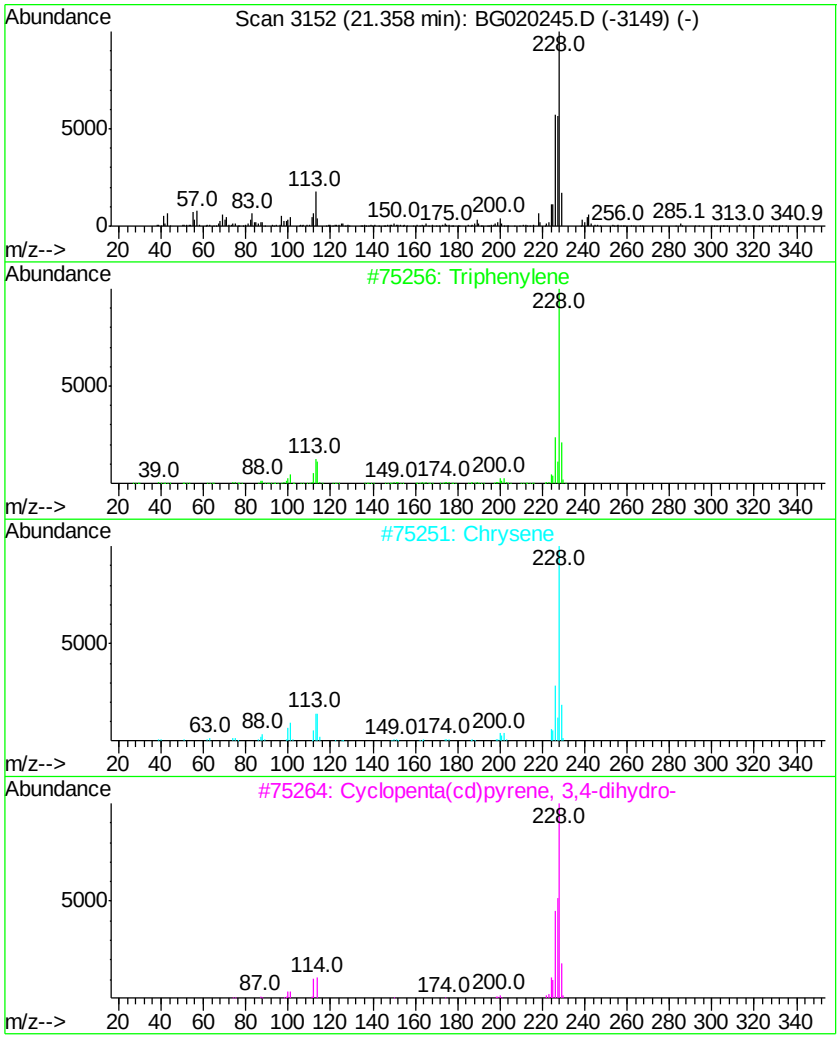
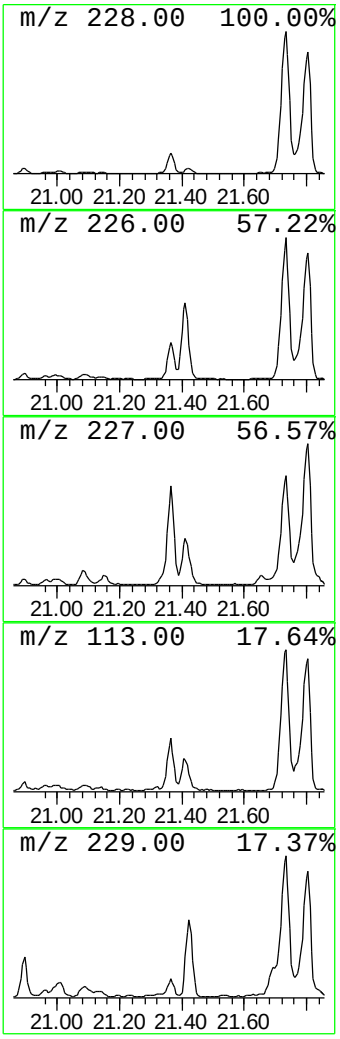
Peak Number 28 Triphenylene Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.36	2.81 ng/ul	528920	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene	228	C18H12	000217-59-4	60
2	Chrysene	228	C18H12	000218-01-9	60
3	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	58
4	Triphenylene	228	C18H12	000217-59-4	53
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	52





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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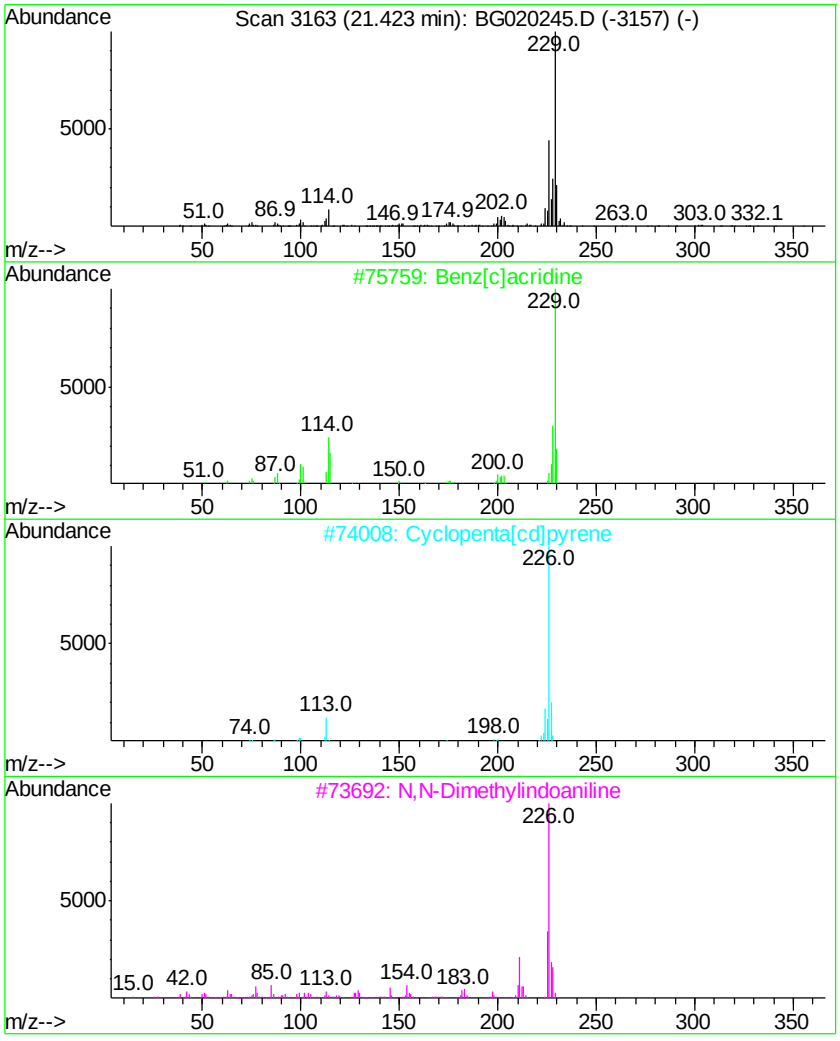
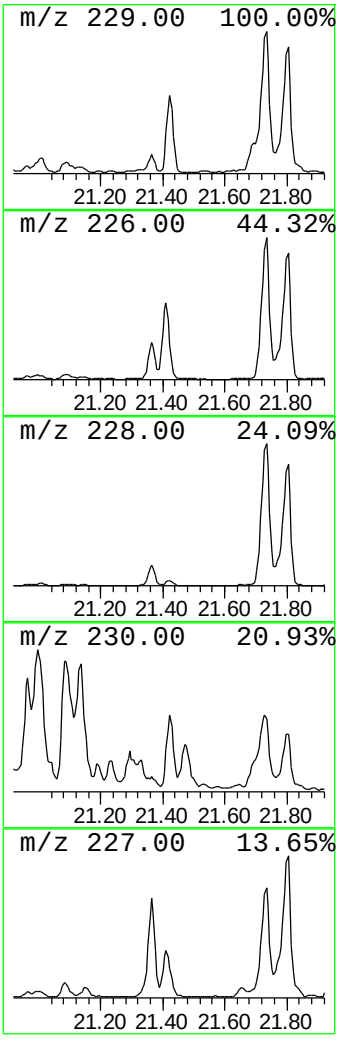
Peak Number 29 unknown-01 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.42	2.35 ng/ul	440841	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[c]acridine	229	C17H11N	000225-51-4	41
