LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

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-BF083019.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	5.463	570	574	583	rBV	253893	269227	40.92%	3.268%
2	6.469	742	745	754	rBV	289864	308920	46.95%	3.750%
3	6.616	766	770	783	rVB	355802	318660	48.43%	3.869%
4	6.845	806	809	818	rBV	545936	446016	67.78%	5.415%
5	7.004	832	836	844	rBV	273885	241197	36.66%	2.928%
6	7.404	900	904	917	rBV	160738	182600	27.75%	2.217%
7	8.128	1024	1027	1051	rVB	690189	605131	91.96%	7.346%
8	9.198	1206	1209	1220	rBV	422165	361466	54.93%	4.388%
9	9.592	1273	1276	1285	rBV	31714	29395	4.47%	0.357%
10	9.739	1298	1301	1306	rBV	8810	9918	1.51%	0.120%
11	9.880	1321	1325	1329	rBV	748885	642009	97.57%	7.794%
12	9.910	1329	1330	1334	rVB	13743	10650	1.62%	0.129%
13	10.427	1415	1418	1426	rVB	19257	19923	3.03%	0.242%
14	10.669	1455	1459	1465	rBV	144743	140218	21.31%	1.702%
15	10.798	1472	1481	1485	rVB3	5109	8137	1.24%	0.099%
16	11.169	1541	1544	1549	rVB	18295	16093	2.45%	0.195%
17	11.257	1557	1559	1564	rVB	19010	18516	2.81%	0.225%
18	11.363	1574	1577	1579	rBV	589999	518972	78.87%	6.300%
19	11.386	1579	1581	1585	rVV	413825	354391	53.86%	4.302%
20	11.439	1587	1590	1594	rVV	88577	78038	11.86%	0.947%
21	11.474	1594	1596	1599	rVV2	13576	12351	1.88%	0.150%
22	11.592	1611	1616	1625	rBV	69436	76859	11.68%	0.933%
23	11.657	1625	1627	1631	rVV2	7367	7292	1.11%	0.089%
24	11.698	1631	1634	1638	rVV2	7364	7918	1.20%	0.096%
25	11.868	1659	1663	1664	rBV	31329	27412	4.17%	0.333%
26	11.892	1664	1667	1672	rVV	57185	55785	8.48%	0.677%
27	11.945	1672	1676	1678	rVV	10238	10162	1.54%	0.123%
28	11.980	1678	1682	1684	rVV	65712	63200	9.60%	0.767%
29	11.998	1684	1685	1689	rVB	22272	18360	2.79%	0.223%
30	12.157	1709	1712	1714	rBV	24759	22017	3.35%	0.267%
31	12.186	1714	1717	1722	rVB	57413	56786	8.63%	0.689%
32	12.415	1753	1756	1759	rBV	17539	19036	2.89%	0.231%
33	12.451	1759	1762	1764	rVV2	12158	13053	1.98%	0.158%
34	12.498	1767	1770	1776	rBV	23665	22742	3.46%	0.276%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

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-BF083019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.574	1779	1783	1787	rBV	499479	428746	65.16%	5.205%
36	12.710	1803	1806	1807	rBV3	7429	8329	1.27%	0.101%
37	12.727	1807	1809	1814	rVV2	13177	15432	2.35%	0.187%
38	12.804	1816	1822	1826	rVV	365508	386594	58.75%	4.693%
39	12.851	1828	1830	1834	rVB2	13301	16638	2.53%	0.202%
40	12.939	1839	1845	1848	rBV	288216	292510	44.45%	3.551%
41	13.021	1855	1859	1862	rBV4	22086	35355	5.37%	0.429%
42	13.051	1862	1864	1866	rVB	12157	9388	1.43%	0.114%
43	13.110	1871	1874	1875	rVV2	14397	14128	2.15%	0.172%
44	13.133	1875	1878	1880	rVB	53223	50951	7.74%	0.619%
45	13.180	1882	1886	1887	rBV4	10568	13604	2.07%	0.165%
46	13.198	1887	1889	1892	rVB2	34967	24874	3.78%	0.302%
47	13.233	1892	1895	1898	rBV2	30621	36623	5.57%	0.445%
48	13.292	1903	1905	1908	rVV4	10312	10231	1.55%	0.124%
49	13.327	1908	1911	1913	rBV2	19549	19131	2.91%	0.232%
50	13.357	1914	1916	1920	rVB3	15223	18225	2.77%	0.221%
51	13.515	1941	1943	1944	rBV2	11962	8596	1.31%	0.104%
52	13.639	1961	1964	1968	rVB	25002	28612	4.35%	0.347%
53	13.745	1979	1982	1986	rBV2	33768	46284	7.03%	0.562%
54	13.780	1986	1988	1990	rVV	19956	15098	2.29%	0.183%
55	13.804	1990	1992	1993	rVV	15394	15972	2.43%	0.194%
56	13.845	1996	1999	2004	rVV	60664	73782	11.21%	0.896%
57	13.998	2021	2025	2028	rBV2	578178	658013	100.00%	7.988%
58	14.021	2028	2029	2036	rVB	162716	142177	21.61%	1.726%
59	14.104	2041	2043	2046	rVB	19799	14846	2.26%	0.180%
60	15.033	2197	2201	2204	rBV	121795	171575	26.07%	2.083%
61	15.333	2249	2252	2258	rVB	64114	96509	14.67%	1.172%
62	15.398	2260	2263	2268	rVV	86907	118979	18.08%	1.444%
63	15.462	2269	2274	2284	rVB	308786	473494	71.96%	5.748%

