LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG010516\
Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

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-BG123015.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	3.064	34	38	47	rBV	39330	69062	1.07%	0.283%
2	3.140	47	51	59	rVB	27752	38560	0.60%	0.158%
3	7.212	736	744	749	rBV2	15664	26796	0.42%	0.110%
4	7.371	764	771	780	rBV	57176	95979	1.49%	0.394%
5	7.582	801	807	818	rVB2	59467	102161	1.58%	0.419%
6	7.694	819	826	833	rBB4	11641	19809	0.31%	0.081%
7	7.770	834	839	846	rBB3	3725	6669	0.10%	0.027%
8	8.052	881	887	895	rBV	58687	95037	1.47%	0.390%
9	8.422	945	950	957	rVB	32506	54600	0.85%	0.224%
10	8.593	970	979	988	rBV	161359	277525	4.30%	1.138%
11	8.763	1000	1008	1015	rBV	49992	87798	1.36%	0.360%
12	9.221	1079	1086	1096	rBV	77342	140242	2.17%	0.575%
13	9.415	1114	1119	1124	rBB	7331	11426	0.18%	0.047%
14	9.539	1133	1140	1146	rBV	19315	39181	0.61%	0.161%
15	9.603	1146	1151	1156	rVB2	5138	8196	0.13%	0.034%
16	9.950	1203	1210	1219	rVB	68596	122644	1.90%	0.503%
17	10.109	1232	1237	1243	rVB2	6052	10000	0.16%	0.041%
18	10.261	1257	1263	1265	rBV4	15166	26613	0.41%	0.109%
19	10.361	1274	1280	1285	rBV4	13365	27479	0.43%	0.113%
20	10.496	1294	1303	1313	rBV	107379	200166	3.10%	0.821%
21	10.878	1360	1368	1369	rBV	73145	121487	1.88%	0.498%
22	10.943	1369	1379	1390	rVV	2993134	6450740	100.00%	26.458%
23	11.043	1390	1396	1405	rVB	147259	249672	3.87%	1.024%
24	12.183	1584	1590	1594	rBV	6413	9583	0.15%	0.039%
25	12.418	1623	1630	1640	rVB	20236	34616	0.54%	0.142%
26	12.523	1640	1648	1660	rBV	909572	1528812	23.70%	6.270%
27	12.641	1660	1668	1675	rVV	27328	52342	0.81%	0.215%
28	12.741	1675	1685	1698	rVB	533645	893553	13.85%	3.665%
29	13.234	1764	1769	1773	rVV	4450	6526	0.10%	0.027%
30	13.522	1811	1818	1827	rBV	265971	396178	6.14%	1.625%
31	13.716	1845	1851	1861	rVB2	38908	78188	1.21%	0.321%
32	13.851	1864	1874	1875	rBV3	40866	61000	0.95%	0.250%
33	14.010	1894	1901	1906	rBV	76697	144748	2.24%	0.594%
34	14.092	1906	1915	1921	rVB	232806	407657	6.32%	1.672%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG010516\
Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

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-BG123015.M
Title : SVOA CALIBRATION

35	14.245	1934	1941	1944	rBV	30429	45230	0.70%	0.186%
36	14.274	1944	1946	1952	rVB2	11698	16655	0.26%	0.068%
37	14.386	1957	1965	1978	rBV2	242617	528298	8.19%	2.167%
38	14.656	2006	2011	2013	rBV	37910	53051	0.82%	0.218%
39	14.691	2013	2017	2022	rVV2	154634	241420	3.74%	0.990%
40	14.762	2022	2029	2035	rVV	1372671	2166642	33.59%	8.887%
41	14.821	2035	2039	2046	rVB	109332	165093	2.56%	0.677%
42	14.897	2048	2052	2059	rBV4	12641	21992	0.34%	0.090%
43	14.997	2065	2069	2073	rVB2	19389	26056	0.40%	0.107%
44	15.091	2078	2085	2094	rBV	712356	1154125	17.89%	4.734%
45	15.291	2113	2119	2125	rBV2	7354	11464	0.18%	0.047%
46	15.367	2125	2132	2141	rVB4	3954	9514	0.15%	0.039%
47	15.684	2179	2186	2190	rVV	324368	515119	7.99%	2.113%
48	15.737	2190	2195	2202	rVV	745744	1107581	17.17%	4.543%
49	15.808	2202	2207	2213	rVV2	71771	137418	2.13%	0.564%
50	15.861	2213	2216	2219	rVV2	30652	47439	0.74%	0.195%
51	15.896	2219	2222	2227	rVV2	41859	65709	1.02%	0.270%
52	15.943	2227	2230	2233	rVV4	11302	17624	0.27%	0.072%
53	15.984	2233	2237	2240	rVV2	18728	28221	0.44%	0.116%
54	16.025	2240	2244	2250	rVB	33469	48329	0.75%	0.198%
55	16.172	2257	2269	2280	rBV3	37993	87381	1.35%	0.358%
56	16.266	2280	2285	2289	rVB	4972	6490	0.10%	0.027%
57	16.401	2304	2308	2315	rVB3	5439	10223	0.16%	0.042%
58	16.525	2321	2329	2336	rBV	43893	62921	0.98%	0.258%
59	16.695	2353	2358	2361	rBV4	9849	17918	0.28%	0.073%
60	16.736	2361	2365	2370	rVV	17032	26890	0.42%	0.110%
61	16.783	2370	2373	2379	rVB3	6028	7855	0.12%	0.032%
62	16.889	2385	2391	2394	rBV2	8004	11685	0.18%	0.048%
63	17.089	2421	2425	2432	rVB	13214	20952	0.32%	0.086%
64	17.253	2447	2453	2463	rVB	76806	115878	1.80%	0.475%
65	17.435	2478	2484	2487	rVV	212983	325735	5.05%	1.336%
66	17.482	2487	2492	2497	rVV	900142	1357855	21.05%	5.569%
67	17.535	2497	2501	2512	rVV2	404400	639703	9.92%	2.624%
68	17.635	2512	2518	2522	rVB4	6784	10275	0.16%	0.042%
69	17.841	2546	2553	2562	rBV	298861	437768	6.79%	1.796%
70	17.946	2564	2571	2577	rBV7	7571	17319	0.27%	0.071%
71	18.311	2629	2633	2636	rVV	12795	17610	0.27%	0.072%

LSC Area Percent Report

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Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

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

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Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Title : SVOA CALIBRATION

72	18.352	2636	2640	2649	rVB2	58583	89551	1.39%	0.367%
73	18.428	2649	2653	2658	rVB3	4271	7903	0.12%	0.032%
74	18.505	2660	2666	2676	rBV	47880	80134	1.24%	0.329%
75	18.605	2676	2683	2687	rBV2	21912	36135	0.56%	0.148%
76	18.652	2687	2691	2696	rVB	35321	46154	0.72%	0.189%
77	18.746	2701	2707	2712	rBV2	24433	38363	0.59%	0.157%
78	18.798	2713	2716	2720	rVB2	6764	8546	0.13%	0.035%
79	18.851	2720	2725	2730	rBV	26082	37146	0.58%	0.152%
80	19.333	2797	2807	2809	rBV4	3772	9587	0.15%	0.039%
81	19.368	2809	2813	2819	rVB3	3955	7197	0.11%	0.030%
82	19.486	2825	2833	2840	rVB	95558	139914	2.17%	0.574%
83	19.686	2862	2867	2869	rBV3	4731	7428	0.12%	0.030%
84	19.821	2883	2890	2901	rVV2	482624	759083	11.77%	3.113%
85	20.220	2953	2958	2965	rBV	37678	54323	0.84%	0.223%
86	21.707	3204	3211	3225	rBV	253059	421701	6.54%	1.730%
87	22.118	3276	3281	3287	rBV	6892	11992	0.19%	0.049%
88	23.164	3455	3459	3464	rBV5	4511	8720	0.14%	0.036%
89	23.975	3591	3597	3604	rVB7	5645	13056	0.20%	0.054%
90	24.733	3714	3726	3741	rVB	249481	680193	10.54%	2.790%
91	24.956	3752	3764	3776	rVB2	137662	384796	5.97%	1.578%
92	26.049	3943	3950	3952	rBV5	8137	15853	0.25%	0.065%
93	27.406	4173	4181	4190	rBV6	7524	23013	0.36%	0.094%
94	29.039	4452	4459	4473	rVB7	6490	23915	0.37%	0.098%

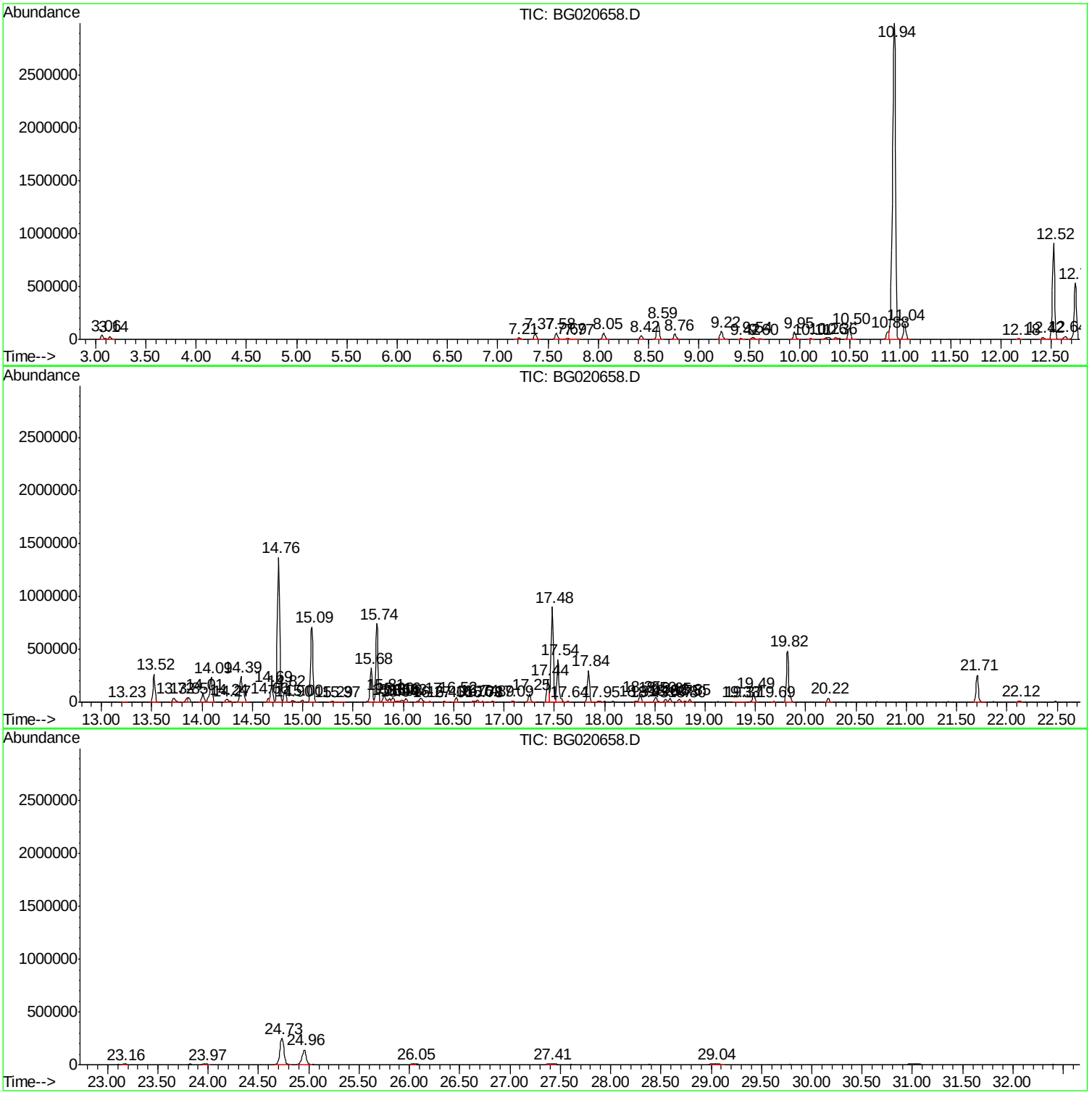
Sum of corrected areas: 24381186

Data Path : Z:\HPCHEM1\BNA G\DATA\BG010516\
Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.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\BG010516\
Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
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ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

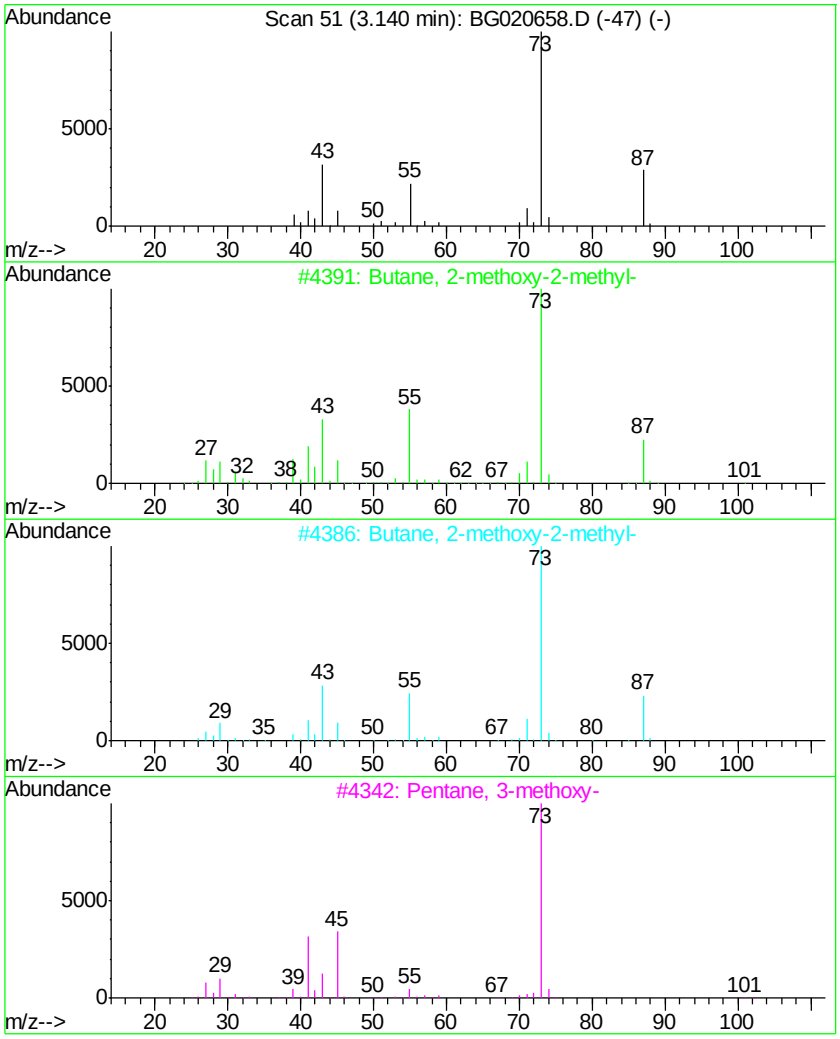
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

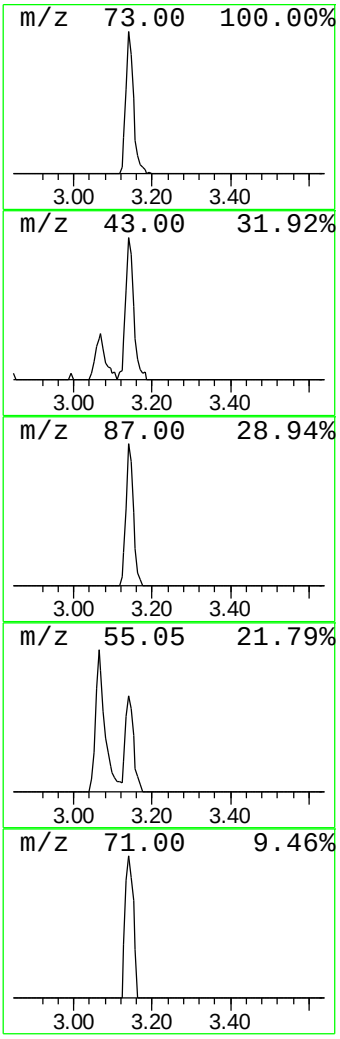
****

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.14	8.11 ng/ul	38560	1,4-Dichlorobenzene-d4	8.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9





Data Path : Z:\HPCHEM1\BNA G\DATA\BG010516\
Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

