LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

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_F\METHODS\8270-BF092317.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	5.063	503	506	516	rBV	72482	77646	6.95%	0.357%
2	5.469	571	575	588	rVB	527845	510542	45.72%	2.350%
3	6.481	744	747	756	rBV	562676	539294	48.29%	2.482%
4	6.622	767	771	777	rVB	675213	551924	49.42%	2.541%
5	6.851	806	810	817	rBV	871145	686851	61.50%	3.162%
6	7.004	833	836	840	rBV	509192	426900	38.23%	1.965%
7	7.410	902	905	909	rBV	327714	302061	27.05%	1.390%
8	7.657	944	947	952	rVB	166166	133365	11.94%	0.614%
9	7.857	974	981	983	rBV	136790	140721	12.60%	0.648%
10	7.875	983	984	989	rVB	104020	69980	6.27%	0.322%
11	7.980	996	1002	1007	rVB2	31601	37288	3.34%	0.172%
12	8.033	1007	1011	1015	rBV	277778	222947	19.96%	1.026%
13	8.133	1024	1028	1030	rVV	1152529	988278	88.50%	4.549%
14	8.151	1030	1031	1035	rVV	822562	657074	58.84%	3.025%
15	8.845	1146	1149	1156	rBV	445125	351694	31.49%	1.619%
16	8.945	1161	1166	1169	rBV	311506	240588	21.54%	1.107%
17	9.204	1206	1210	1213	rBV	723016	542360	48.57%	2.497%
18	9.310	1225	1228	1233	rBV	59384	52724	4.72%	0.243%
19	9.404	1241	1244	1249	rVB	33005	34711	3.11%	0.160%
20	9.474	1251	1256	1260	rBV	63665	85254	7.63%	0.392%
21	9.545	1264	1268	1270	rBV	106011	99155	8.88%	0.456%
22	9.569	1270	1272	1275	rVV	60595	53454	4.79%	0.246%
23	9.598	1275	1277	1283	rVB	99744	76323	6.83%	0.351%
24	9.663	1283	1288	1290	rBV2	49535	48211	4.32%	0.222%
25	9.745	1299	1302	1308	rVB	49415	43515	3.90%	0.200%
26	9.886	1323	1326	1329	rVV2	1018383	890070	79.70%	4.097%
27	9.921	1329	1332	1335	rVB	604509	491145	43.98%	2.261%
28	10.045	1348	1353	1357	rBV2	32320	32725	2.93%	0.151%
29	10.092	1357	1361	1365	rVV	260330	222701	19.94%	1.025%
30	10.433	1416	1419	1425	rBV	406003	332979	29.82%	1.533%
31	10.498	1429	1430	1432	rVV	46280	38334	3.43%	0.176%
32	10.521	1432	1434	1436	rVV3	53034	45000	4.03%	0.207%
33	10.592	1444	1446	1452	rVB2	82868	70748	6.34%	0.326%
34	10.674	1457	1460	1466	rBV	338150	316476	28.34%	1.457%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

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_F\METHODS\8270-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.792	1473	1480	1487	rVB6	27298	66307	5.94%	0.305%
36	10.980	1505	1512	1514	rBV3	43431	61281	5.49%	0.282%
37	11.110	1529	1534	1536	rBV3	26981	37421	3.35%	0.172%
38	11.145	1536	1540	1543	rVV2	27212	43362	3.88%	0.200%
39	11.180	1543	1546	1550	rVV	41598	46680	4.18%	0.215%
40	11.227	1550	1554	1557	rVV3	33032	42152	3.77%	0.194%
41	11.274	1557	1562	1566	rVB	75201	79406	7.11%	0.366%
42	11.374	1575	1579	1581	rBV	841964	761174	68.16%	3.504%
43	11.398	1581	1583	1587	rVV	1133861	996325	89.22%	4.586%
44	11.451	1589	1592	1595	rVV	329959	270648	24.24%	1.246%
45	11.486	1595	1598	1604	rVB2	36649	45153	4.04%	0.208%
46	11.610	1612	1619	1624	rBV	115275	138500	12.40%	0.638%
47	11.874	1659	1664	1667	rBV	108225	112643	10.09%	0.519%
48	11.904	1667	1669	1673	rVB	150747	118231	10.59%	0.544%
49	11.951	1674	1677	1680	rBV	59745	51361	4.60%	0.236%
50	11.992	1680	1684	1686	rBV2	285915	275871	24.70%	1.270%
51	12.168	1712	1714	1717	rVB	79145	61238	5.48%	0.282%
52	12.204	1717	1720	1725	rBV	43232	41131	3.68%	0.189%
53	12.427	1755	1758	1760	rBV	44318	45697	4.09%	0.210%
54	12.463	1760	1764	1766	rVV3	34654	46186	4.14%	0.213%
55	12.515	1769	1773	1777	rBV3	30411	40685	3.64%	0.187%
56	12.592	1782	1786	1789	rBV	1322926	1116750	100.00%	5.141%
57	12.621	1789	1791	1794	rVV2	71123	62441	5.59%	0.287%
58	12.739	1804	1811	1814	rBV2	50552	66301	5.94%	0.305%
59	12.821	1822	1825	1828	rVV	1179283	1065424	95.40%	4.904%
60	12.868	1831	1833	1837	rVB2	49740	48815	4.37%	0.225%
61	12.951	1841	1847	1850	rBV2	394331	406058	36.36%	1.869%
62	12.980	1850	1852	1855	rVB2	51390	45792	4.10%	0.211%
63	13.039	1857	1862	1865	rBV3	60802	99803	8.94%	0.459%
64	13.121	1873	1876	1877	rBV2	58940	59744	5.35%	0.275%
65	13.145	1877	1880	1883	rVB	158088	141516	12.67%	0.651%
66	13.210	1888	1891	1894	rBV	133518	114063	10.21%	0.525%
67	13.251	1894	1898	1900	rBV2	86655	92054	8.24%	0.424%
68	13.345	1911	1914	1916	rVB	43781	36991	3.31%	0.170%
69	13.374	1916	1919	1922	rBV3	47393	49980	4.48%	0.230%
70	13.627	1959	1962	1965	rBV3	27800	36967	3.31%	0.170%
71	13.657	1965	1967	1971	rVB	66597	58100	5.20%	0.267%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

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_F\METHODS\8270-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.768	1982	1986	1988	rBV	77303	80524	7.21%	0.371%
73	13.792	1988	1990	1992	rBV	62451	45639	4.09%	0.210%
74	13.815	1992	1994	1996	rBV2	65806	60211	5.39%	0.277%
75	13.868	2001	2003	2006	rVB	41391	34352	3.08%	0.158%
76	13.933	2010	2014	2019	rBV2	26156	55733	4.99%	0.257%
77	13.980	2019	2022	2024	rBV2	125472	127544	11.42%	0.587%
78	14.015	2024	2028	2031	rVV2	837420	1116361	99.97%	5.139%
79	14.045	2031	2033	2036	rVB	392942	303087	27.14%	1.395%
80	14.121	2043	2046	2048	rBV	87925	91157	8.16%	0.420%
81	14.174	2052	2055	2058	rBV2	111019	105771	9.47%	0.487%
82	14.209	2058	2061	2063	rBV3	43977	37750	3.38%	0.174%
83	14.233	2063	2065	2066	rBV	36444	29888	2.68%	0.138%
84	14.362	2085	2087	2089	rBV2	40553	37252	3.34%	0.171%
85	14.404	2089	2094	2097	rVB	84731	93606	8.38%	0.431%
86	14.433	2097	2099	2102	rBV	35002	35968	3.22%	0.166%
87	14.527	2112	2115	2117	rVV2	57864	51649	4.62%	0.238%
88	14.545	2117	2118	2121	rVB	53471	43706	3.91%	0.201%
89	14.721	2145	2148	2151	rBV3	36561	41912	3.75%	0.193%
90	14.904	2175	2179	2185	rBV3	40343	61246	5.48%	0.282%
91	15.062	2201	2206	2209	rBV	361366	569953	51.04%	2.624%
92	15.168	2221	2224	2229	rBV	82336	89044	7.97%	0.410%
93	15.362	2253	2257	2264	rVB	211274	291067	26.06%	1.340%
94	15.427	2264	2268	2273	rBV	310591	403320	36.12%	1.857%
95	15.492	2273	2279	2282	rVV	569041	755958	67.69%	3.480%
96	15.521	2282	2284	2291	rVB2	103468	136016	12.18%	0.626%
97	16.056	2372	2375	2378	rBV4	30581	35163	3.15%	0.162%
98	16.974	2525	2531	2541	rBV	145489	343440	30.75%	1.581%
99	17.427	2602	2608	2618	rBV	106288	219943	19.69%	1.012%
100	17.674	2646	2650	2663	rVB5	44213	131912	11.81%	0.607%

