LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\8270-BG080116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.655	469	479	489	rBV	779782	1666843	1.60%	0.182%
2	7.635	809	816	821	rBV2	5123870	10261131	9.88%	1.122%
3	7.687	821	825	831	rVV	2890839	4830279	4.65%	0.528%
4	7.881	850	858	869	rBV	3384067	6182302	5.95%	0.676%
5	8.105	885	896	901	rBV4	573315	1984812	1.91%	0.217%
6	8.434	939	952	958	rBV3	1662474	4866042	4.68%	0.532%
7	9.291	1091	1098	1116	rVB2	1695712	3900867	3.76%	0.427%
8	10.337	1269	1276	1283	rBV4	1934373	4465770	4.30%	0.488%
9	10.736	1334	1344	1349	rBV2	754048	1950428	1.88%	0.213%
10	10.918	1366	1375	1377	rBV5	673356	1625456	1.56%	0.178%
11	10.948	1377	1380	1383	rVV	805736	1380040	1.33%	0.151%
12	10.995	1384	1388	1393	rVV2	971138	1906879	1.84%	0.209%
13	11.077	1393	1402	1406	rVV2	1184751	2666144	2.57%	0.292%
14	11.147	1407	1414	1421	rVB5	787446	1868775	1.80%	0.204%
15	11.300	1431	1440	1444	rVB5	884557	2065830	1.99%	0.226%
16	11.412	1453	1459	1466	rVB6	551512	1467926	1.41%	0.161%
17	11.764	1514	1519	1525	rBV6	574319	1223364	1.18%	0.134%
18	11.852	1528	1534	1540	rVB3	923012	2048337	1.97%	0.224%
19	11.946	1540	1550	1552	rBV3	1484988	2812093	2.71%	0.308%
20	12.005	1552	1560	1565	rBV5	3814354	12456554	11.99%	1.362%
21	12.222	1575	1597	1600	rBV	18223379	103882271	100.00%	11.360%
22	12.422	1623	1631	1633	rBV	8896805	17778615	17.11%	1.944%
23	12.487	1634	1642	1645	rVV2	18747349	51299425	49.38%	5.610%
24	12.534	1645	1650	1661	rVV	16047251	35635910	34.30%	3.897%
25	12.628	1661	1666	1669	rVV	1830606	3300964	3.18%	0.361%
26	12.669	1669	1673	1678	rVV	5236866	8575396	8.25%	0.938%
27	12.851	1699	1704	1711	rVB2	2642540	5328549	5.13%	0.583%
28	12.969	1720	1724	1729	rBV5	750890	1313477	1.26%	0.144%
29	13.133	1748	1752	1761	rVB8	1152024	2164555	2.08%	0.237%
30	13.292	1774	1779	1784	rBV3	2167209	3447939	3.32%	0.377%
31	13.415	1794	1800	1809	rVB	4297964	7228761	6.96%	0.791%
32	13.715	1847	1851	1855	rBV	890499	1328558	1.28%	0.145%
33	13.820	1865	1869	1881	rVB	2044297	4907560	4.72%	0.537%
34	13.973	1882	1895	1900	rBV4	4860281	14483540	13.94%	1.584%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\8270-BG080116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.114	1913	1919	1924	rBV	5514702	10430746	10.04%	1.141%
36	14.167	1924	1928	1933	rVV	3256243	4968038	4.78%	0.543%
37	14.237	1937	1940	1945	rVB2	2963841	4034538	3.88%	0.441%
38	14.337	1947	1957	1963	rBV3	3061749	9159831	8.82%	1.002%
39	14.514	1983	1987	1994	rVB2	2024649	3583625	3.45%	0.392%
40	14.790	2020	2034	2038	rBV8	1880239	6439704	6.20%	0.704%
41	14.995	2064	2069	2079	rBV	3482087	8199392	7.89%	0.897%
42	15.083	2080	2084	2092	rVB6	1557776	2953780	2.84%	0.323%
43	15.189	2094	2102	2109	rVB	4412206	8734507	8.41%	0.955%
44	15.265	2110	2115	2123	rVV2	4371545	6788522	6.53%	0.742%
45	15.406	2133	2139	2144	rBV	3431660	6788391	6.53%	0.742%
46	15.465	2144	2149	2154	rVB	3417195	5390396	5.19%	0.589%
47	15.577	2161	2168	2172	rBV4	2883722	7475562	7.20%	0.817%
48	15.612	2172	2174	2179	rVB	2034870	2490358	2.40%	0.272%
49	15.835	2208	2212	2216	rBV2	1199471	2051577	1.97%	0.224%
50	15.976	2233	2236	2238	rBV	1388642	1686298	1.62%	0.184%
51	16.011	2238	2242	2246	rVV4	3385075	5499400	5.29%	0.601%
52	16.053	2246	2249	2254	rVB2	1604362	2246593	2.16%	0.246%
53	16.223	2273	2278	2281	rBV	3132246	5621432	5.41%	0.615%
54	16.293	2287	2290	2297	rVB3	3680697	5770552	5.55%	0.631%
55	16.358	2297	2301	2309	rVB4	1867472	3313454	3.19%	0.362%
56	16.528	2321	2330	2341	rVB3	7801453	22117708	21.29%	2.419%
57	16.634	2341	2348	2352	rBV	12163458	24951028	24.02%	2.729%
58	16.699	2354	2359	2364	rVB3	12944888	23769542	22.88%	2.599%
59	16.758	2364	2369	2373	rBV2	14378653	19951839	19.21%	2.182%
60	16.805	2373	2377	2380	rVB	10107663	12894437	12.41%	1.410%
61	16.875	2380	2389	2392	rBV2	5789063	13124973	12.63%	1.435%
62	16.957	2398	2403	2409	rVB4	11931217	23911891	23.02%	2.615%
63	17.028	2409	2415	2418	rBV	11493431	19361199	18.64%	2.117%
64	17.063	2418	2421	2424	rVV2	4873380	7640244	7.35%	0.836%
65	17.104	2424	2428	2432	rVB	7848276	11522916	11.09%	1.260%
66	17.222	2444	2448	2452	rBV5	1035588	1644429	1.58%	0.180%
67	17.333	2463	2467	2471	rVB2	3364769	4528757	4.36%	0.495%
68	17.609	2511	2514	2518	rVB	2151191	2870844	2.76%	0.314%
69	17.756	2533	2539	2544	rBV3	2334704	5511185	5.31%	0.603%
70	18.438	2648	2655	2658	rBV2	5885981	11841170	11.40%	1.295%
71	18.479	2658	2662	2672	rVB2	13842225	26199638	25.22%	2.865%

LSC Area Percent Report

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Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\8270-BG080116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	18.573	2672	2678	2682	rBV	8924438	16098652	15.50%	1.760%
73	18.626	2682	2687	2690	rBV3	10841002	19652422	18.92%	2.149%
74	18.708	2699	2701	2705	rVB	8465228	10380799	9.99%	1.135%
75	18.749	2705	2708	2711	rVV	1656542	2326676	2.24%	0.254%
76	18.796	2711	2716	2719	rVV2	10547045	17717642	17.06%	1.938%
77	18.831	2719	2722	2725	rVV	13219644	17487045	16.83%	1.912%
78	18.872	2725	2729	2732	rVV	8209652	11110352	10.70%	1.215%
79	18.919	2732	2737	2743	rVV3	9631519	21151324	20.36%	2.313%
80	18.990	2745	2749	2757	rVB	9905172	16063058	15.46%	1.757%
81	19.131	2770	2773	2775	rBV	1295894	1544415	1.49%	0.169%
82	19.242	2788	2792	2795	rBV	2185709	3403442	3.28%	0.372%
83	19.360	2807	2812	2817	rBV	5289369	8598004	8.28%	0.940%
84	19.454	2825	2828	2832	rVB2	1968223	2318506	2.23%	0.254%
85	19.501	2832	2836	2841	rBV4	1604413	3107543	2.99%	0.340%
86	19.630	2854	2858	2863	rVB6	3937940	6745958	6.49%	0.738%
87	19.742	2865	2877	2881	rBV2	14977462	31759884	30.57%	3.473%
88	19.859	2894	2897	2900	rBV3	1221992	1756140	1.69%	0.192%
89	19.894	2900	2903	2910	rVB	1909064	3043062	2.93%	0.333%
90	19.994	2916	2920	2926	rVB2	3208072	5527946	5.32%	0.605%
91	20.059	2926	2931	2936	rBV	4017780	6459154	6.22%	0.706%
92	20.176	2947	2951	2955	rBV	4827291	5771786	5.56%	0.631%
93	20.294	2967	2971	2975	rBV5	1943156	4058765	3.91%	0.444%
94	20.453	2995	2998	3001	rBV3	1654434	2807439	2.70%	0.307%
95	20.564	3013	3017	3021	rBV2	2166568	3114247	3.00%	0.341%
96	20.635	3025	3029	3033	rVV3	2495510	4017165	3.87%	0.439%
97	20.676	3033	3036	3040	rVB	1660346	1940824	1.87%	0.212%
98	20.782	3051	3054	3058	rBV2	2876930	4175942	4.02%	0.457%
99	20.917	3074	3077	3084	rVB5	1311397	2190301	2.11%	0.240%
100	21.428	3160	3164	3167	rBV	1385657	2339609	2.25%	0.256%

Sum of corrected areas: 914441990

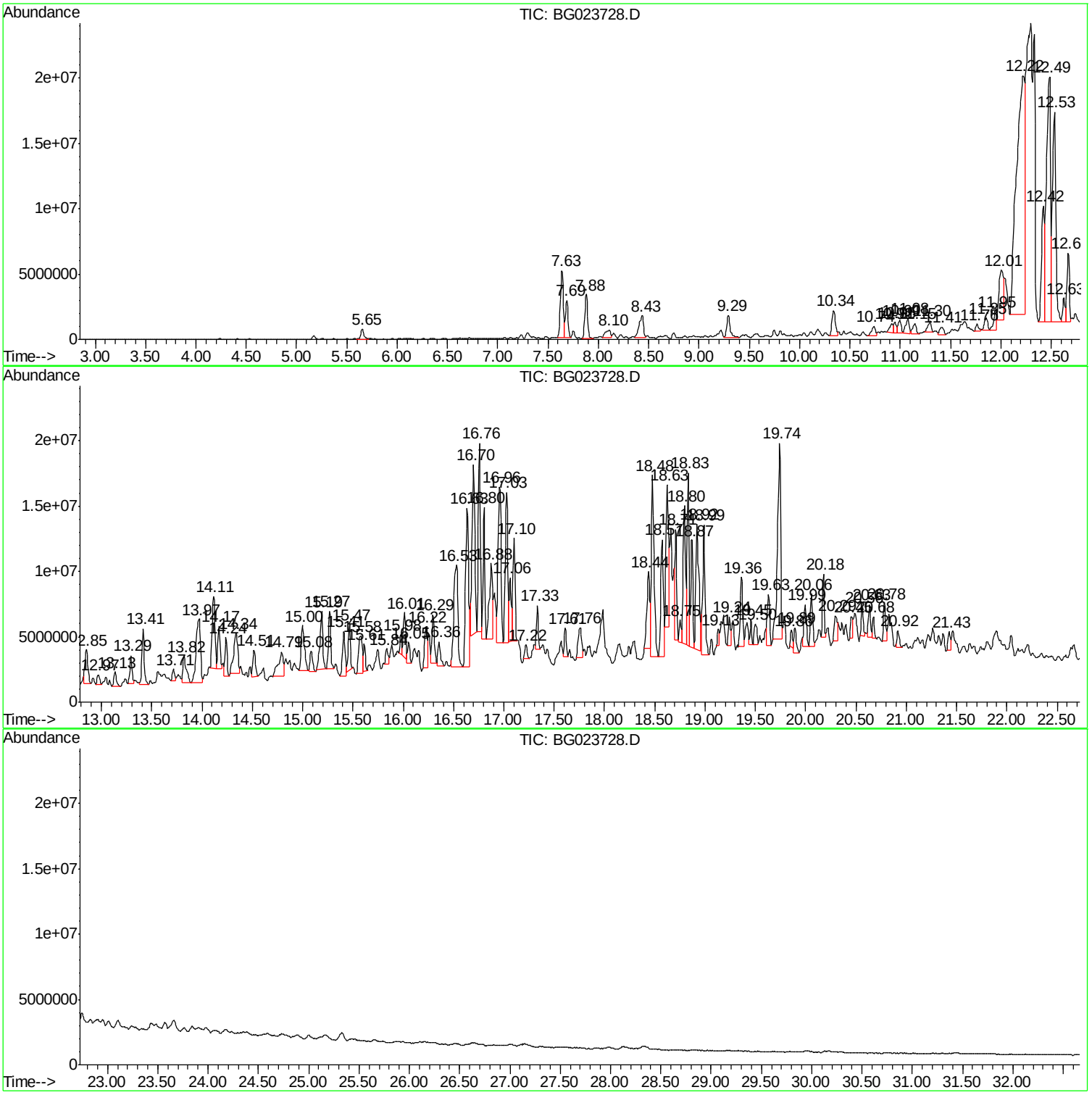
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
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Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