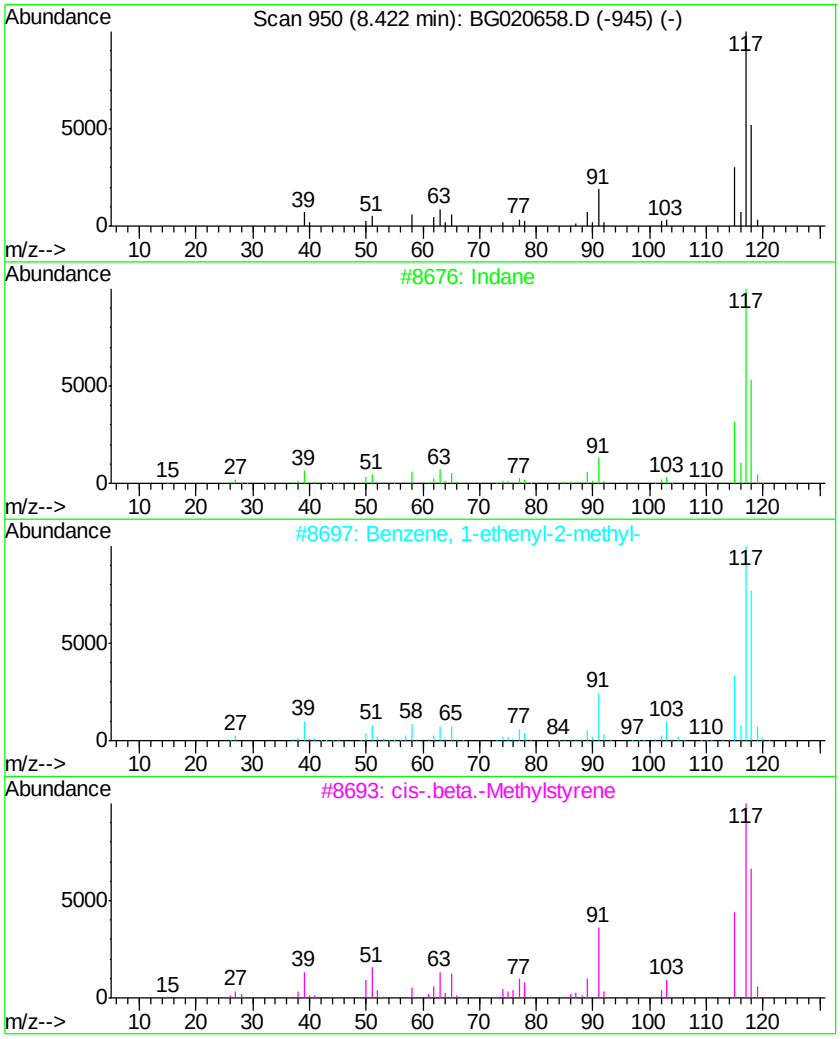
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

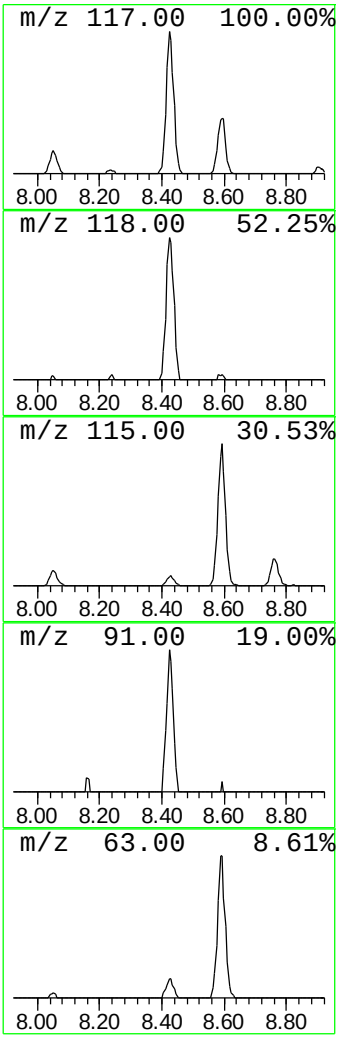
****

Peak Number 4 Indane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.42	11.49 ng/ul	54600	1,4-Dichlorobenzene-d4	8.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	94
2	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	72
3	cis-.beta.-Methylstyrene	118	C9H10	000766-90-5	72
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	64
5	Deltacyclene	118	C9H10	007785-10-6	64





Data Path : Z:\HPCHEM1\BNA G\DATA\BG010516\
Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

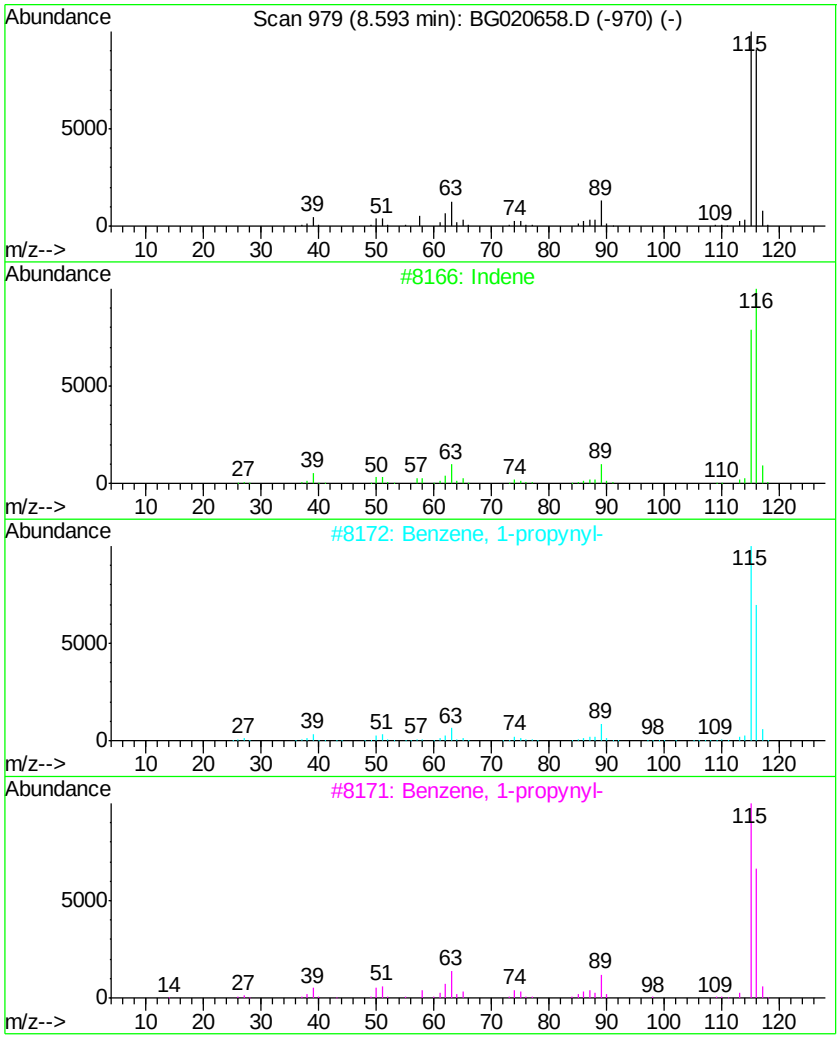
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

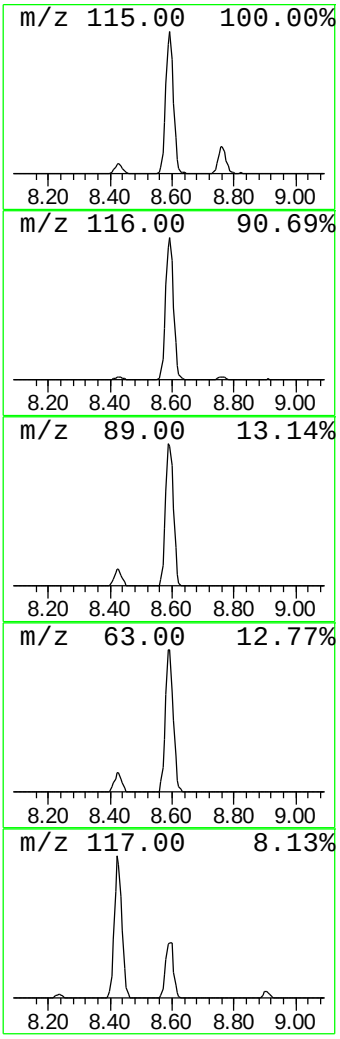
****

Peak Number 5 Indene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.59	58.40 ng/ul	277525	1,4-Dichlorobenzene-d4	8.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	97
2	Benzene, 1-propynyl-	116	C9H8	000673-32-5	94
3	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
4	Benzene, 1-ethynyl-4-methyl-	116	C9H8	000766-97-2	91
5	Benzene,1-ethynyl-2-methyl-	116	C9H8	000766-47-2	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG010516\
Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

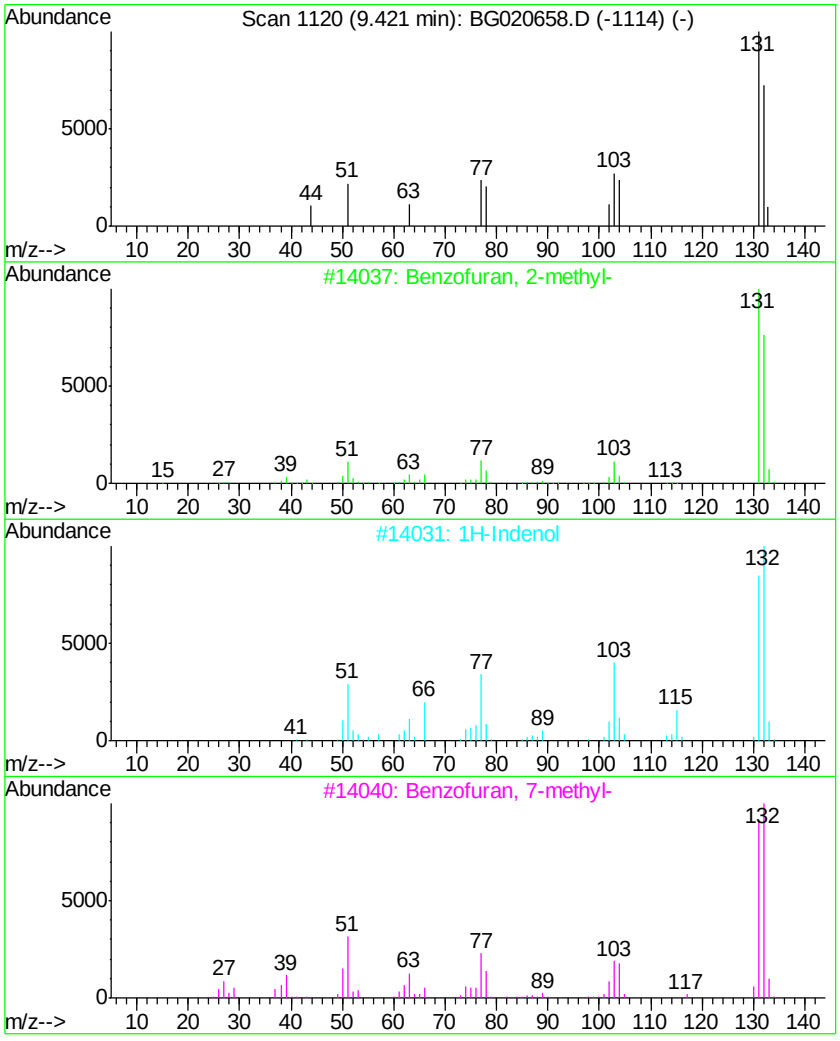
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

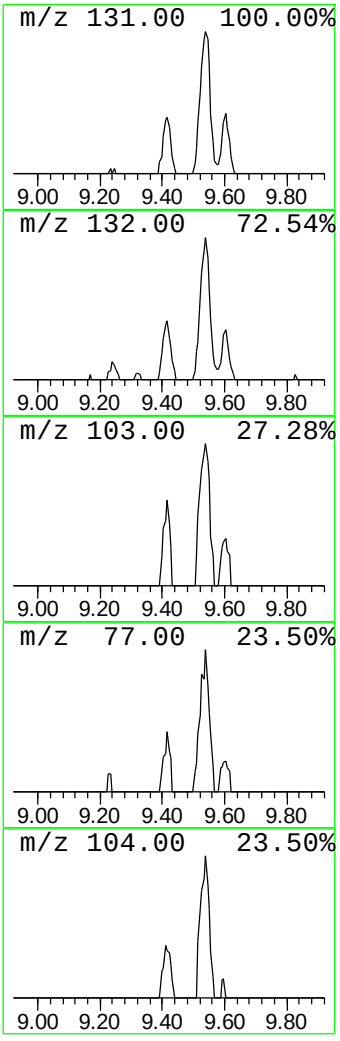
****

Peak Number 6 Benzofuran, 2-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	2.40 ng/ul	11426	1,4-Dichlorobenzene-d4	8.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
2	1H-Indenol	132	C9H8O	056631-57-3	91
3	Benzofuran, 7-methyl-	132	C9H8O	017059-52-8	91
4	Cinnamaldehyde, (E)-	132	C9H8O	014371-10-9	90
5	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	87





Library Search Compound Report

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Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

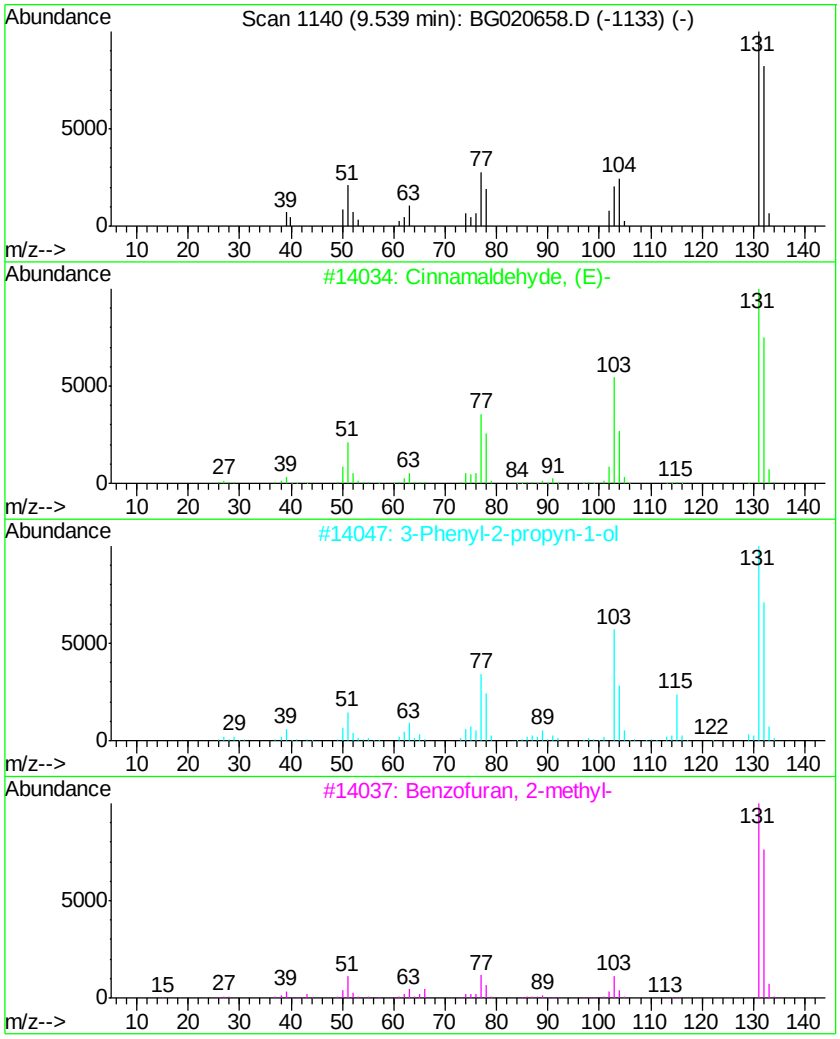
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

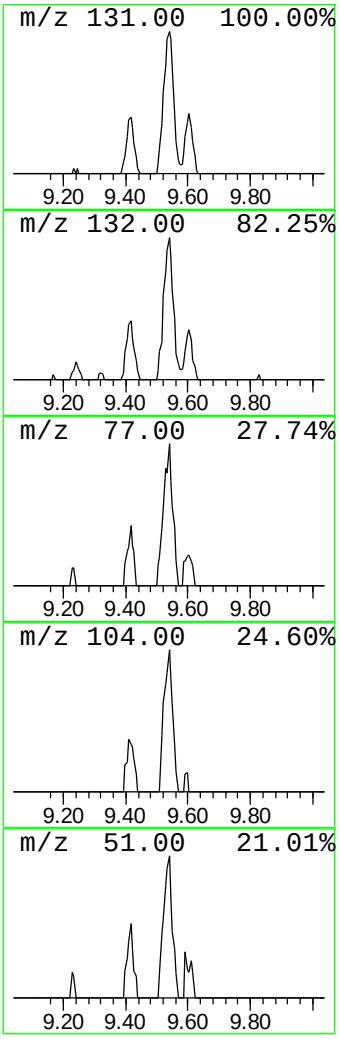
****

Peak Number 7 Cinnamaldehyde, (E)- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.54	6.45 ng/ul	39181	Naphthalene-d8	10.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cinnamaldehyde, (E)-	132	C9H8O	014371-10-9	93
2	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	91
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
4	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
5	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG010516\
Data File : BG020658.D
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Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