Sum of corrected areas: 8237146

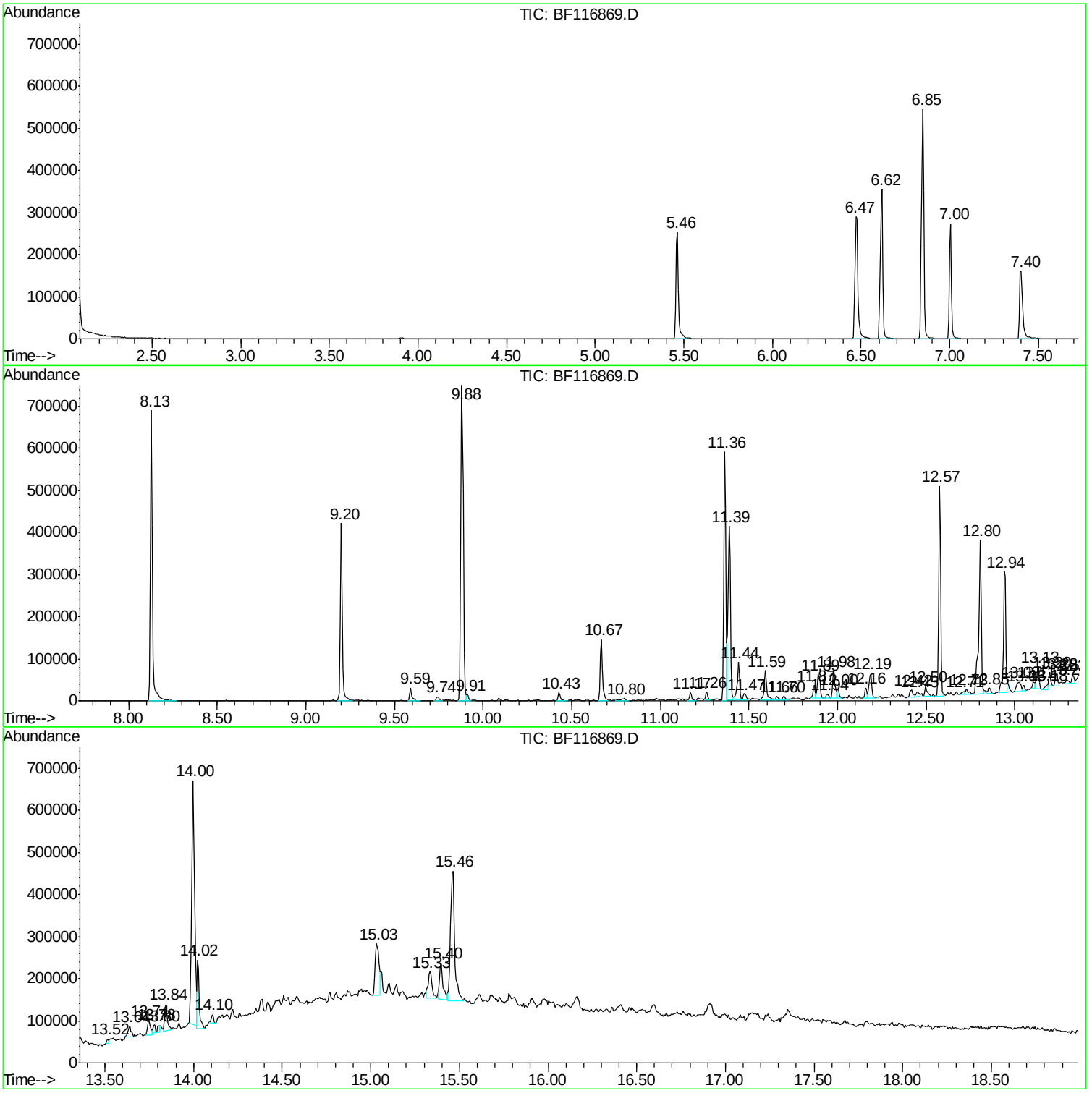
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