2	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	35
3	N,N-Dimethylindoaniline	226	C14H14N2O	002150-58-5	32
4	7-Chloro-2-phenazinamine	229	C12H8ClN3	023677-11-4	30
5	4-Piperidino-1-oxo-1,2-dihydroph...	229	C13H15N3O	078755-15-4	27





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Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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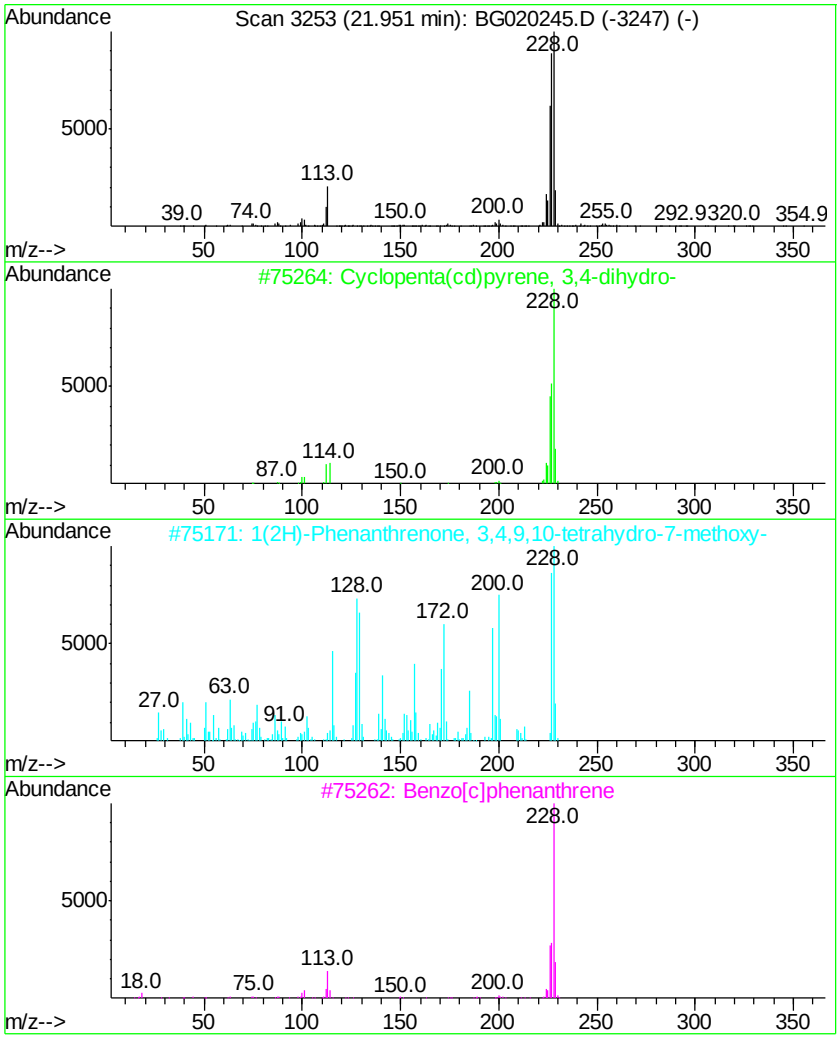
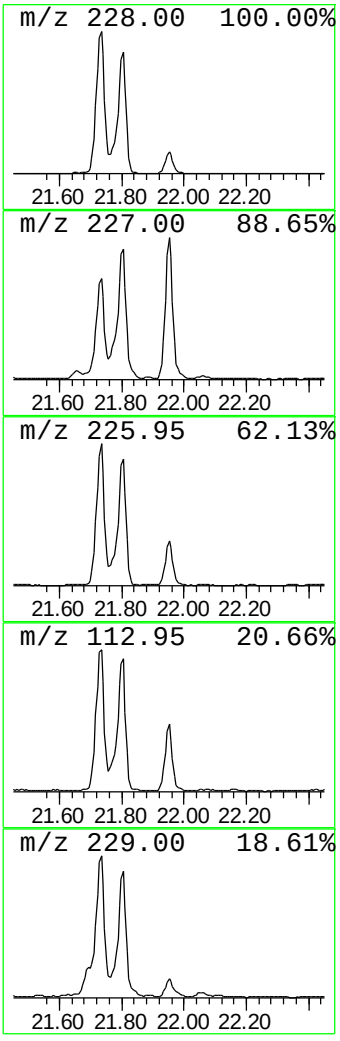
Peak Number 30 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.95	3.00 ng/ul	564341	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	55
2	1(2H)-Phenanthrenone, 3,4,9,10-t...	228	C15H16O2	014427-61-3	50
3	Benzo[c]phenanthrene	228	C18H12	000195-19-7	49
4	Benzo[c]phenanthrene	228	C18H12	000195-19-7	43
5	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	40