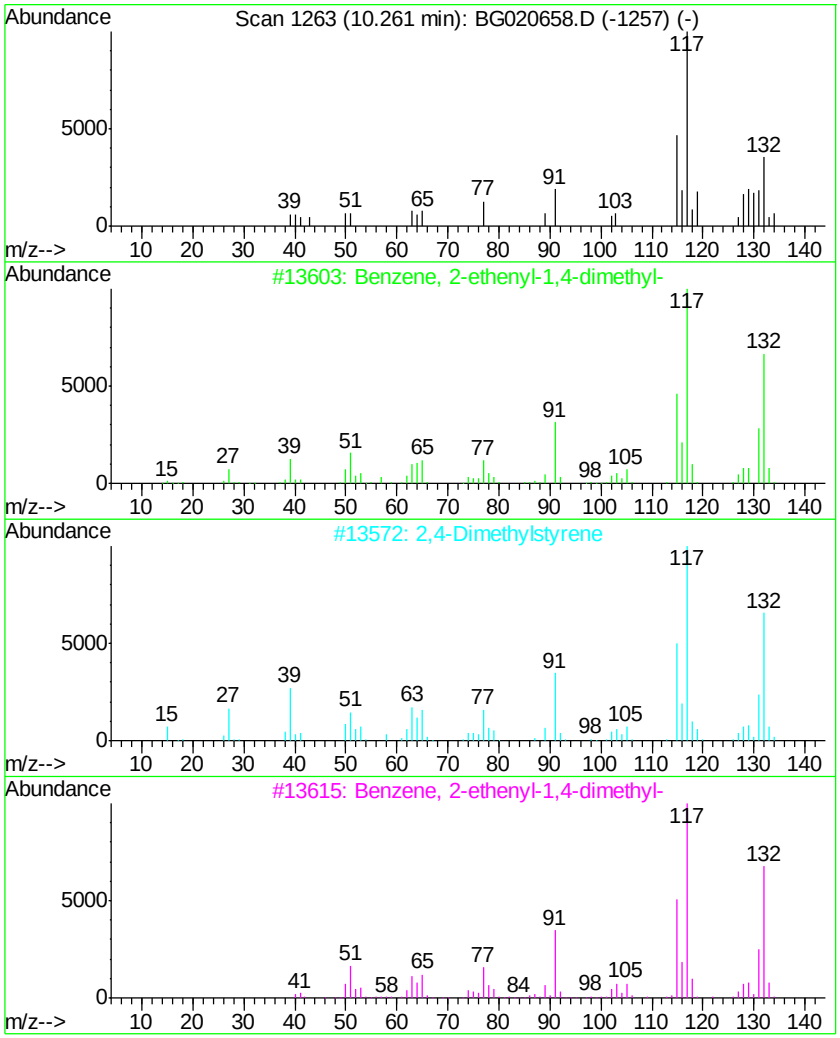
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

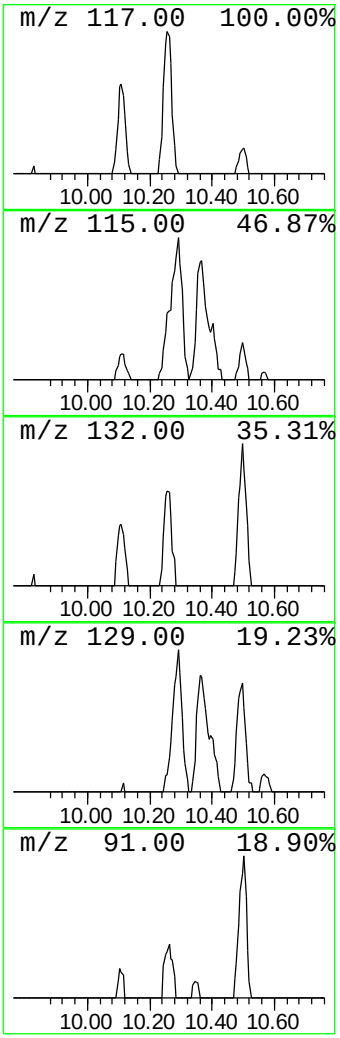
****

Peak Number 8 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.26	4.38 ng/ul	26613	Naphthalene-d8	10.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
2	2,4-Dimethylstyrene	132	C10H12	002234-20-0	95
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	93
4	Benzene, 1-butenyl-, (E)-	132	C10H12	001005-64-7	76
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	68





Library Search Compound Report

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Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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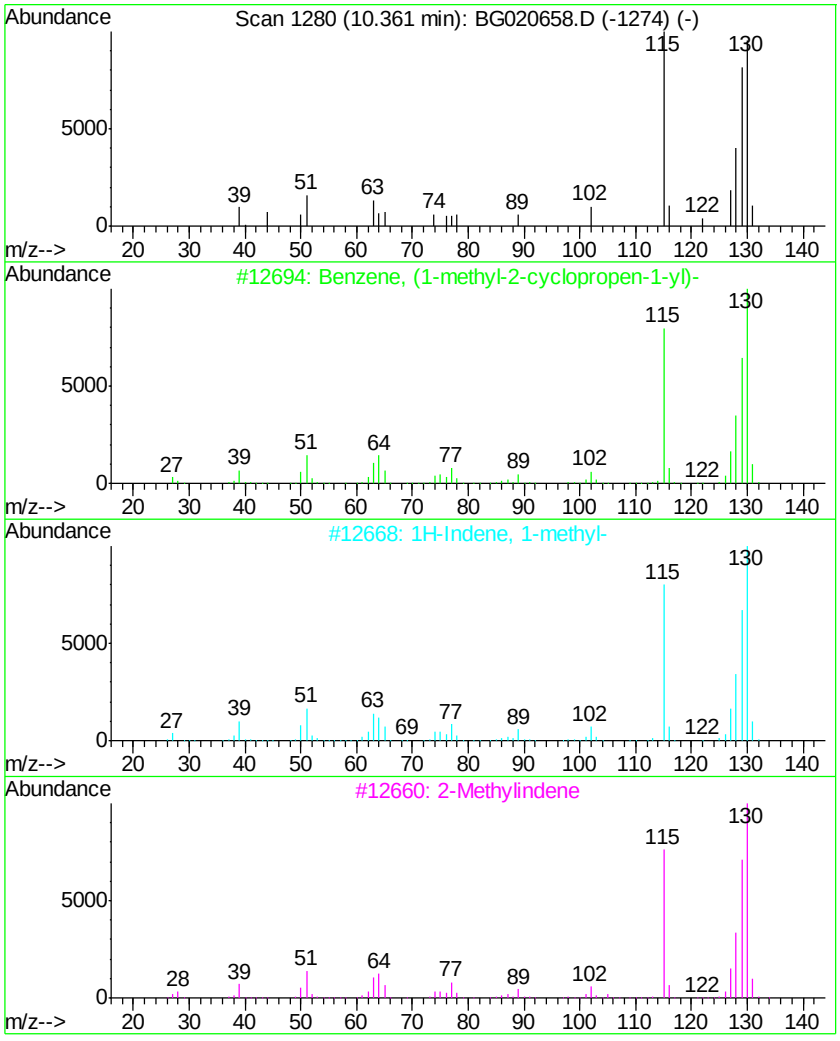
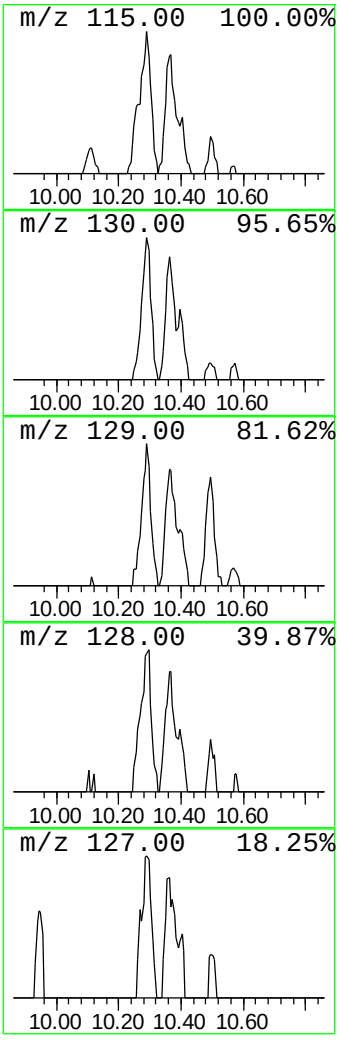
Peak Number 9 Benzene, (1-methyl-2-cyclop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.36	4.52 ng/ul	27479	Naphthalene-d8	10.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	87
2	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	87
3	2-Methylindene	130	C10H10	002177-47-1	87
4	Naphthalene, 1,2-dihydro-	130	C10H10	000447-53-0	87
5	Benzene, 1-butynyl-	130	C10H10	000622-76-4	83





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Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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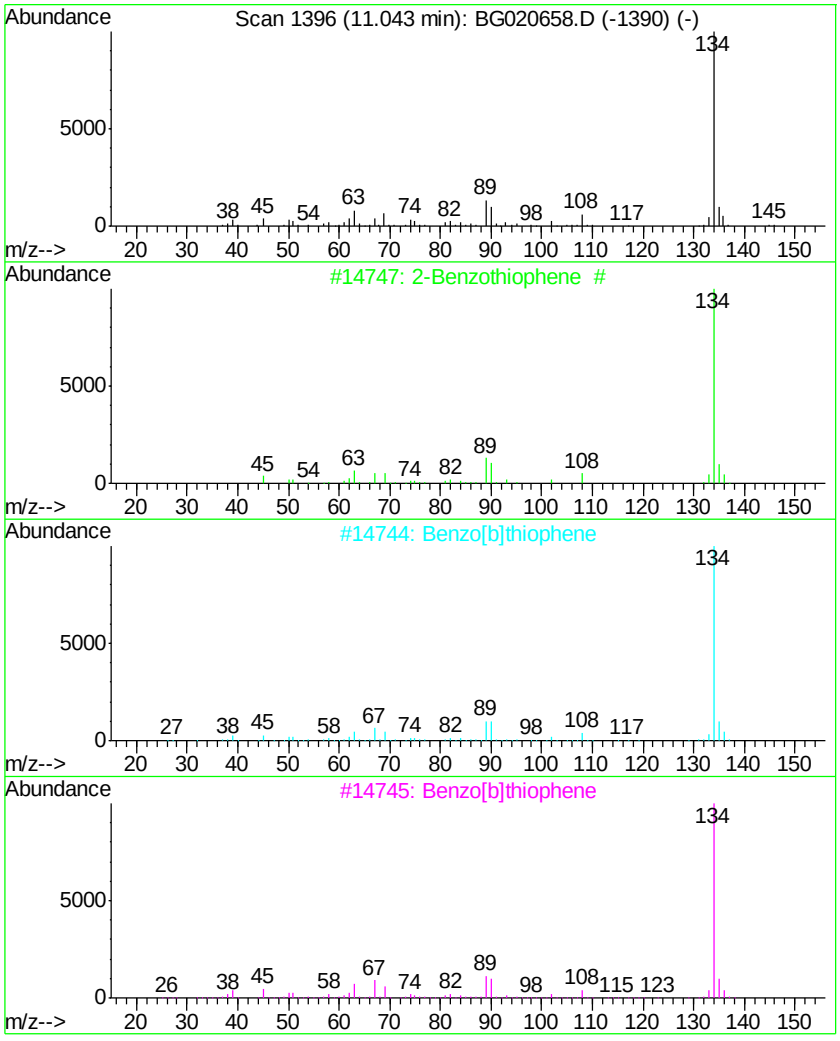
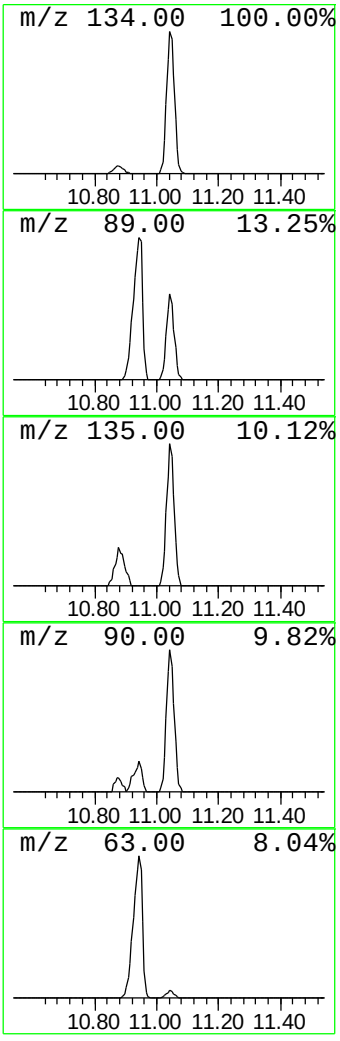
Peak Number 10 2-Benzothiophene # Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.04	41.10 ng/ul	249672	Naphthalene-d8	10.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Benzothiophene #	134	C8H6S	000270-82-6	97
2	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
3	Benzo[b]thiophene	134	C8H6S	000095-15-8	94
4	Benzo[b]thiophene	134	C8H6S	000095-15-8	94
5	Cyclopenta[c]thiapyran	134	C8H6S	000270-63-3	90





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ClientSampleId : D9N65

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Quant Title : SVOA CALIBRATION

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

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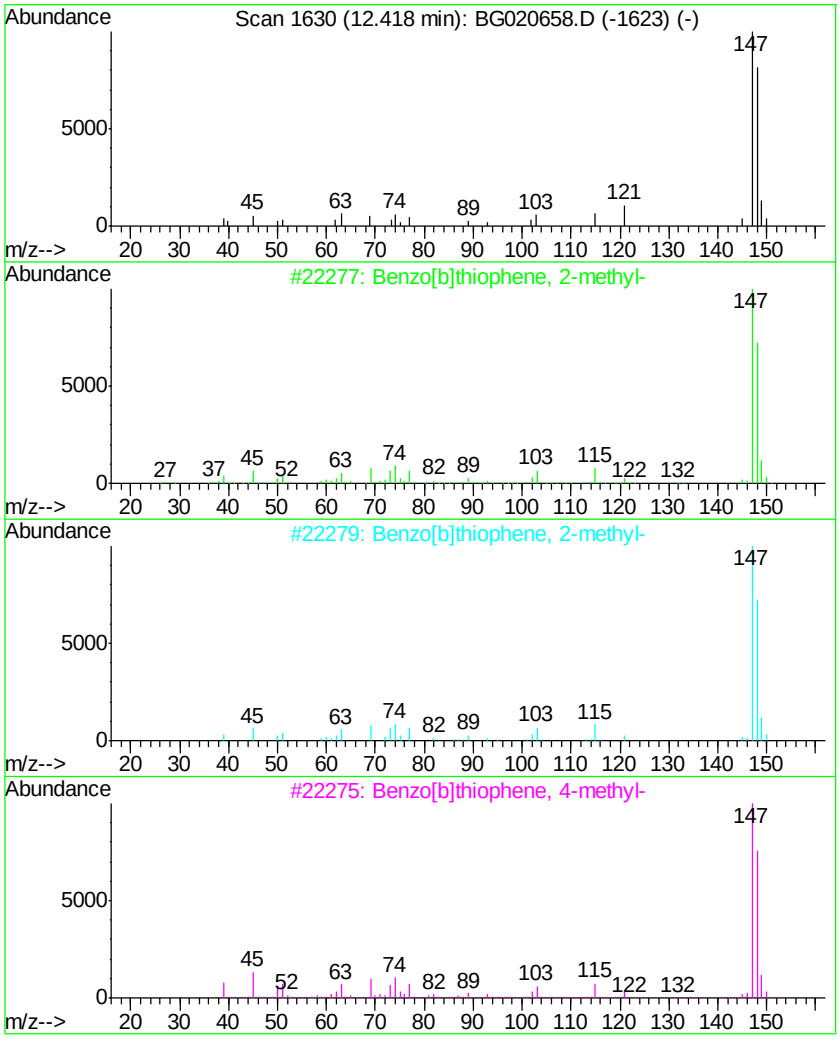
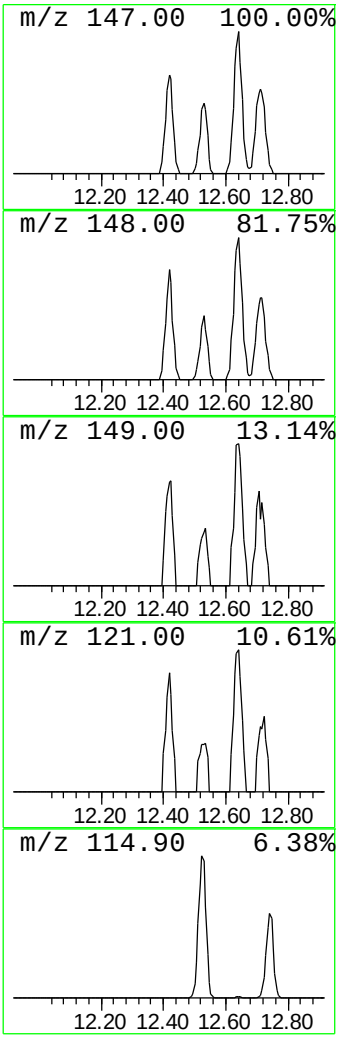
Peak Number 11 Benzo[b]thiophene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	5.70 ng/ul	34616	Naphthalene-d8	10.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	91
2	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	91
3	Benzo[b]thiophene, 4-methyl-	148	C9H8S	014315-11-8	91
4	3-Methylbenzothiophene	148	C9H8S	001455-18-1	91
5	3-Methylbenzothiophene	148	C9H8S	001455-18-1	90





