LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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	2.210	15	21	27	rVB	897042	1178031	11.69%	0.753%
2	5.134	513	518	531	rVB	722414	982104	9.75%	0.628%
3	5.534	580	586	589	rBV	4918820	4989171	49.53%	3.188%
4	6.540	751	757	769	rBV	4809751	5653812	56.13%	3.613%
5	6.687	776	782	785	rBV	5689156	5508350	54.68%	3.520%
6	6.916	817	821	824	rBV	1477174	1186028	11.77%	0.758%
7	7.075	843	848	850	rBV	4715735	4115157	40.85%	2.629%
8	7.481	911	917	920	rBV	3159818	3344223	33.20%	2.137%
9	8.198	1033	1039	1042	rBV	1919278	1889817	18.76%	1.208%
10	8.222	1042	1043	1047	rVB	674375	379344	3.77%	0.242%
11	8.916	1157	1161	1166	rBV	438372	347182	3.45%	0.222%
12	9.016	1173	1178	1182	rVB	517392	419208	4.16%	0.268%
13	9.281	1218	1223	1226	rBV	6562075	6016136	59.73%	3.844%
14	9.545	1262	1268	1272	rBV	227400	334426	3.32%	0.214%
15	9.622	1276	1281	1283	rBV	468925	498679	4.95%	0.319%
16	9.675	1287	1290	1293	rVB	652056	538904	5.35%	0.344%
17	9.822	1312	1315	1319	rVB	437183	357660	3.55%	0.229%
18	9.963	1336	1339	1342	rVB	2210081	1882747	18.69%	1.203%
19	9.998	1342	1345	1348	rVB	2280839	1760276	17.48%	1.125%
20	10.169	1370	1374	1377	rVB	1252577	1072269	10.64%	0.685%
21	10.516	1429	1433	1438	rVB	1951543	1822415	18.09%	1.164%
22	10.581	1438	1444	1446	rBV	381520	581214	5.77%	0.371%
23	10.598	1446	1447	1450	rVV	420939	346739	3.44%	0.222%
24	10.669	1457	1459	1464	rVB	697512	625489	6.21%	0.400%
25	10.757	1468	1474	1478	rVV	4828305	4656029	46.22%	2.975%
26	10.880	1485	1495	1501	rVB3	217536	360595	3.58%	0.230%
27	11.063	1519	1526	1529	rBV4	554381	829508	8.23%	0.530%
28	11.145	1537	1540	1543	rVB2	272547	285926	2.84%	0.183%
29	11.192	1543	1548	1550	rBV3	418874	553465	5.49%	0.354%
30	11.216	1550	1552	1556	rVV	463522	472769	4.69%	0.302%
31	11.263	1556	1560	1564	rVB	528621	558013	5.54%	0.357%
32	11.304	1564	1567	1573	rBV3	445039	797675	7.92%	0.510%
33	11.351	1573	1575	1581	rVB	964176	953272	9.46%	0.609%
34	11.463	1590	1594	1595	rBV	1777194	1931937	19.18%	1.234%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.492	1595	1599	1602	rVV	9067200	10073021	100.00%	6.436%
36	11.539	1602	1607	1609	rVV	3266642	3165649	31.43%	2.023%
37	11.563	1609	1611	1614	rVB2	480015	426916	4.24%	0.273%
38	11.686	1626	1632	1634	rBV2	1510863	1555160	15.44%	0.994%
39	11.710	1634	1636	1640	rVV3	202548	283004	2.81%	0.181%
40	11.751	1640	1643	1646	rVV3	306964	353325	3.51%	0.226%
41	11.786	1647	1649	1654	rVV3	264008	331971	3.30%	0.212%
42	11.963	1673	1679	1681	rBV	1591683	1649781	16.38%	1.054%
43	11.992	1681	1684	1687	rVB	2326447	2086410	20.71%	1.333%
44	12.039	1687	1692	1695	rBV	976544	950456	9.44%	0.607%
45	12.075	1695	1698	1700	rBV	2289832	2489299	24.71%	1.591%
46	12.098	1700	1702	1705	rVB	1135257	889061	8.83%	0.568%
47	12.257	1726	1729	1731	rVV	1120225	911839	9.05%	0.583%
48	12.280	1731	1733	1736	rVB	966665	726098	7.21%	0.464%
49	12.404	1749	1754	1757	rBV2	387552	397118	3.94%	0.254%
50	12.510	1766	1772	1776	rBV	726254	1044501	10.37%	0.667%
51	12.551	1776	1779	1781	rVV	494551	553909	5.50%	0.354%
52	12.598	1784	1787	1793	rVB3	545110	708576	7.03%	0.453%
53	12.686	1796	1802	1805	rBV	7798297	8679107	86.16%	5.546%
54	12.810	1819	1823	1824	rBV2	294998	385307	3.83%	0.246%
55	12.827	1824	1826	1829	rVB	389736	313572	3.11%	0.200%
56	12.916	1834	1841	1845	rBV2	6793214	9332752	92.65%	5.963%
57	12.951	1845	1847	1853	rVB2	633743	712886	7.08%	0.456%
58	13.022	1856	1859	1861	rBV	716365	794990	7.89%	0.508%
59	13.051	1861	1864	1870	rVB	4904258	5257666	52.20%	3.359%
60	13.127	1870	1877	1880	rBV2	693101	1268385	12.59%	0.810%
61	13.210	1884	1891	1892	rBV3	576386	724430	7.19%	0.463%
62	13.233	1892	1895	1898	rVB	1573762	1550513	15.39%	0.991%
63	13.298	1904	1906	1909	rVV	1072057	988907	9.82%	0.632%
64	13.339	1909	1913	1916	rVV2	1018498	1148463	11.40%	0.734%
65	13.433	1926	1929	1931	rBV	490190	399764	3.97%	0.255%
66	13.463	1931	1934	1937	rBV2	528533	523158	5.19%	0.334%
67	13.621	1956	1961	1962	rBV3	230235	348901	3.46%	0.223%
68	13.739	1979	1981	1986	rVV	554896	701605	6.97%	0.448%
69	13.857	1996	2001	2003	rVV2	635684	885004	8.79%	0.565%
70	13.886	2003	2006	2008	rVV	849287	887917	8.81%	0.567%
71	13.910	2008	2010	2014	rVV2	566065	859104	8.53%	0.549%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.951	2014	2017	2024	rVV2	749899	981468	9.74%	0.627%
73	14.021	2024	2029	2036	rVB2	227182	447787	4.45%	0.286%
74	14.104	2036	2043	2046	rBV3	4378743	6274407	62.29%	4.009%
75	14.139	2046	2049	2054	rVB	3815508	3649241	36.23%	2.332%
76	14.216	2059	2062	2064	rVV	774830	657294	6.53%	0.420%
77	14.269	2068	2071	2073	rVV3	252052	339725	3.37%	0.217%
78	14.292	2073	2075	2078	rVV2	414490	385337	3.83%	0.246%
79	14.327	2078	2081	2085	rVV2	496823	647731	6.43%	0.414%
80	14.492	2105	2109	2112	rVV	960348	1069898	10.62%	0.684%
81	14.527	2112	2115	2118	rVV	586450	576307	5.72%	0.368%
82	14.592	2119	2126	2128	rVV4	399875	839775	8.34%	0.537%
83	14.621	2128	2131	2133	rVV	491806	565327	5.61%	0.361%
84	14.645	2133	2135	2138	rVV2	494433	456303	4.53%	0.292%
85	14.692	2138	2143	2150	rVB4	260063	471915	4.68%	0.302%
86	14.804	2159	2162	2166	rBV2	285508	416180	4.13%	0.266%
87	15.004	2188	2196	2199	rBV2	274342	490956	4.87%	0.314%
88	15.174	2219	2225	2228	rBV	2391294	4058679	40.29%	2.593%
89	15.245	2233	2237	2240	rVV3	283012	352781	3.50%	0.225%
90	15.280	2240	2243	2247	rVB	571190	588834	5.85%	0.376%
91	15.492	2273	2279	2284	rVB	1325213	2034609	20.20%	1.300%
92	15.557	2284	2290	2295	rVB	2331020	2924133	29.03%	1.868%
93	15.615	2295	2300	2303	rBV	1026494	1426810	14.16%	0.912%
94	15.651	2303	2306	2313	rVB2	737264	1054455	10.47%	0.674%
95	16.951	2521	2527	2538	rBV5	129137	425728	4.23%	0.272%
96	17.145	2554	2560	2569	rVB2	785599	1642038	16.30%	1.049%
97	17.333	2586	2592	2596	rBV	191933	370673	3.68%	0.237%
98	17.392	2597	2602	2607	rBV2	156859	292322	2.90%	0.187%
99	17.609	2632	2639	2650	rVB	501089	1109479	11.01%	0.709%
100	17.851	2674	2680	2686	rVB	183848	368517	3.66%	0.235%

Sum of corrected areas: 156505804

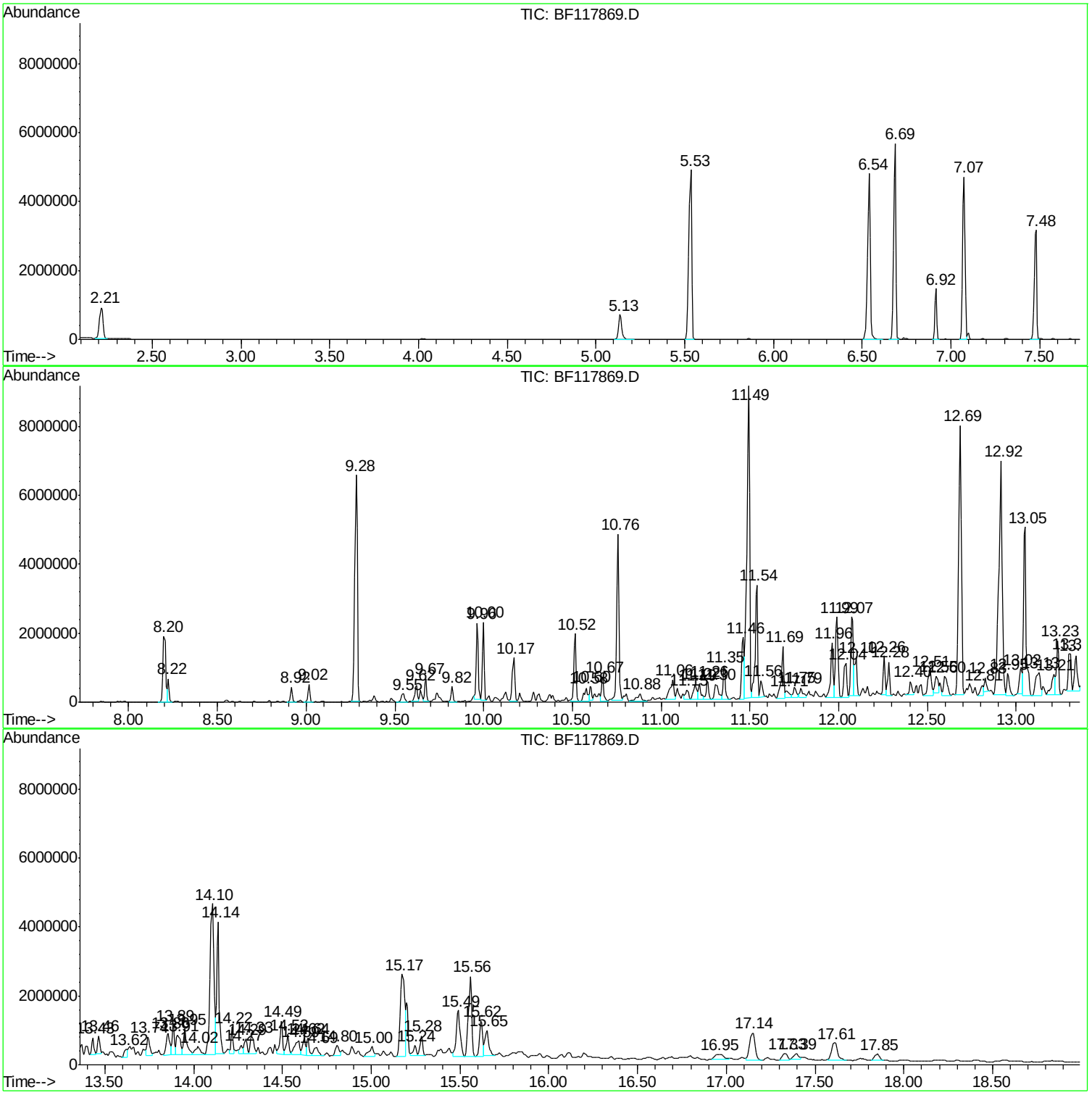
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