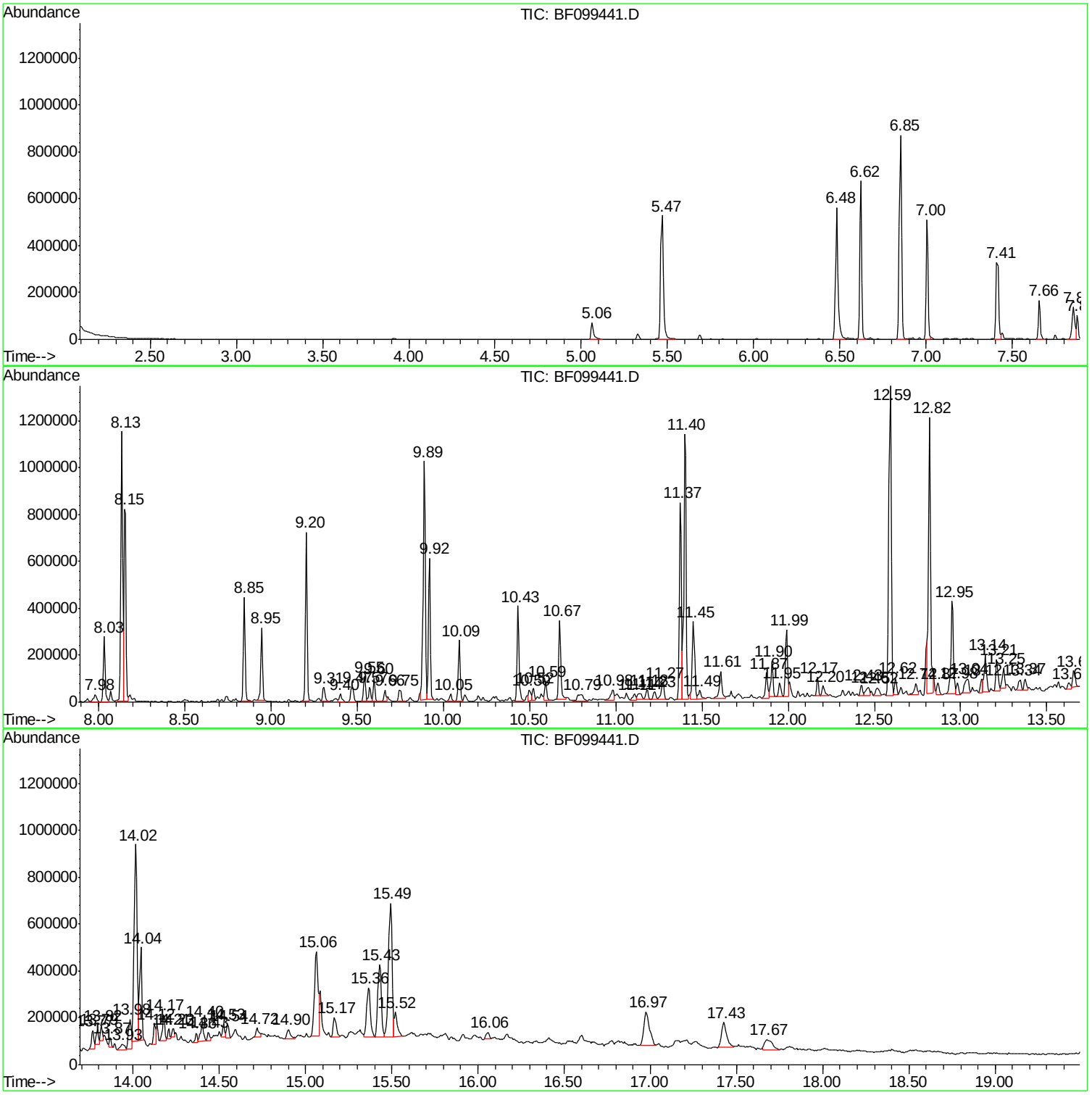
Sum of corrected areas: 21724461

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

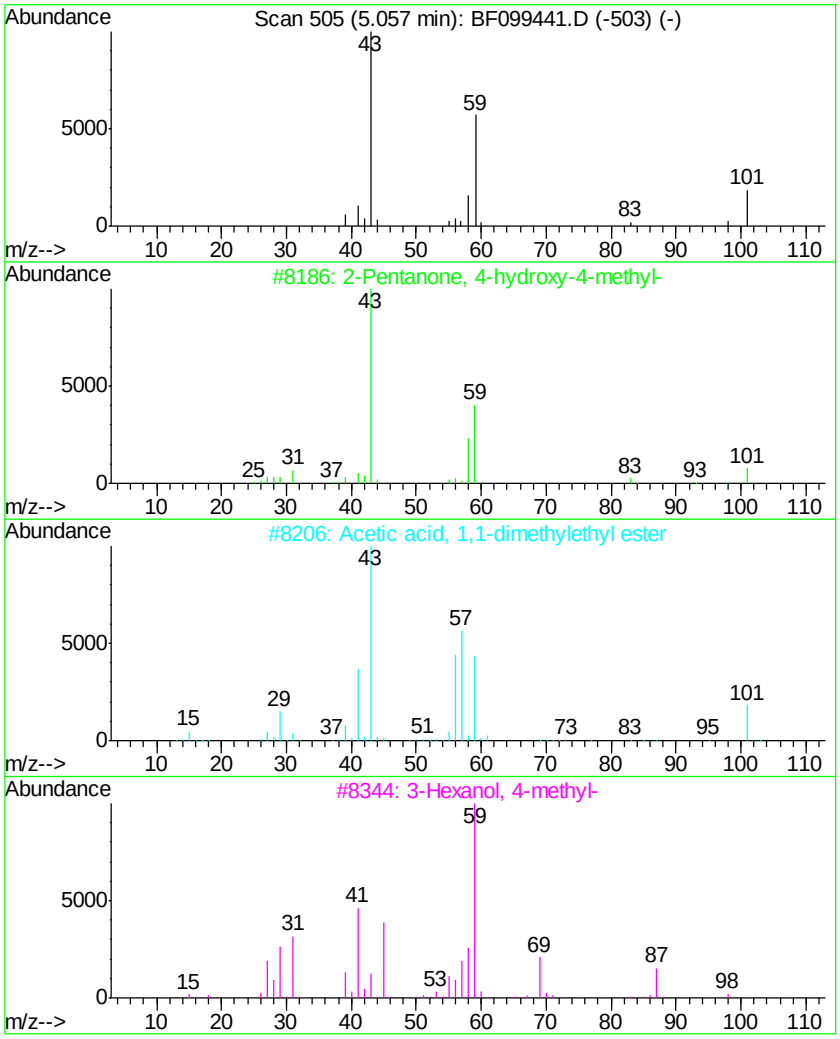
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

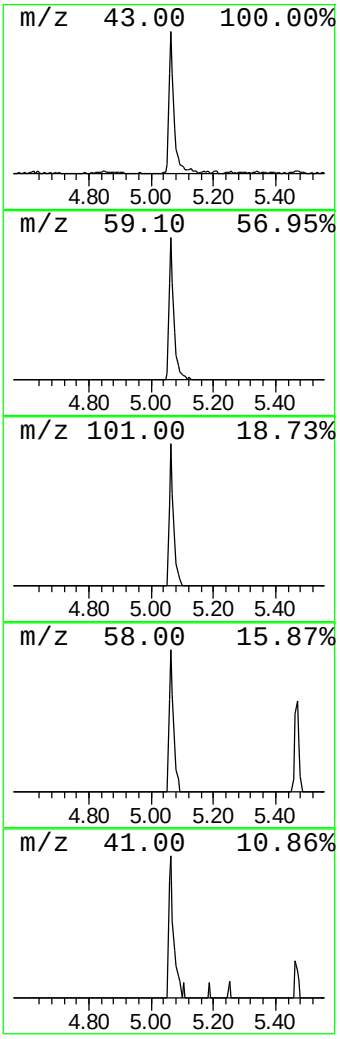
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.06	2.26 ng	77646	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5	Acetone	58	C3H6O	000067-64-1	9