Data Path : Z:\HPCHEM1\BNA G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

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

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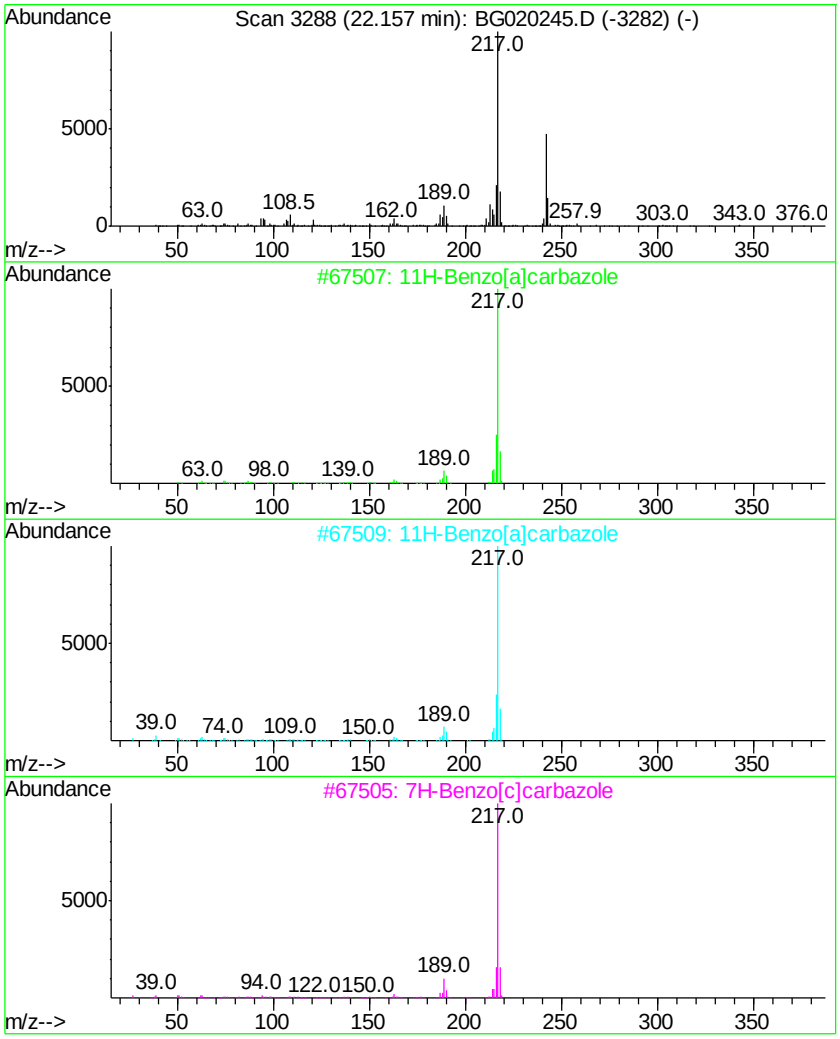
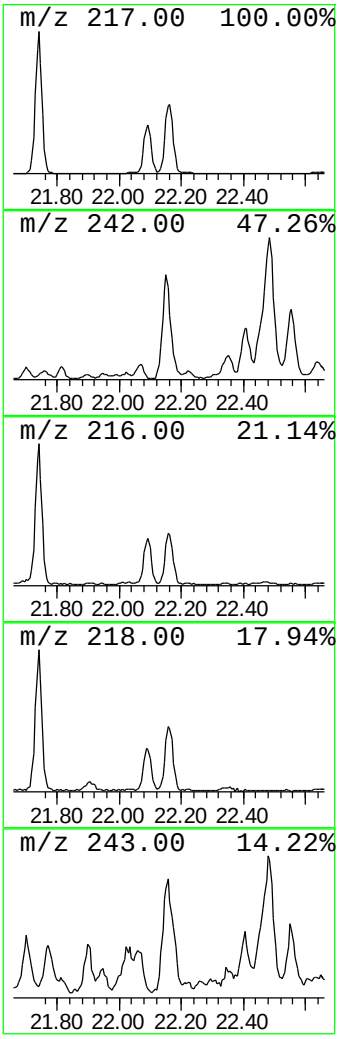
Peak Number 31 11H-Benzo[a]carbazole Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.16	2.20 ng/ul	412704	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	92
2	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	64
3	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	64
4	Benzo(b)carbazole	217	C16H11N	000243-28-7	64
5	Benzo(c)carbazole	217	C16H11N	034777-33-8	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\Data\BG121715\
Data File : BG020245.D
Acq On : 17 Dec 2015 6:43
Operator : UM/SJ
Sample : G4767-18