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Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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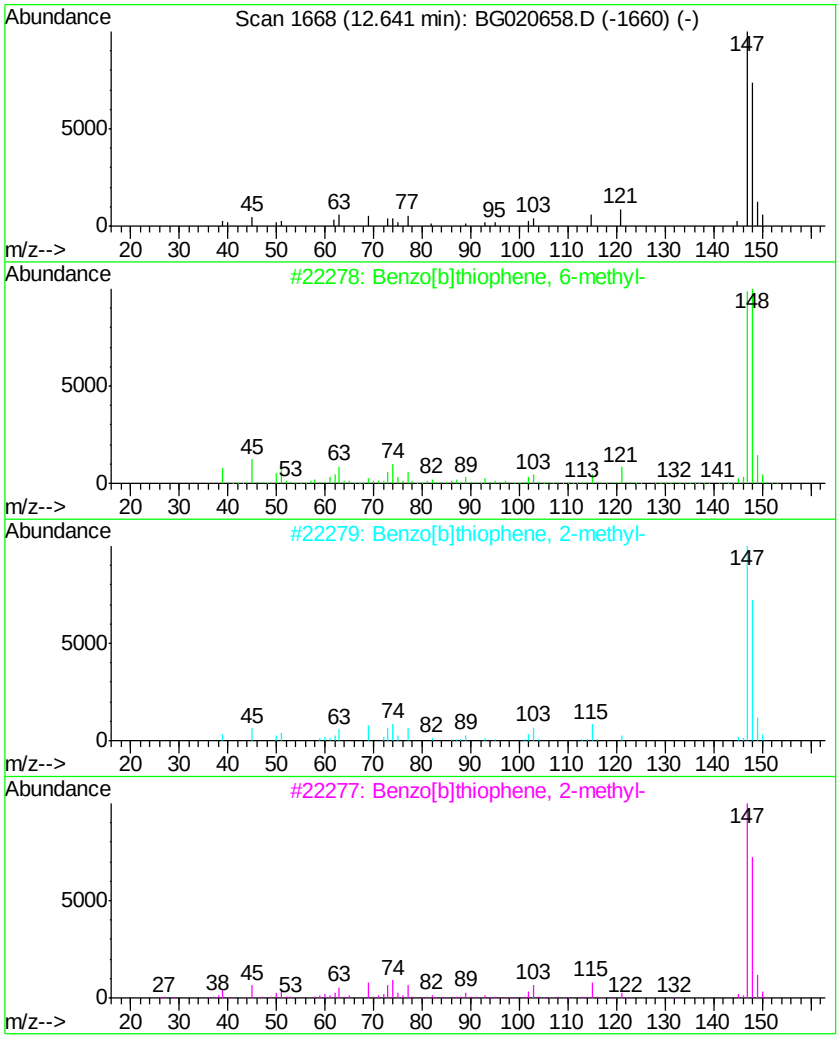
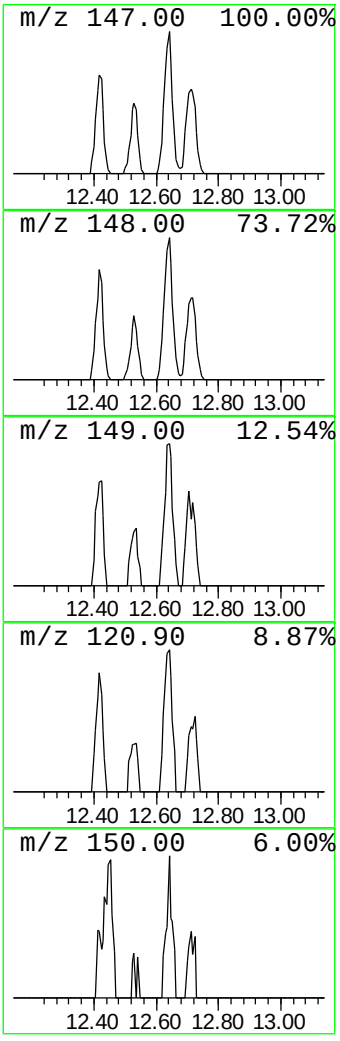
Peak Number 12 Benzo[b]thiophene, 6-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	8.62 ng/ul	52342	Naphthalene-d8	10.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 6-methyl-	148	C9H8S	016587-47-6	91
2	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	91
3	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	91
4	3-Methylbenzothiophene	148	C9H8S	001455-18-1	91
5	3-Methylbenzothiophene	148	C9H8S	001455-18-1	87





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Quant Title : SVOA CALIBRATION

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

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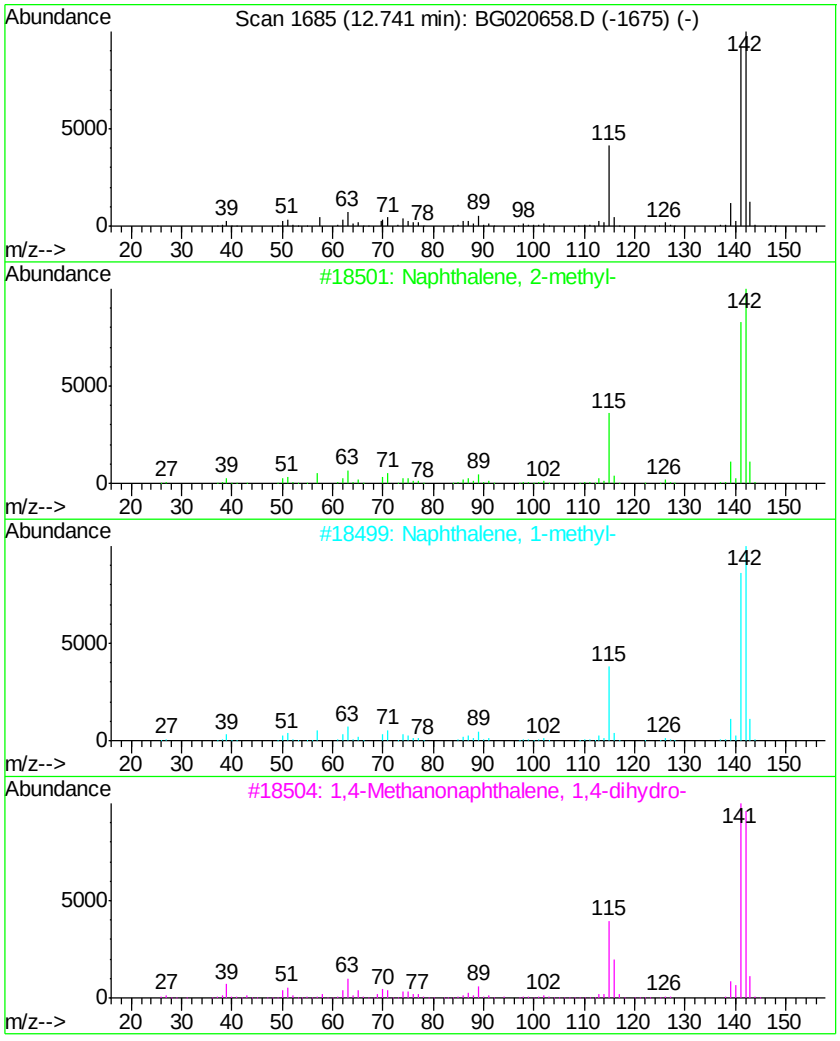
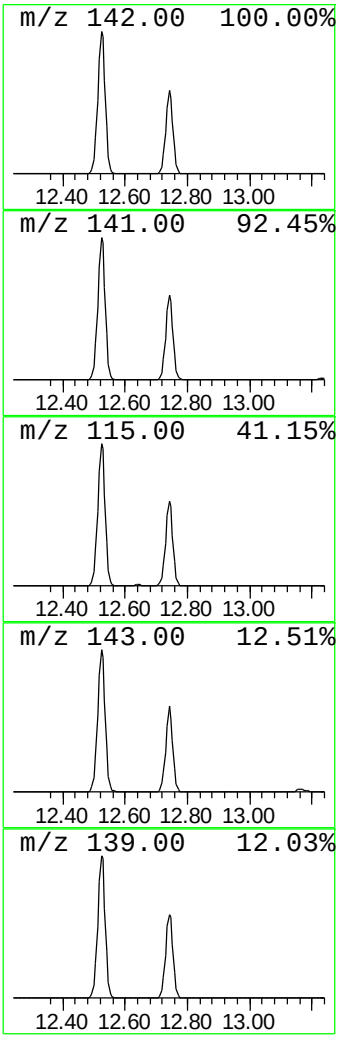
Peak Number 13 Naphthalene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.74	147.10 ng/ul	893553	Naphthalene-d8	10.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
4	Benzocycloheptatriene	142	C11H10	000264-09-5	94
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94





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Instrument : BNA_G
ClientSampleId : D9N65

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Quant Title : SVOA CALIBRATION

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

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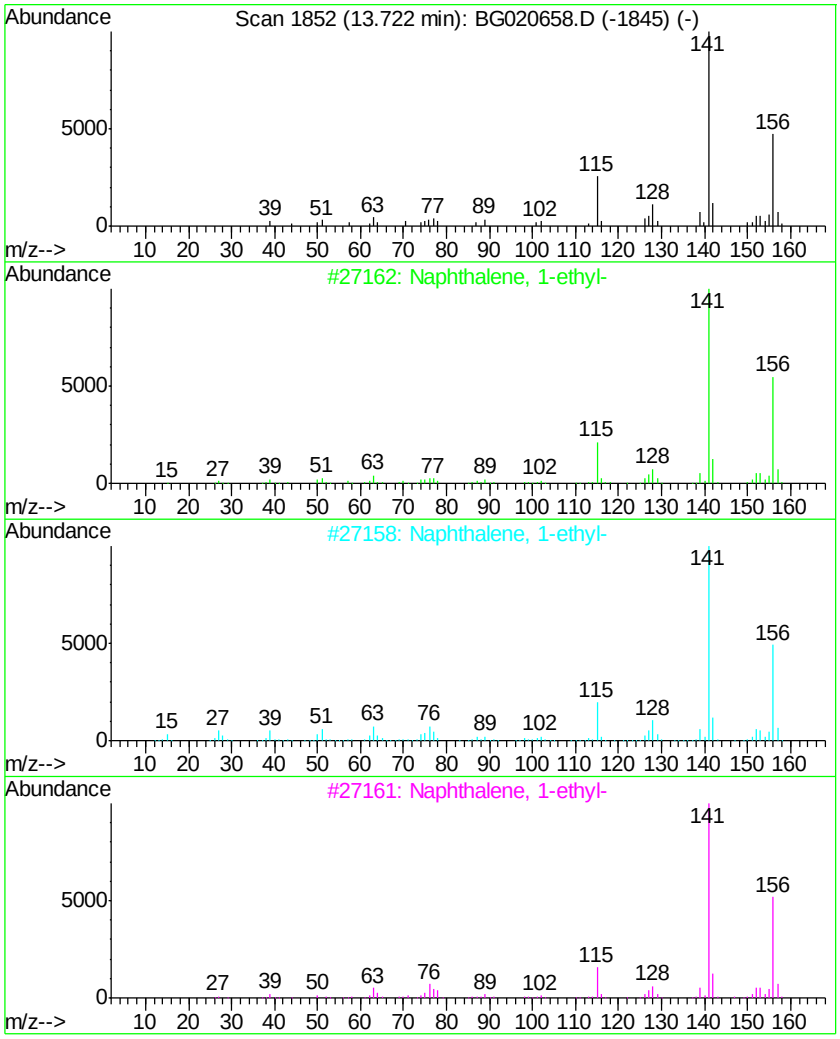
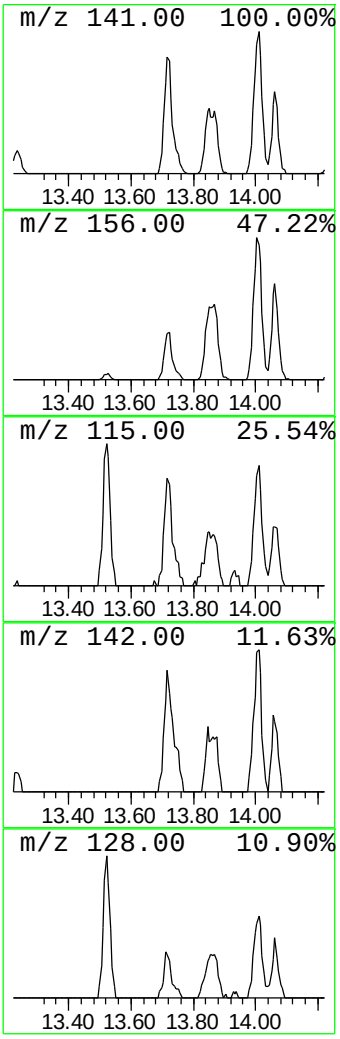
Peak Number 14 Naphthalene, 1-ethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.72	6.48 ng/ul	78188	Acenaphthene-d10	14.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	94
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	93
3	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	91
4	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	91
5	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	90





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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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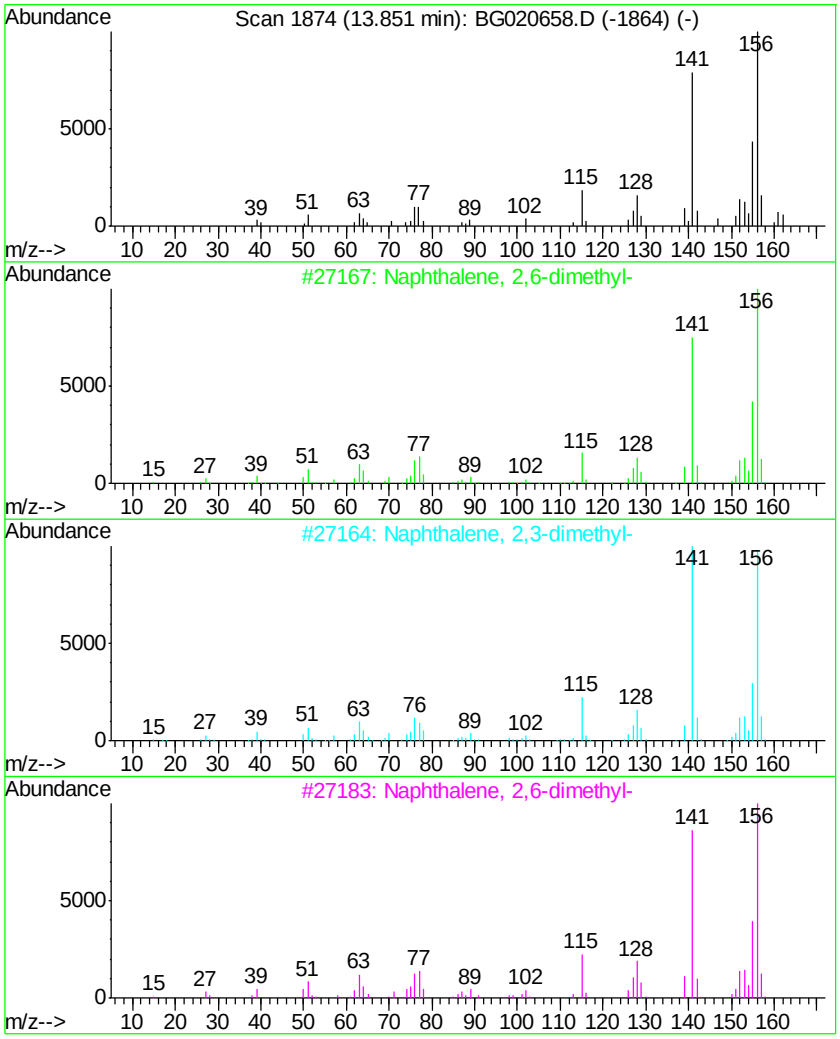
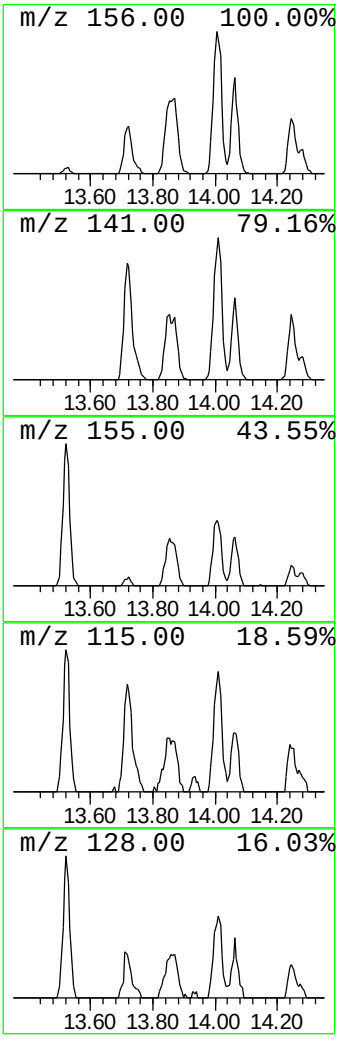
Peak Number 15 Naphthalene, 2,6-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.85	5.05 ng/ul	61000	Acenaphthene-d10	14.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95