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

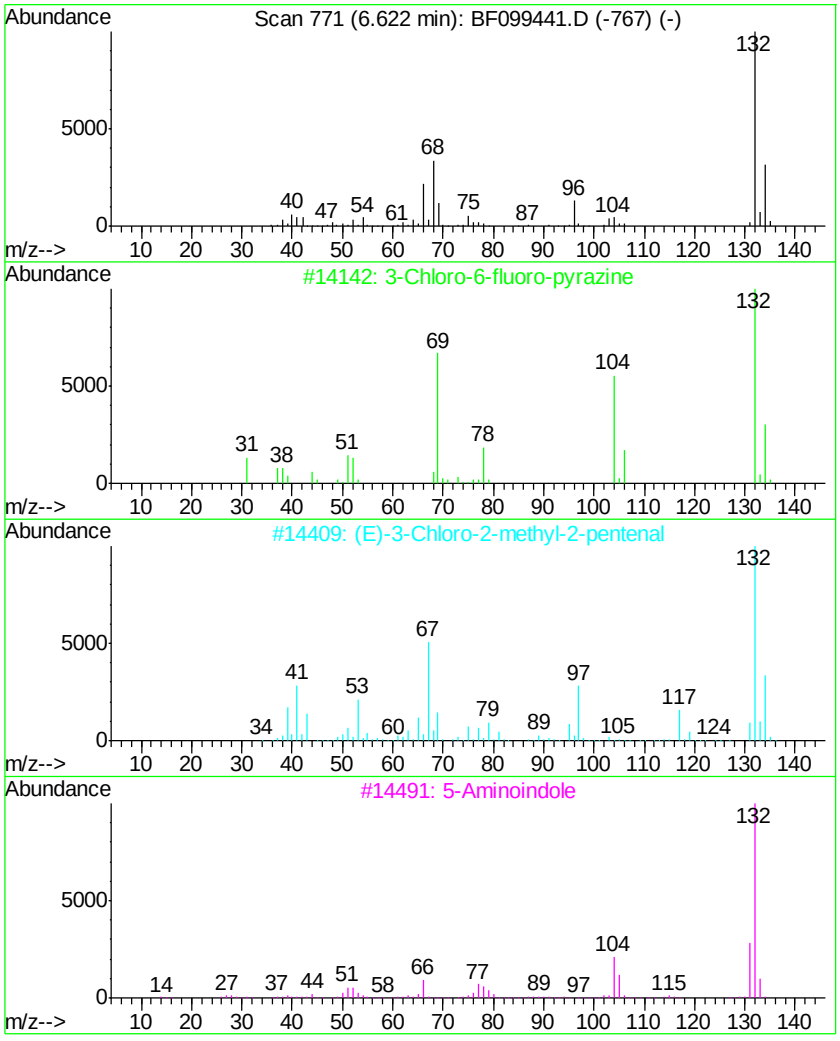
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

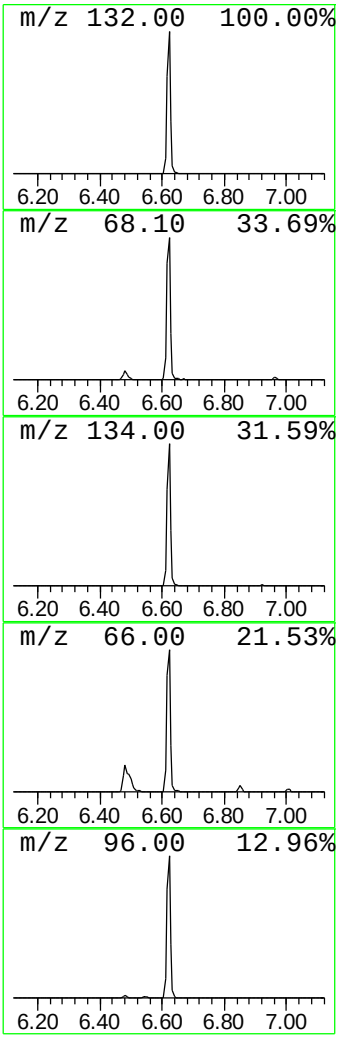
****

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	16.07 ng	551924	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	38
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

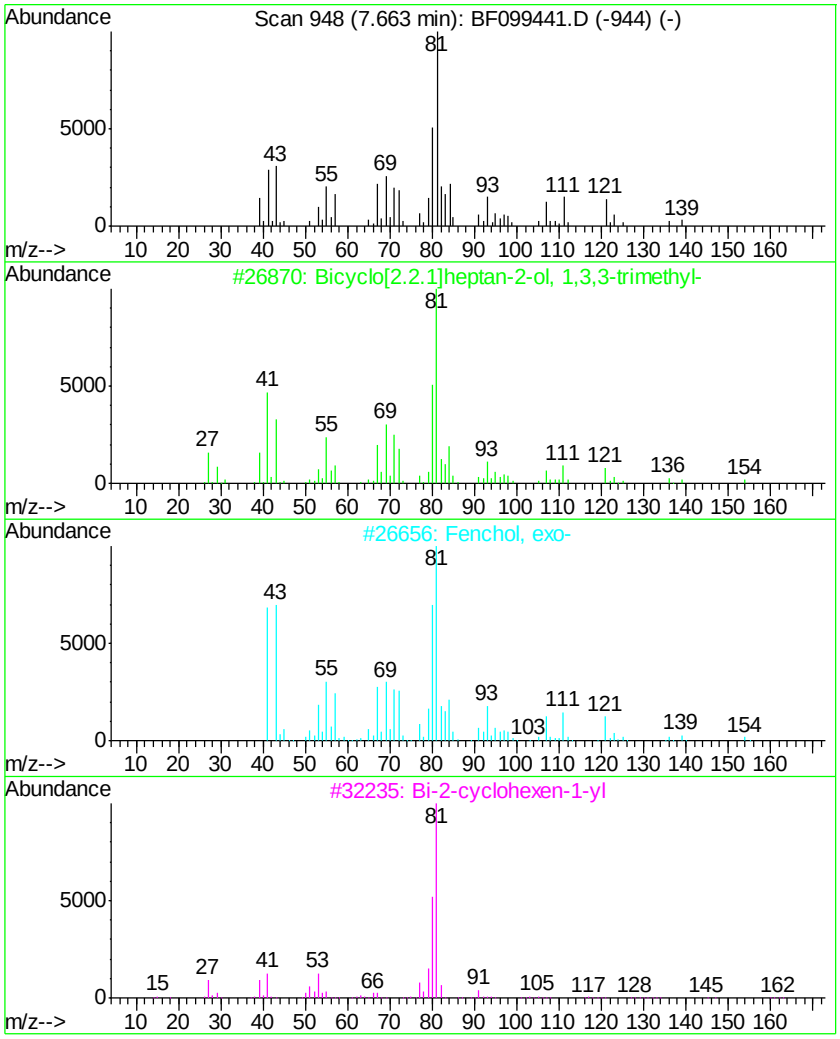
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

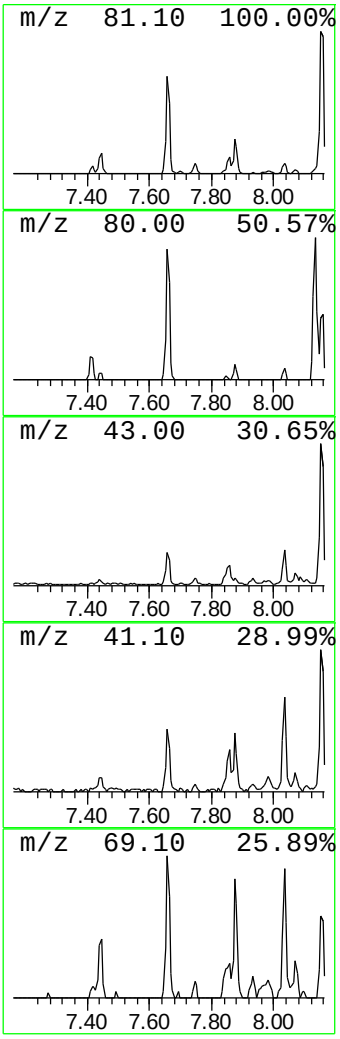
****

Peak Number 4 Bicyclo[2.2.1]heptan-2-ol, ... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.66	2.70 ng	133365	Naphthalene-d8	8.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptan-2-ol, 1,3,3...	154	C10H18O	001632-73-1	91
2	Fenchol, exo-	154	C10H18O	022627-95-8	91
3	Bi-2-cyclohexen-1-yl	162	C12H18	001541-20-4	43
4	Bicyclo[2.2.1]heptan-2-ol, 1,3,3...	154	C10H18O	002217-02-9	37
5	2,4-Nonadienal, (E,E)-	138	C9H14O	005910-87-2	35