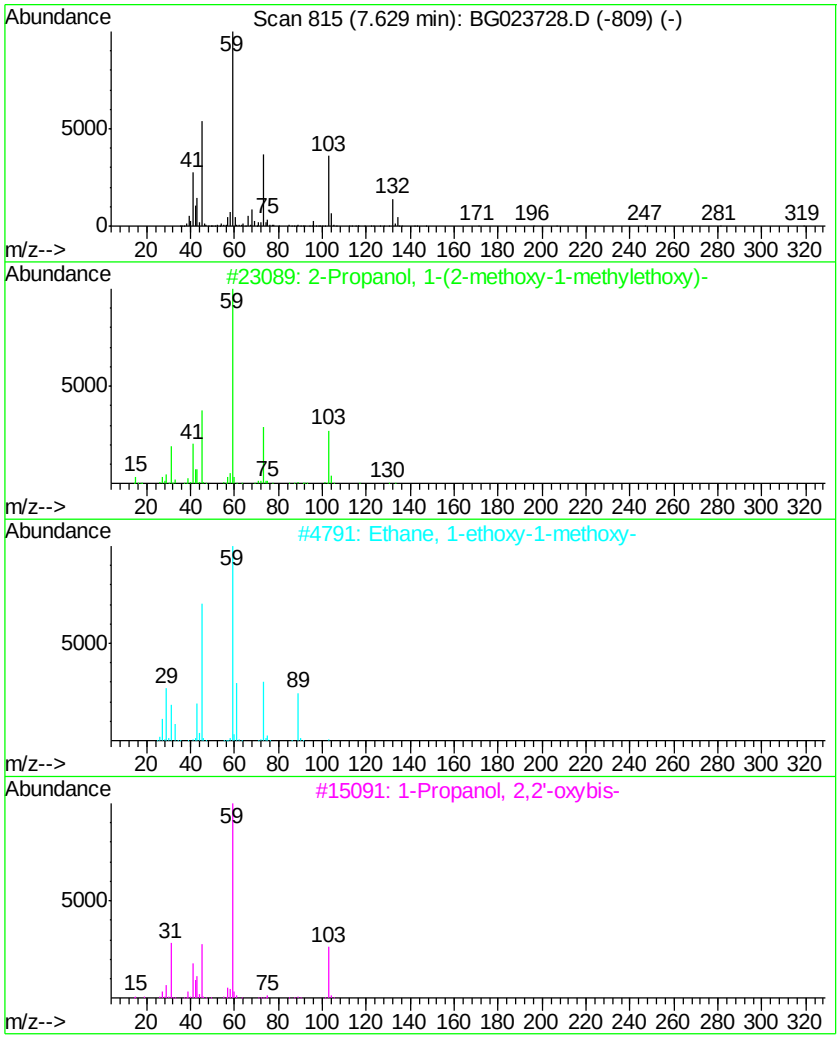
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

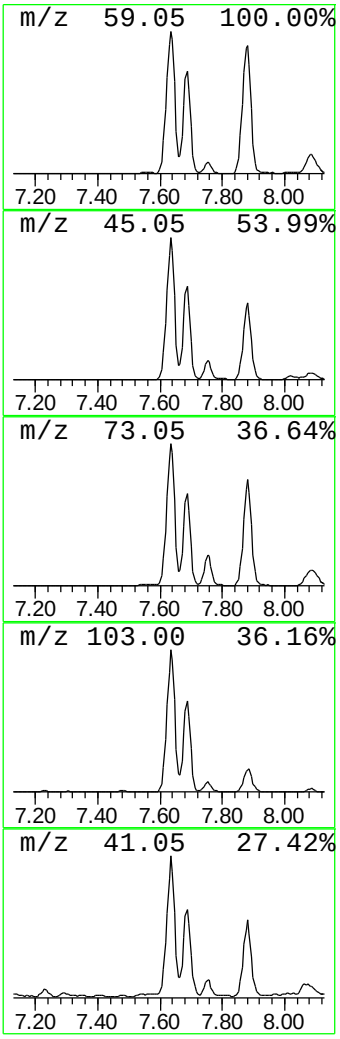
****

Peak Number 1 2-Propanol, 1-(2-methoxy-1-... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.63	103.40 ng	10261100	1,4-Dichlorobenzene-d4	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	53
2	Ethane, 1-ethoxy-1-methoxy-	104	C5H12O2	010471-14-4	47
3	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	47
4	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	43
5	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	42





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

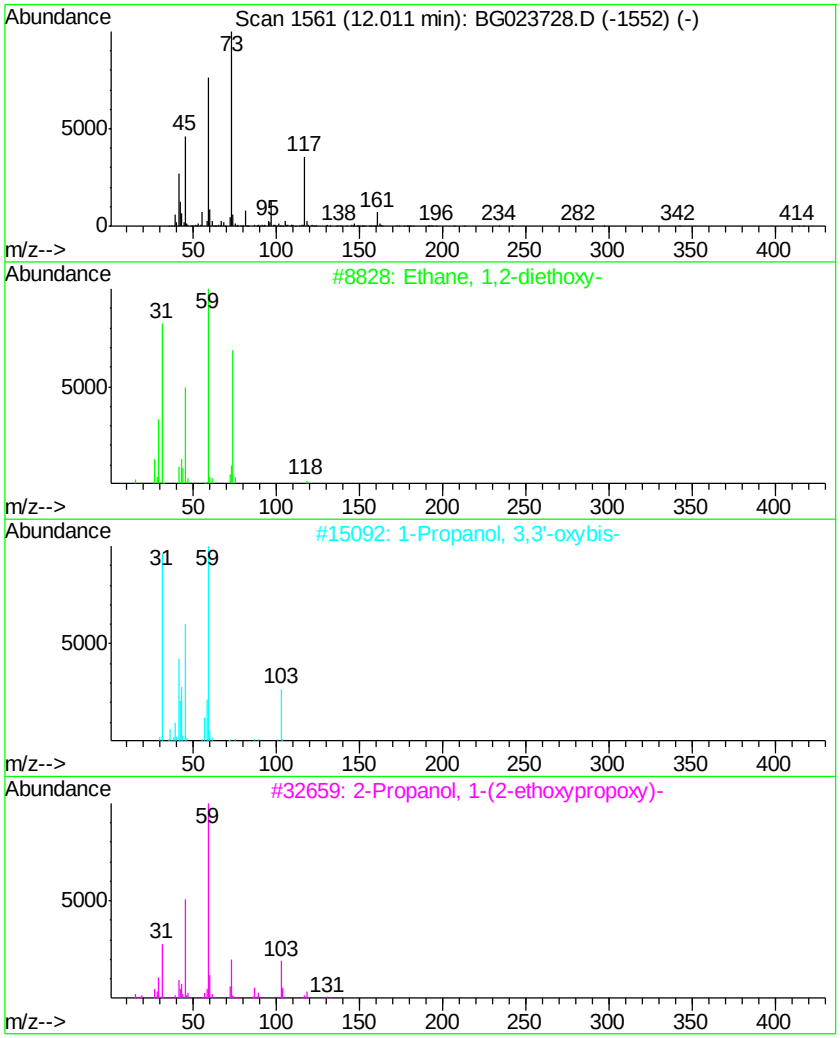
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

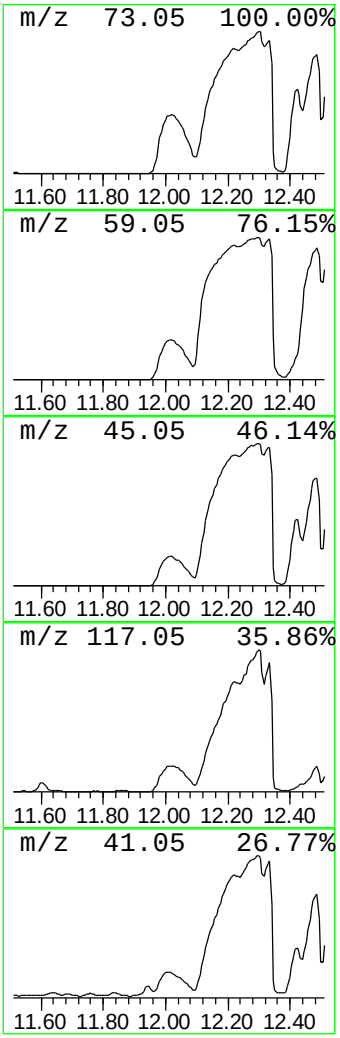
****

Peak Number 2 Ethane, 1,2-diethoxy- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	180.53 ng	12456600	Naphthalene-d8	10.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	53
2	1-Propanol, 3,3'-oxybis-	134	C6H14O3	002396-61-4	50
3	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	45
4	Silane, trimethyl-	74	C3H10Si	000993-07-7	38
5	Methyl 2,5,8,11-tetraoxatridecan...	236	C10H20O6	1000366-78-2	38





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

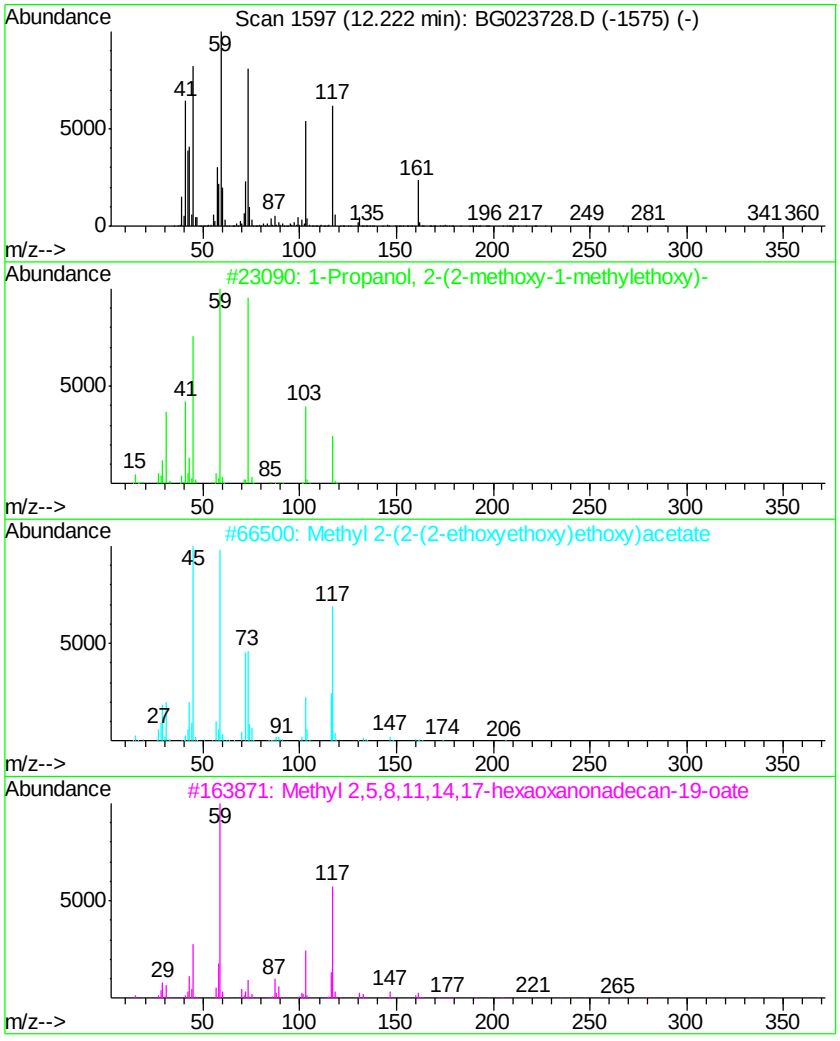
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