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Quant Title : SVOA CALIBRATION

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

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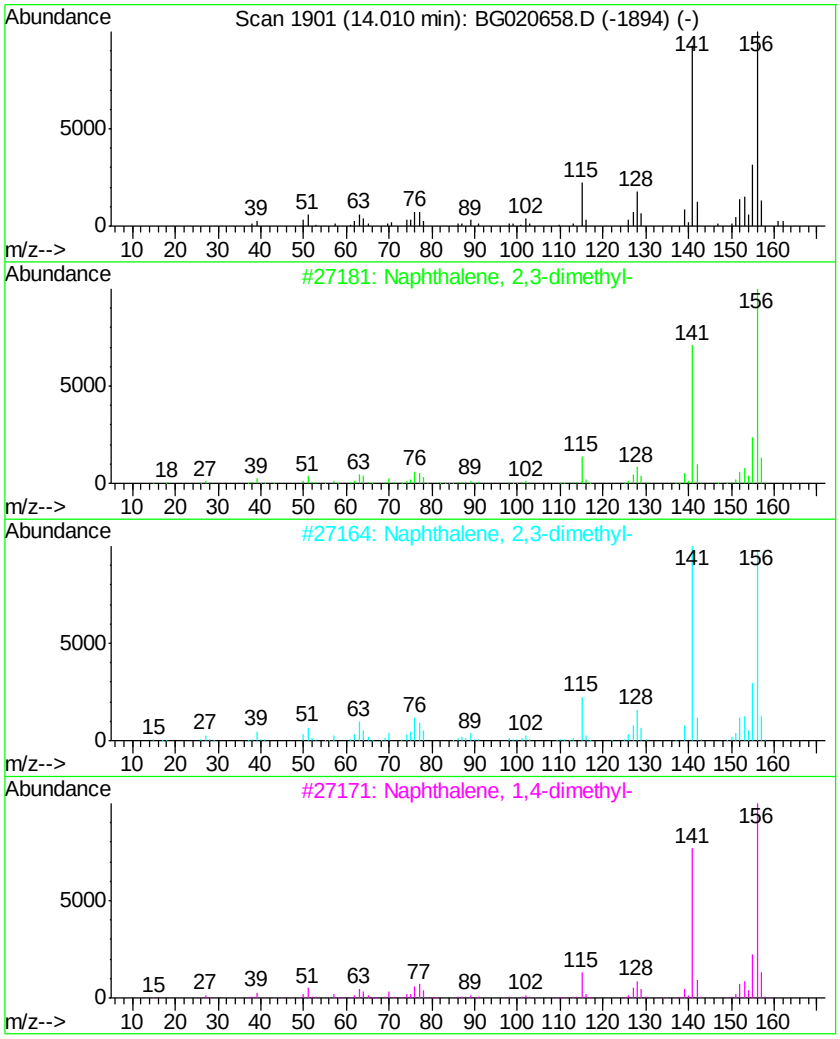
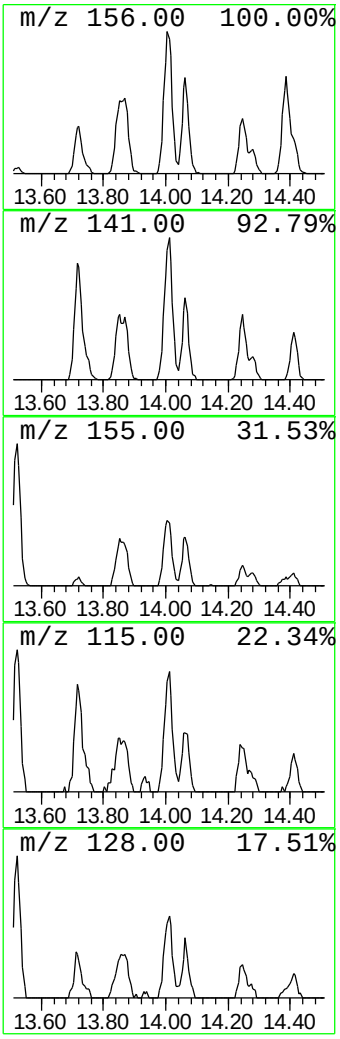
Peak Number 16 Naphthalene, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.01	11.99 ng/ul	144748	Acenaphthene-d10	14.69

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	96
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95





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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 2-Naphthalenecarbonitrile Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.82	13.68 ng/ul	165093	Acenaphthene-d10	14.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenecarbonitrile	153	C11H7N	000613-46-7	97
2	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	97
3	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	91
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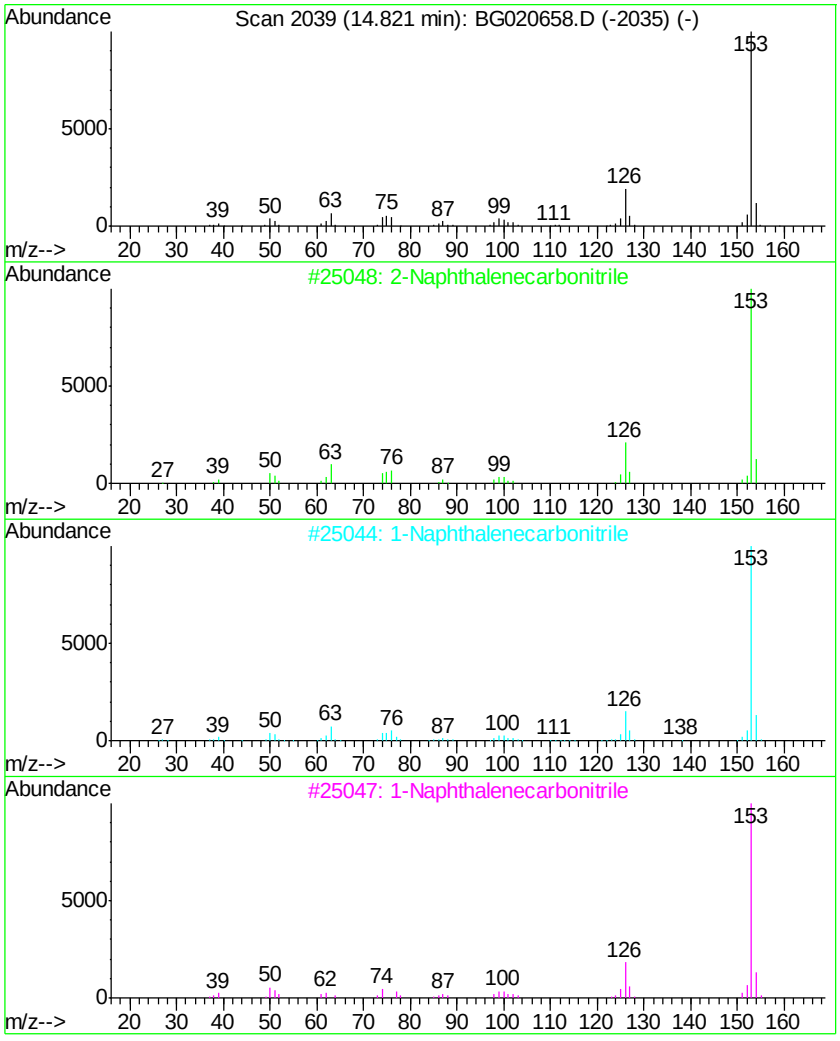

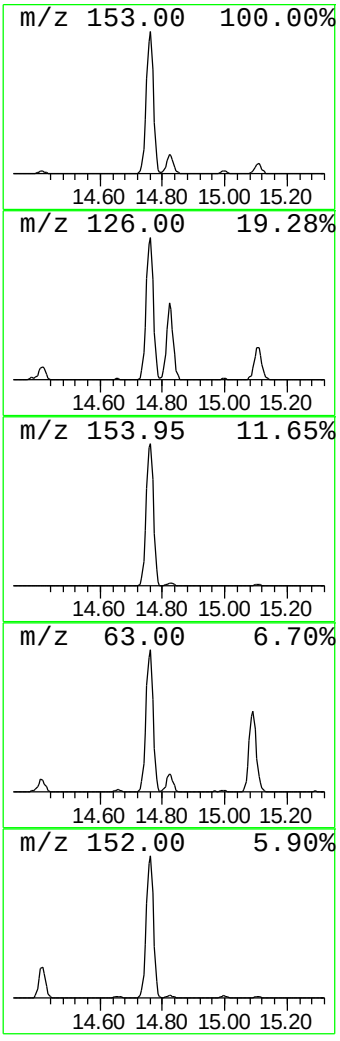

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Quant Title : SVOA CALIBRATION

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

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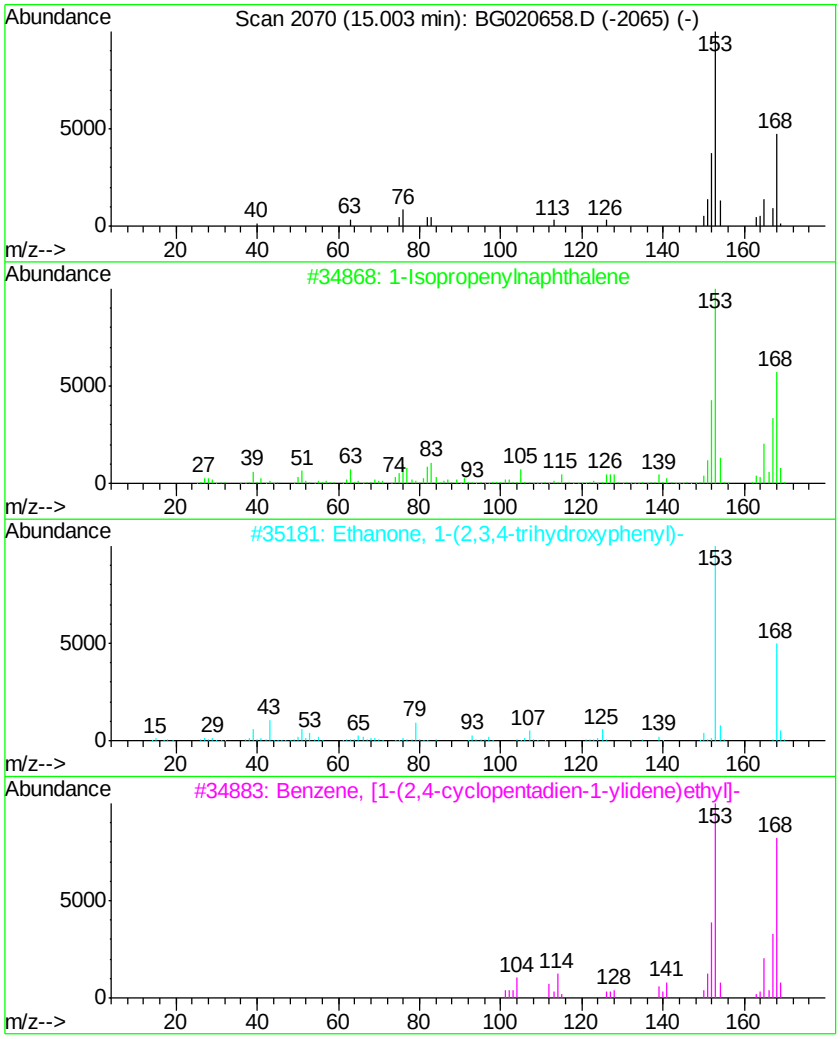
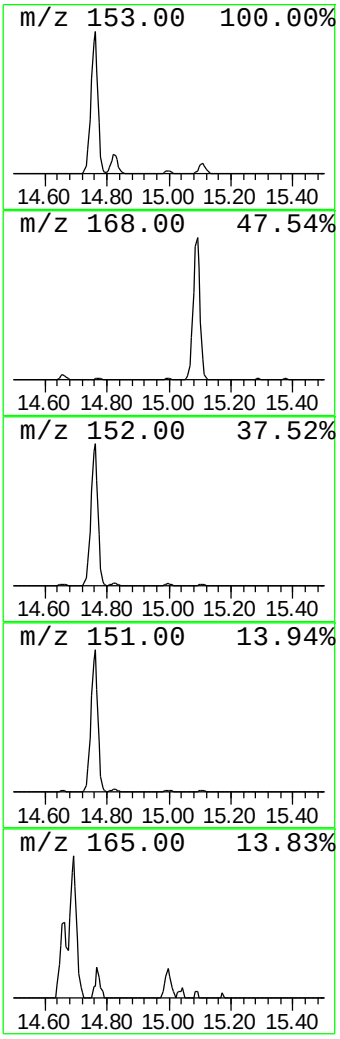
Peak Number 19 1-Isopropenylnaphthalene Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	2.16 ng/ul	26056	Acenaphthene-d10	14.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	53
2	Ethanone, 1-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	47
3	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	40
4	Ethanone, 1-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	28
5	Acetophenone, 3'-fluoro-4'-methoxy-	168	C9H9FO2	000455-91-4	28





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Quant Title : SVOA CALIBRATION

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

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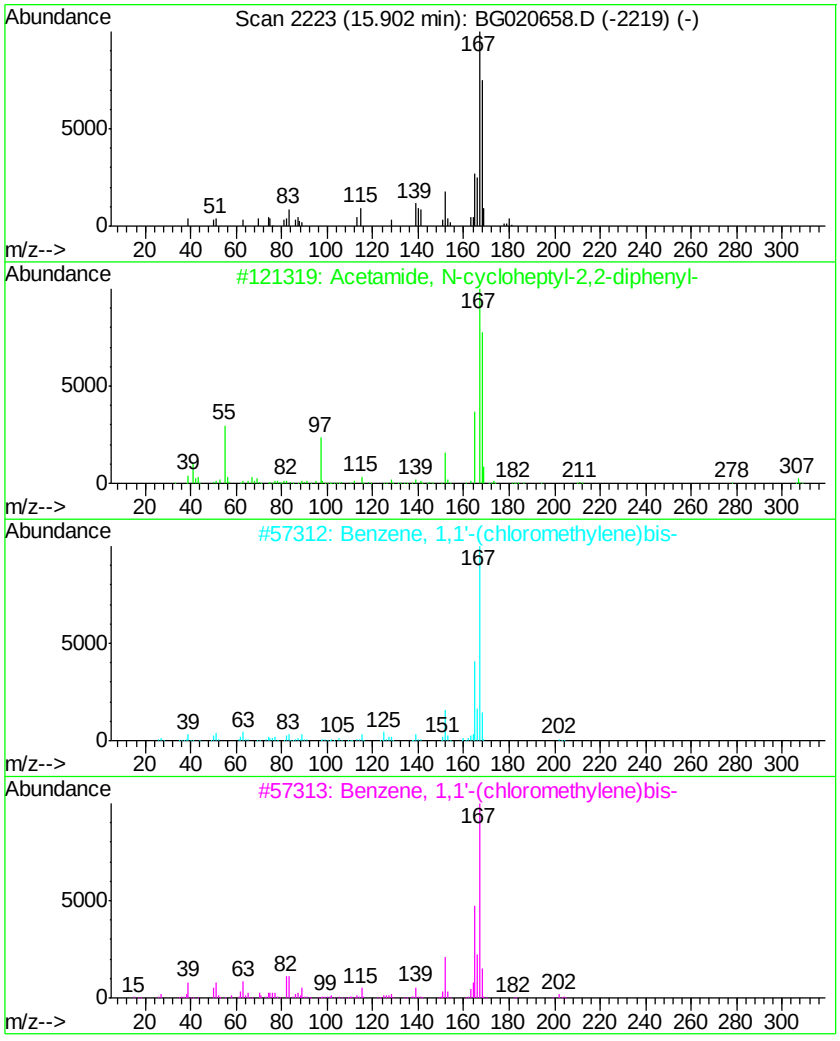
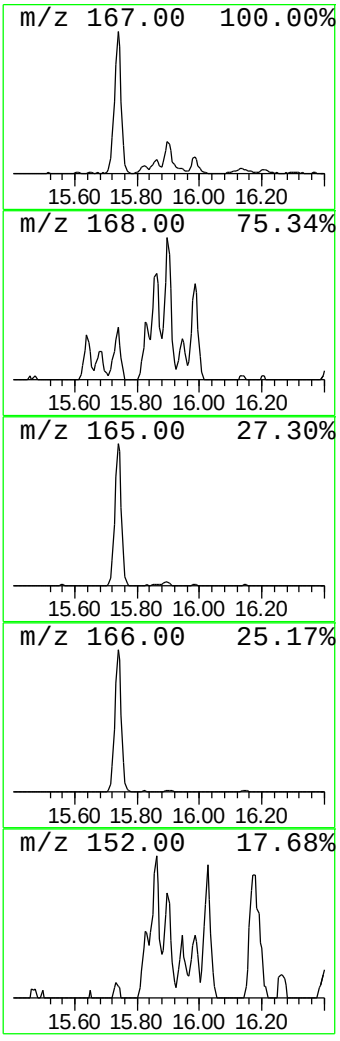
Peak Number 21 Acetamide, N-cycloheptyl-2,... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.90	5.44 ng/ul	65709	Acenaphthene-d10	14.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide, N-cycloheptyl-2,2-dip...	307	C21H25NO	351062-01-6	59
2	Benzene, 1,1'-(chloromethylene)bis-	202	C13H11Cl	000090-99-3	50
3	Benzene, 1,1'-(chloromethylene)bis-	202	C13H11Cl	000090-99-3	50
4	6-Methoxy-3-nitro-2-picoline	168	C7H8N2O3	005467-69-6	50
5	Benzene, 1,1'-(bromomethylene)bis-	246	C13H11Br	000776-74-9	50