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PUMPING-PLANT-1-5-COMP

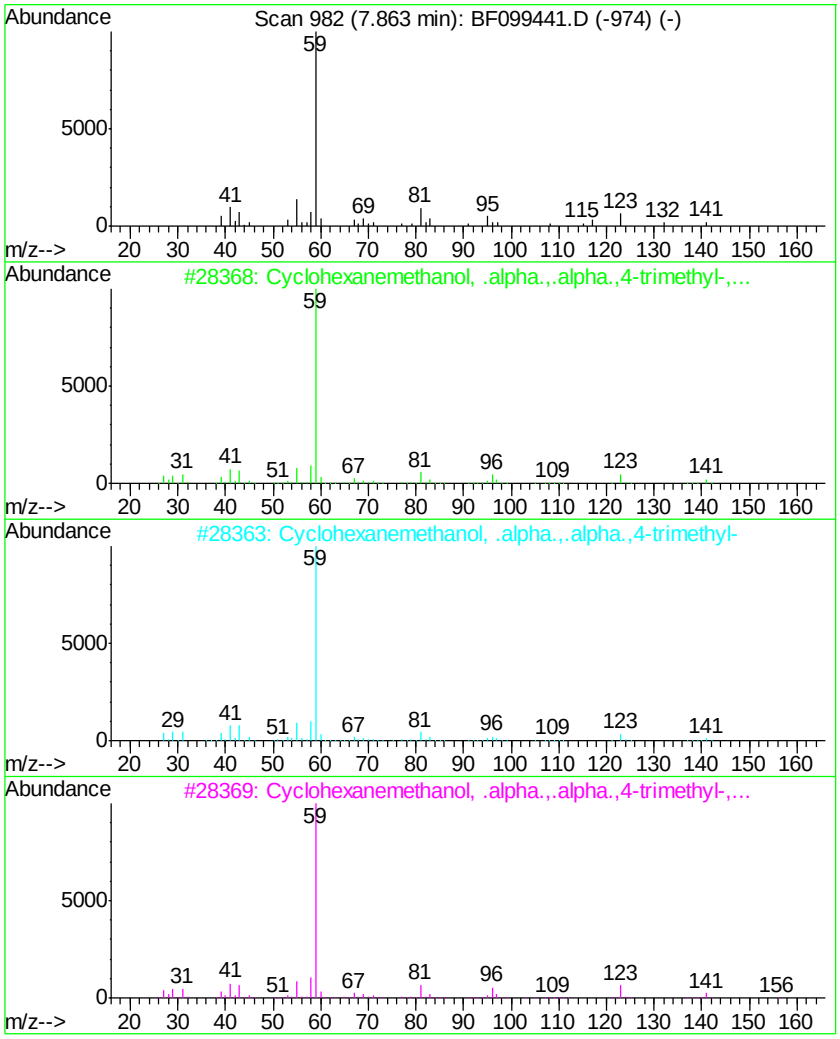
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

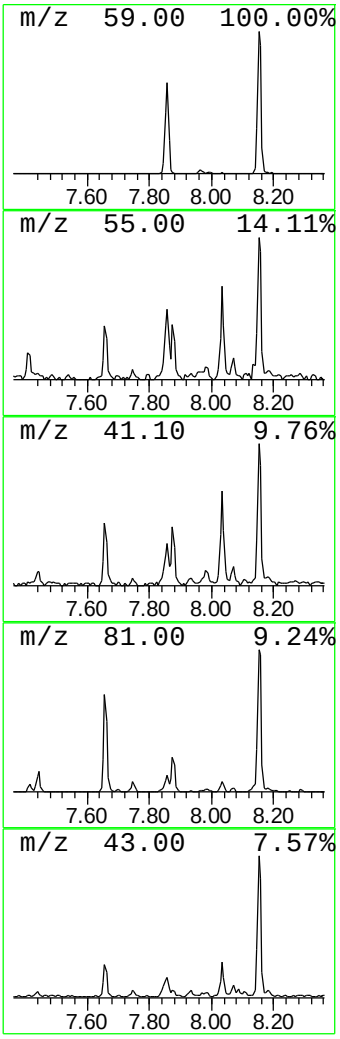
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Cyclohexanemethanol, .alpha... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	2.85 ng	140721	Naphthalene-d8	8.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	007322-63-6	83
2	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	000498-81-7	83
3	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	005114-00-1	74
4	Butane, 2-methoxy-3-methyl-	102	C6H14O	062016-49-3	64
5	2,3-Dimethyl-4-penten-2-ol	114	C7H14O	019781-52-3	50





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

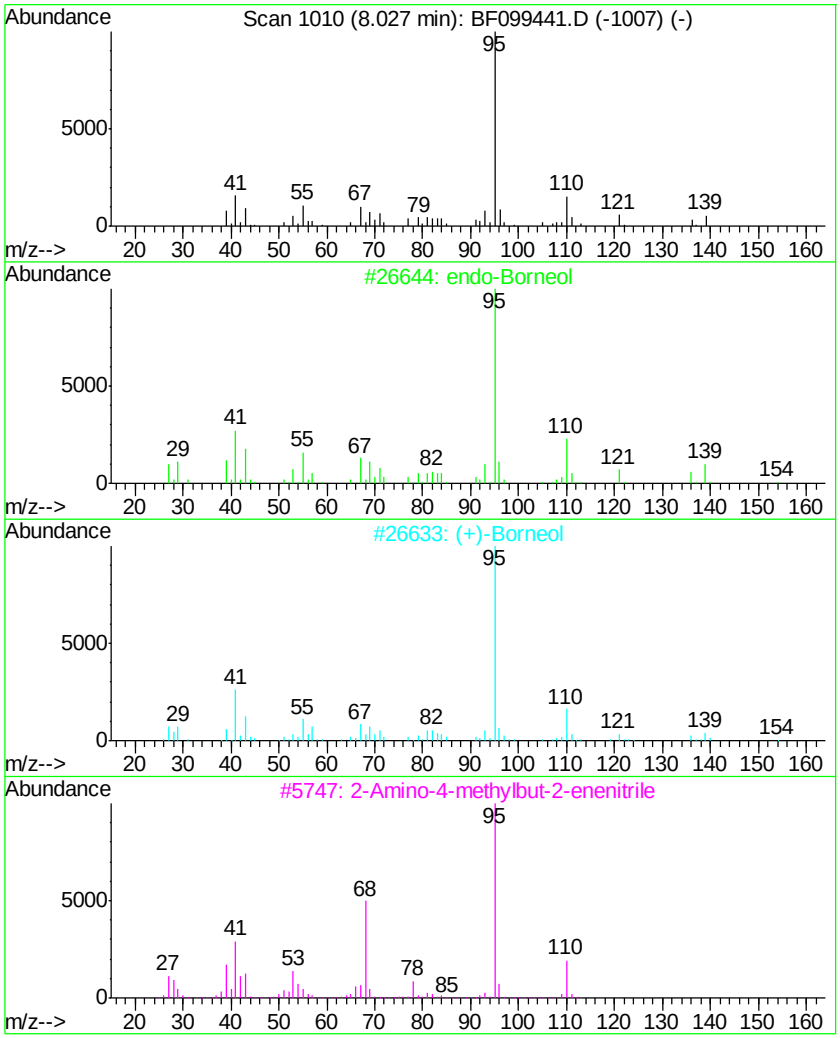
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

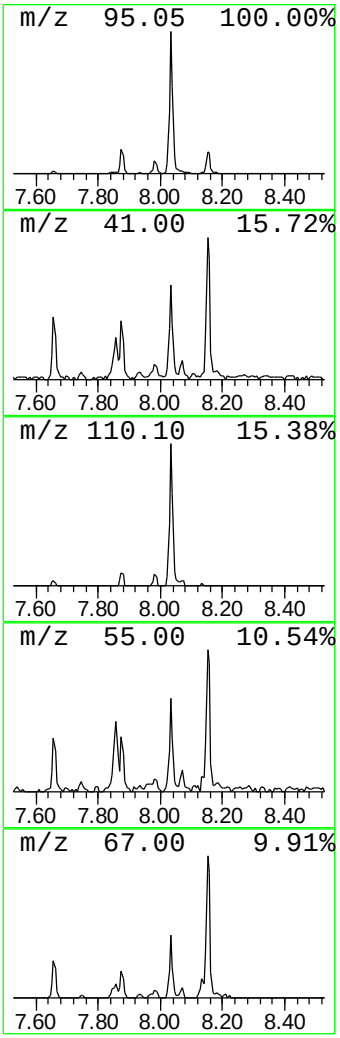
****

Peak Number 6 endo-Borneol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.03	4.51 ng	222947	Naphthalene-d8	8.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	endo-Borneol	154	C10H18O	000507-70-0	83
2	(+)-Borneol	154	C10H18O	1000150-76-3	72
3	2-Amino-4-methylbut-2-enenitrile	110	C6H10N2	1000197-39-9	64
4	Furan, 2-ethyl-5-methyl-	110	C7H10O	001703-52-2	64
5	Bicyclo[2.2.1]heptane, 2-(1,1-di...	164	C12H20	069219-08-5	59