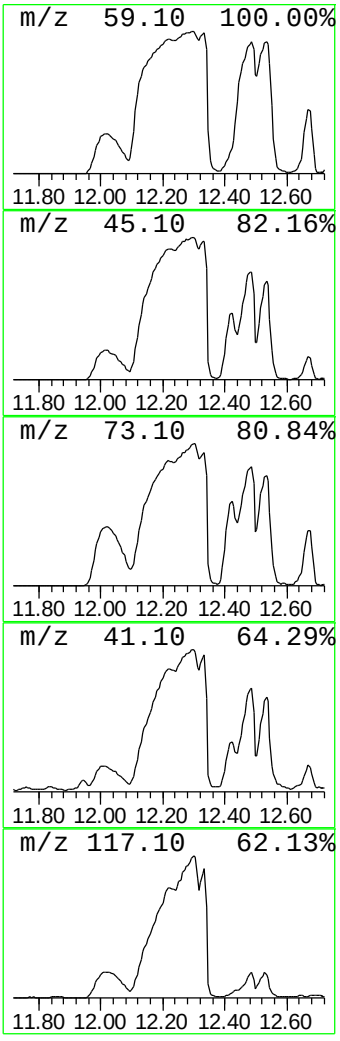
****

Peak Number 3 1-Propanol, 2-(2-methoxy-1-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	1505.50 ng	103882000	Naphthalene-d8	10.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	53
2	Methyl 2-(2-(2-ethoxyethoxy)etho...	206	C9H18O5	1000366-78-1	50
3	Methyl 2,5,8,11,14,17-hexaoxanon...	324	C14H28O8	1000366-81-4	43
4	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	43
5	Methyl 2,5,8,11,14-pentaoxahexad...	280	C12H24O7	1000366-81-5	35





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

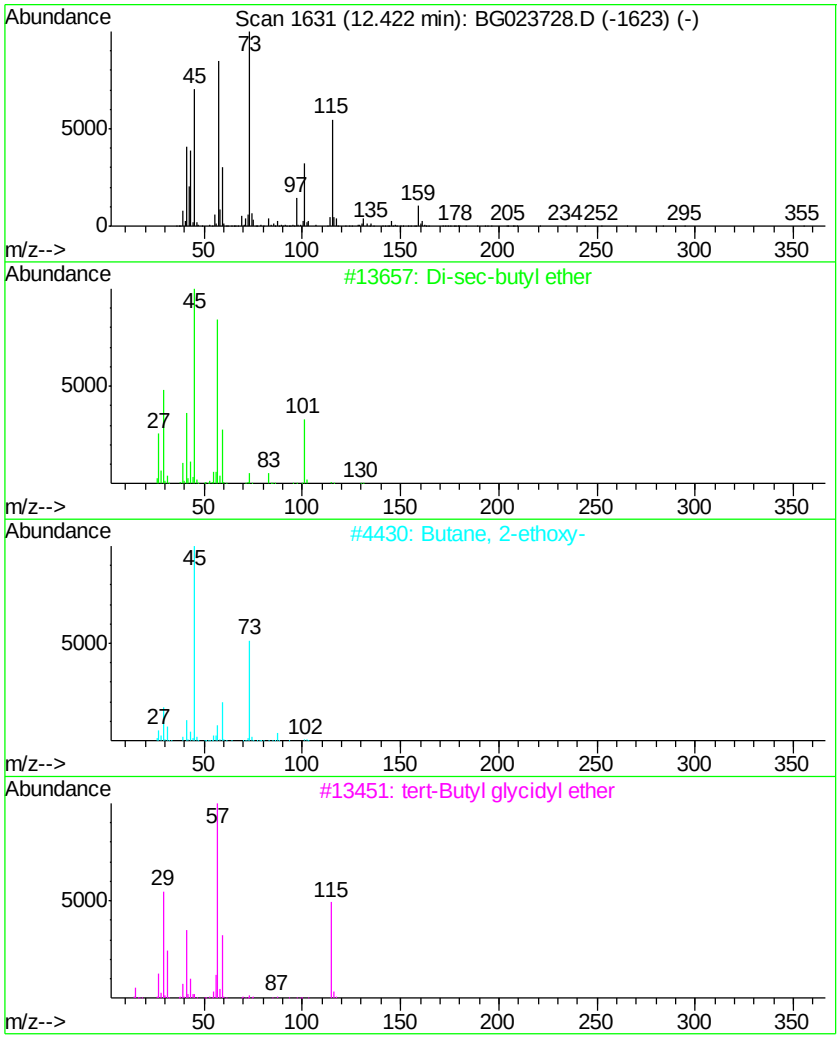
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

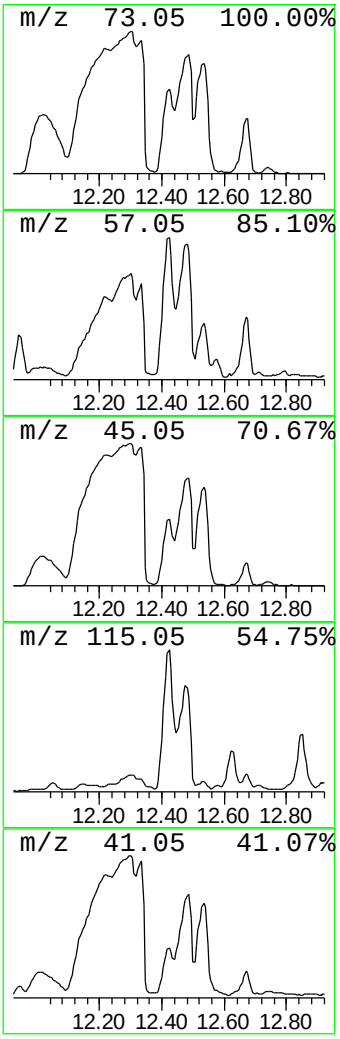
****

Peak Number 4 unknown12.42 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	257.65 ng	17778600	Naphthalene-d8	10.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Di-sec-butyl ether	130	C8H18O	006863-58-7	38
2	Butane, 2-ethoxy-	102	C6H14O	002679-87-0	27
3	tert-Butyl glycidyl ether	130	C7H14O2	007665-72-7	16
4	Boronic acid, ethyl-, diethyl ester	130	C6H15BO2	053907-92-9	16
5	3,4,4-Trimethyl-3-pentanol	130	C8H18O	007294-05-5	16





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

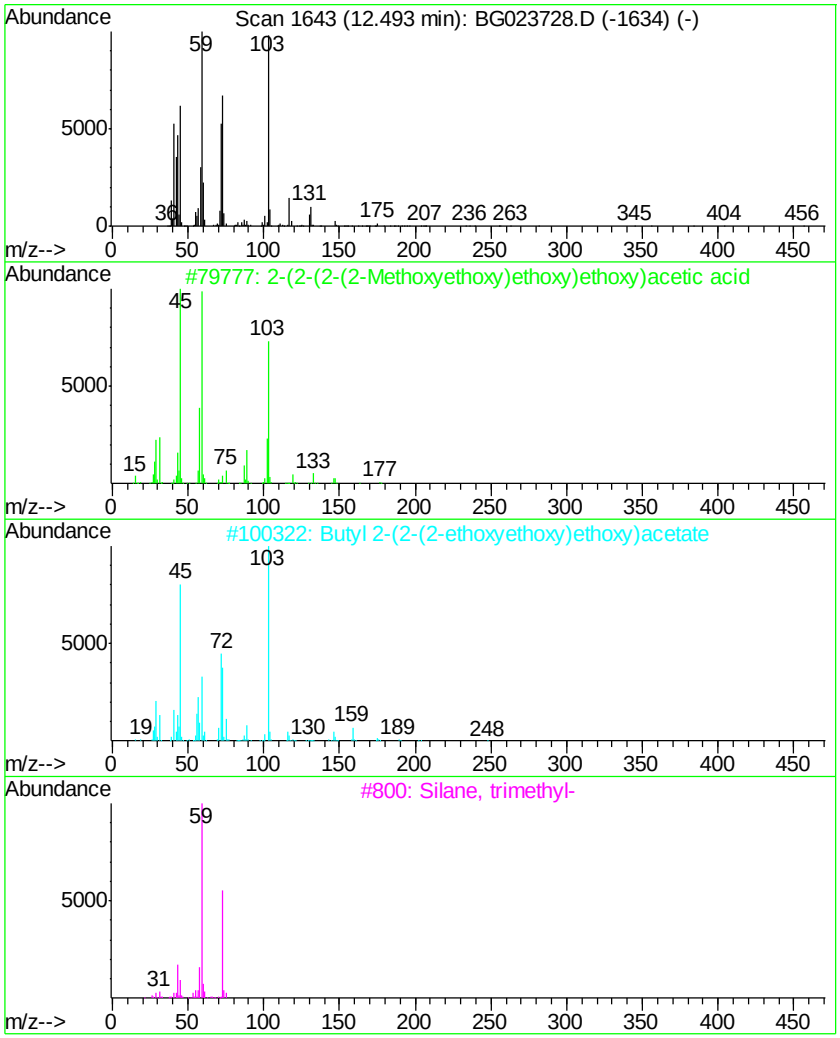
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

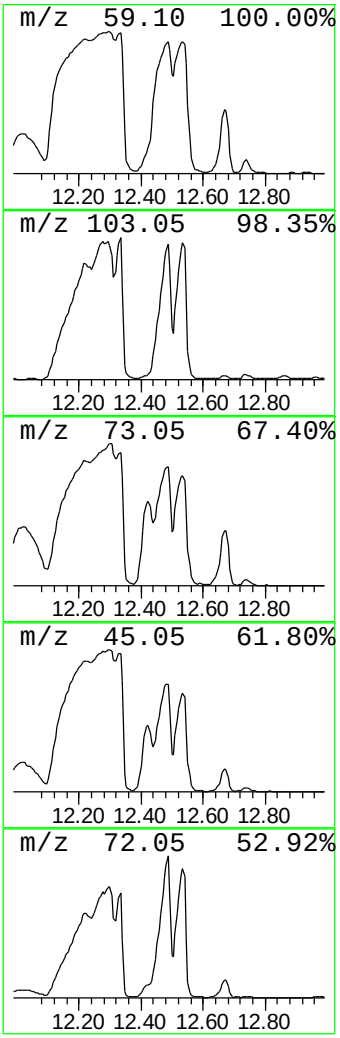
****

Peak Number 5 2-(2-(2-(2-Methoxyethoxy)et... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	743.45 ng	51299400	Naphthalene-d8	10.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(2-(2-(2-Methoxyethoxy)ethoxy)...	222	C9H18O6	1000366-76-8	50
2	Butyl 2-(2-(2-ethoxyethoxy)ethox...	248	C12H24O5	1000366-77-5	47
3	Silane, trimethyl-	74	C3H10Si	000993-07-7	43
4	2-(2-(2-(2-(2-(2-Methoxyethoxy)e...	310	C13H26O8	1000366-93-3	42
5	1-Propanol, 2-(2-methoxy-1-methy...	148	C7H16O3	055956-21-3	38





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Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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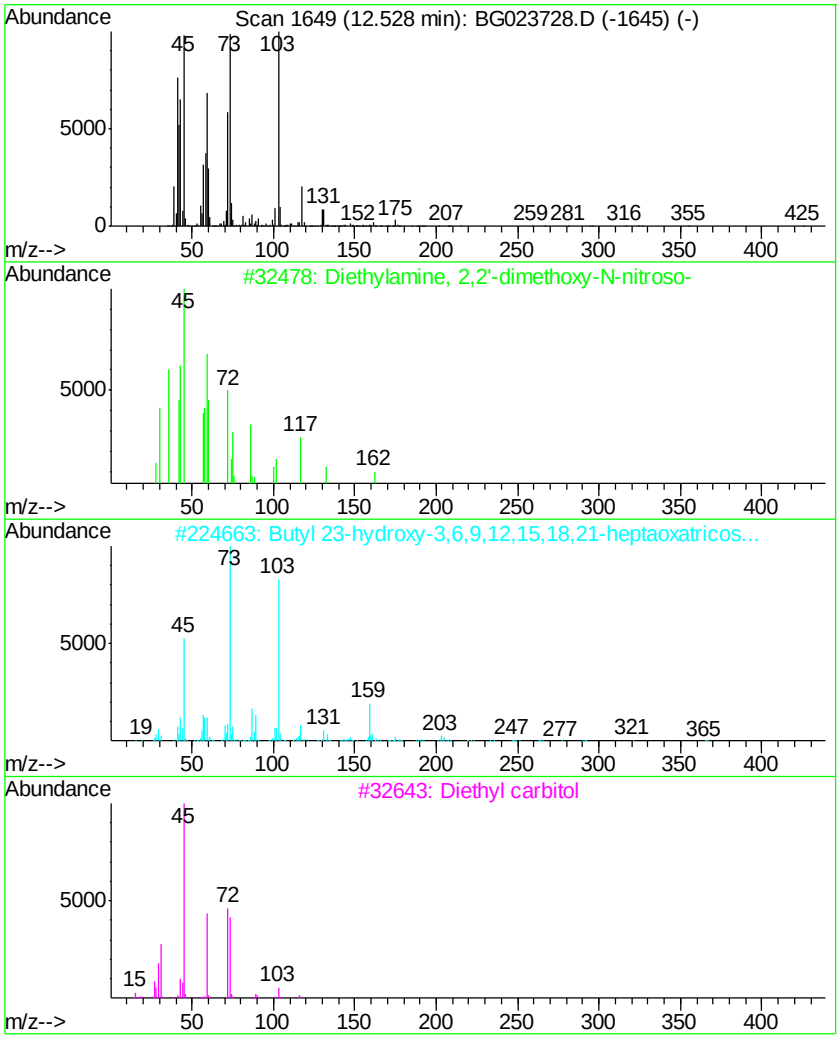
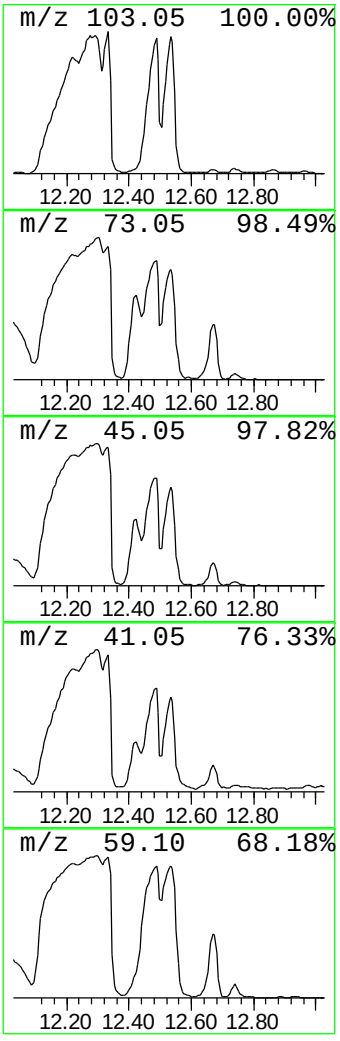
Peak Number 6 unknown12.53 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	516.45 ng	35635900	Naphthalene-d8	10.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethylamine, 2,2'-dimethoxy-N-n...	162	C6H14N2O3	067856-65-9	38
2	Butyl 23-hydroxy-3,6,9,12,15,18,...	440	C20H40O10	1000366-83-2	37
3	Diethyl carbitol	162	C8H18O3	000112-36-7	35
4	Silane, trimethyl-	74	C3H10Si	000993-07-7	35
5	Trichloroacetic acid, 2-methoxye...	220	C5H7Cl3O3	1000330-88-6	35