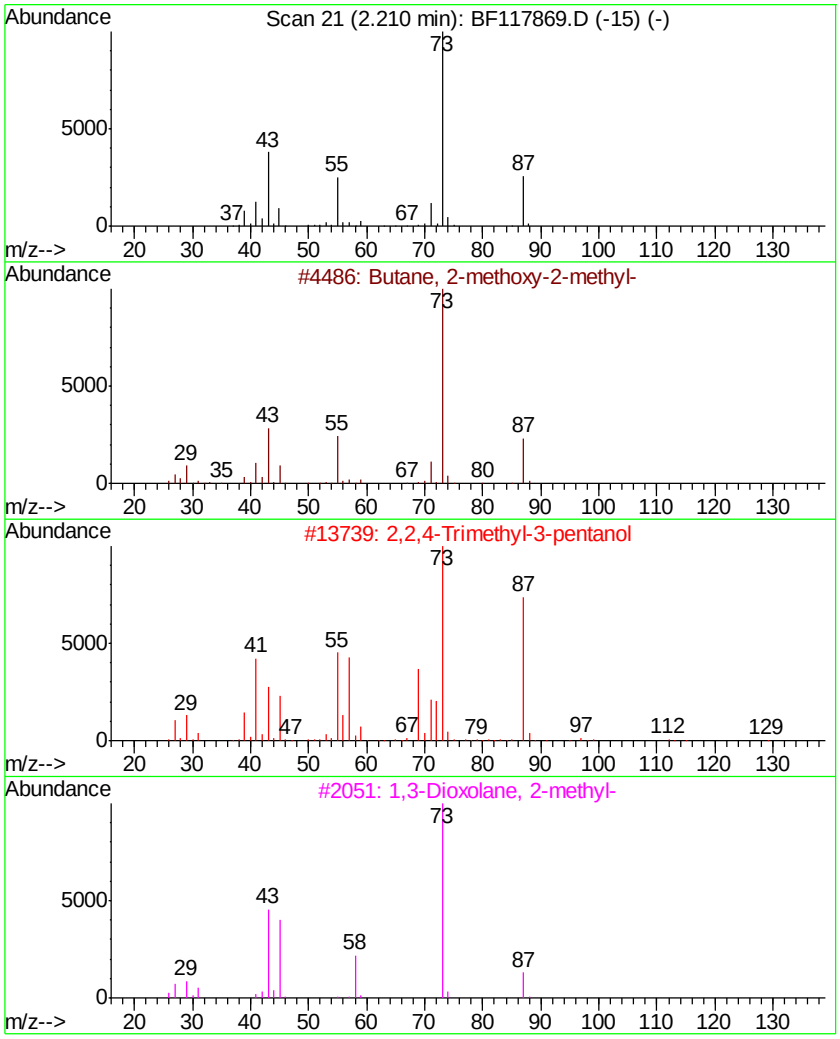
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

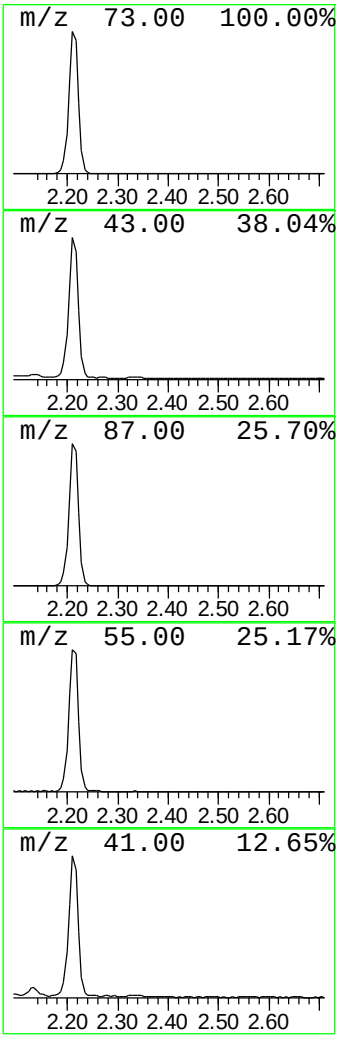
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.21	19.87 ng	1178030	1,4-Dichlorobenzene-d4	6.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	37
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

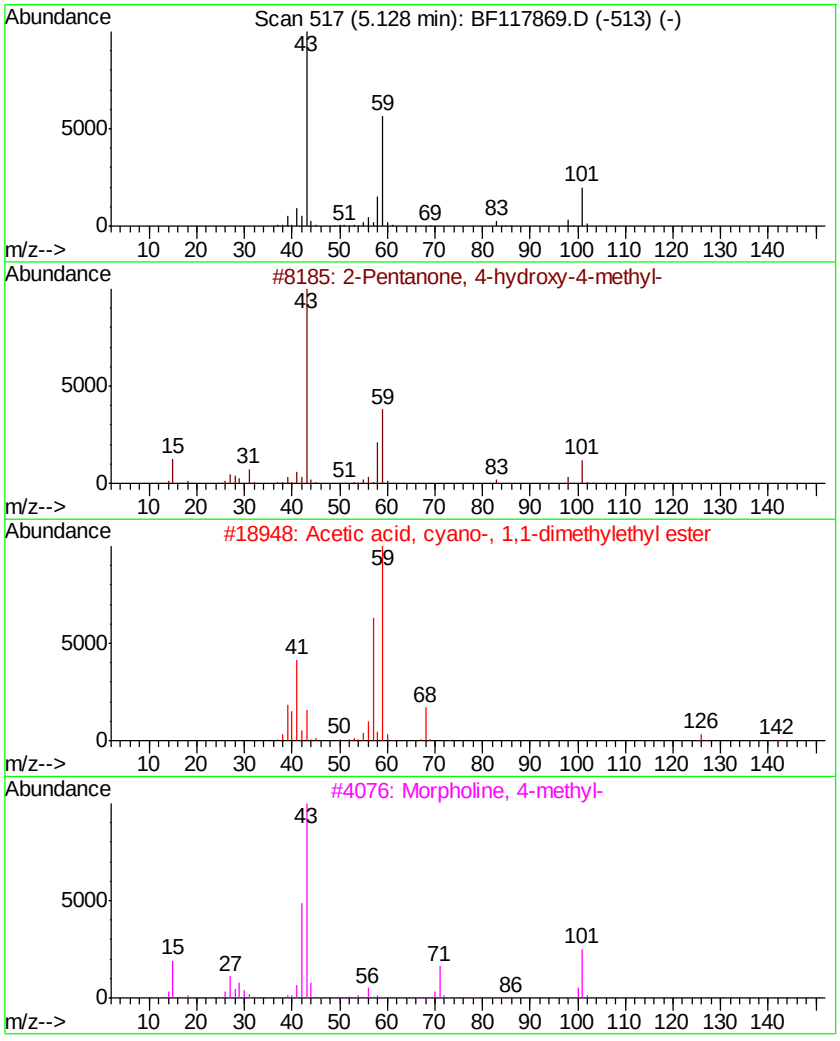
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

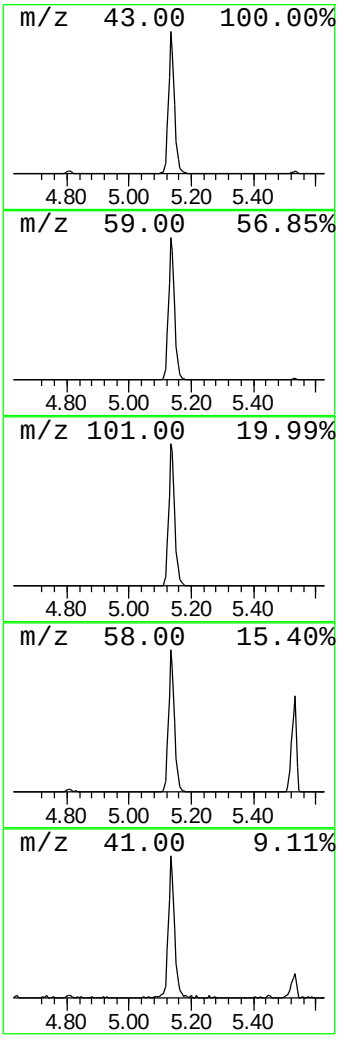
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.13	16.56 ng	982104	1,4-Dichlorobenzene-d4	6.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
3	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
5	1,3-Dioxolane-2-methanol, 2,4-di...	132	C6H12O3	053951-43-2	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