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

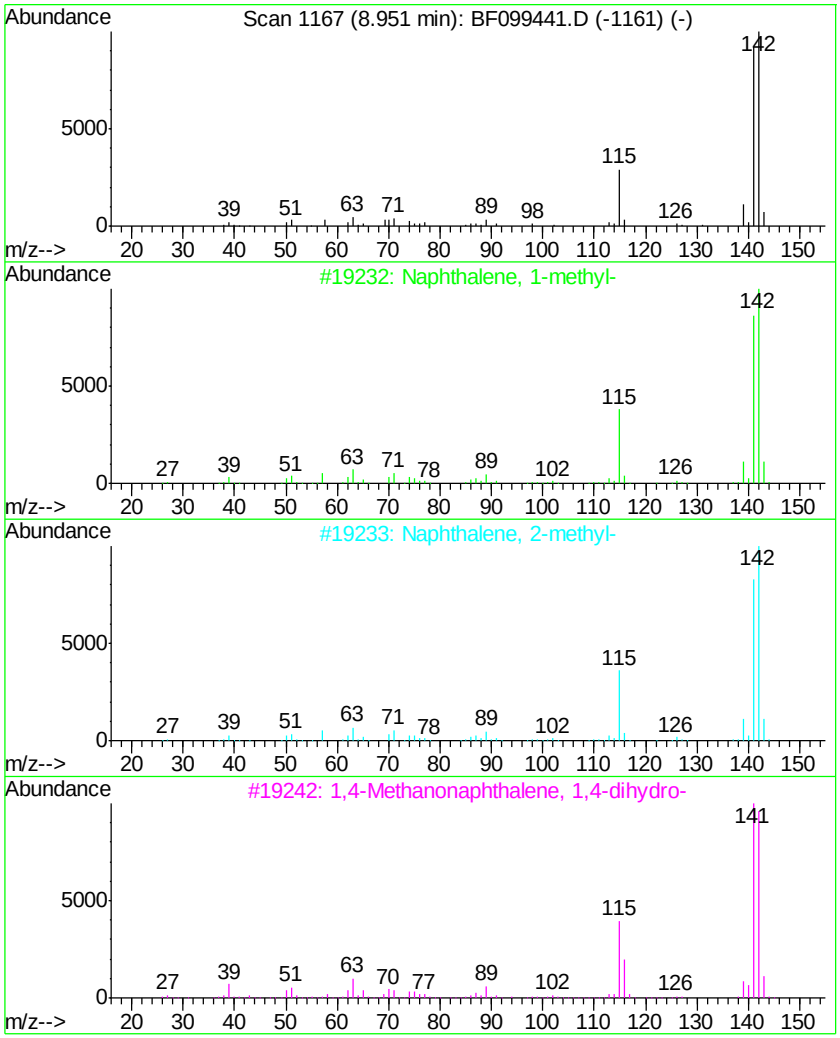
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

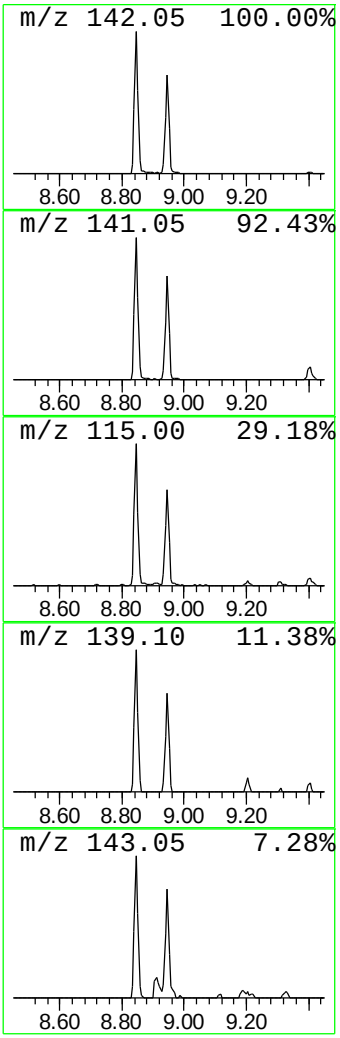
****

Peak Number 7 Naphthalene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.95	4.87 ng	240588	Naphthalene-d8	8.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	47





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

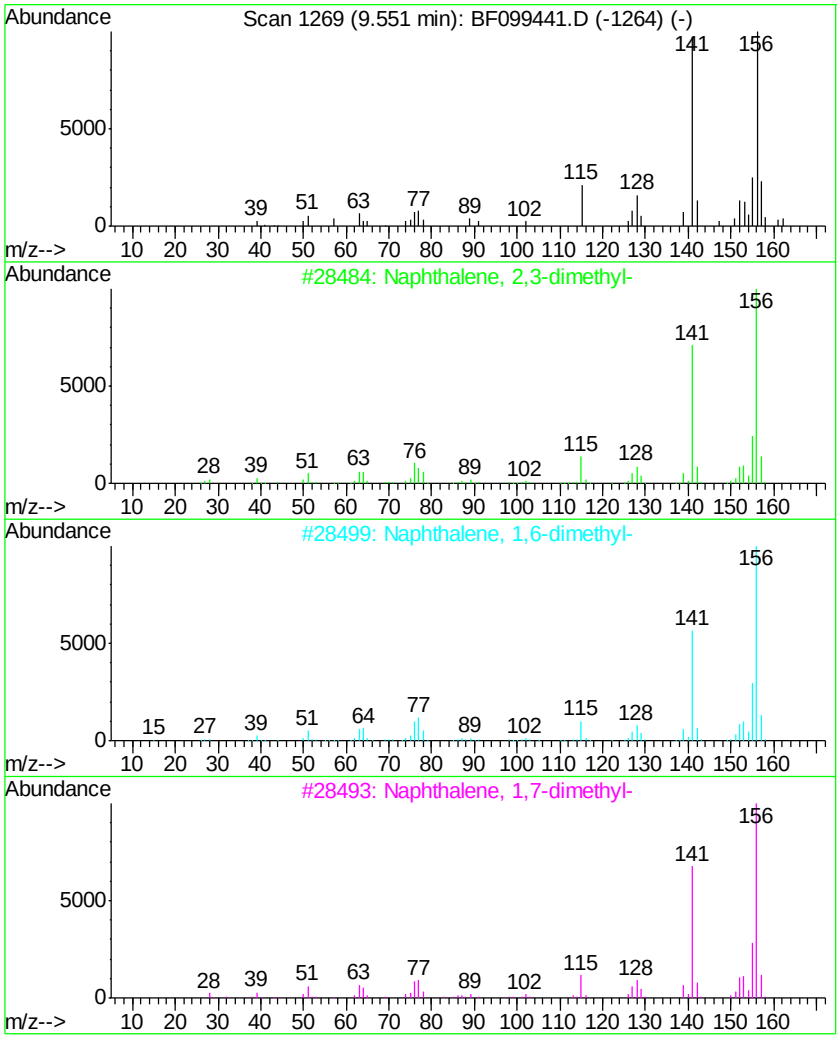
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

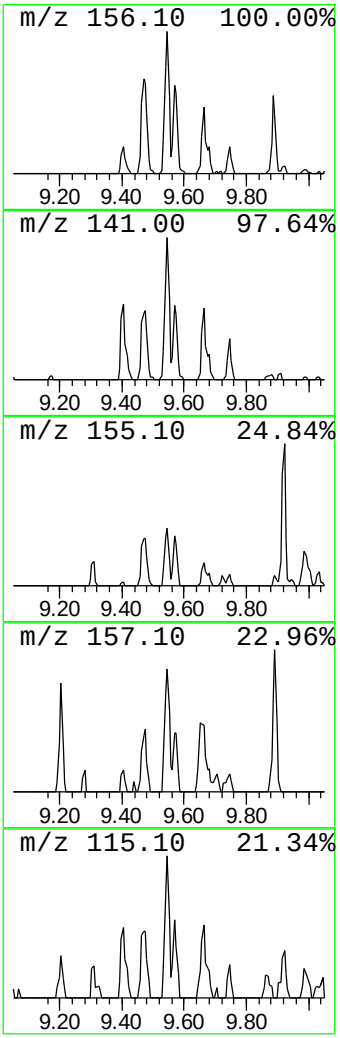
****

Peak Number 8 Naphthalene, 2,3-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.55	2.23 ng	99155	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