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Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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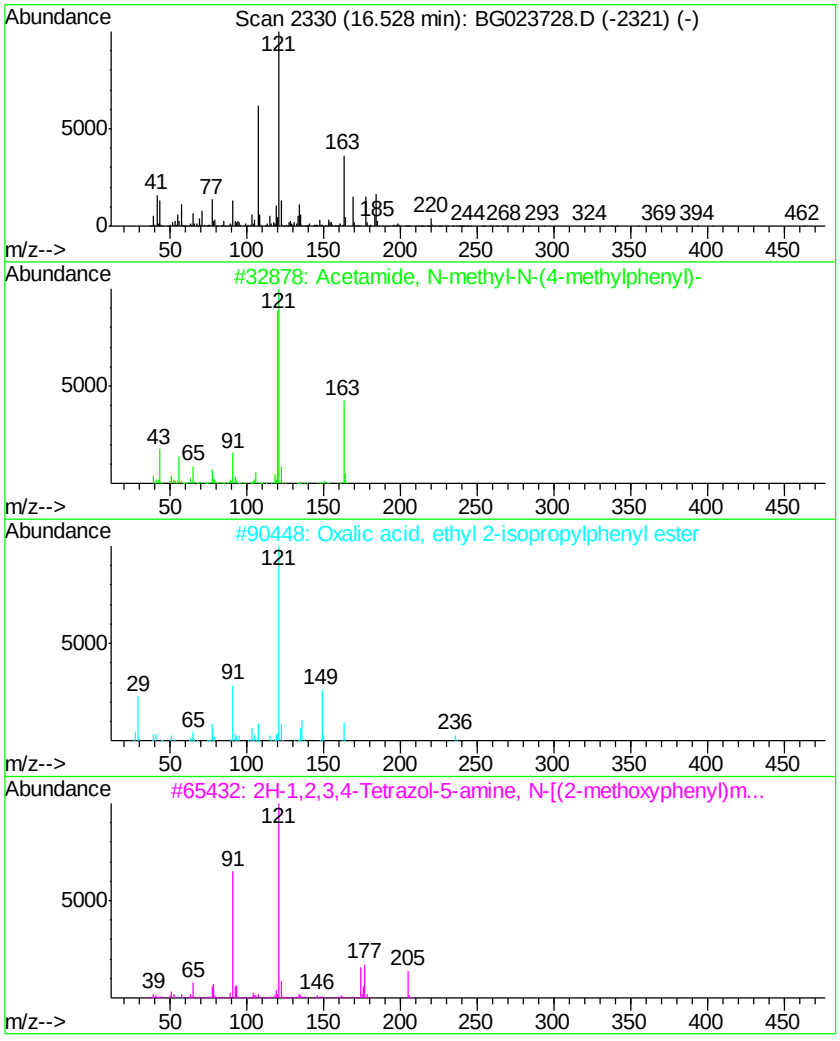
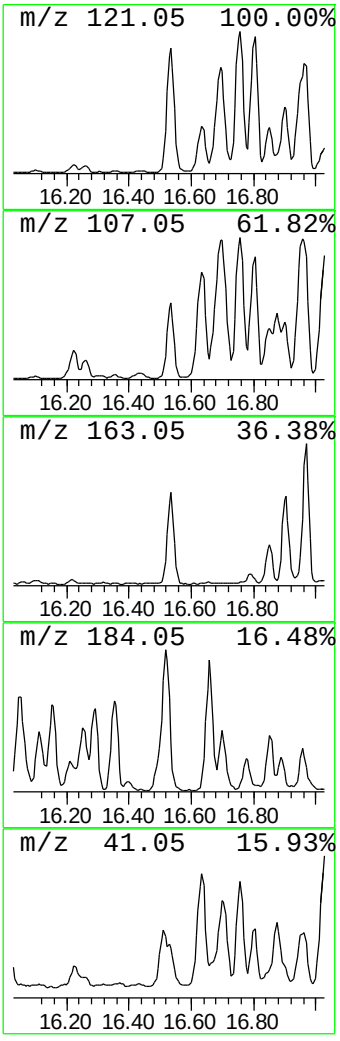
Peak Number 7 unknown16.53 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.53	154.09 ng	22117700	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide, N-methyl-N-(4-methylp...	163	C10H13NO	000612-03-3	46
2	Oxalic acid, ethyl 2-isopropylph...	236	C13H16O4	1000309-56-0	38
3	2H-1,2,3,4-Tetrazol-5-amine, N-[...	205	C9H11N5O	1000337-56-1	38
4	2-Acetamidotropone	163	C9H9NO2	006422-12-4	38
5	Benzenamine, 3,4-dimethyl-	121	C8H11N	000095-64-7	38





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Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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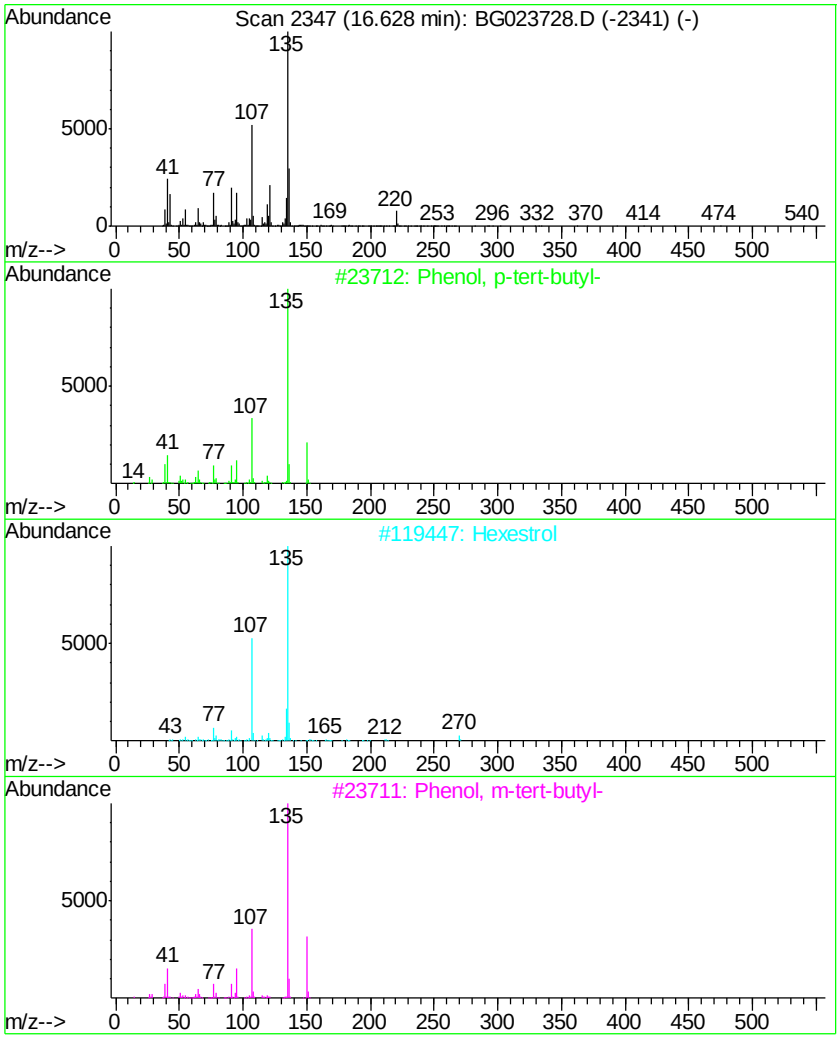
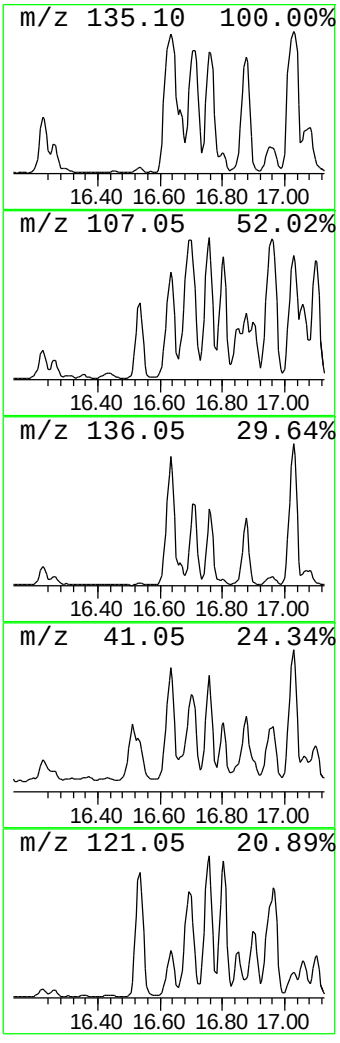
Peak Number 8 Phenol, p-tert-butyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.63	173.82 ng	24951000	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, p-tert-butyl-	150	C10H14O	000098-54-4	64
2	Hexestrol	270	C18H22O2	000084-16-2	53
3	Phenol, m-tert-butyl-	150	C10H14O	000585-34-2	53
4	4-Hydroxy-2-methylacetophenone	150	C9H10O2	000875-59-2	50
5	Hexestrol	270	C18H22O2	005635-50-7	50