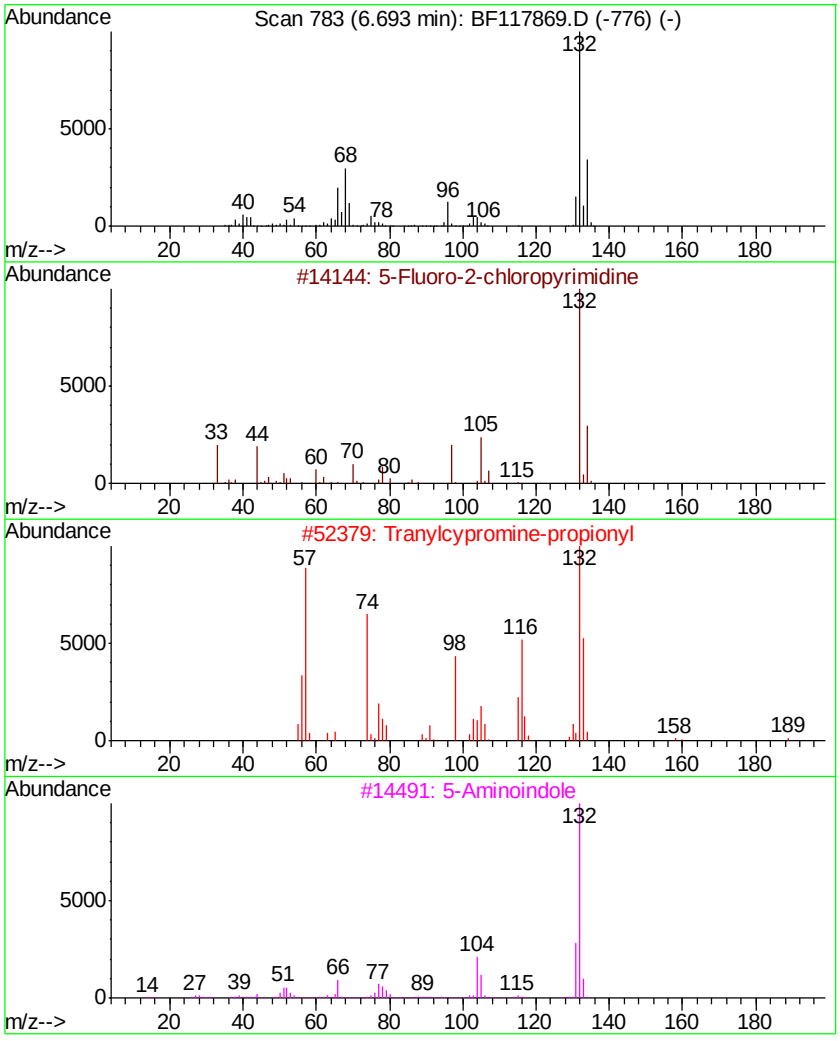
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

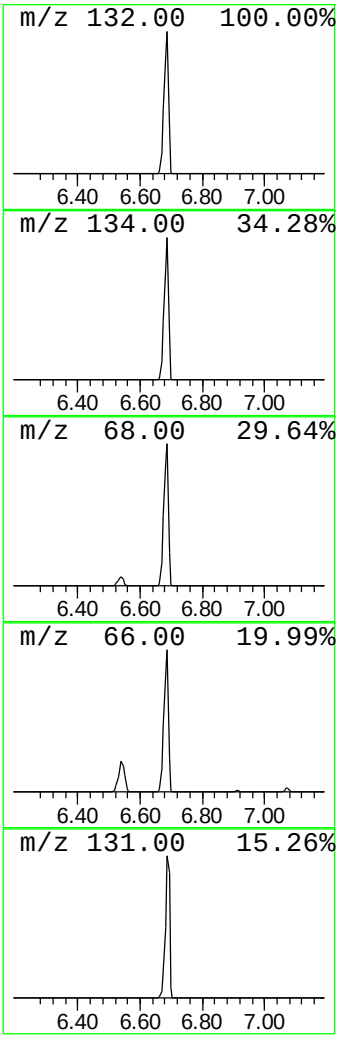
****

Peak Number 3 unknown6.69 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.69	92.89 ng	5508350	1,4-Dichlorobenzene-d4	6.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Xenon	132	Xe	007440-63-3	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

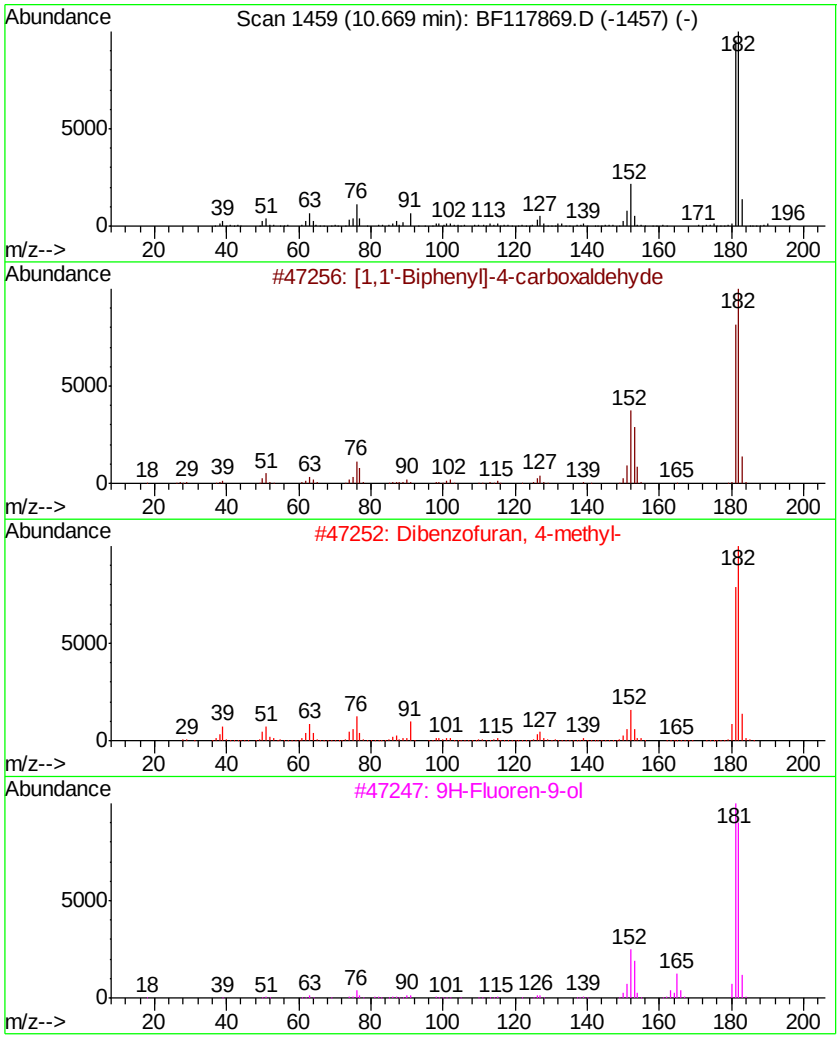
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

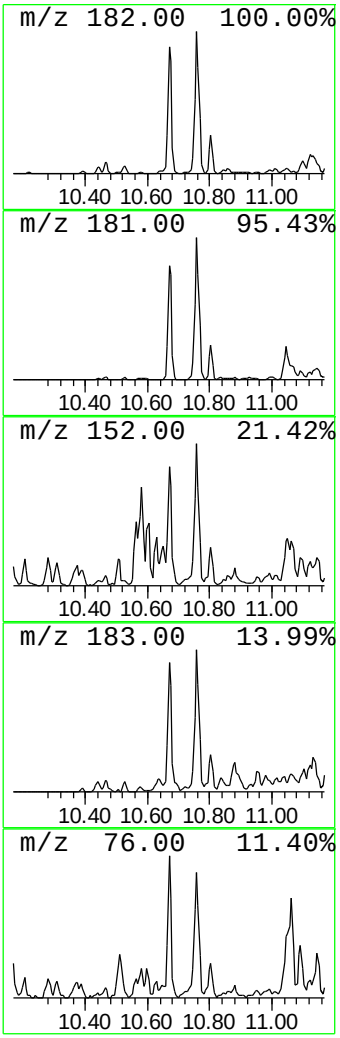
****

Peak Number 5 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.67	6.64 ng	625489	Acenaphthene-d10	9.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	91
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	83
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	64
5	9H-Xanthene	182	C13H10O	000092-83-1	60





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

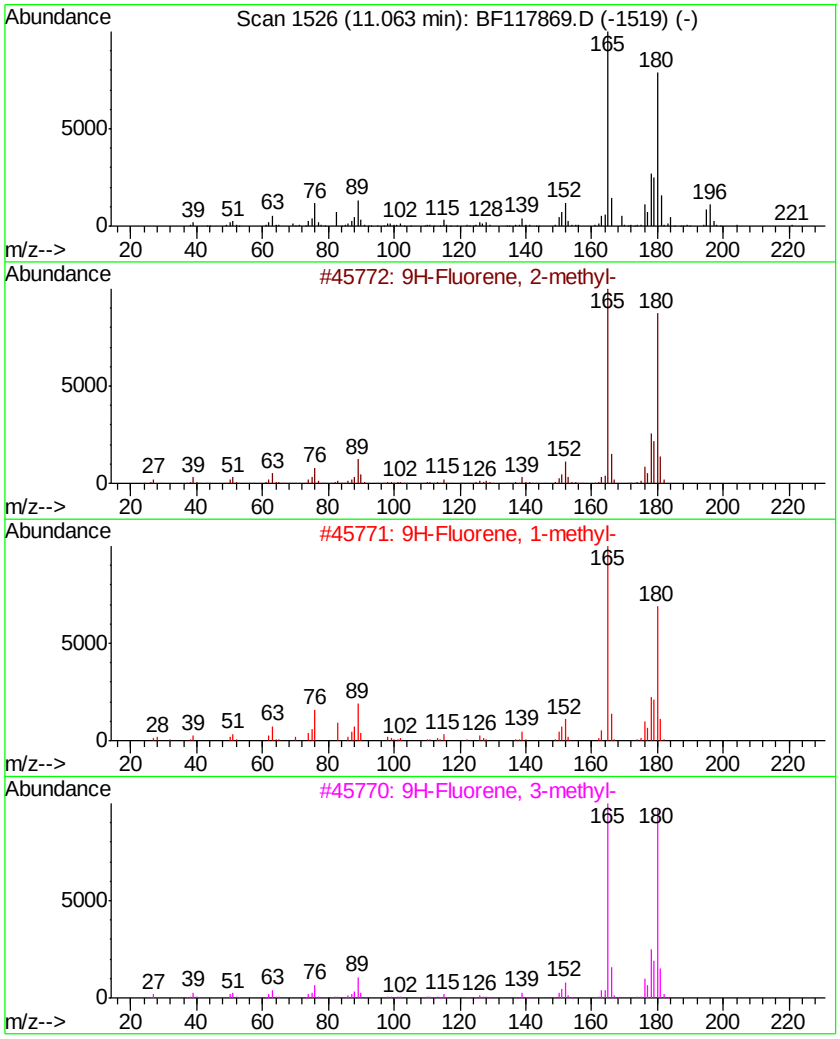
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

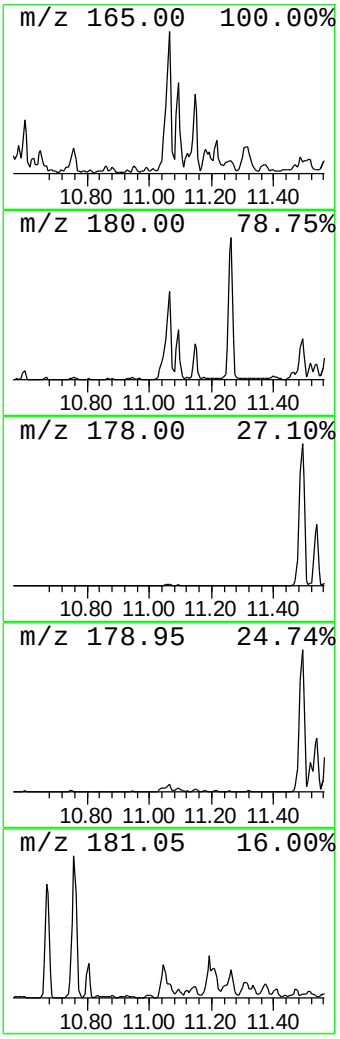
****

Peak Number 6 9H-Fluorene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.06	8.59 ng	829508	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	93
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