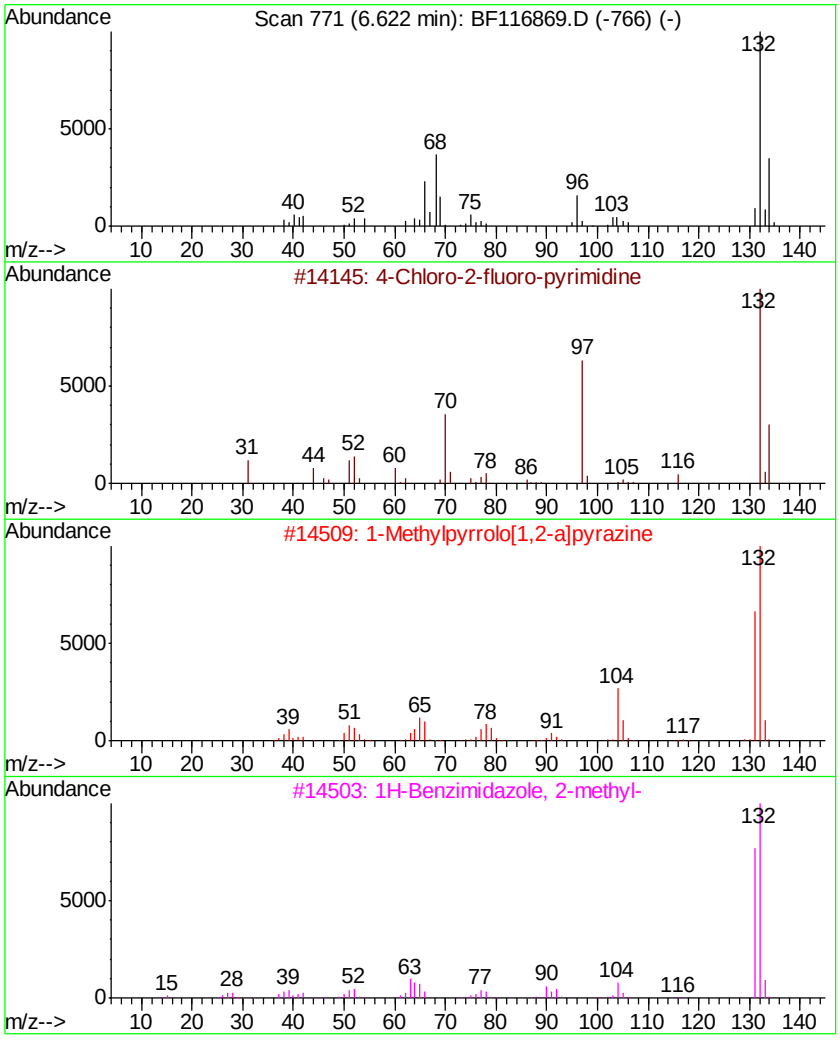
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