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Acq On : 15 Aug 2016 19:43
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Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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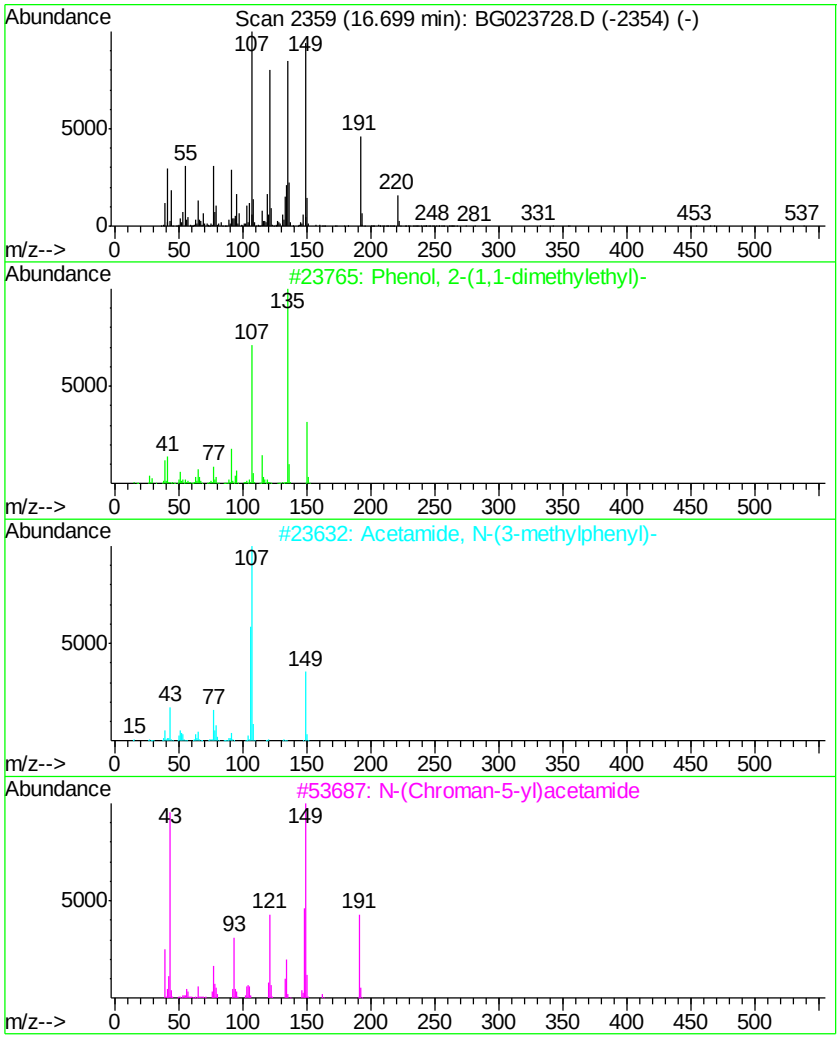
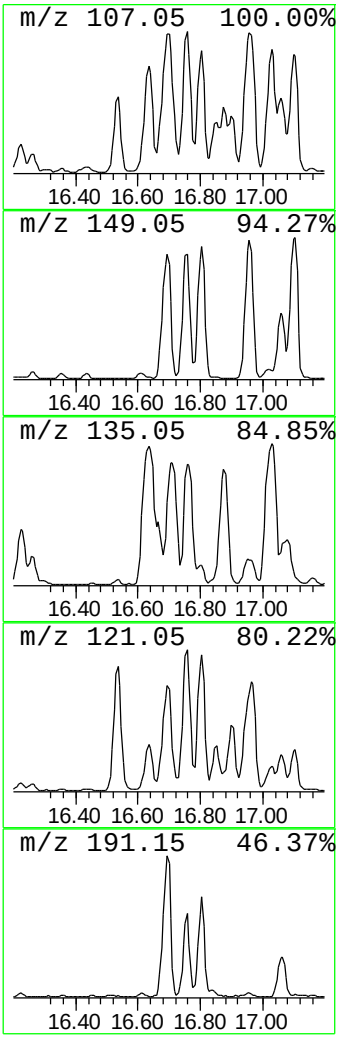
Peak Number 9 unknown16.70 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	165.59 ng	23769500	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2-(1,1-dimethylethyl)-	150	C10H14O	000088-18-6	42
2	Acetamide, N-(3-methylphenyl)-	149	C9H11NO	000537-92-8	38
3	N-(Chroman-5-yl)acetamide	191	C11H13NO2	1000306-69-8	30
4	Acetamide, N-(2-methylphenyl)-	149	C9H11NO	000120-66-1	30
5	Acetamide, N-(4-methylphenyl)-	149	C9H11NO	000103-89-9	27





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Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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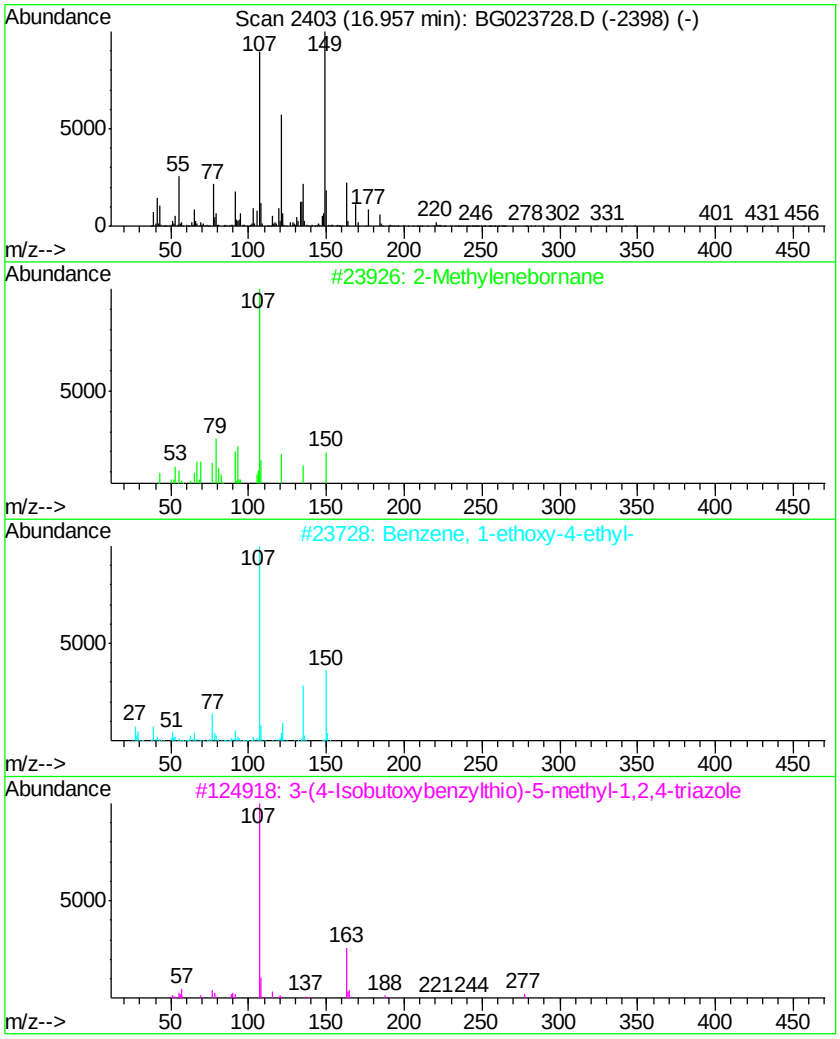
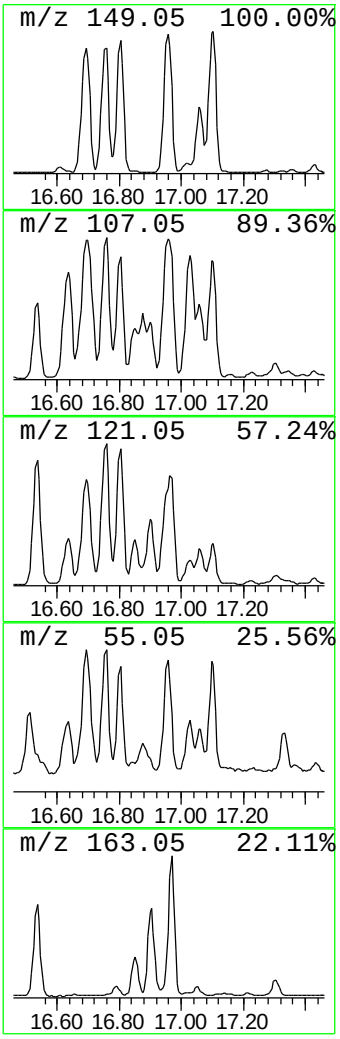
Peak Number 11 unknown16.96 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.96	166.58 ng	23911900	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methylenebornane	150	C11H18	027538-47-2	27
2	Benzene, 1-ethoxy-4-ethyl-	150	C10H14O	001585-06-4	27
3	3-(4-Isobutoxybenzylthio)-5-meth...	277	C14H19N3OS	057736-55-7	27
4	Phenol, 4-(2-methylpropyl)-	150	C10H14O	004167-74-2	25
5	2,2-Dimethyl-1-phenyl-1-propanol	164	C11H16O	003835-64-1	22





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Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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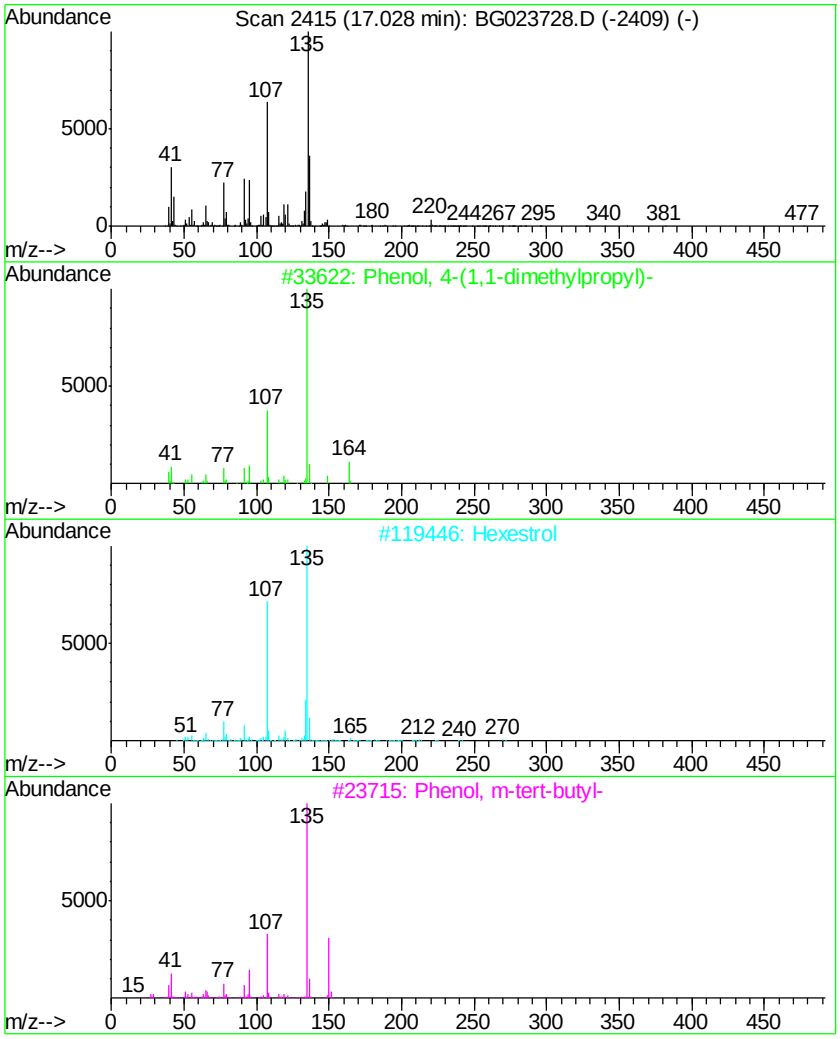
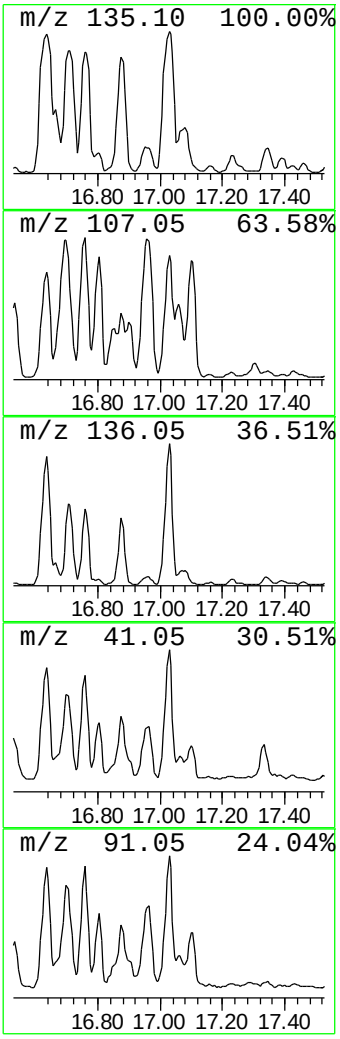
Peak Number 12 Phenol, 4-(1,1-dimethylprop... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.03	134.88 ng	19361200	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 4-(1,1-dimethylpropyl)-	164	C11H16O	000080-46-6	59
2	Hexestrol	270	C18H22O2	000084-16-2	59
3	Phenol, m-tert-butyl-	150	C10H14O	000585-34-2	53
4	Hexestrol	270	C18H22O2	005635-50-7	50
5	4-Ethoxy-tricyclo[5.2.1.0(2,6)]d...	201	C13H15NO	1000193-61-5	47