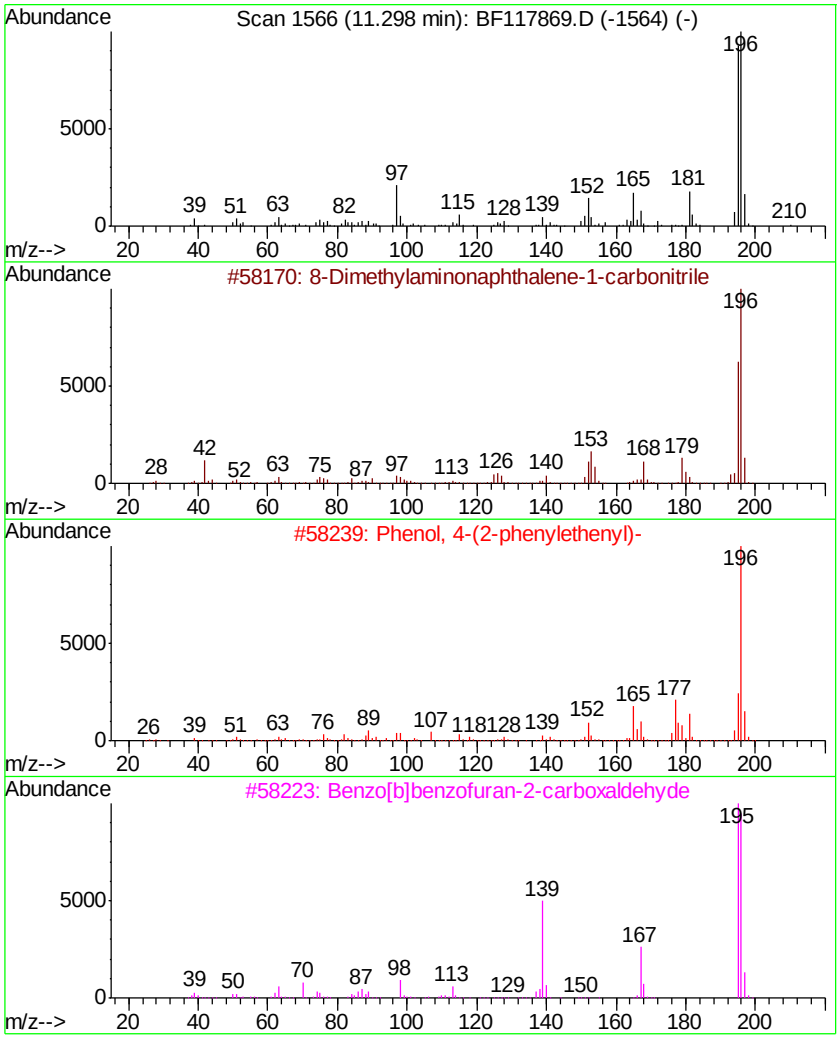
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

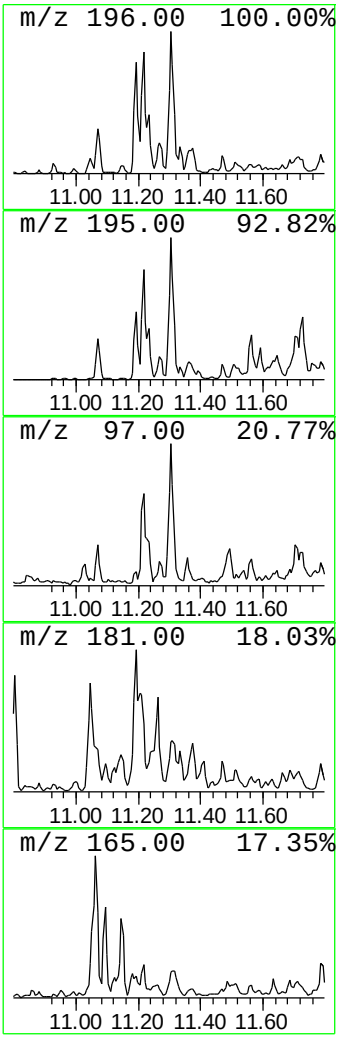
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 8-Dimethylaminonaphthalene-... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.30	8.26 ng	797675	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	72
2	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	70
3	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	68
4	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	52
5	5,7-Dimethylpyrimido-[3,4-a]-indole	196	C13H12N2	038349-21-2	50





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

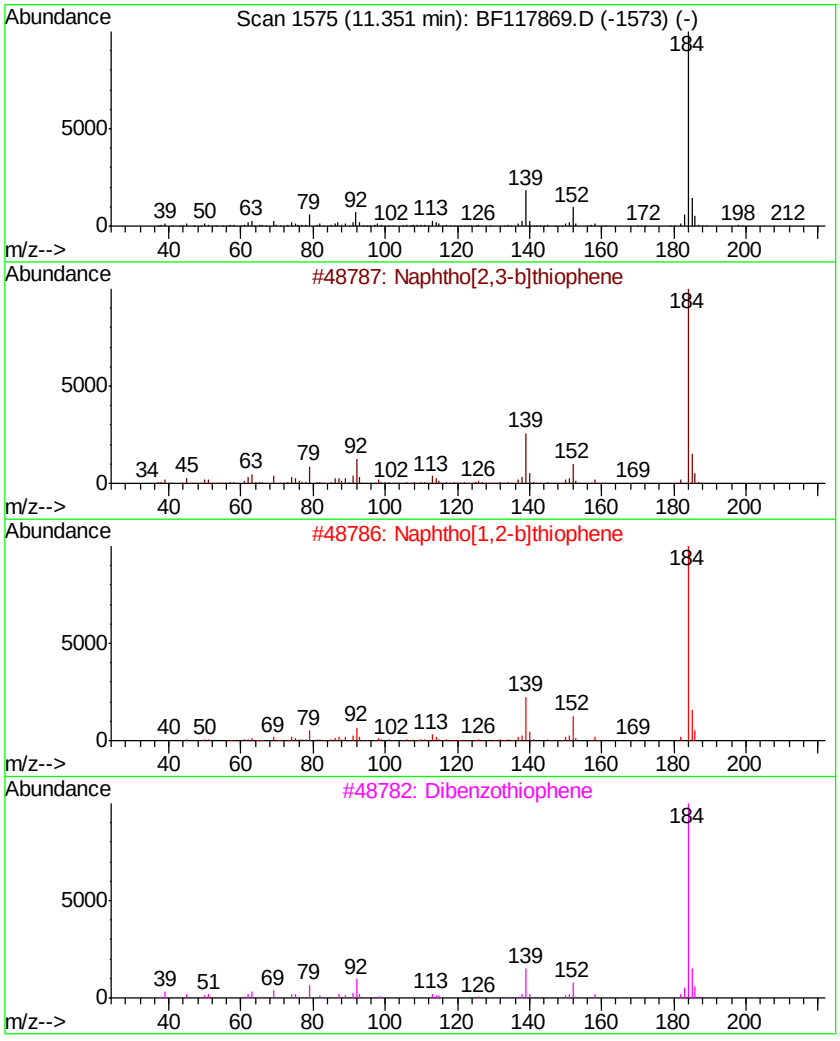
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

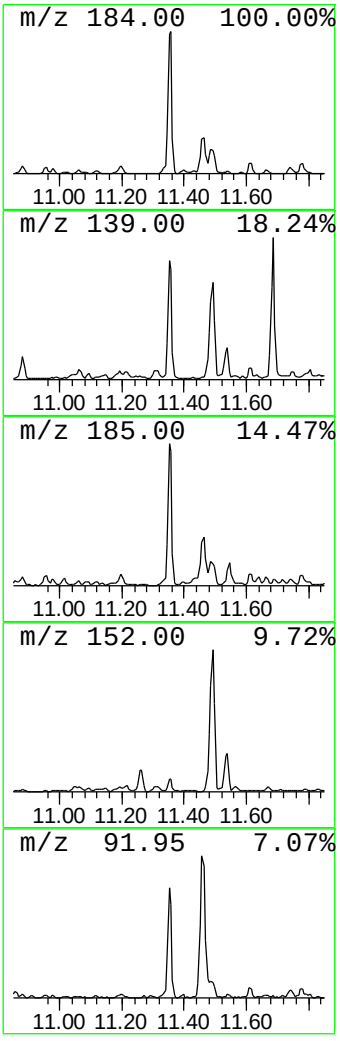
****

Peak Number 8 Naphtho[2,3-b]thiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	9.87 ng	953272	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	96
3	Dibenzothiophene	184	C12H8S	000132-65-0	96
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

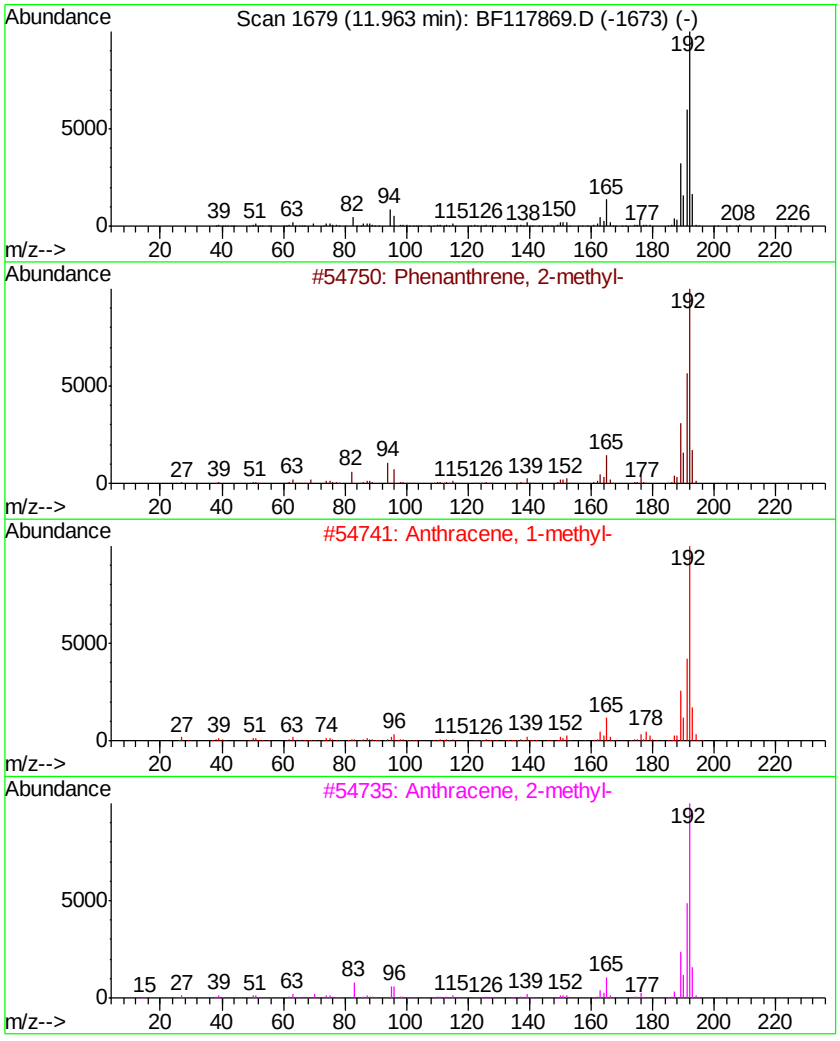
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