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.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
Indene	8.64	20.0	ng/ul	414580	1	8.10	414580	20.0
Quinoline	11.75	3.3	ng/ul	1605670	2	10.92	9682450	20.0
Quinoline, 8-methyl-	13.27	12.4	ng/ul	712541	3	14.73	1150870	20.0
Quinoline, 3-methyl-	13.36	4.6	ng/ul	265233	3	14.73	1150870	20.0
Quinoline, 2,6-di...	13.50	3.8	ng/ul	217124	3	14.73	1150870	20.0
Naphthalene, 1-et...	13.76	15.6	ng/ul	894777	3	14.73	1150870	20.0
Naphthalene, 1,3-...	13.91	26.1	ng/ul	1503760	3	14.73	1150870	20.0
Naphthalene, 2,3-...	14.05	25.2	ng/ul	1449260	3	14.73	1150870	20.0
1-Isopropenylnaph...	15.04	9.1	ng/ul	525361	3	14.73	1150870	20.0
Naphthalene, 2,3,...	15.20	6.1	ng/ul	352762	3	14.73	1150870	20.0
Naphthalene, 1,6,...	15.39	3.7	ng/ul	211065	3	14.73	1150870	20.0
Nordiphenamid	15.94	17.4	ng/ul	1001470	3	14.73	1150870	20.0