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ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

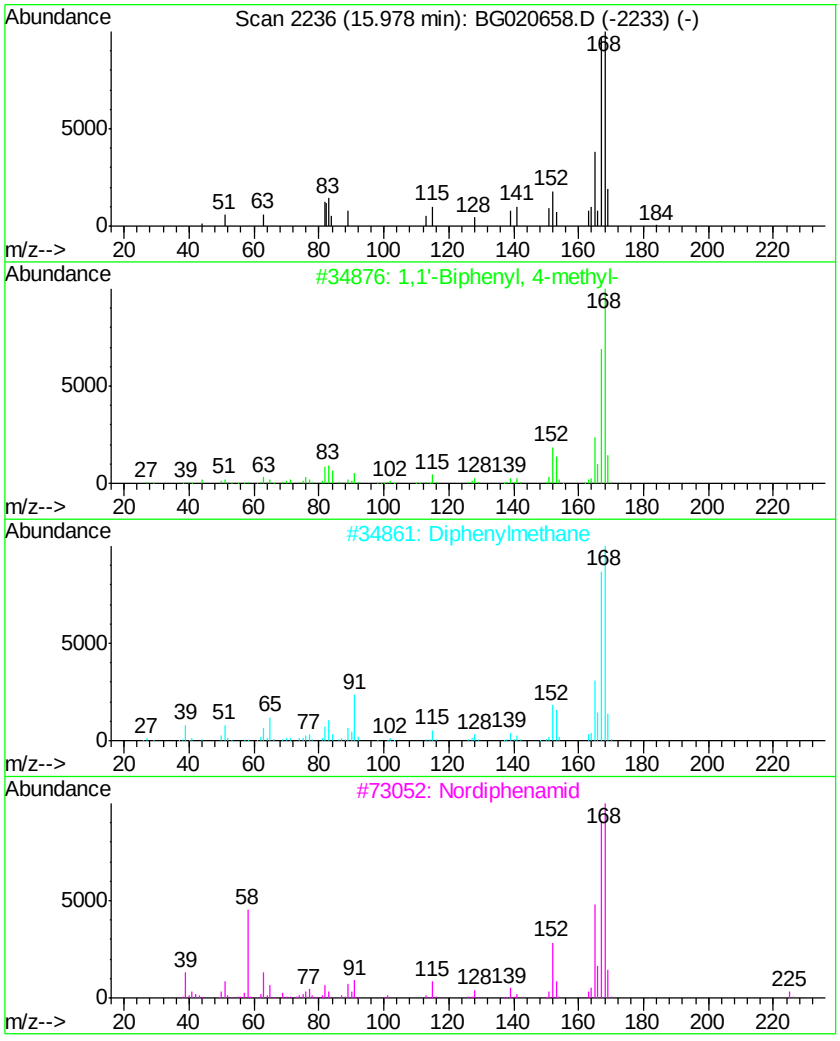
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

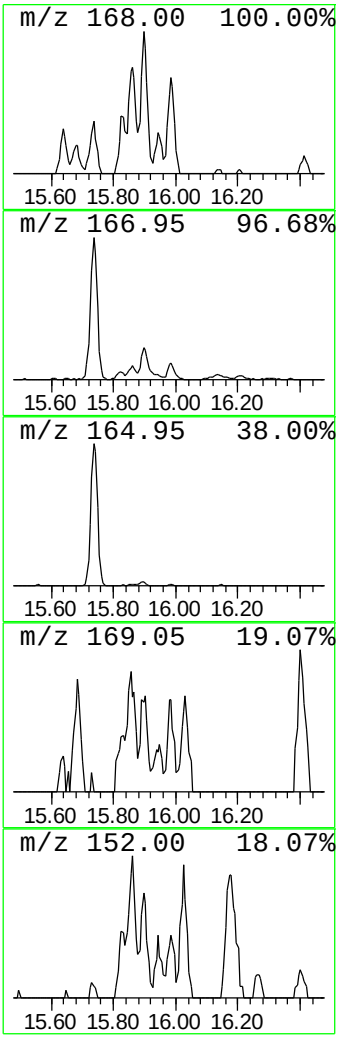
****

Peak Number 22 1,1'-Biphenyl, 4-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.98	2.34 ng/ul	28221	Acenaphthene-d10	14.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	87
2	Diphenylmethane	168	C13H12	000101-81-5	80
3	Nordiphenamid	225	C15H15NO	000954-21-2	78
4	1,1-Diphenyl-2-propanol	212	C15H16O	029338-49-6	78
5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	74





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Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

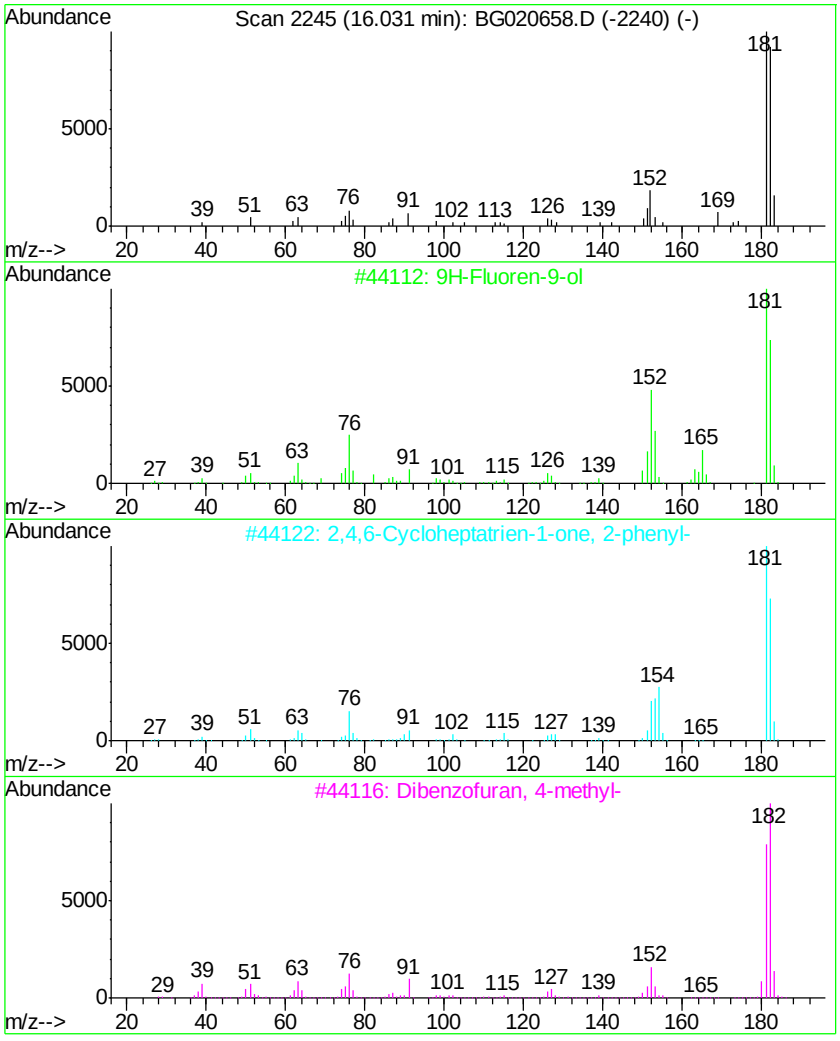
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

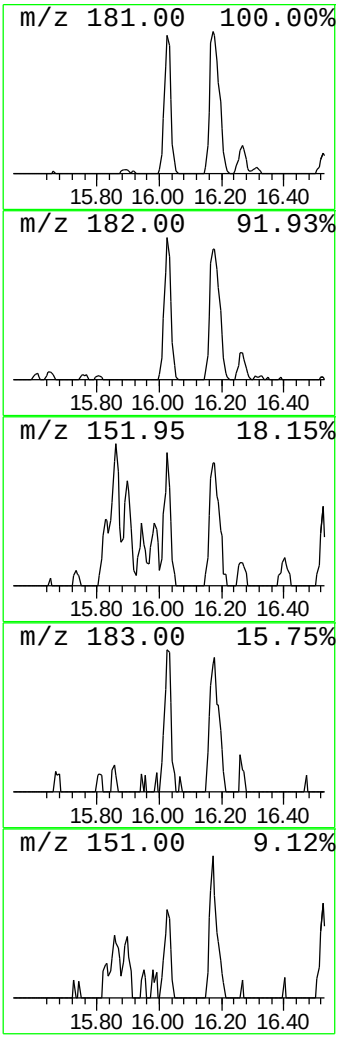
****

Peak Number 23 9H-Fluoren-9-ol Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.03	4.00 ng/ul	48329	Acenaphthene-d10	14.69

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





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Acq On : 5 Jan 2016 17:05
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Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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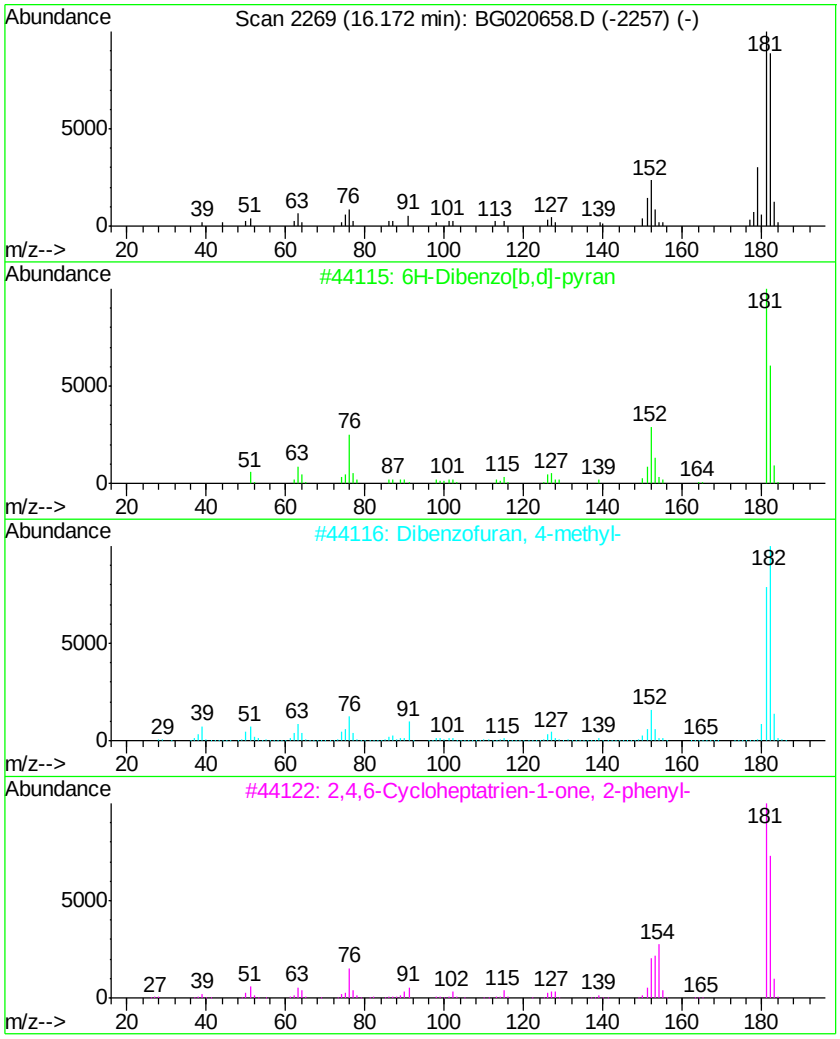
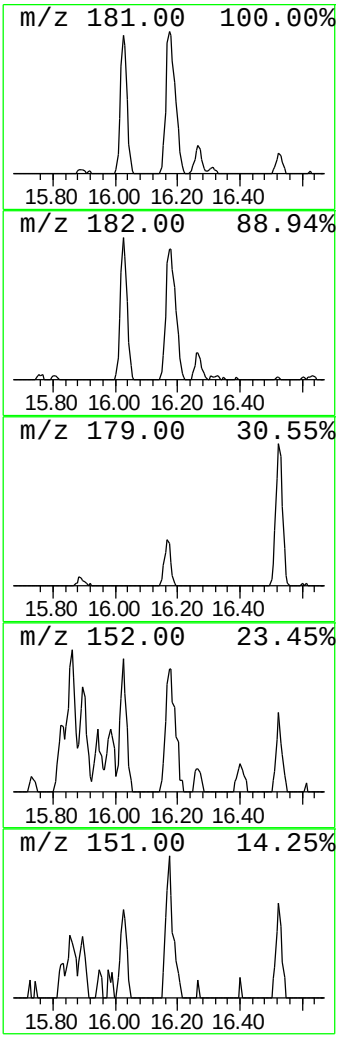
Peak Number 24 6H-Dibenzo[b,d]-pyran Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.17	5.37 ng/ul	87381	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	87
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	74
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	72
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	72
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	52





Library Search Compound Report

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Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

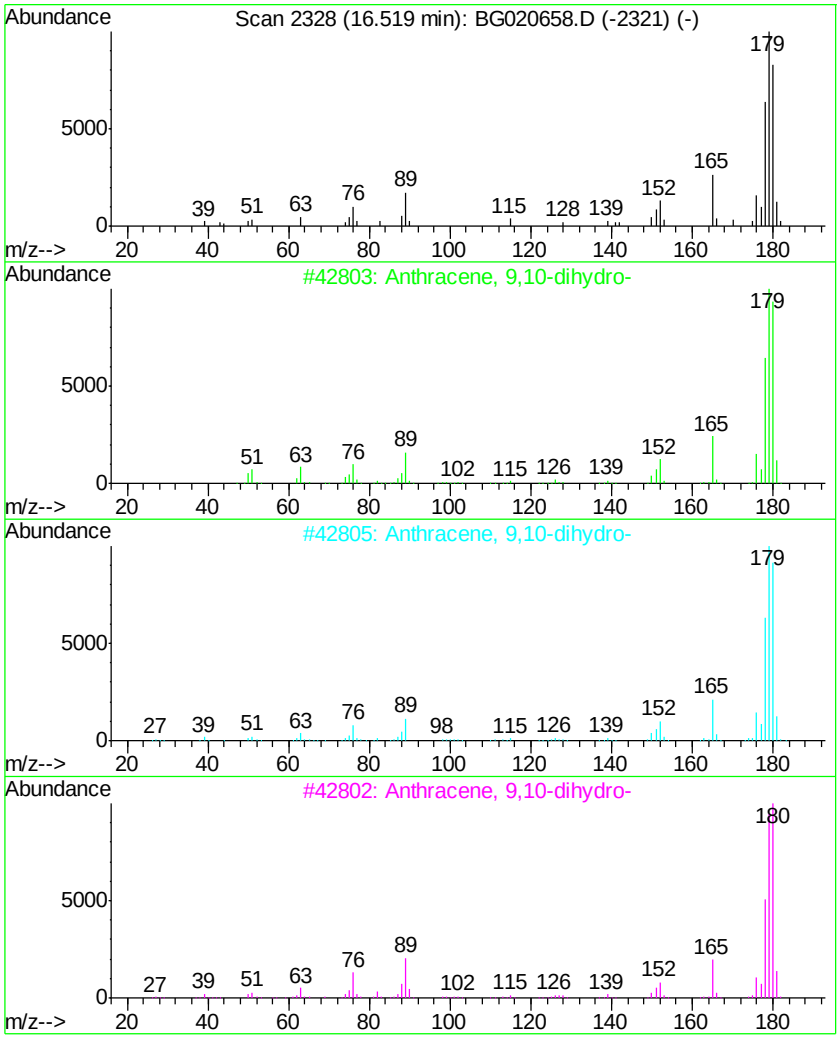
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