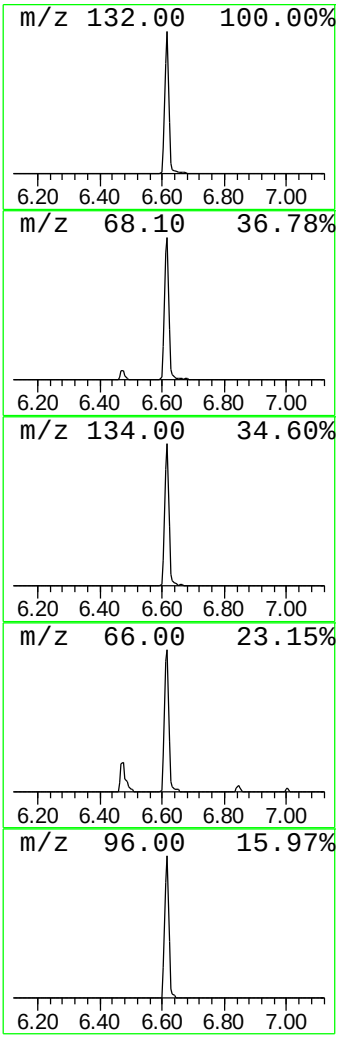
****

Peak Number 1 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	14.29 ng	318660	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
2	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	9
4	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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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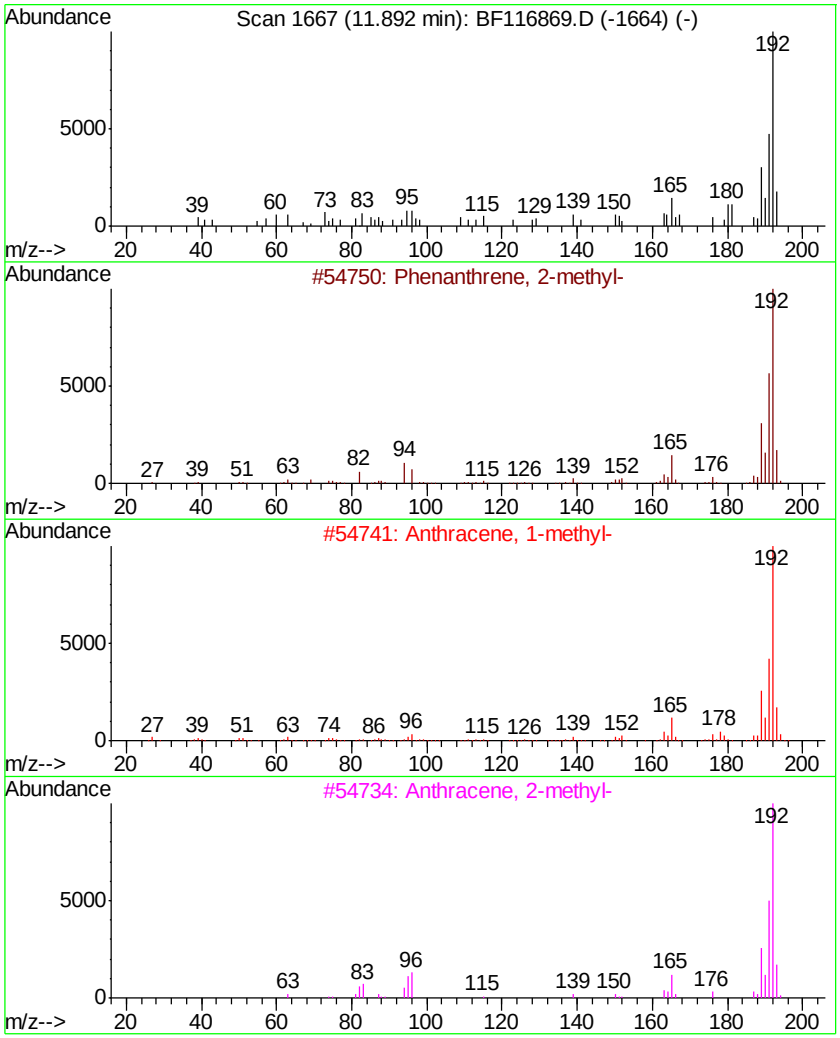
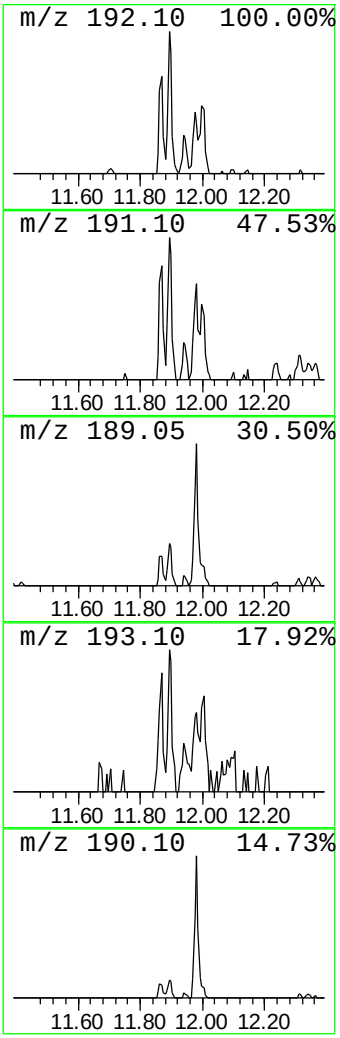
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	2.15 ng	55785	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