Diphenylmethane	16.03	7.1	ng/ul	408462	3	14.73	1150870	20.0
Dibenzofuran, 4-m...	16.07	22.3	ng/ul	1285310	3	14.73	1150870	20.0
4H-Cyclopenta[def...	18.56	3.5	ng/ul	4610360	4	17.49	26176500	20.0
Benzo[c]cinnoline...	19.77	2.9	ng/ul	536858	5	21.75	3758230	20.0
Benzo[kl]xanthene	20.06	3.0	ng/ul	560272	5	21.75	3758230	20.0
4-Azapyrene	20.12	2.9	ng/ul	537235	5	21.75	3758230	20.0
Pyrene, 1-methyl-	20.20	4.7	ng/ul	873995	5	21.75	3758230	20.0
3-Acridinol	20.33	3.2	ng/ul	593176	5	21.75	3758230	20.0
11H-Benzo[b]fluorene	20.38	8.5	ng/ul	1594970	5	21.75	3758230	20.0
Benzo[b]naphtho[2...	21.32	2.8	ng/ul	527016	5	21.75	3758230	20.0
Triphenylene	21.36	2.8	ng/ul	528920	5	21.75	3758230	20.0
unknown-01	21.42	2.4	ng/ul	440841	5	21.75	3758230	20.0
Cyclopenta(cd)pyr...	21.95	3.0	ng/ul	564341	5	21.75	3758230	20.0
11H-Benzo[a]carba...	22.16	2.2	ng/ul	412704	5	21.75	3758230	20.0