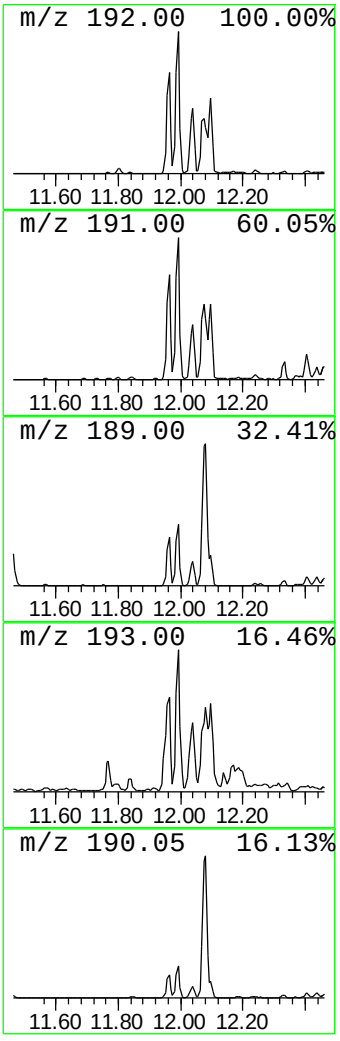
****

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	17.08 ng	1649780	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

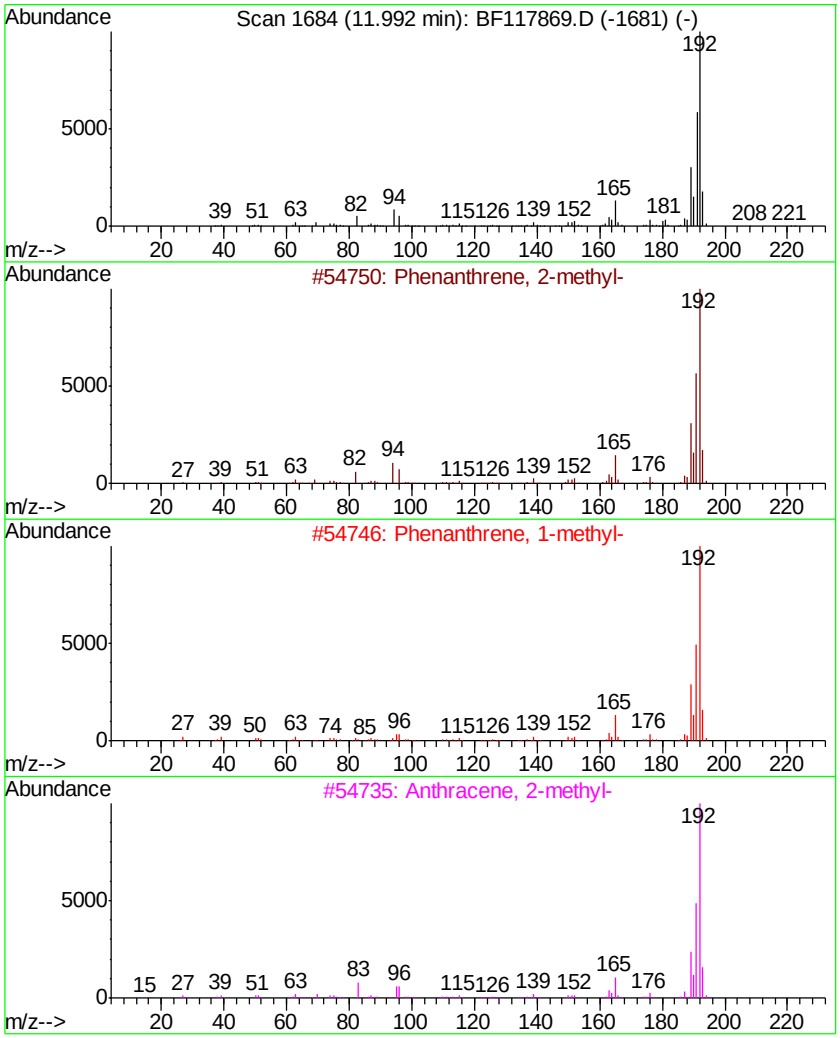
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

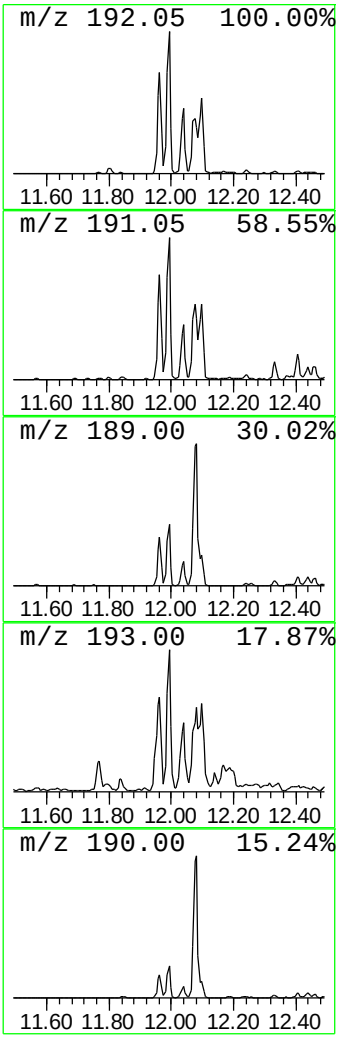
****

Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	21.60 ng	2086410	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

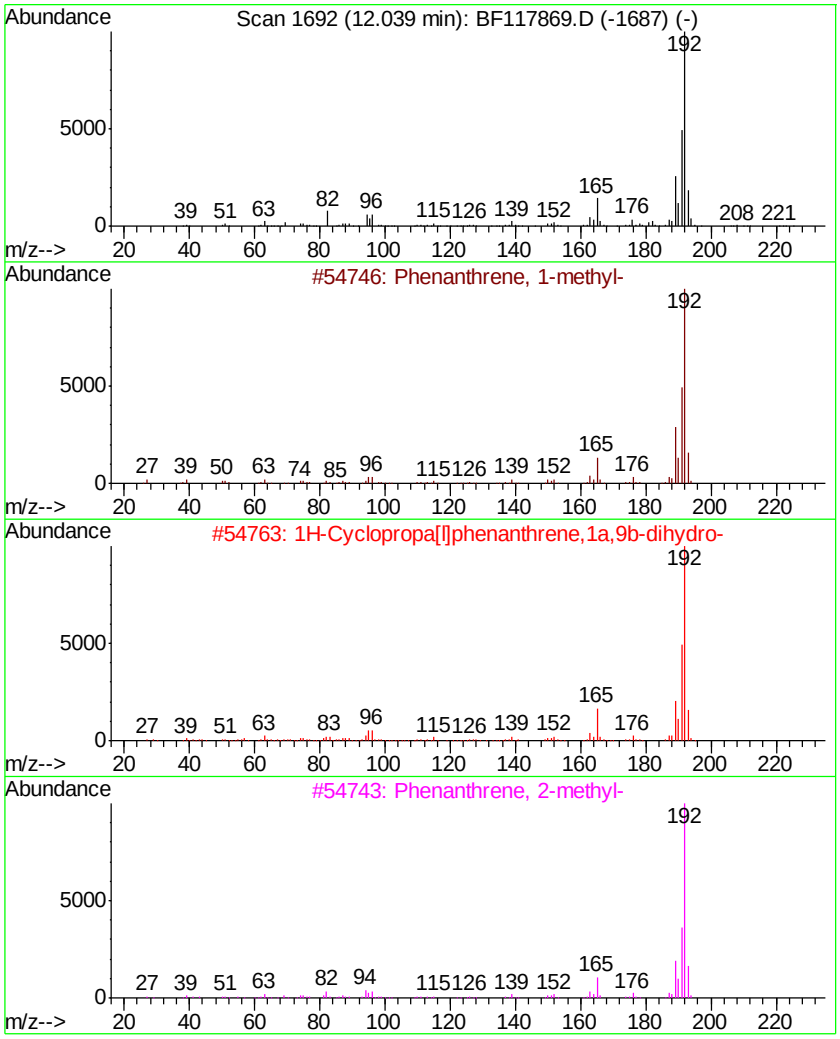
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

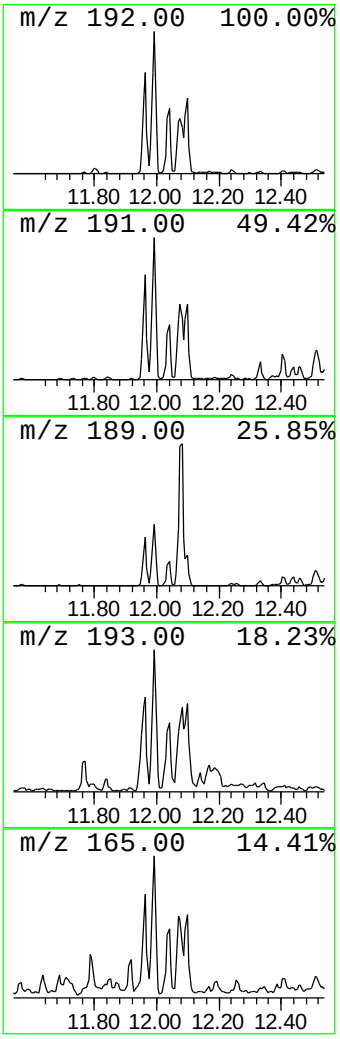
****

Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	9.84 ng	950456	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

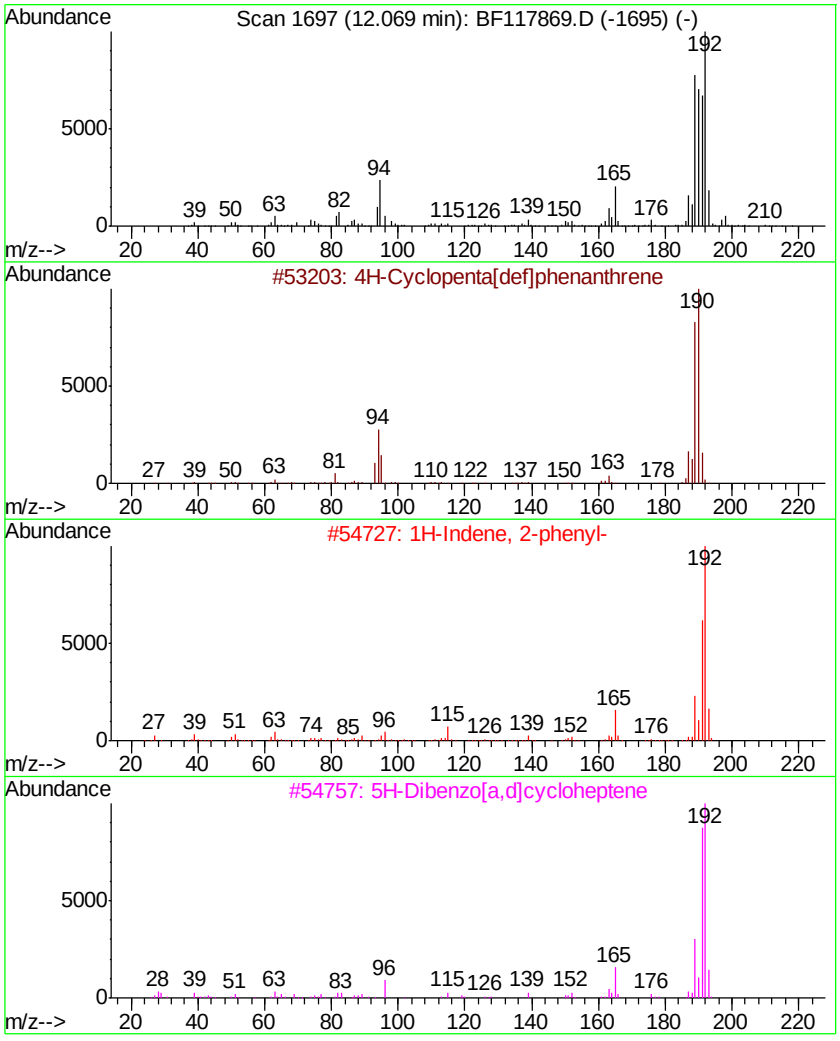
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