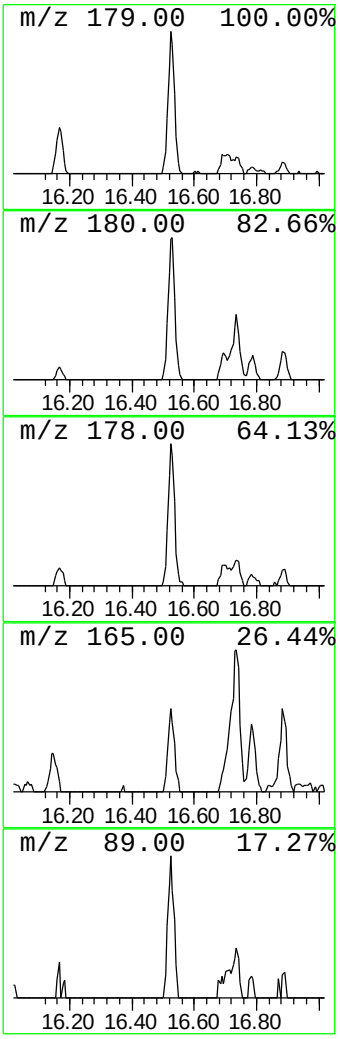
****

Peak Number 25 Anthracene, 9,10-dihydro- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.52	3.86 ng/ul	62921	Phenanthrene-d10	17.44

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	96
3	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
4	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
5	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	64





Library Search Compound Report

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Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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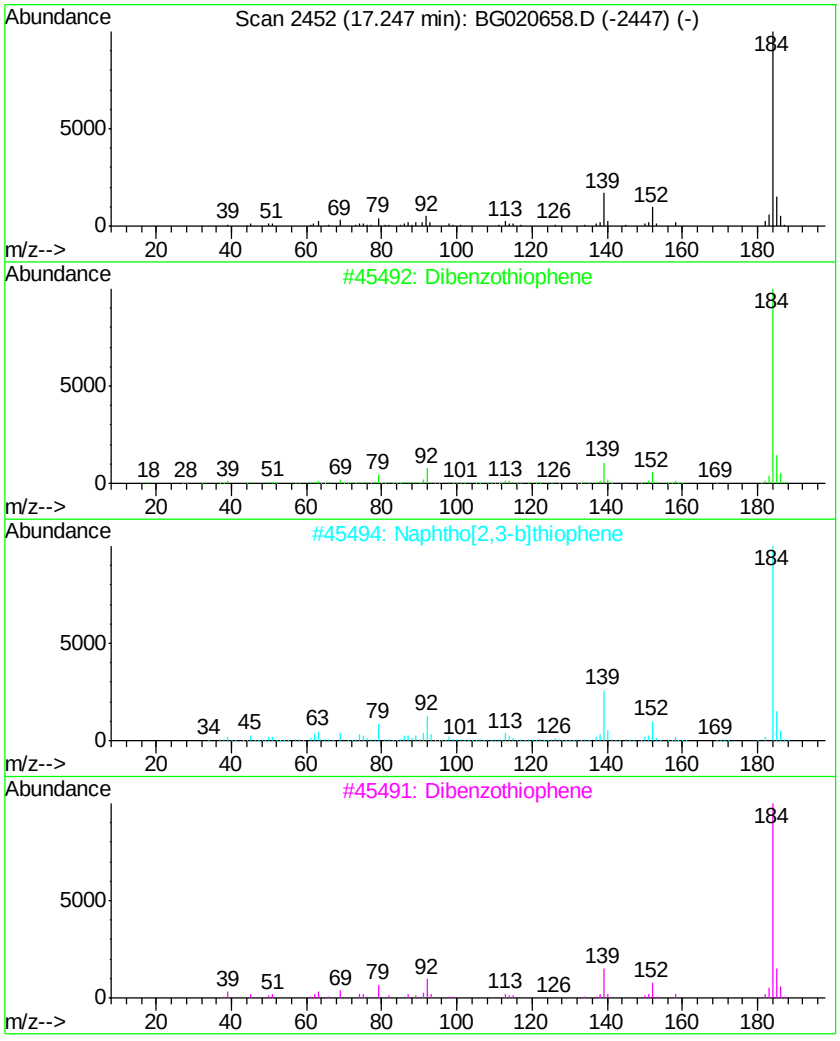
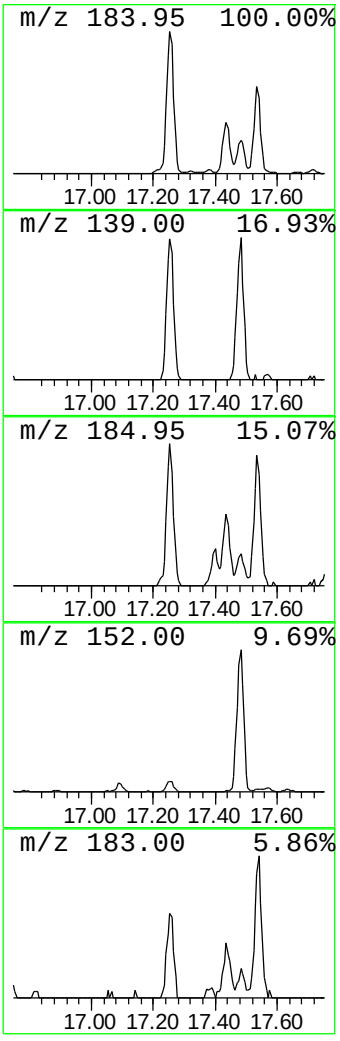
Peak Number 26 Dibenzothiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.25	7.11 ng/ul	115878	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Dibenzothiophene	184	C12H8S	000132-65-0	95
4	Dibenzothiophene	184	C12H8S	000132-65-0	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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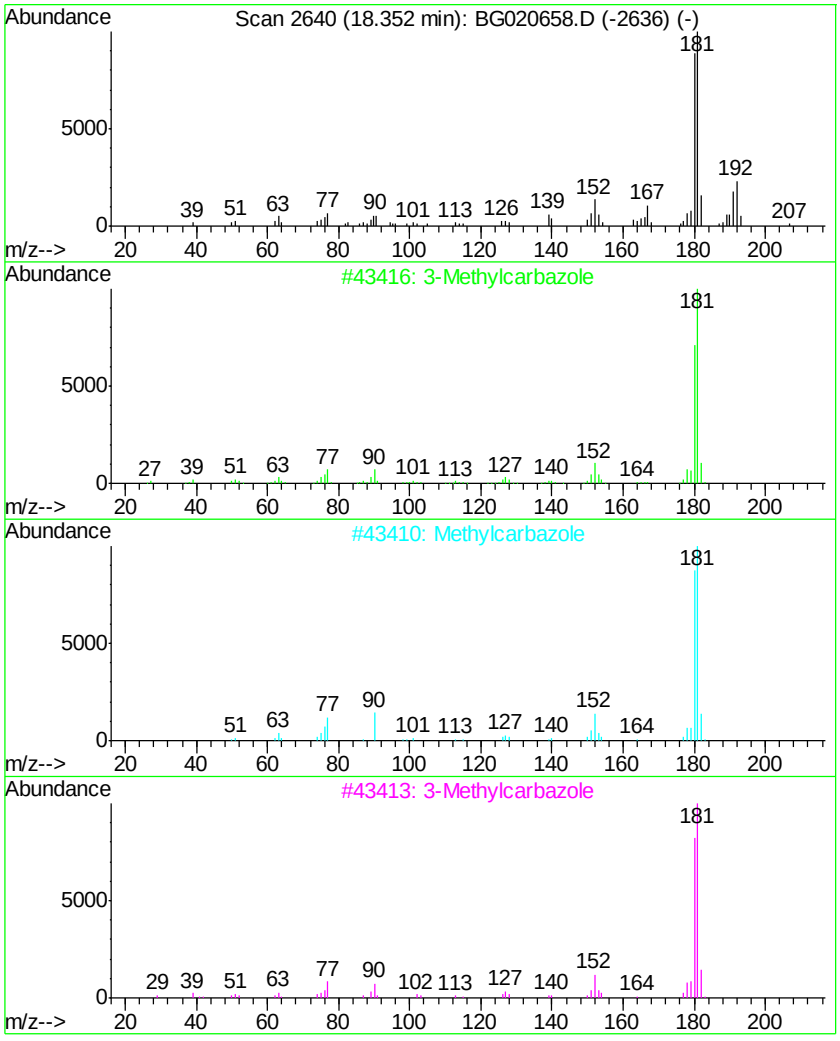
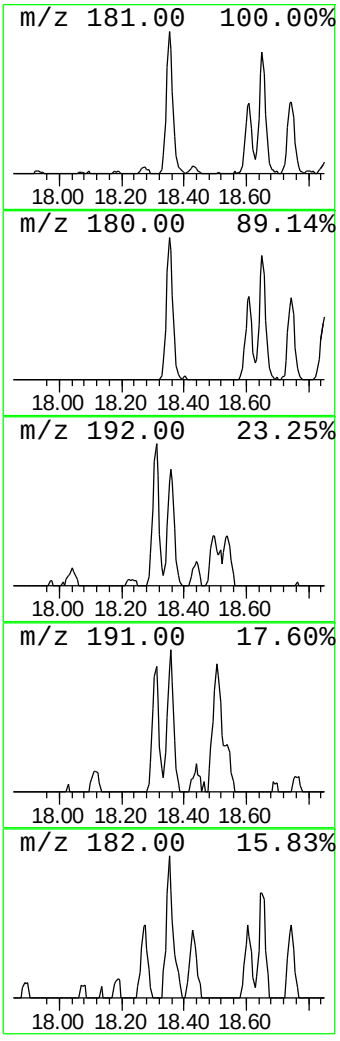
Peak Number 27 3-Methylcarbazole Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.35	5.50 ng/ul	89551	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	95
2	Methylcarbazole	181	C13H11N	027323-29-1	95
3	3-Methylcarbazole	181	C13H11N	004630-20-0	94
4	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	93
5	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	90





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Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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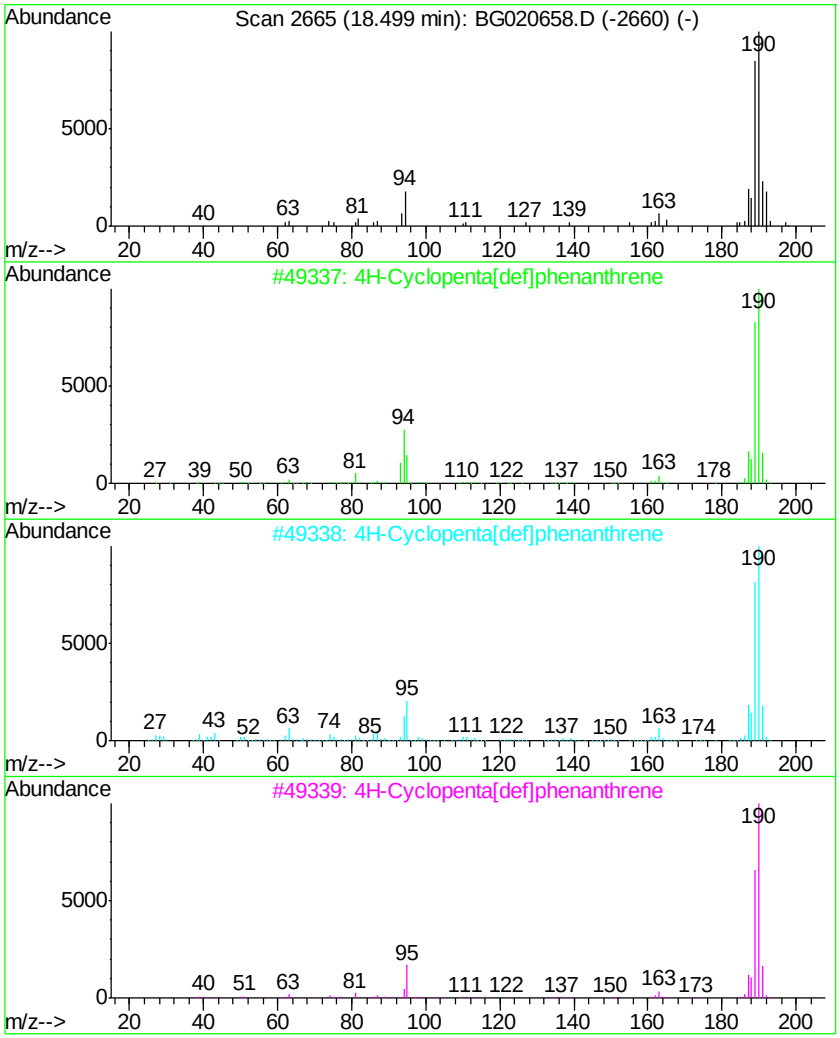
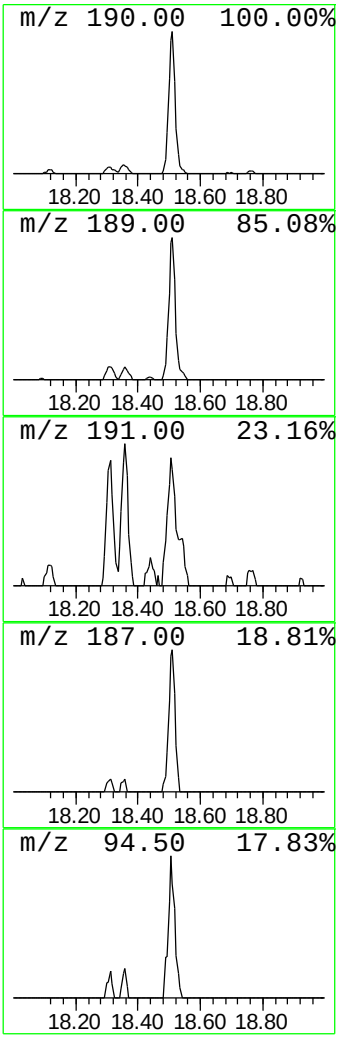
Peak Number 28 4H-Cyclopenta[def]phenanthrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.50	4.92 ng/ul	80134	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
4	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	72
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	56





Library Search Compound Report

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Acq On : 5 Jan 2016 17:05
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Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

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Quant Title : SVOA CALIBRATION

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

****

Peak Number 29 9H-Carbazole, 2-methyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.60	2.22 ng/ul	36135	Phenanthrene-d10	17.44

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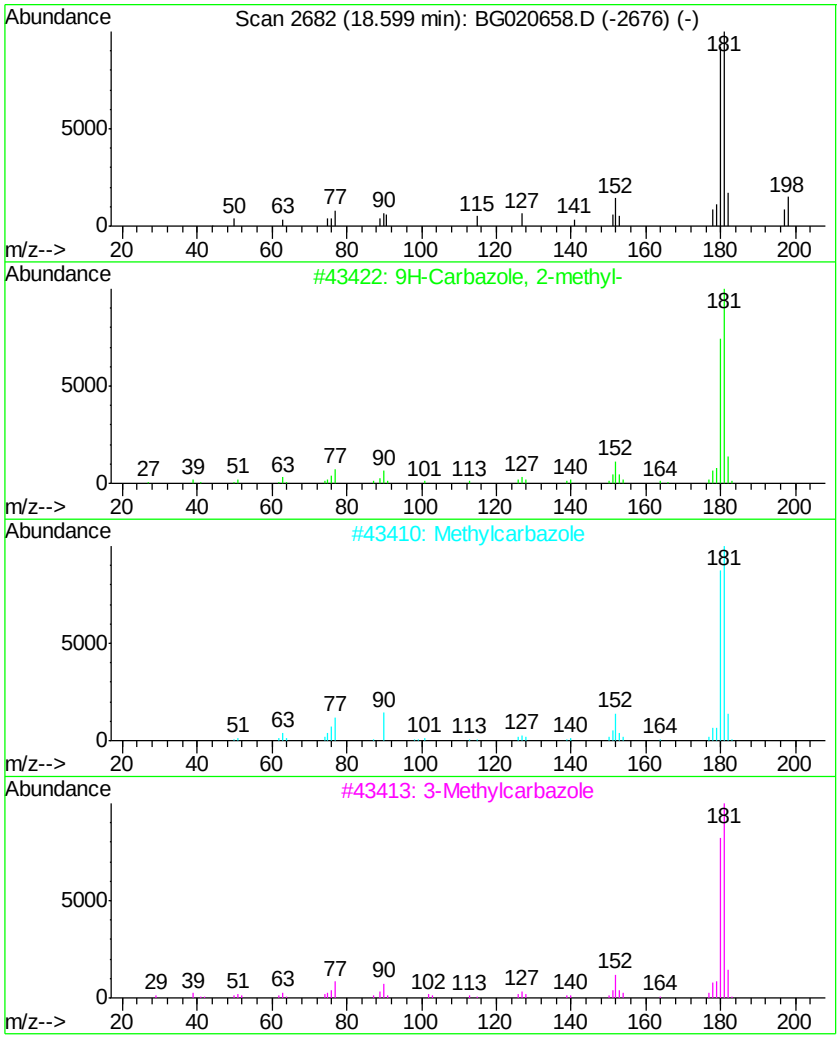
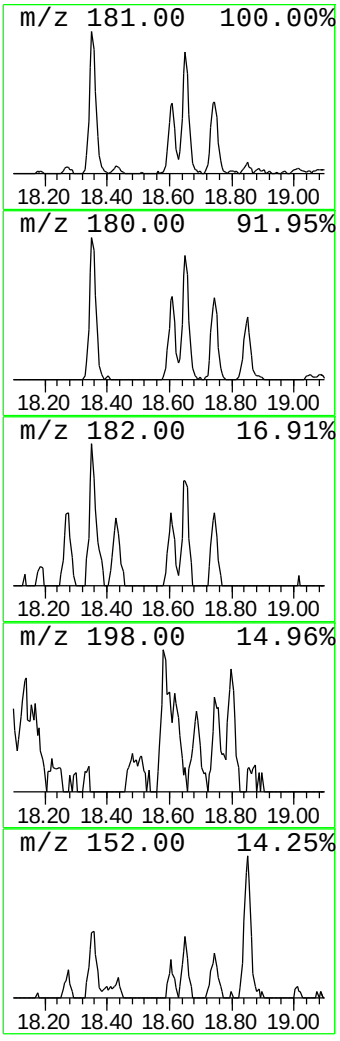
5	3-Methylcarbazole	181	C13H11N	004630-20-0	91