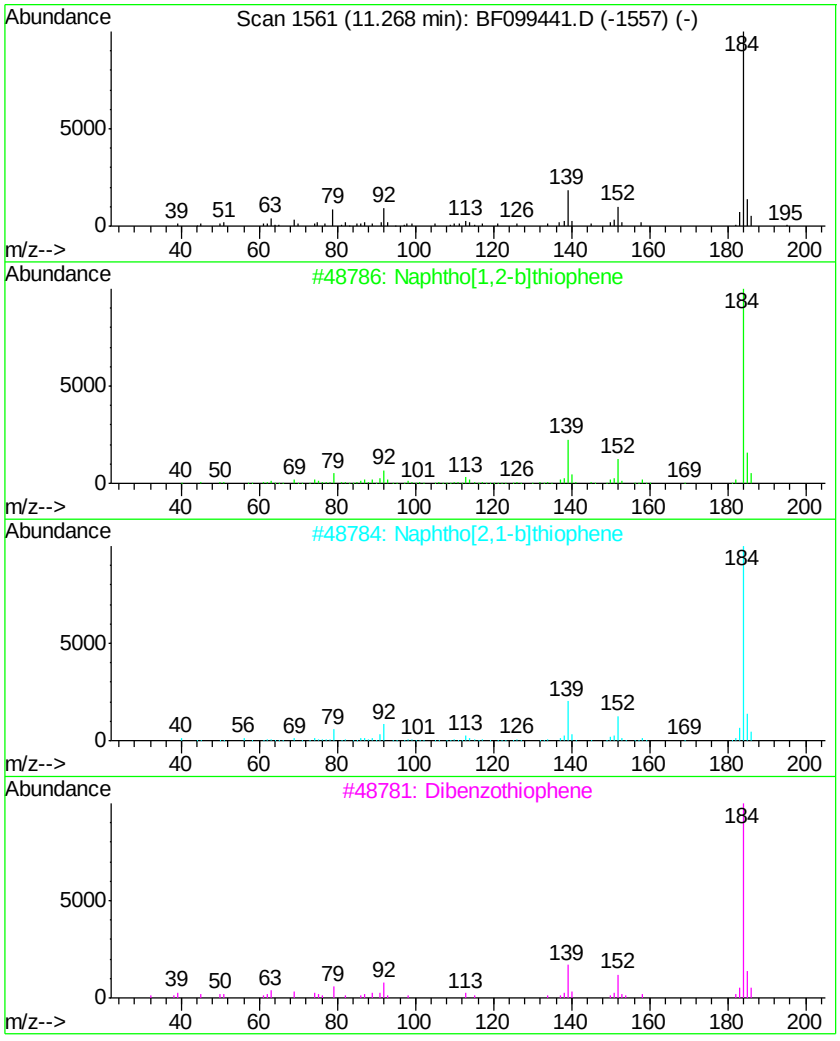
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

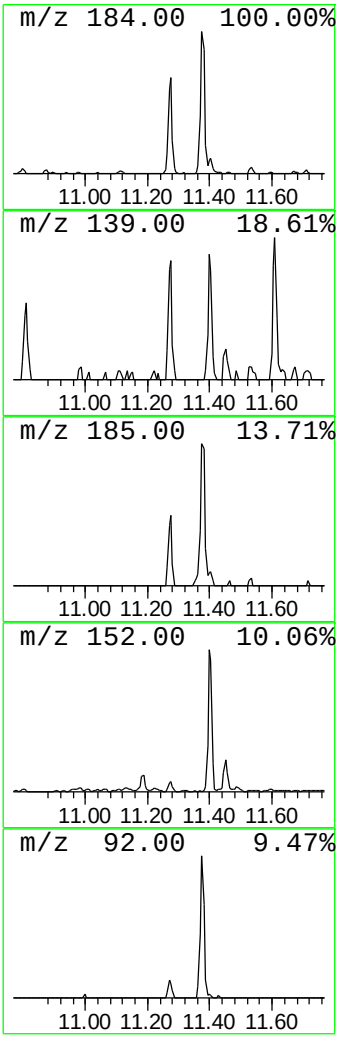
****

Peak Number 9 Naphtho[1,2-b]thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	2.09 ng	79406	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
3	Dibenzothiophene	184	C12H8S	000132-65-0	96
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

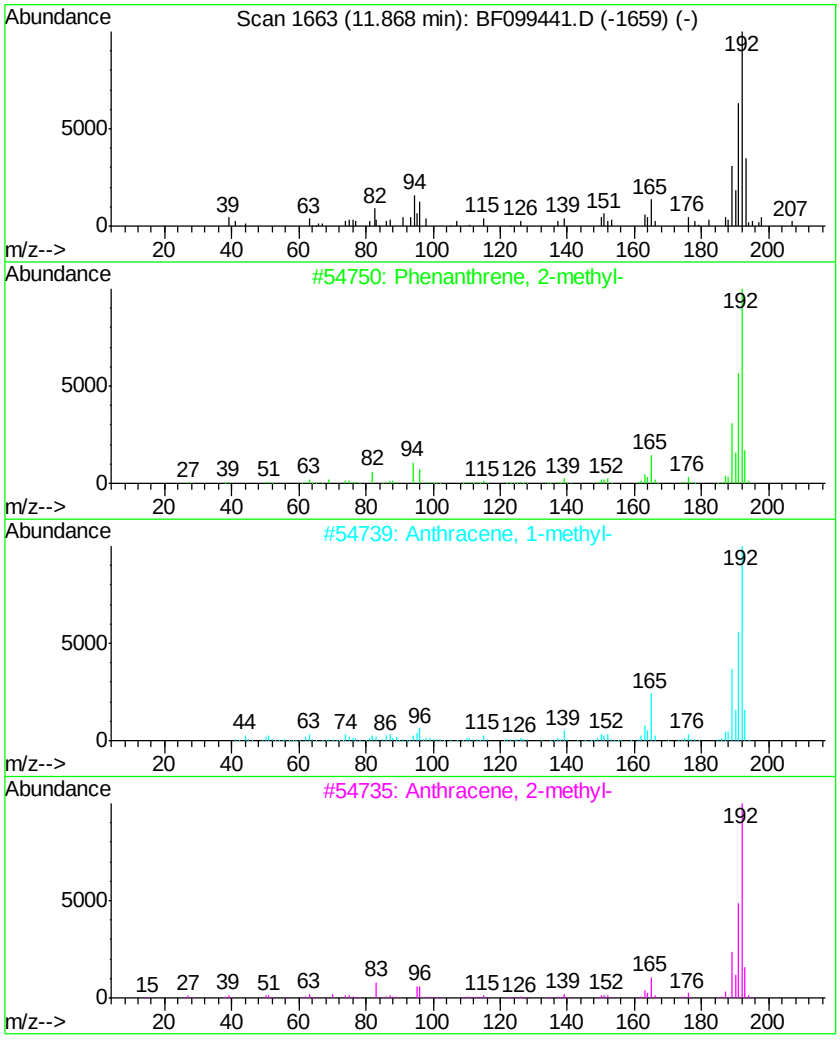
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

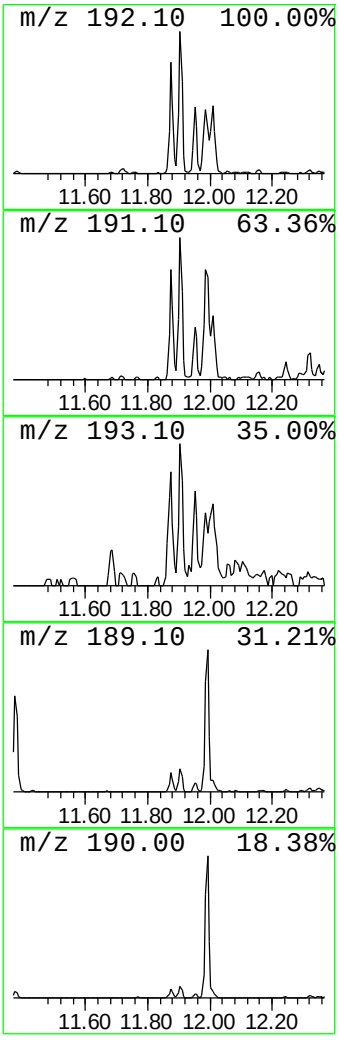
****

Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	2.96 ng	112643	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