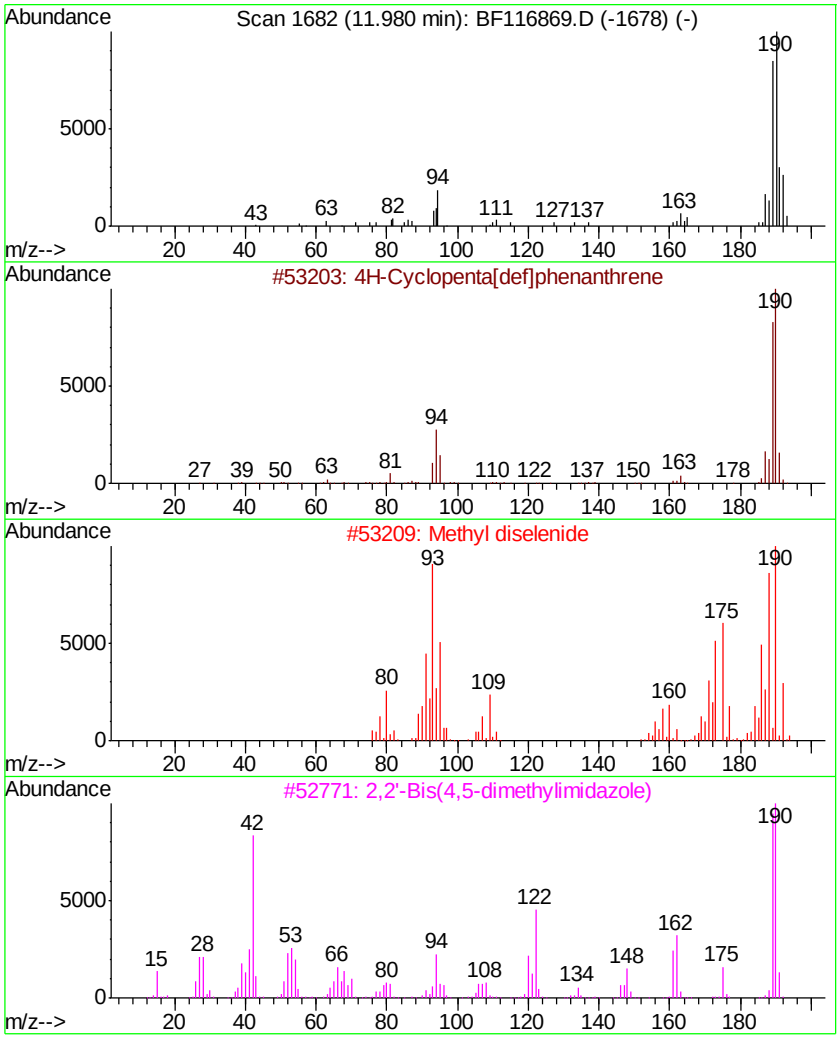
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

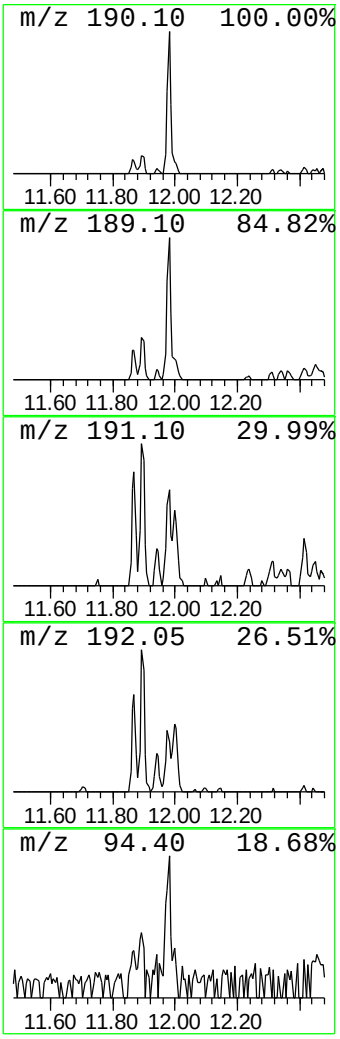
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	2.44 ng	63200	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
2	Methyl diselenide	190	C2H6Se2	007101-31-7	55
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	33
5	Pyrimidine, 2-chloro-5-phenyl-	190	C10H7ClN2	022536-62-5	25