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Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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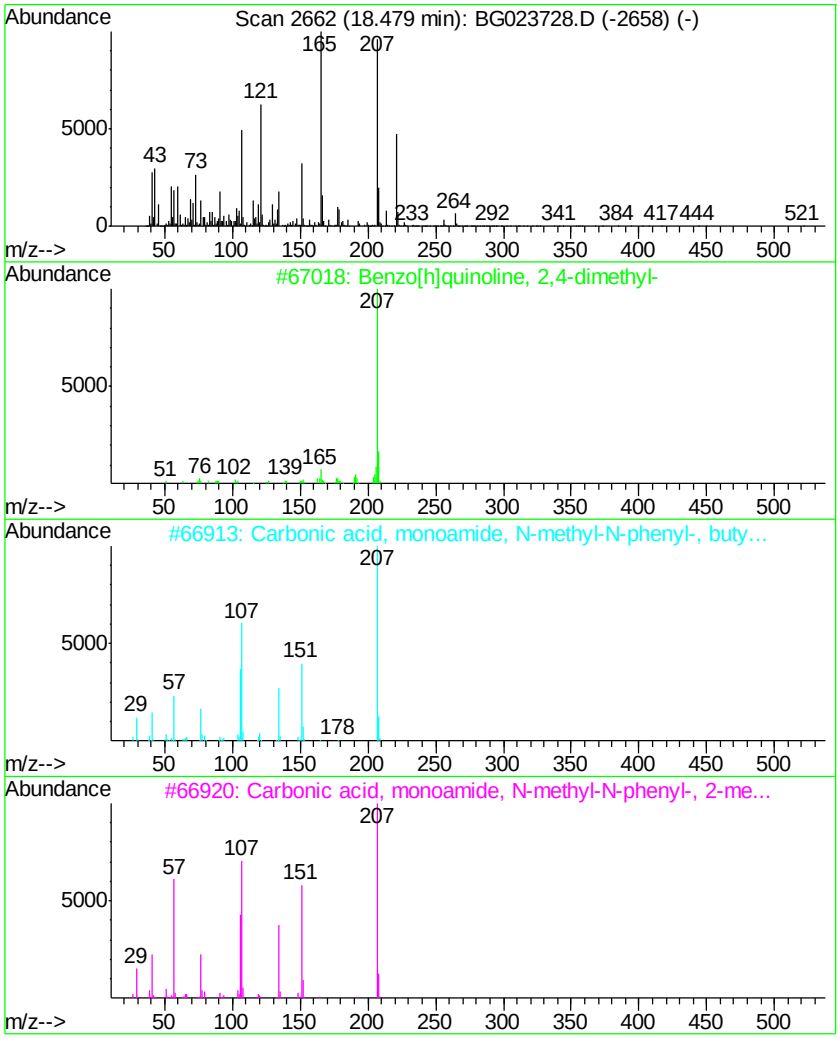
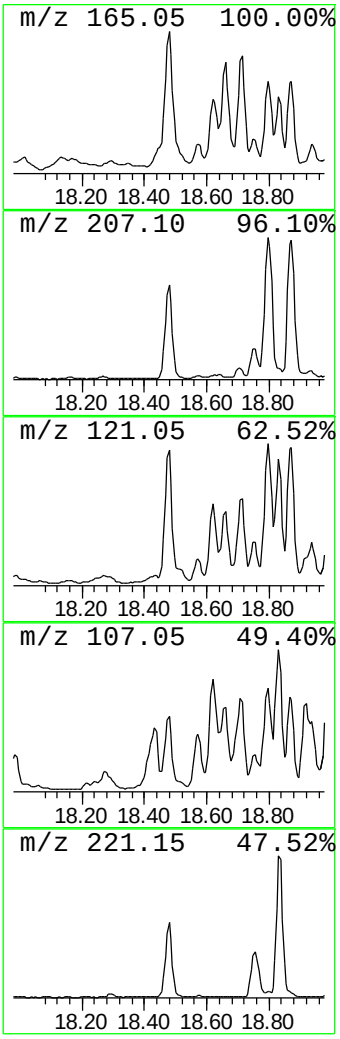
Peak Number 13 unknown18.48 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	182.52 ng	26199600	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[h]quinoline, 2,4-dimethyl-	207	C15H13N	000605-67-4	43
2	Carbonic acid, monoamide, N-meth...	207	C12H17NO2	1000339-98-1	35
3	Carbonic acid, monoamide, N-meth...	207	C12H17NO2	1000340-20-0	27
4	1,2-Bis(trimethylsilyl)benzene	222	C12H22Si2	017151-09-6	25
5	4,5,6,7-Tetrahydro-benzo[c]thiop...	221	C12H15NOS	1000296-67-7	22





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ClientSampleId : AW-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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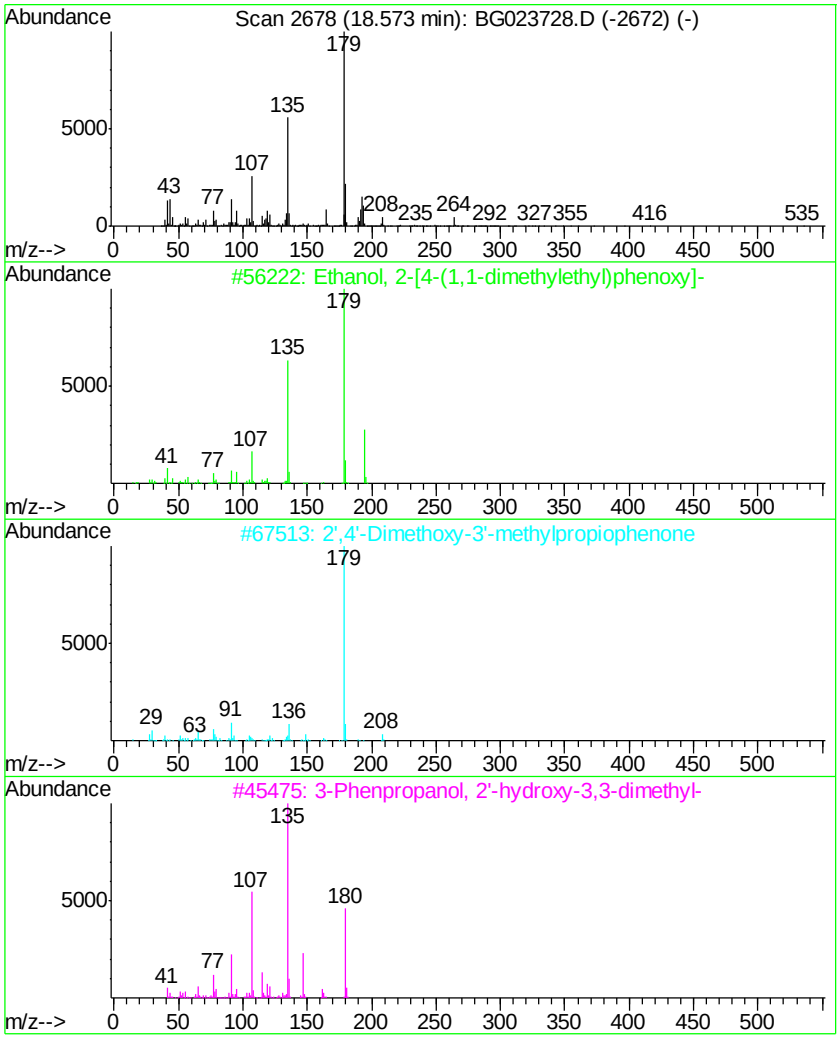
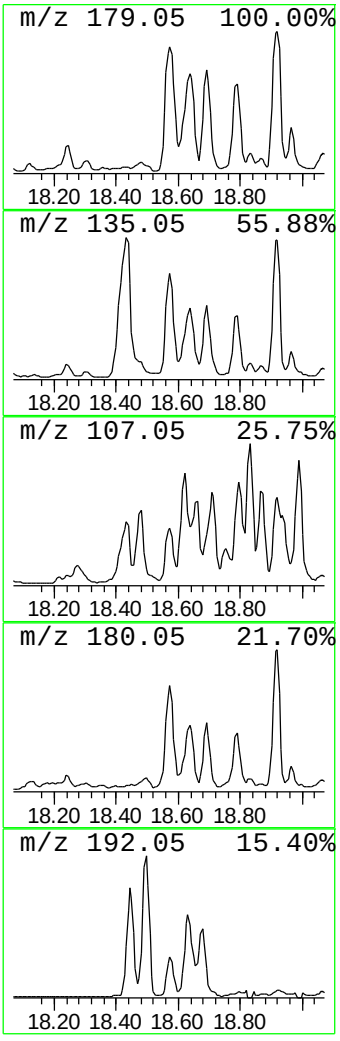
Peak Number 14 Ethanol, 2-[4-(1,1-dimethyl... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.57	112.15 ng	16098700	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-[4-(1,1-dimethylethyl...	194	C12H18O2	000713-46-2	53
2	2',4'-Dimethoxy-3'-methylpropiop...	208	C12H16O3	077942-13-3	38
3	3-Phenpropanol, 2'-hydroxy-3,3-d...	180	C11H16O2	040614-20-8	30
4	Phenol, m-tert-butyl-	150	C10H14O	000585-34-2	14
5	Phenol, 4-(1,1-dimethylpropyl)-	164	C11H16O	000080-46-6	14





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Sample : H4422-05
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ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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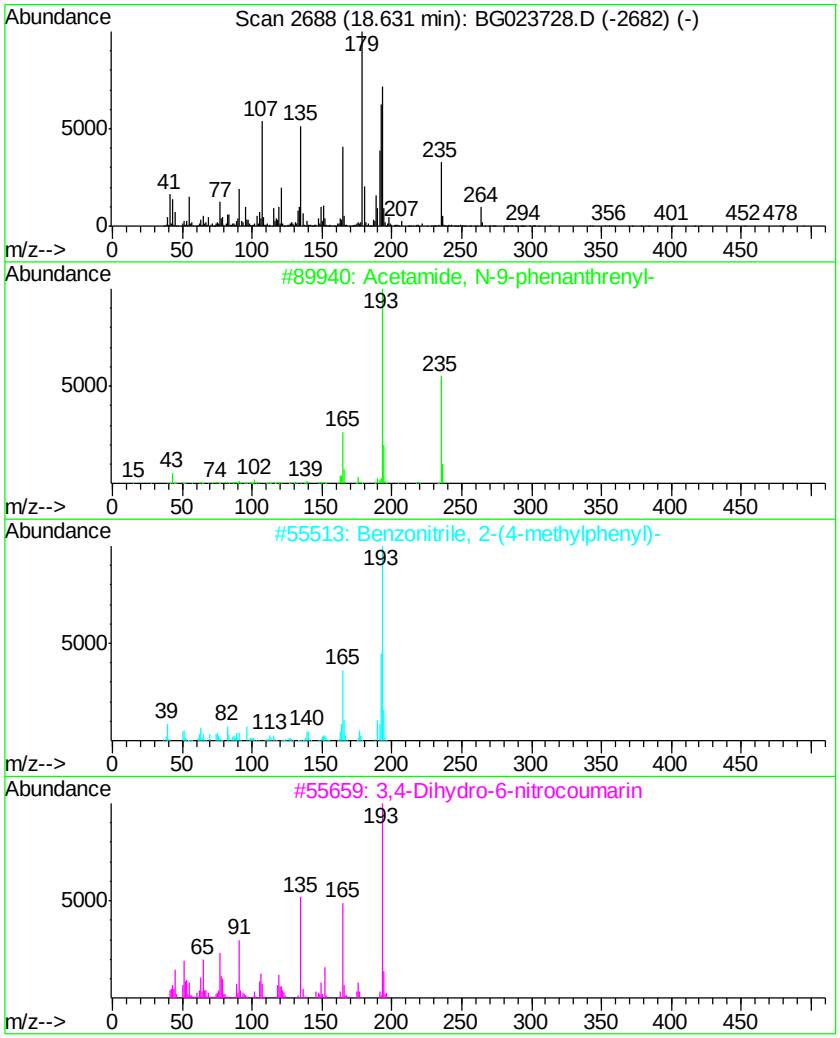
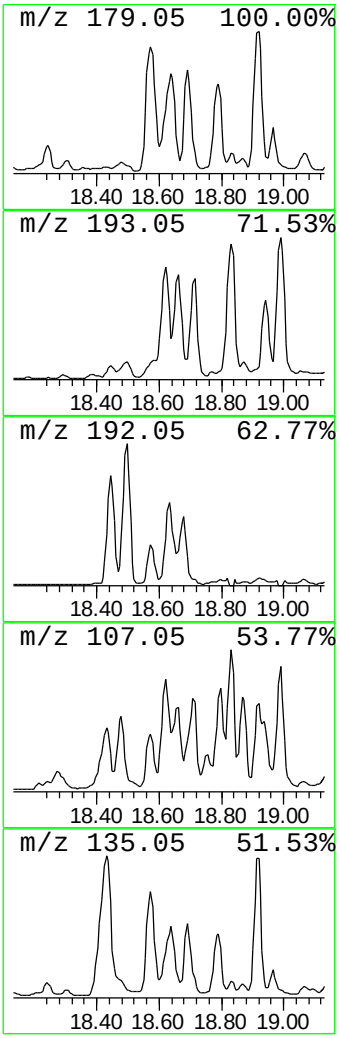
Peak Number 15 unknown18.63 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.63	136.91 ng	19652400	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide, N-9-phenanthrenyl-	235	C16H13NO	004235-09-0	41
2	Benzonitrile, 2-(4-methylphenyl)-	193	C14H11N	114772-53-1	38
3	3,4-Dihydro-6-nitrocoumarin	193	C9H7NO4	020920-99-4	38
4	Benzeneacetonitrile, .alpha.-phe...	193	C14H11N	000086-29-3	30
5	Phenol, 2-[(4-morpholinyl)methyl]-	193	C11H15NO2	004438-01-1	27