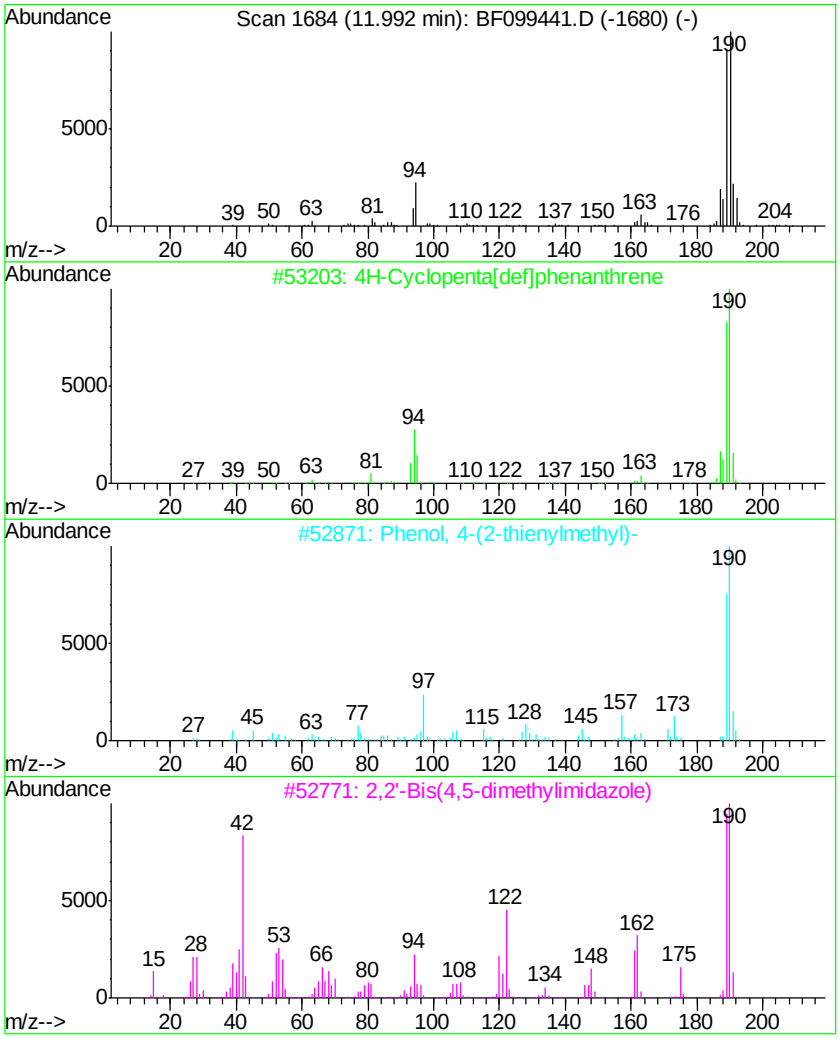
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

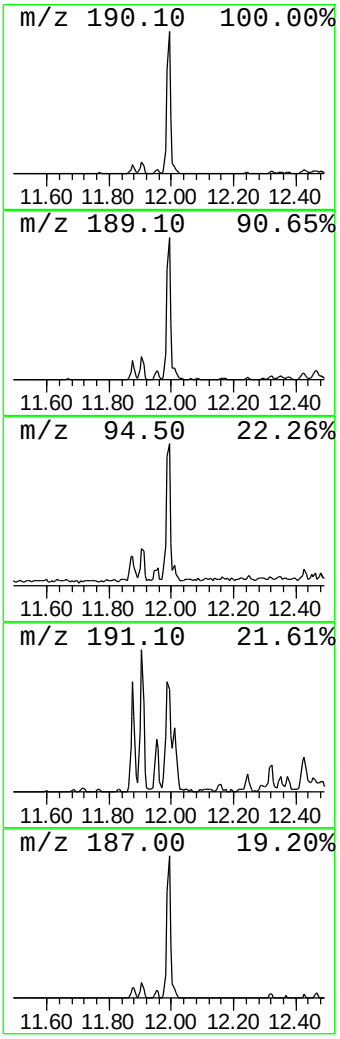
****

Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	7.25 ng	275871	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	97
2	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	59
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

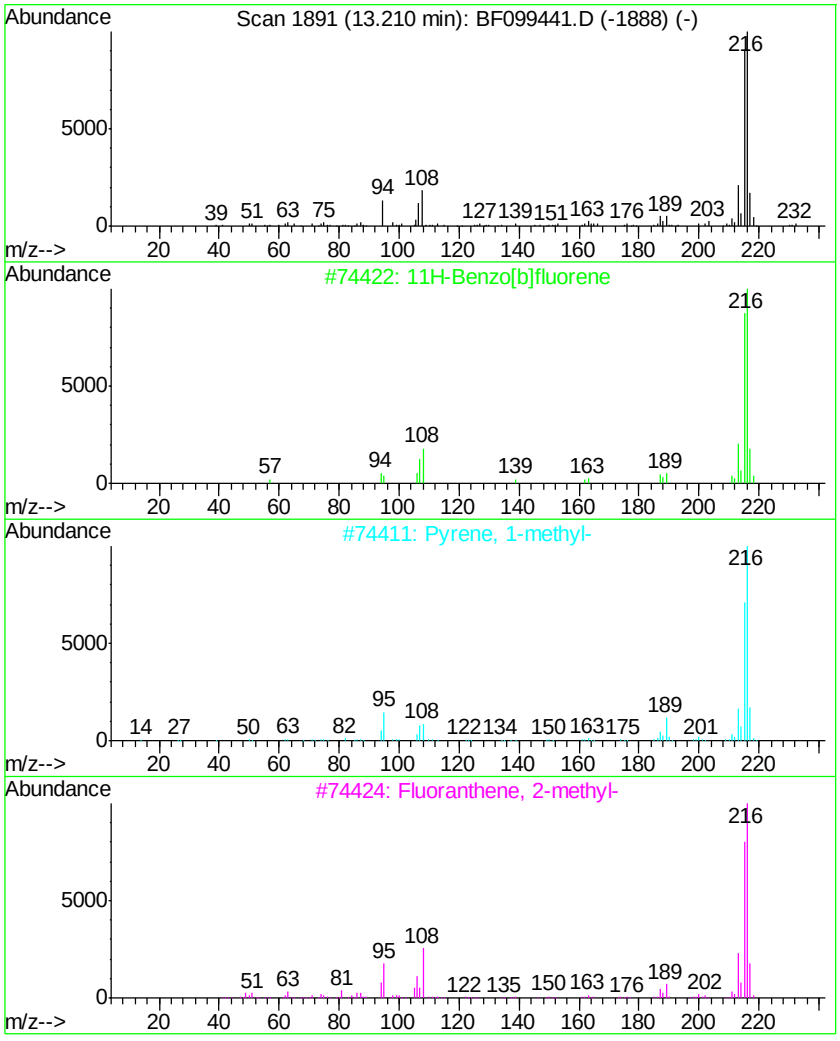
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

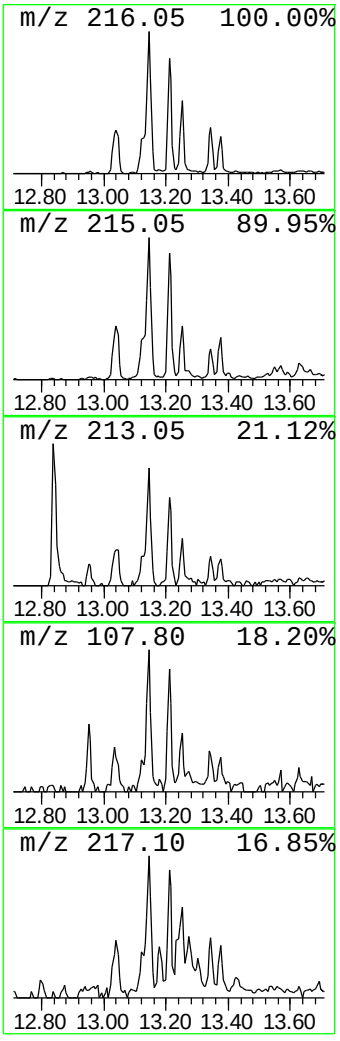
****

Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.21	2.04 ng	114063	Chrysene-d12	14.02

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	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