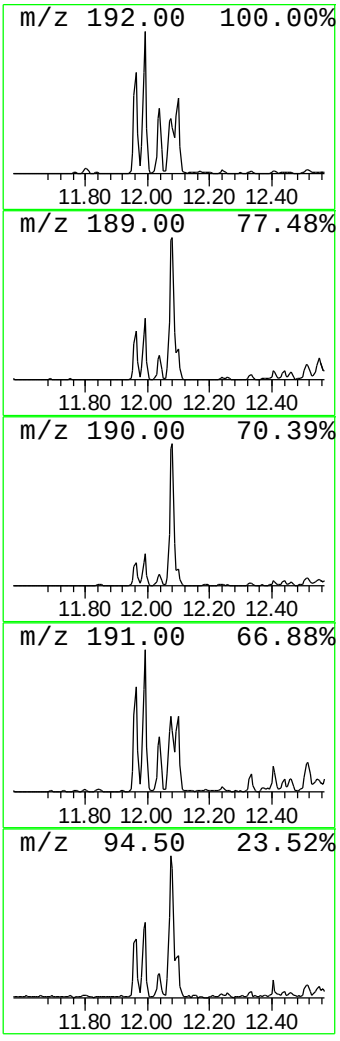
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	25.77 ng	2489300	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

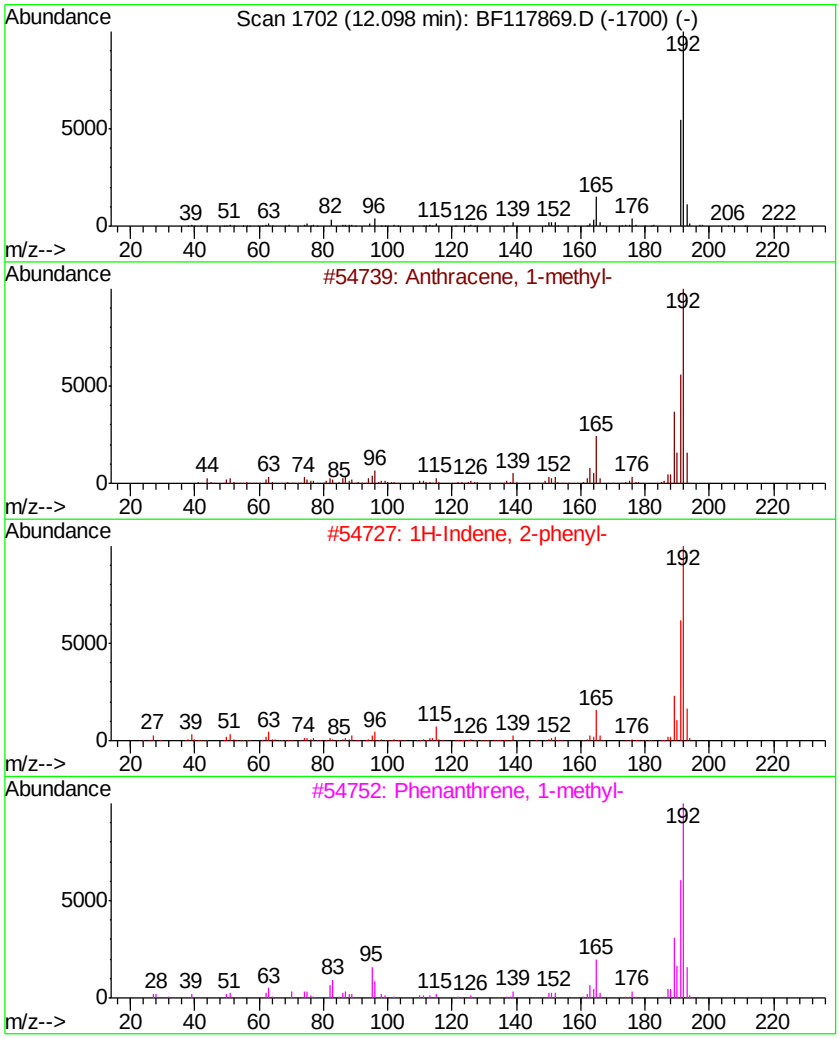
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

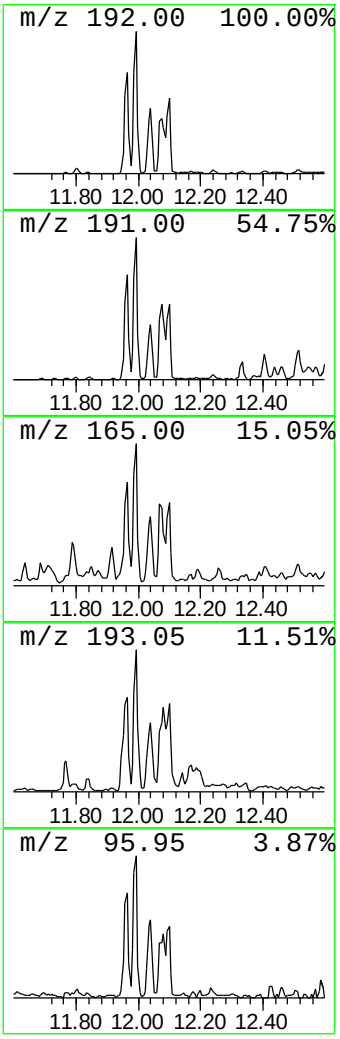
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	9.20 ng	889061	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

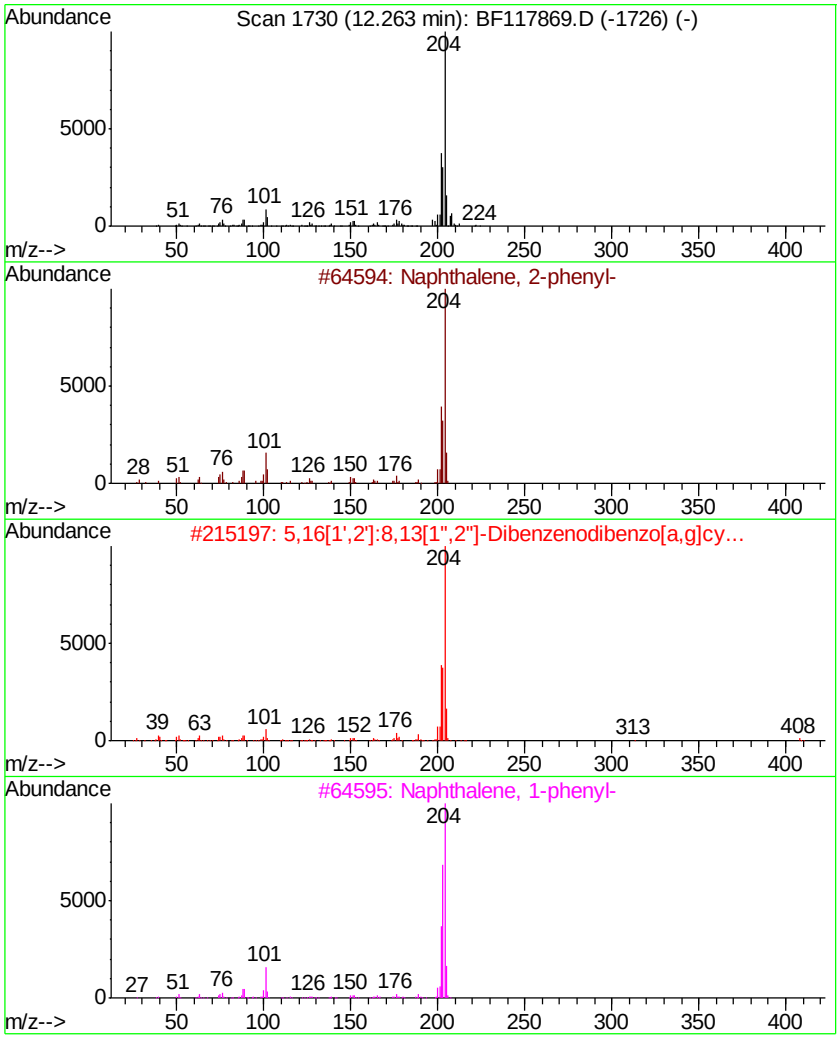
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

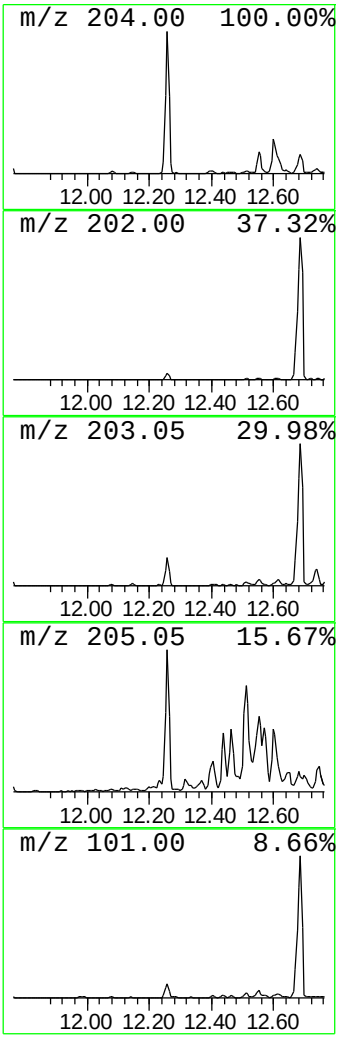
****

Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	9.44 ng	911839	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	55
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	50
5	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	49