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Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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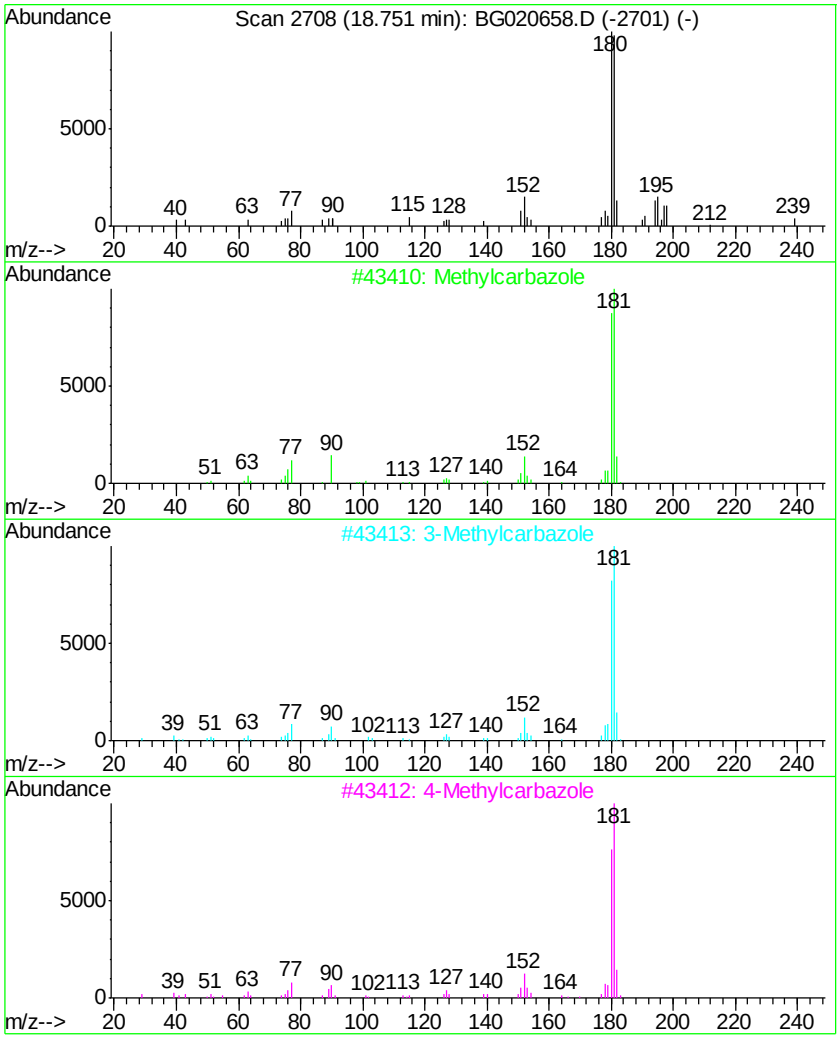
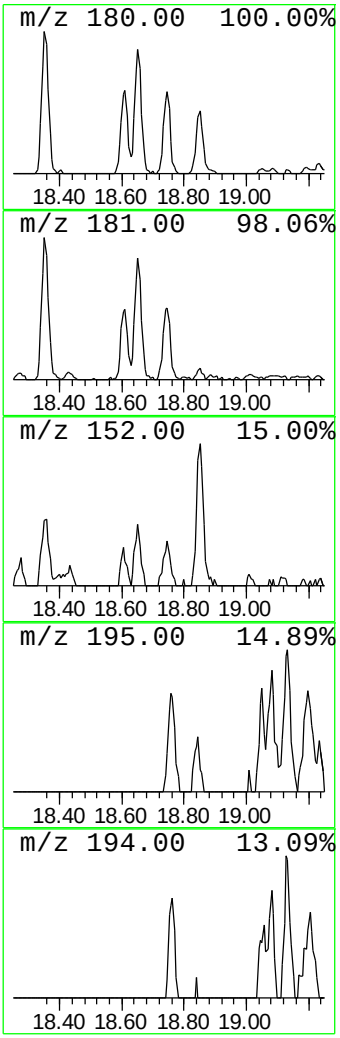
Peak Number 31 Methylcarbazole Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.75	2.36 ng/ul	38363	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylcarbazole	181	C13H11N	027323-29-1	95
2	3-Methylcarbazole	181	C13H11N	004630-20-0	93
3	4-Methylcarbazole	181	C13H11N	003770-48-7	93
4	3-Methylcarbazole	181	C13H11N	004630-20-0	92
5	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	87





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Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

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

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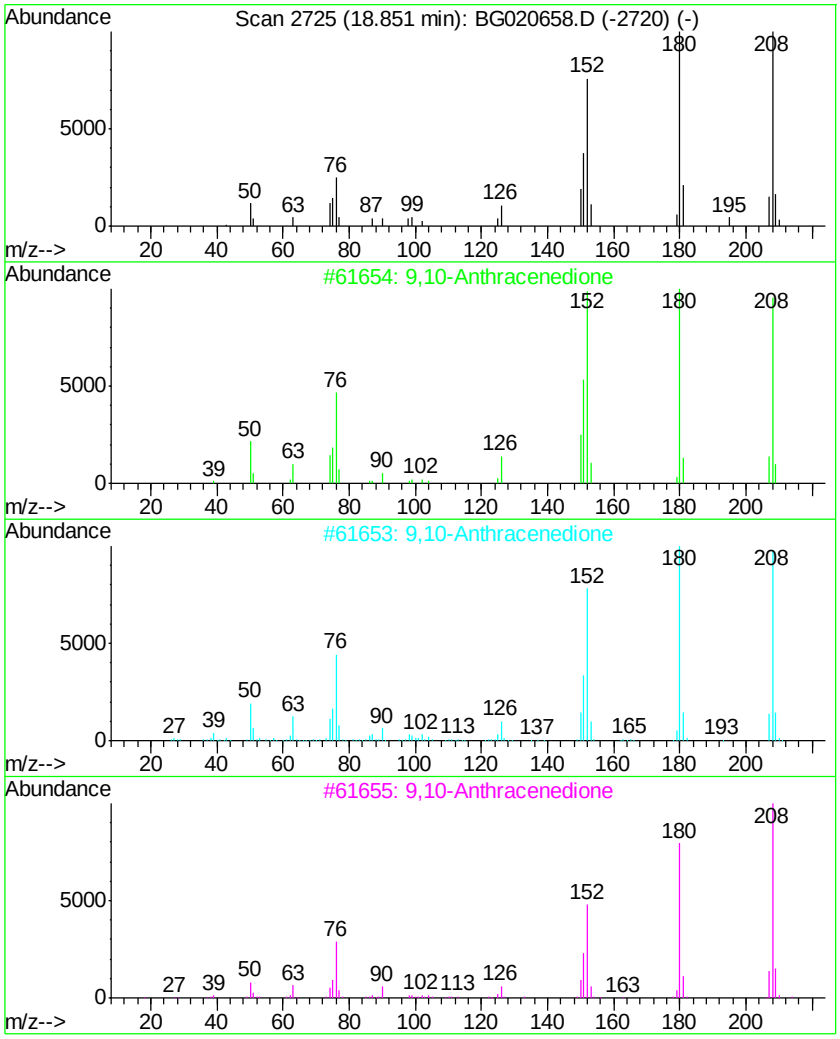
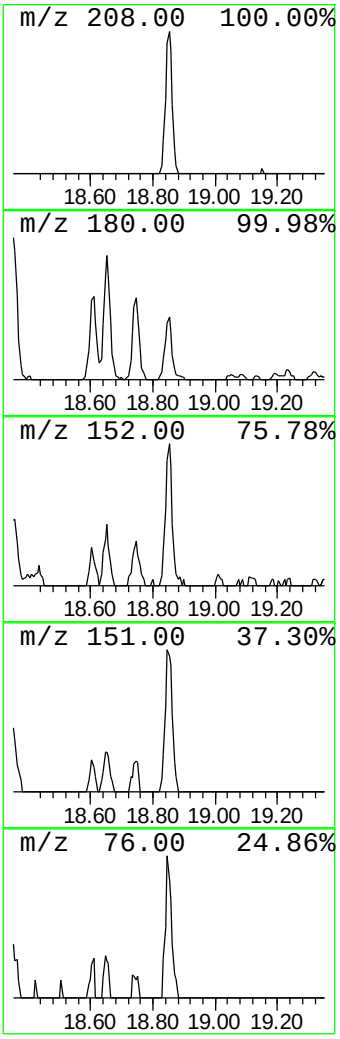
Peak Number 32 9,10-Anthracenedione Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	2.28 ng/ul	37146	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	83
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70





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Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

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ClientSampleId : D9N65

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Quant Title : SVOA CALIBRATION

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

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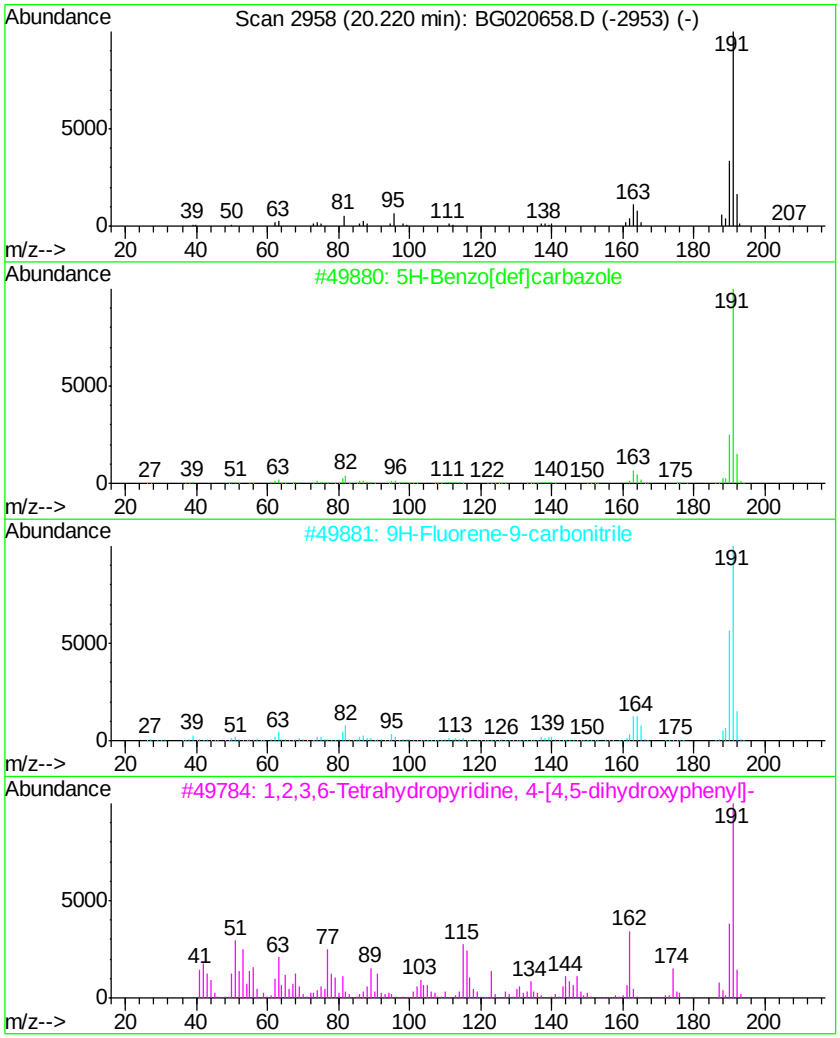
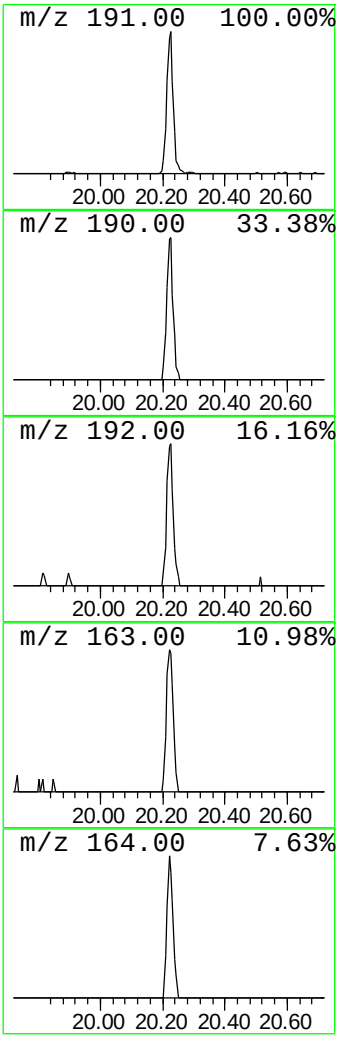
Peak Number 33 5H-Benzo[def]carbazole Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.22	2.58 ng/ul	54323	Chrysene-d12	21.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Benzo[def]carbazole	191	C14H9N	000203-65-6	91
2	9H-Fluorene-9-carbonitrile	191	C14H9N	001529-40-4	64
3	1,2,3,6-Tetrahydropyridine, 4-[4...	191	C11H13NO2	090684-17-6	64
4	9H-Fluorene-9-carbonitrile	191	C14H9N	001529-40-4	59
5	1,2,3,6-Tetrahydropyridine, 4-[4...	191	C11H13NO2	090684-17-6	59





Tentatively Identified Compound (LSC) summary

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Data File : BG020658.D
Acq On : 5 Jan 2016 17:05
Operator : UM/SJ
Sample : G4846-19
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N65

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.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...	3.14	8.1	ng/ul	38560	1	8.05	95037	20.0
Indane	8.42	11.5	ng/ul	54600	1	8.05	95037	20.0
Indene	8.59	58.4	ng/ul	277525	1	8.05	95037	20.0
Benzofuran, 2-met...	9.42	2.4	ng/ul	11426	1	8.05	95037	20.0
Cinnamaldehyde, (E)-	9.54	6.5	ng/ul	39181	2	10.88	121487	20.0
Benzene, 2-etheny...	10.26	4.4	ng/ul	26613	2	10.88	121487	20.0
Benzene, (1-methy...	10.36	4.5	ng/ul	27479	2	10.88	121487	20.0
2-Benzothiophene #	11.04	41.1	ng/ul	249672	2	10.88	121487	20.0
Benzo[b]thiophene...	12.42	5.7	ng/ul	34616	2	10.88	121487	20.0
Benzo[b]thiophene...	12.64	8.6	ng/ul	52342	2	10.88	121487	20.0
Naphthalene, 1-me...	12.74	147.1	ng/ul	893553	2	10.88	121487	20.0
Naphthalene, 1-et...	13.72	6.5	ng/ul	78188	3	14.69	241420	20.0
Naphthalene, 2,6-...	13.85	5.0	ng/ul	61000	3	14.69	241420	20.0
Naphthalene, 2,3-...	14.01	12.0	ng/ul	144748	3	14.69	241420	20.0
2-Naphthalenecarb...	14.82	13.7	ng/ul	165093	3	14.69	241420	20.0
1-Isopropenylnaph...	15.00	2.2	ng/ul	26056	3	14.69	241420	20.0
Acetamide, N-cycl...	15.90	5.4	ng/ul	65709	3	14.69	241420	20.0
1,1'-Biphenyl, 4-...	15.98	2.3	ng/ul	28221	3	14.69	241420	20.0
9H-Fluoren-9-ol	16.03	4.0	ng/ul	48329	3	14.69	241420	20.0
6H-Dibenzo[b,d]-p...	16.17	5.4	ng/ul	87381	4	17.44	325735	20.0
Anthracene, 9,10-...	16.52	3.9	ng/ul	62921	4	17.44	325735	20.0
Dibenzothiophene	17.25	7.1	ng/ul	115878	4	17.44	325735	20.0
3-Methylcarbazole	18.35	5.5	ng/ul	89551	4	17.44	325735	20.0
4H-Cyclopenta[def...	18.50	4.9	ng/ul	80134	4	17.44	325735	20.0
9H-Carbazole, 2-m...	18.60	2.2	ng/ul	36135	4	17.44	325735	20.0
Methylcarbazole	18.75	2.4	ng/ul	38363	4	17.44	325735	20.0
9,10-Anthracenedione	18.85	2.3	ng/ul	37146	4	17.44	325735	20.0
5H-Benzo[def]carb...	20.22	2.6	ng/ul	54323	5	21.71	421701	20.0