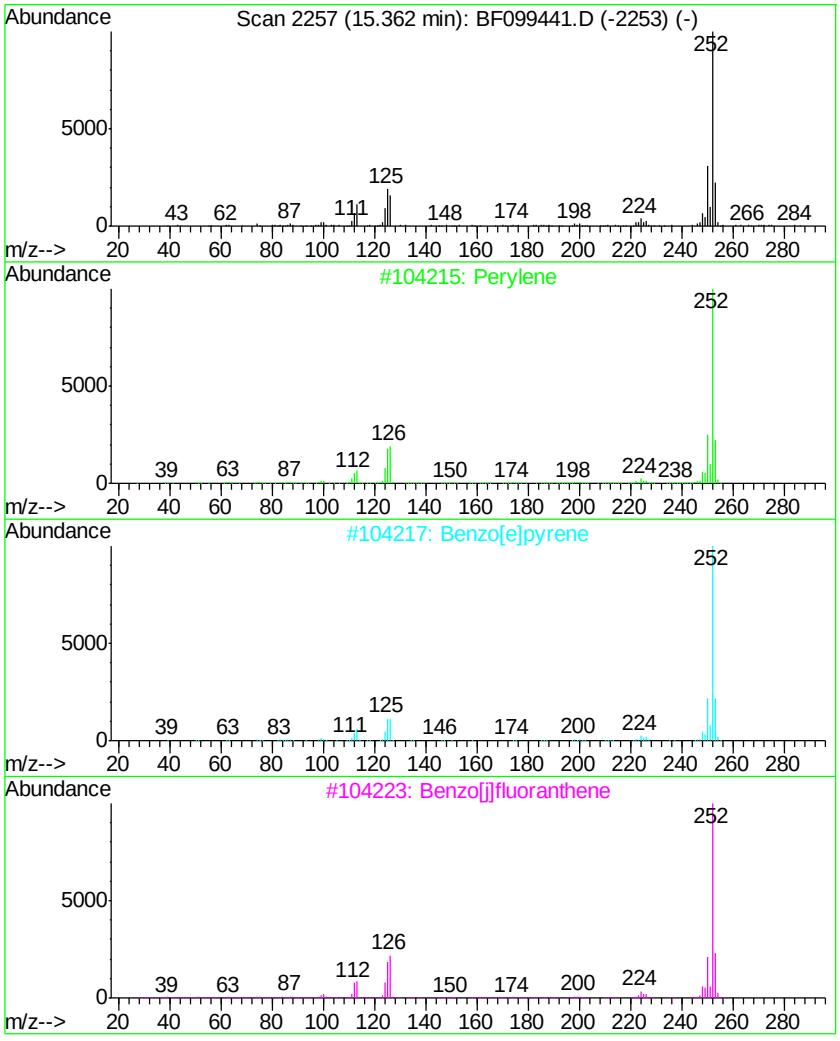
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

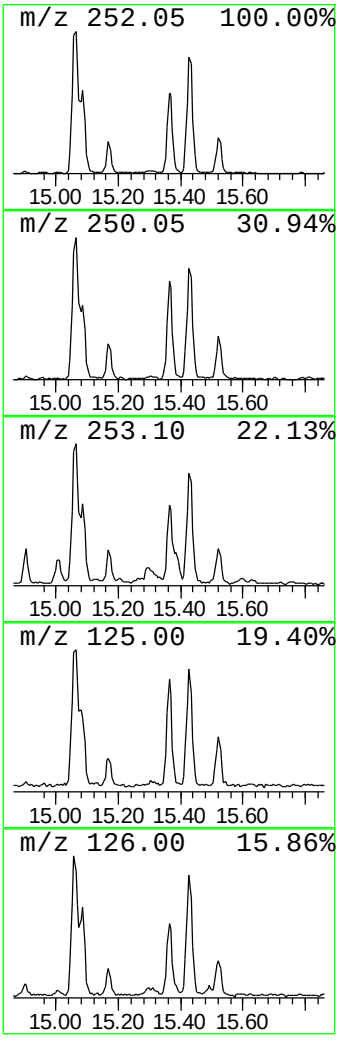
****

Peak Number 16 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	7.70 ng	291067	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	98
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

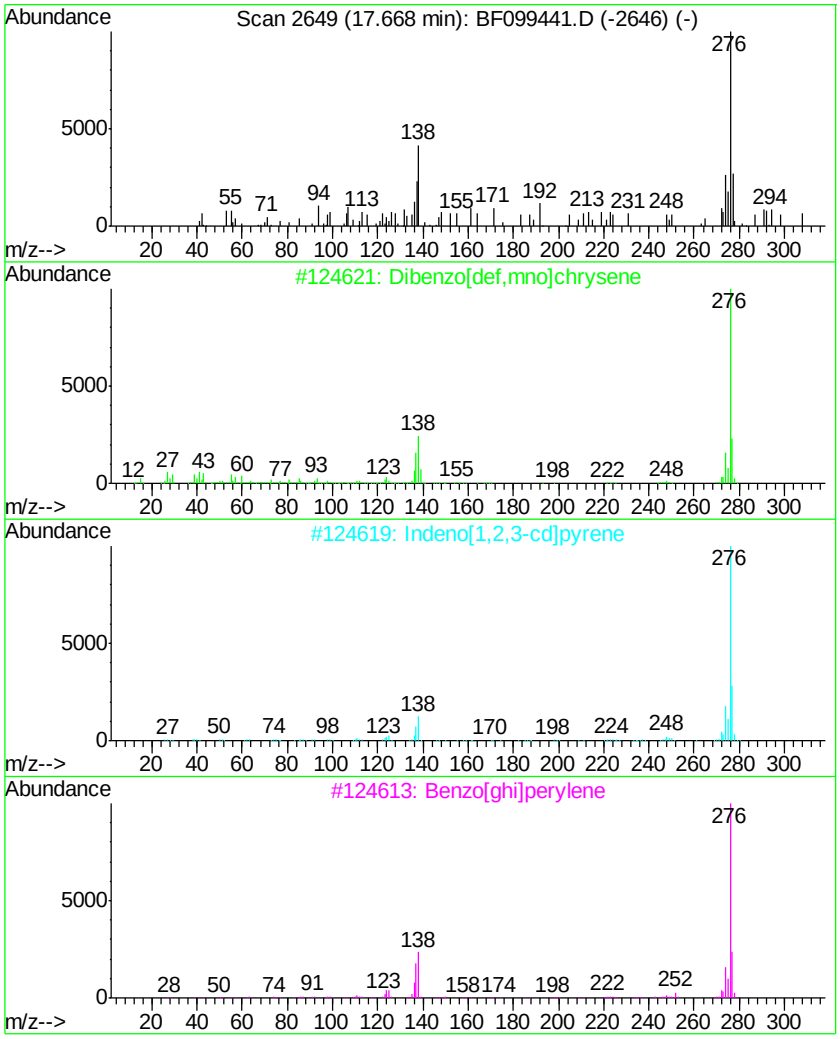
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

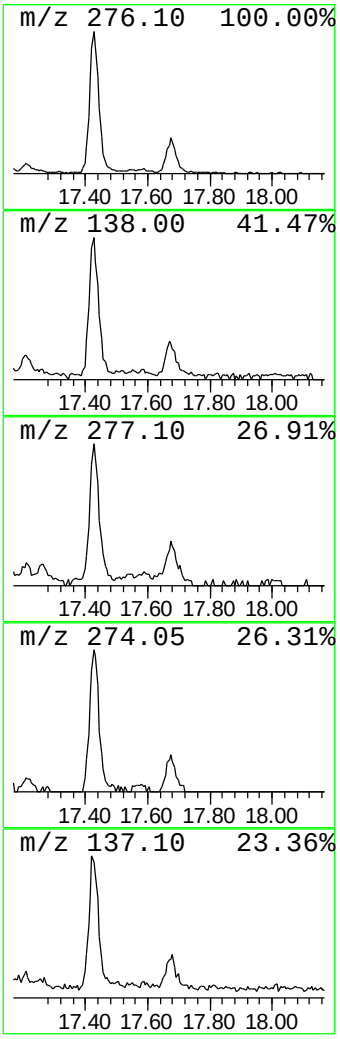
****

Peak Number 17 Dibenzo[def,mno]chrysene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.67	3.49 ng	131912	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	89
2	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	76
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	64
5	1-Naphthalenecarboxylic acid, 2-...	276	C18H12O3	038119-11-8	55





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
Data File : BF099441.D
Acq On : 13 Oct 2017 16:02
Operator : SJ/JU
Sample : I5780-01 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PUMPING-PLANT-1-5-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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-Pentanone, 4-hy...	5.06	2.3	ng	77646	1	6.85	686851	20.0
unknown6.62	6.62	16.1	ng	551924	1	6.85	686851	20.0
Bicyclo[2.2.1]hep...	7.66	2.7	ng	133365	2	8.13	988278	20.0
Cyclohexanemethan...	7.86	2.9	ng	140721	2	8.13	988278	20.0
endo-Borneol	8.03	4.5	ng	222947	2	8.13	988278	20.0
Naphthalene, 1-me...	8.95	4.9	ng	240588	2	8.13	988278	20.0
Naphthalene, 2,3-...	9.55	2.2	ng	99155	3	9.89	890070	20.0
Naphtho[1,2-b]thi...	11.27	2.1	ng	79406	4	11.37	761174	20.0
Phenanthrene, 2-m...	11.87	3.0	ng	112643	4	11.37	761174	20.0
4H-Cyclopenta[def...	11.99	7.3	ng	275871	4	11.37	761174	20.0
11H-Benzo[b]fluorene	13.21	2.0	ng	114063	5	14.02	1116360	20.0
Perylene	15.36	7.7	ng	291067	6	15.49	755958	20.0
Dibenzo[def,mno]c...	17.67	3.5	ng	131912	6	15.49	755958	20.0