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

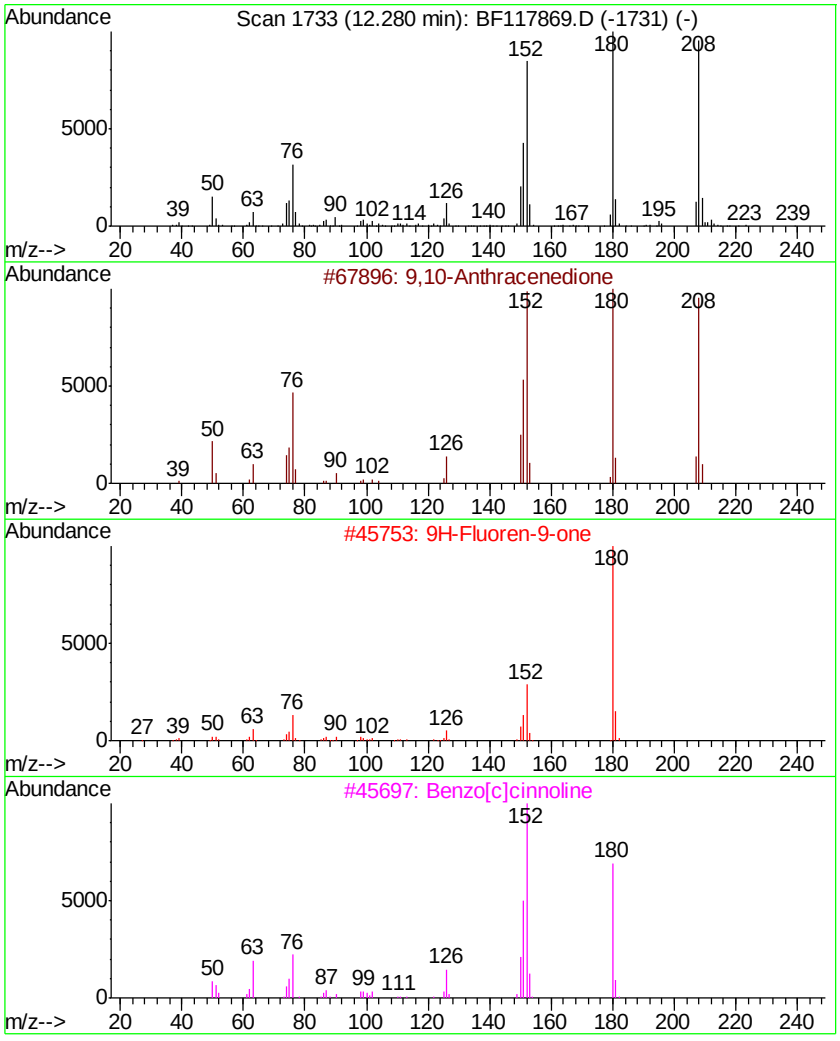
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

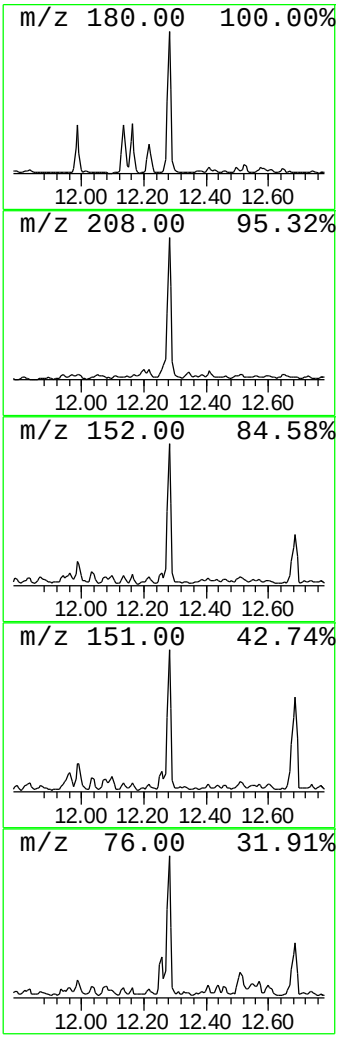
****

Peak Number 15 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	7.52 ng	726098	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

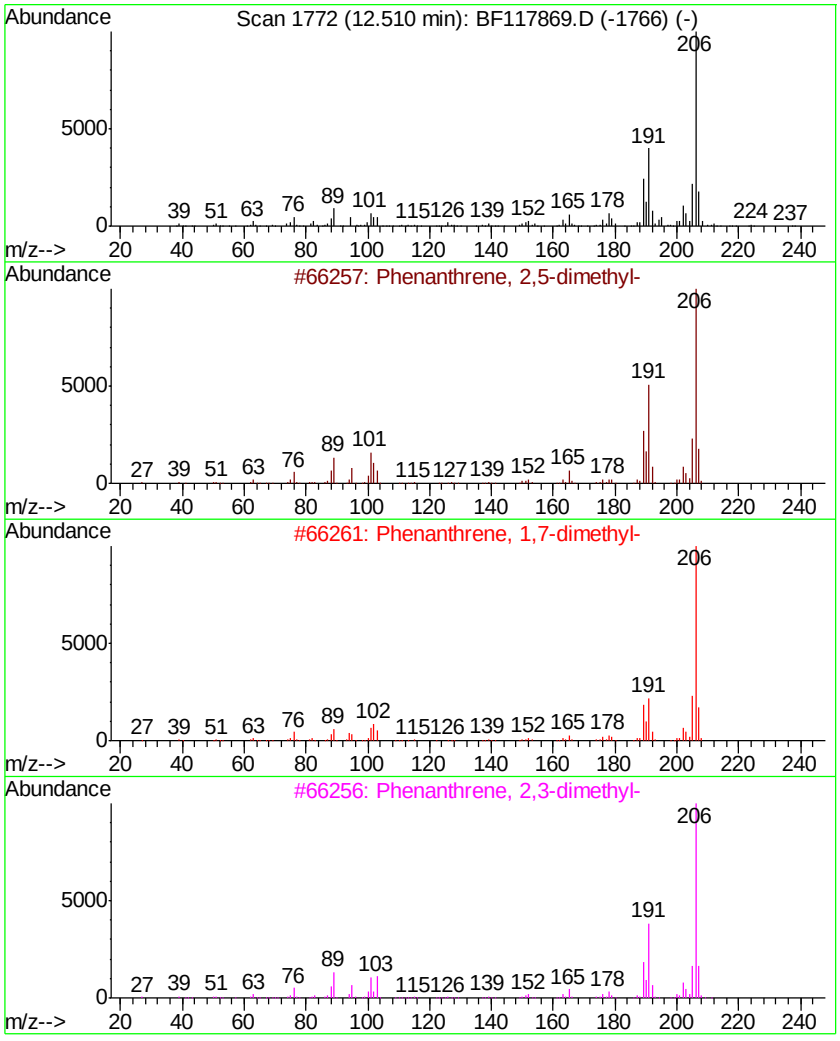
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

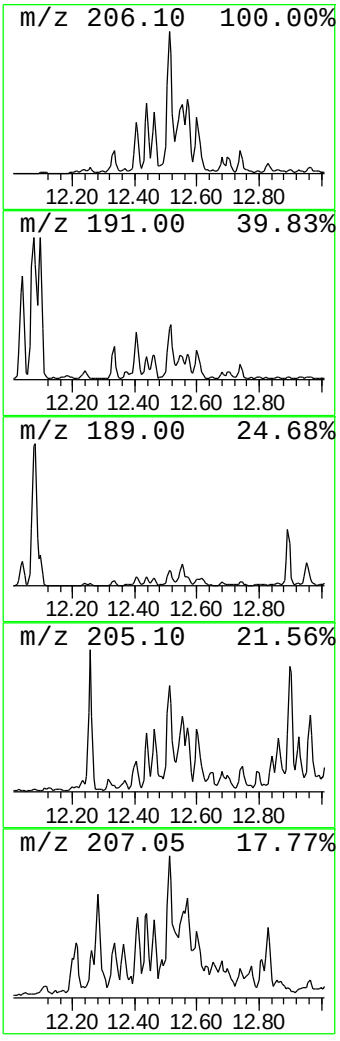
****

Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	10.81 ng	1044500	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

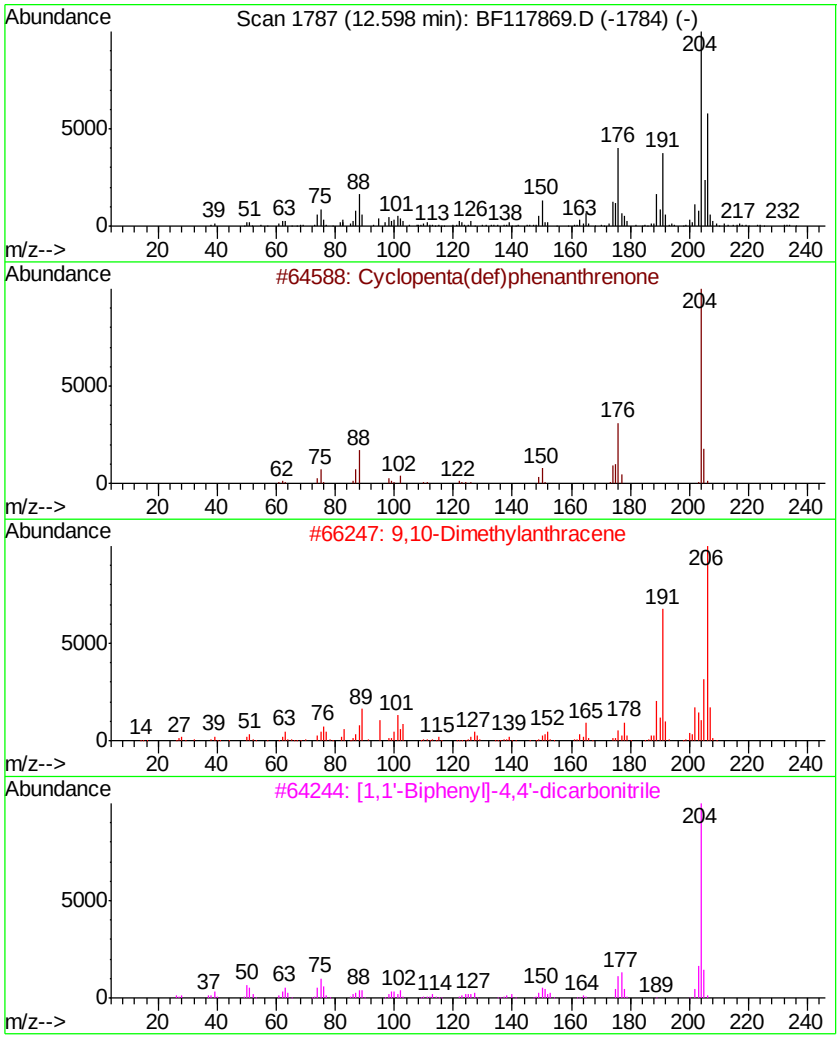
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

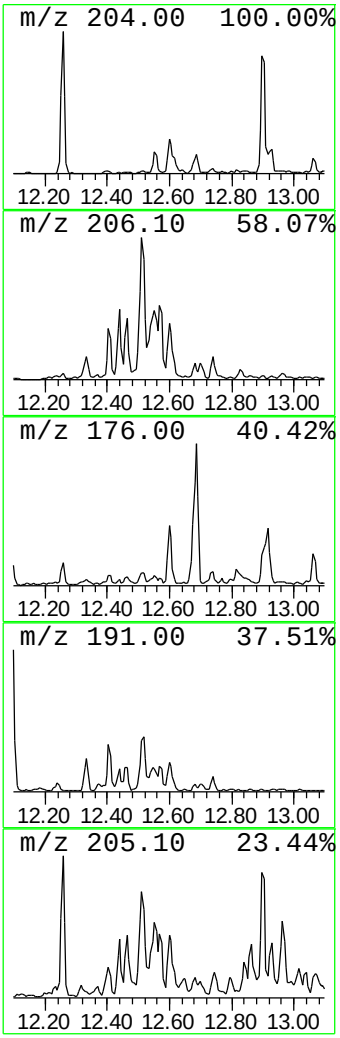
****

Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	7.34 ng	708576	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	42
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	38
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