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ALS Vial : 12 Sample Multiplier: 1

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ClientSampleId : AW-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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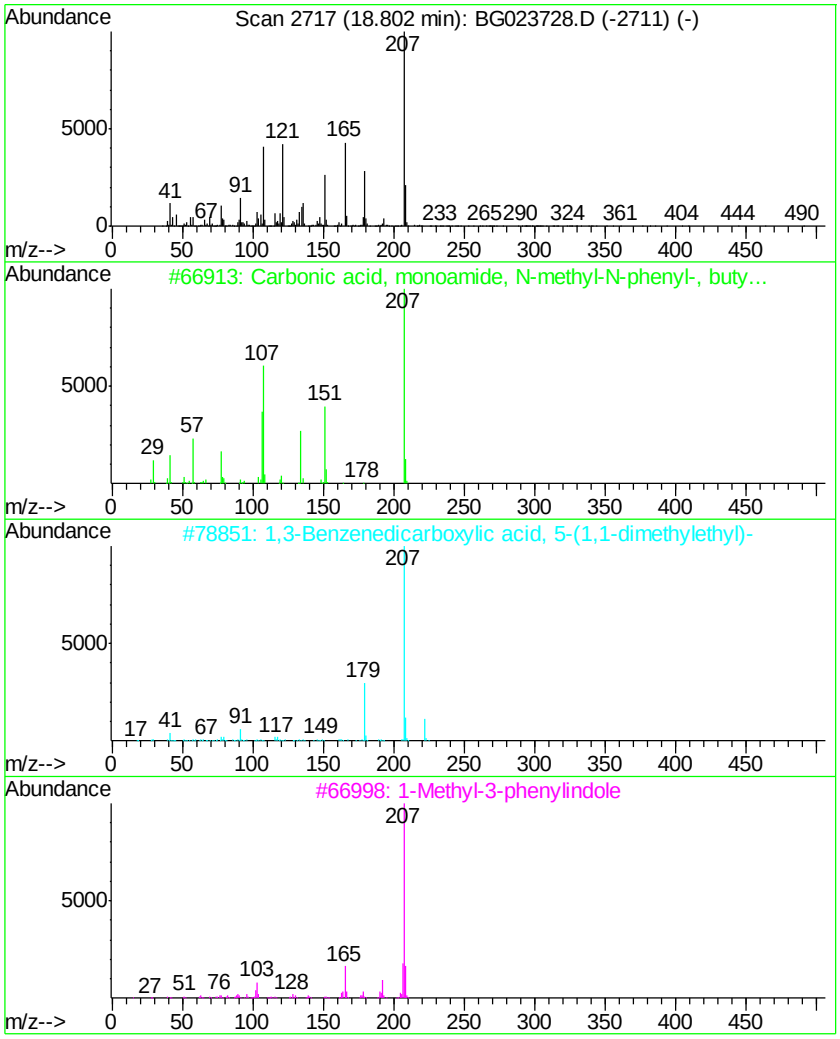
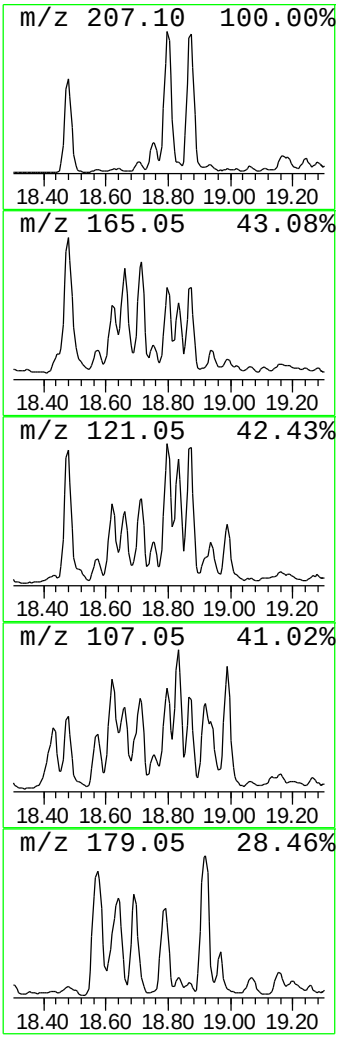
Peak Number 16 unknown18.80 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	123.43 ng	17717600	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, monoamide, N-meth...	207	C12H17NO2	1000339-98-1	43
2	1,3-Benzenedicarboxylic acid, 5-...	222	C12H14O4	002359-09-3	35
3	1-Methyl-3-phenylindole	207	C15H13N	030020-98-5	32
4	Carbamic acid, 3-methylphenyl-, ...	179	C10H13NO2	1000314-75-7	18
5	2,4-Di-tert-butylthiophenol	222	C14H22S	019728-43-9	17





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Instrument : BNA_G
ClientSampleId : AW-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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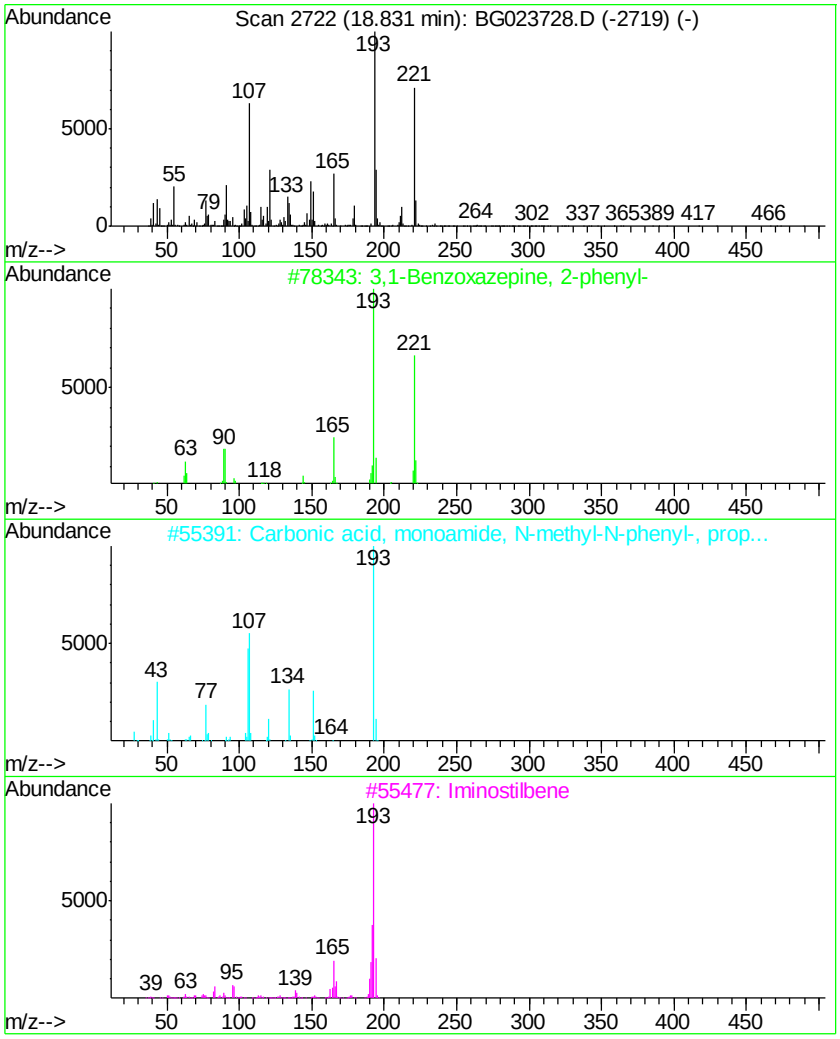
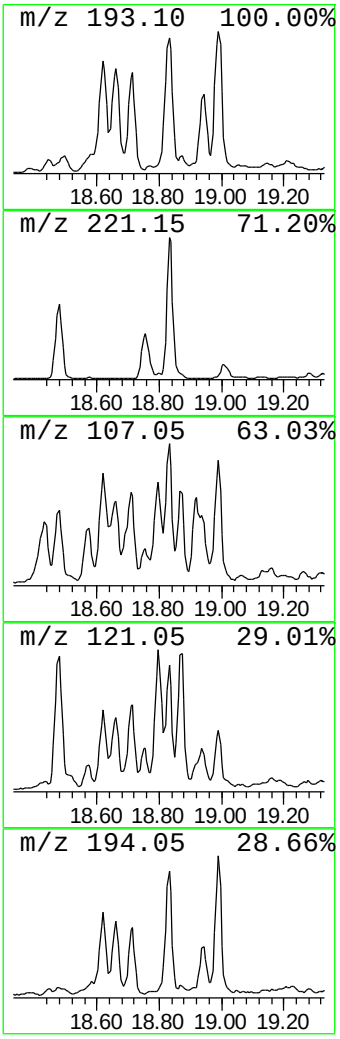
Peak Number 17 unknown18.83 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.83	121.83 ng	17487000	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,1-Benzoxazepine, 2-phenyl-	221	C15H11NO	014300-21-1	47
2	Carbonic acid, monoamide, N-meth...	193	C11H15NO2	1000340-19-0	43
3	Iminostilbene	193	C14H11N	000256-96-2	35
4	Phenol, 2-[(4-morpholinyl)methyl]-	193	C11H15NO2	004438-01-1	35
5	Acetic acid, 2-[4-(1-oxopropyl)p...	222	C12H14O4	1000349-98-2	27





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Data File : BG023728.D
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Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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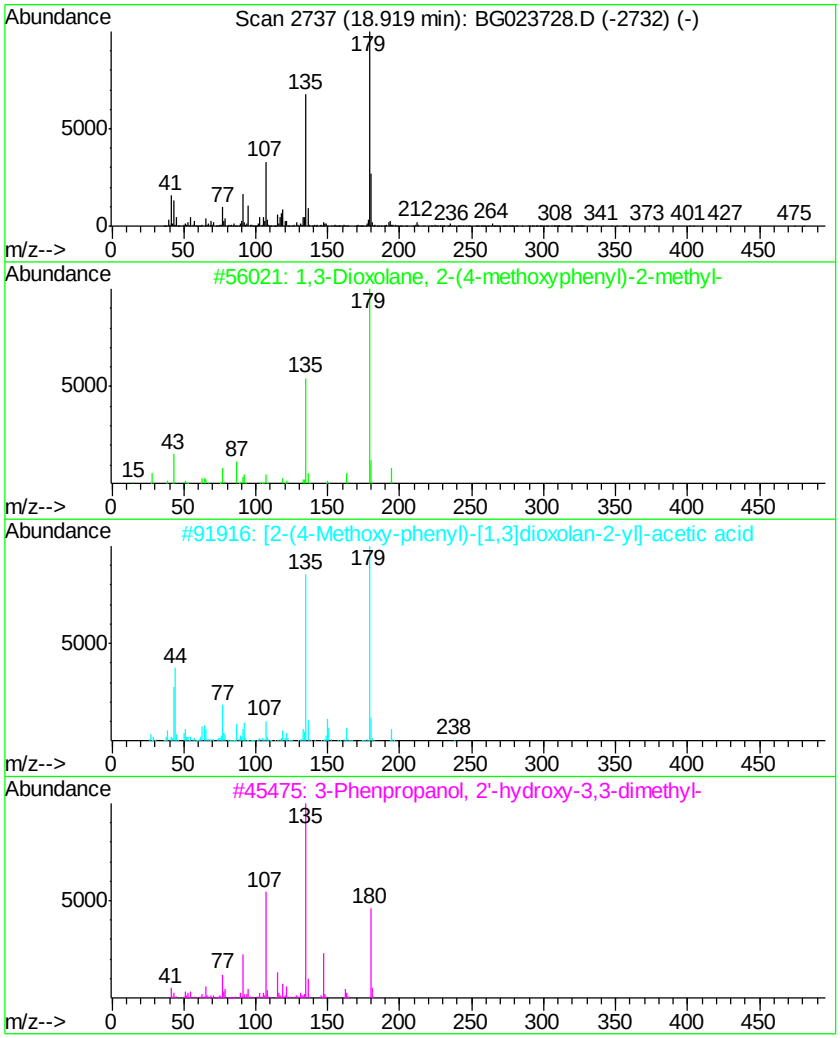
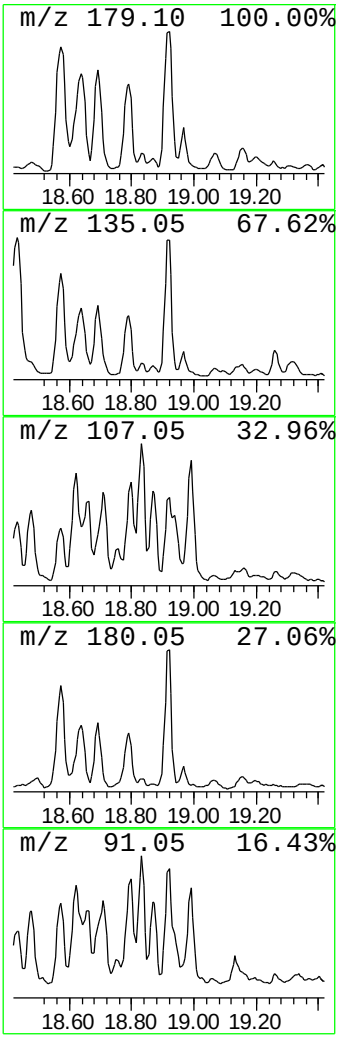
Peak Number 18 1,3-Dioxolane, 2-(4-methoxy... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	147.35 ng	21151300	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 2-(4-methoxypheny...	194	C11H14O3	036881-00-2	59
2	[2-(4-Methoxy-phenyl)-[1,3]dioxo...	238	C12H14O5	1000193-22-2	38
3	3-Phenpropanol, 2'-hydroxy-3,3-d...	180	C11H16O2	040614-20-8	38
4	2',4'-Dimethoxy-3'-methylpropiop...	208	C12H16O3	077942-13-3	38
5	2,4-Dimethoxyphenyl isocyanate	179	C9H9NO3	084370-87-6	38





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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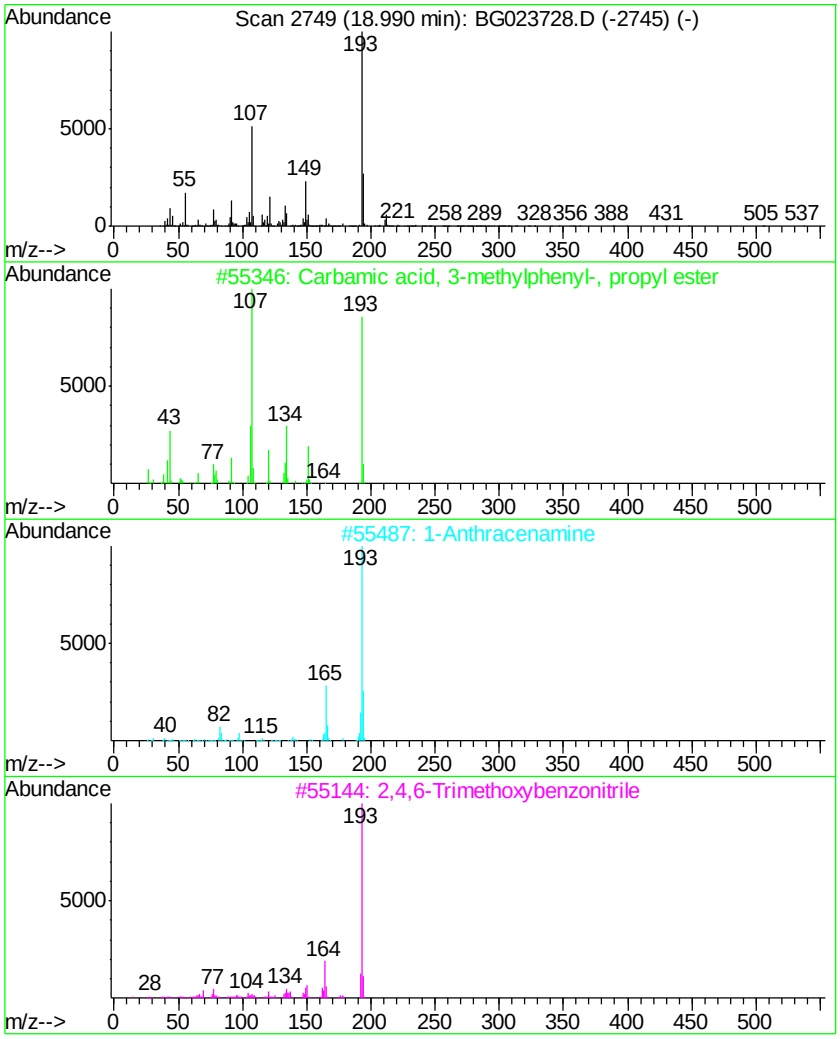
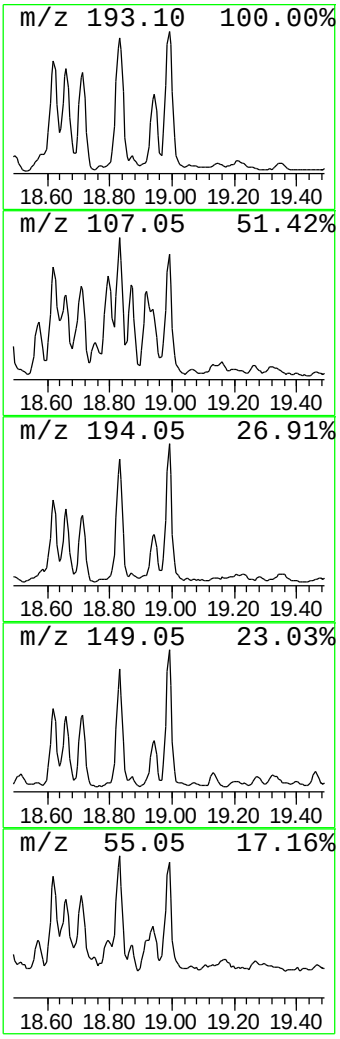
Peak Number 19 Carbamic acid, 3-methylphen... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.99	111.91 ng	16063100	Phenanthrene-d10	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbamic acid, 3-methylphenyl-, ...	193	C11H15NO2	1000314-76-5	52
2	1-Anthracenamine	193	C14H11N	000610-49-1	38
3	2,4,6-Trimethoxybenzonitrile	193	C10H11NO3	002571-54-2	35
4	Acetamide, N-(3-methylphenyl)-	149	C9H11NO	000537-92-8	18
5	Acetamide, N-(2-methylphenyl)-	149	C9H11NO	000120-66-1	18





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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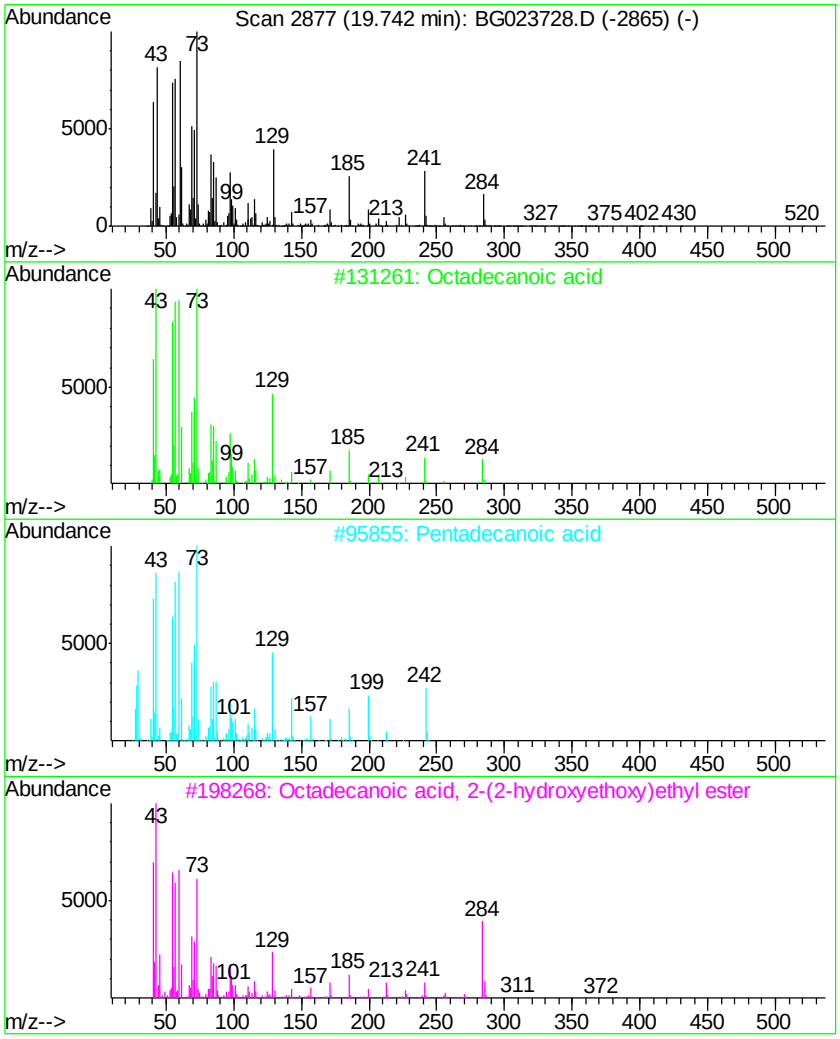
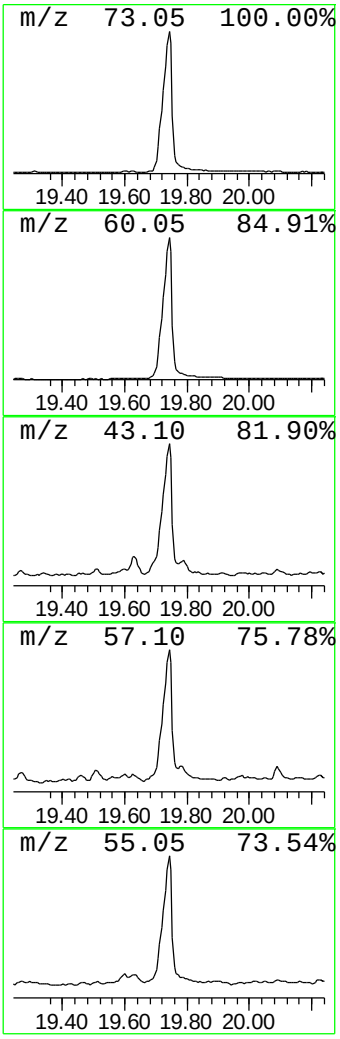
Peak Number 20 Octadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.74	271.50 ng	31759900	Chrysene-d12	21.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	98
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	86
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	n-Decanoic acid	172	C10H20O2	000334-48-5	70





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081516\
Data File : BG023728.D
Acq On : 15 Aug 2016 19:43
Operator : UM/SJ
Sample : H4422-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : AW-1

Quant Method : Z:\HPCHEM1\BNA_G\Methods\8270-BG080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Propanol, 1-(2-...	7.63	103.4	ng	10261100	1	8.11	1984810	20.0
Ethane, 1,2-dieth...	12.01	180.5	ng	12456600	2	10.95	1380040	20.0
1-Propanol, 2-(2-...	12.22	1505.5	ng	103882000	2	10.95	1380040	20.0
unknown12.42	12.42	257.6	ng	17778600	2	10.95	1380040	20.0
2-(2-(2-(2-Methox...	12.49	743.5	ng	51299400	2	10.95	1380040	20.0
unknown12.53	12.53	516.5	ng	35635900	2	10.95	1380040	20.0
unknown16.53	16.53	154.1	ng	22117700	4	17.57	2870840	20.0
Phenol, p-tert-bu...	16.63	173.8	ng	24951000	4	17.57	2870840	20.0
unknown16.70	16.70	165.6	ng	23769500	4	17.57	2870840	20.0
unknown16.96	16.96	166.6	ng	23911900	4	17.57	2870840	20.0
Phenol, 4-(1,1-di...	17.03	134.9	ng	19361200	4	17.57	2870840	20.0
unknown18.48	18.48	182.5	ng	26199600	4	17.57	2870840	20.0
Ethanol, 2-[4-(1,...	18.57	112.2	ng	16098700	4	17.57	2870840	20.0
unknown18.63	18.63	136.9	ng	19652400	4	17.57	2870840	20.0
unknown18.80	18.80	123.4	ng	17717600	4	17.57	2870840	20.0
unknown18.83	18.83	121.8	ng	17487000	4	17.57	2870840	20.0
1,3-Dioxolane, 2-...	18.92	147.3	ng	21151300	4	17.57	2870840	20.0
Carbamic acid, 3-...	18.99	111.9	ng	16063100	4	17.57	2870840	20.0
Octadecanoic acid	19.74	271.5	ng	31759900	5	21.90	2339610	20.0