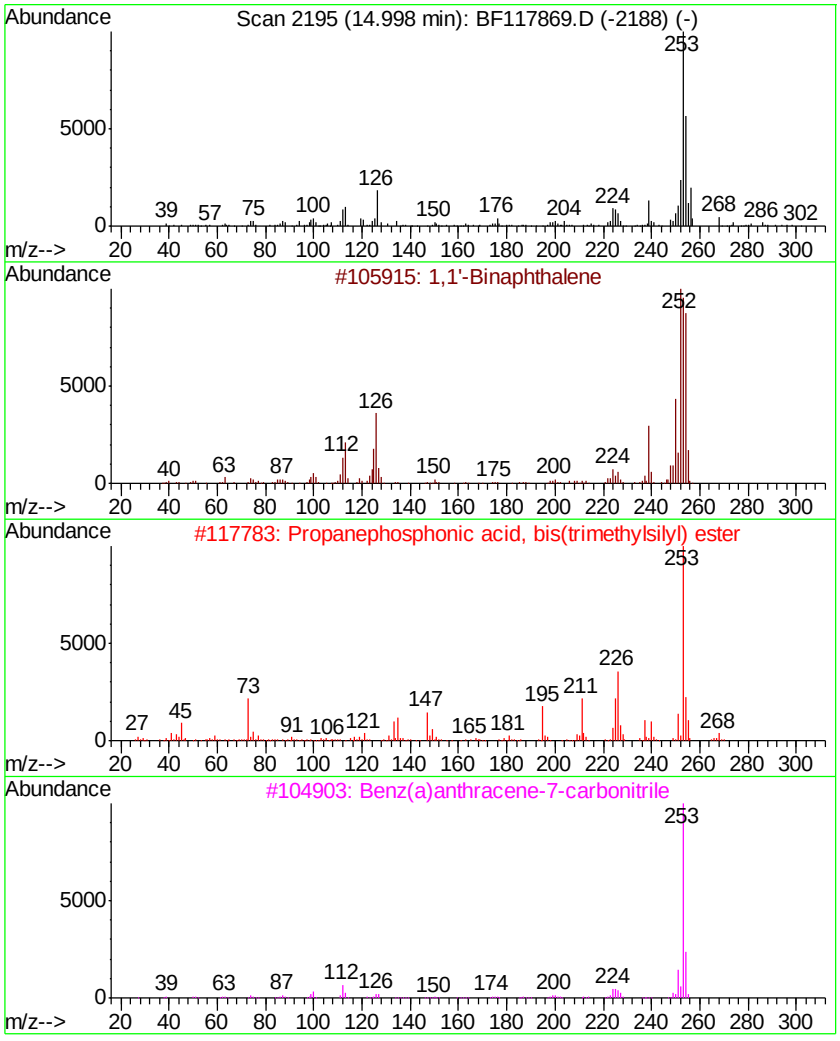
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

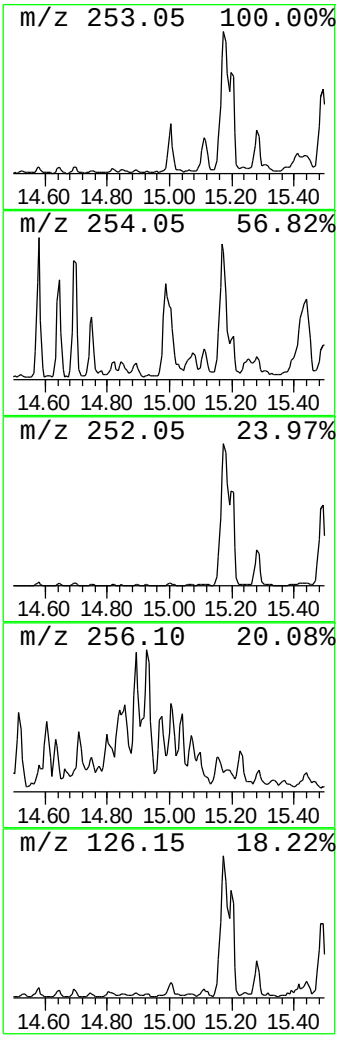
****

Peak Number 18 1,1'-Binaphthalene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	6.88 ng	490956	Perylene-d12	15.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	55
2	Propanephosphonic acid, bis(trim...	268	C9H25O3PSi2	1000193-07-4	47
3	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	46
4	Carbamate, N-(2-naphthyl)-, 3-pe...	253	C16H15NO2	1000197-96-0	43
5	1H-Pyrrolo[2,3-f]quinolin-9-ol, ...	254	C16H18N2O	1000303-71-9	42





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

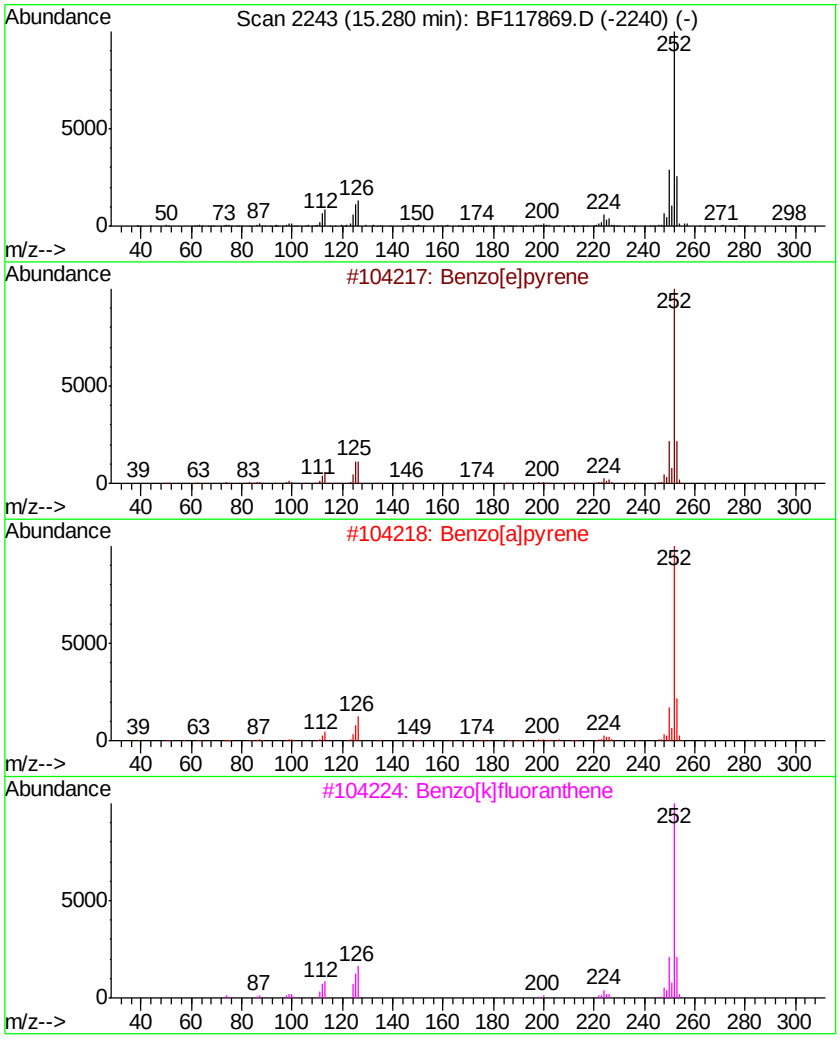
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

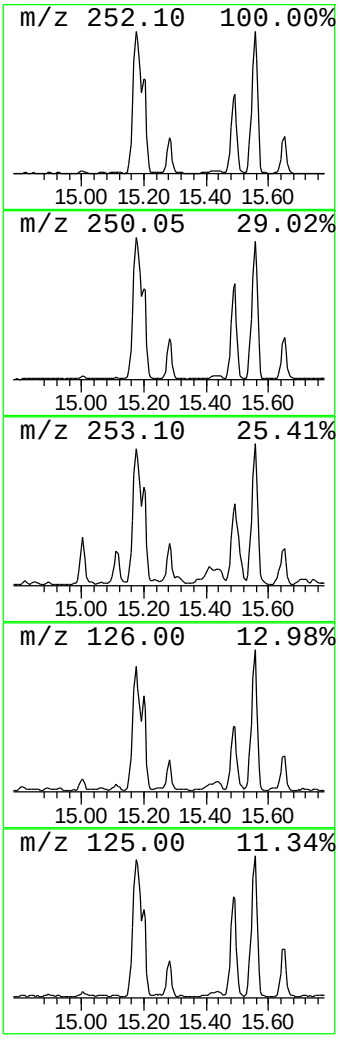
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.28	8.25 ng	588834	Perylene-d12	15.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Perylene	252	C20H12	000198-55-0	87





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111919\
Data File : BF117869.D
Acq On : 19 Nov 2019 19:41
Operator : JU
Sample : K5904-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 13-(2-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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
Butane, 2-methoxy...	2.21	19.9	ng	1178030	1	6.92	1186030	20.0
2-Pentanone, 4-hy...	5.13	16.6	ng	982104	1	6.92	1186030	20.0
unknown6.69	6.69	92.9	ng	5508350	1	6.92	1186030	20.0
[1,1'-Biphenyl]-4...	10.67	6.6	ng	625489	3	9.96	1882750	20.0
9H-Fluorene, 2-me...	11.06	8.6	ng	829508	4	11.46	1931940	20.0
8-Dimethylaminona...	11.30	8.3	ng	797675	4	11.46	1931940	20.0
Naphtho[2,3-b]thi...	11.35	9.9	ng	953272	4	11.46	1931940	20.0
Phenanthrene, 2-m...	11.96	17.1	ng	1649780	4	11.46	1931940	20.0
Phenanthrene, 1-m...	11.99	21.6	ng	2086410	4	11.46	1931940	20.0
1H-Cyclopropa[l]p...	12.04	9.8	ng	950456	4	11.46	1931940	20.0
4H-Cyclopenta[def...	12.07	25.8	ng	2489300	4	11.46	1931940	20.0
Anthracene, 1-met...	12.10	9.2	ng	889061	4	11.46	1931940	20.0
Naphthalene, 2-ph...	12.26	9.4	ng	911839	4	11.46	1931940	20.0
9,10-Anthracenedione	12.28	7.5	ng	726098	4	11.46	1931940	20.0
Phenanthrene, 2,5...	12.51	10.8	ng	1044500	4	11.46	1931940	20.0
Cyclopenta(def)ph...	12.60	7.3	ng	708576	4	11.46	1931940	20.0
1,1'-Binaphthalene	15.00	6.9	ng	490956	6	15.62	1426810	20.0
Benzo[e]pyrene	15.28	8.3	ng	588834	6	15.62	1426810	20.0