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

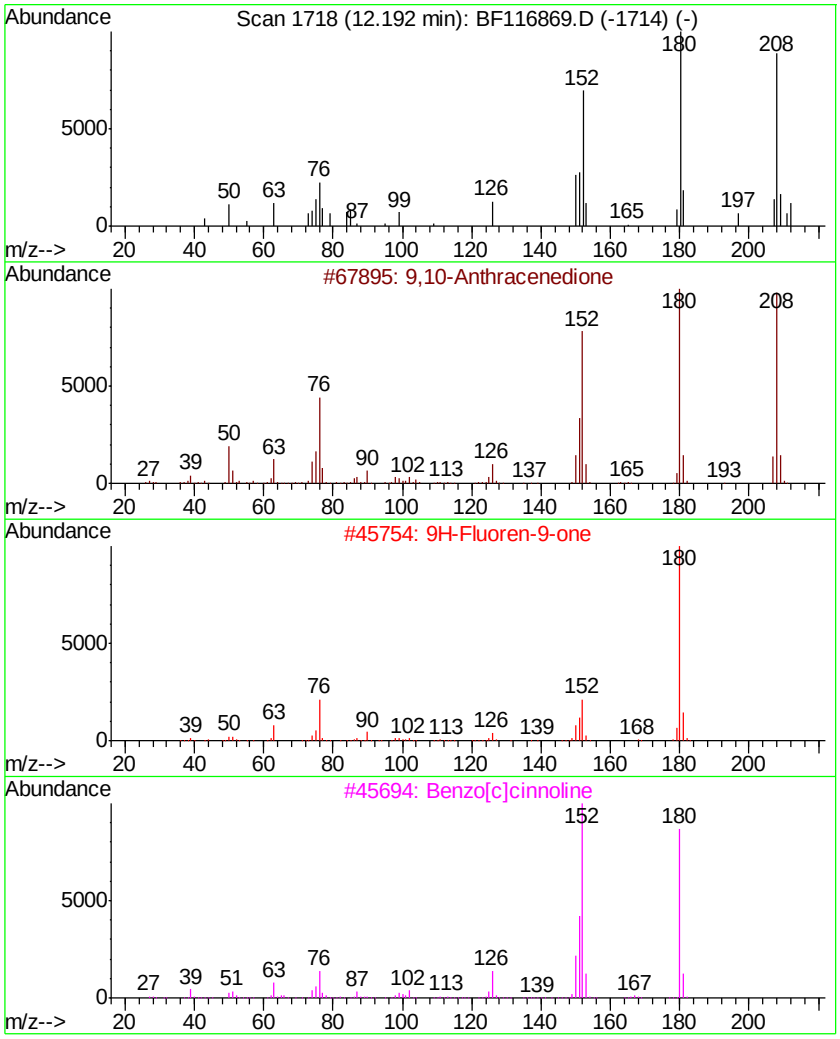
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

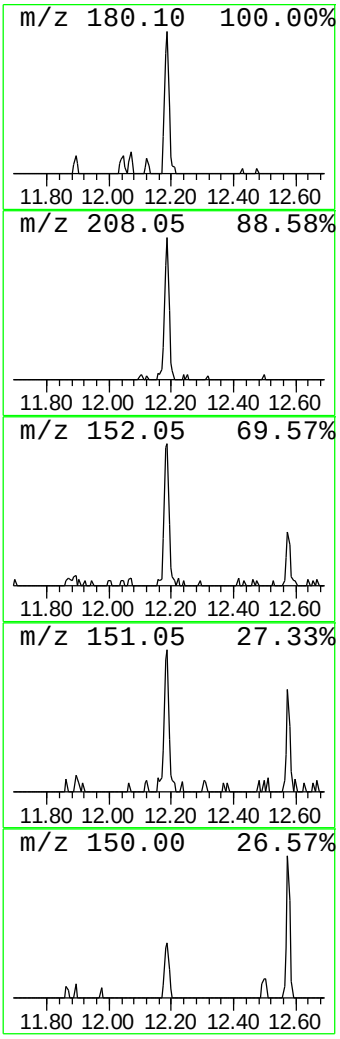
****

Peak Number 5 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	2.19 ng	56786	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	92
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	53
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	53





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

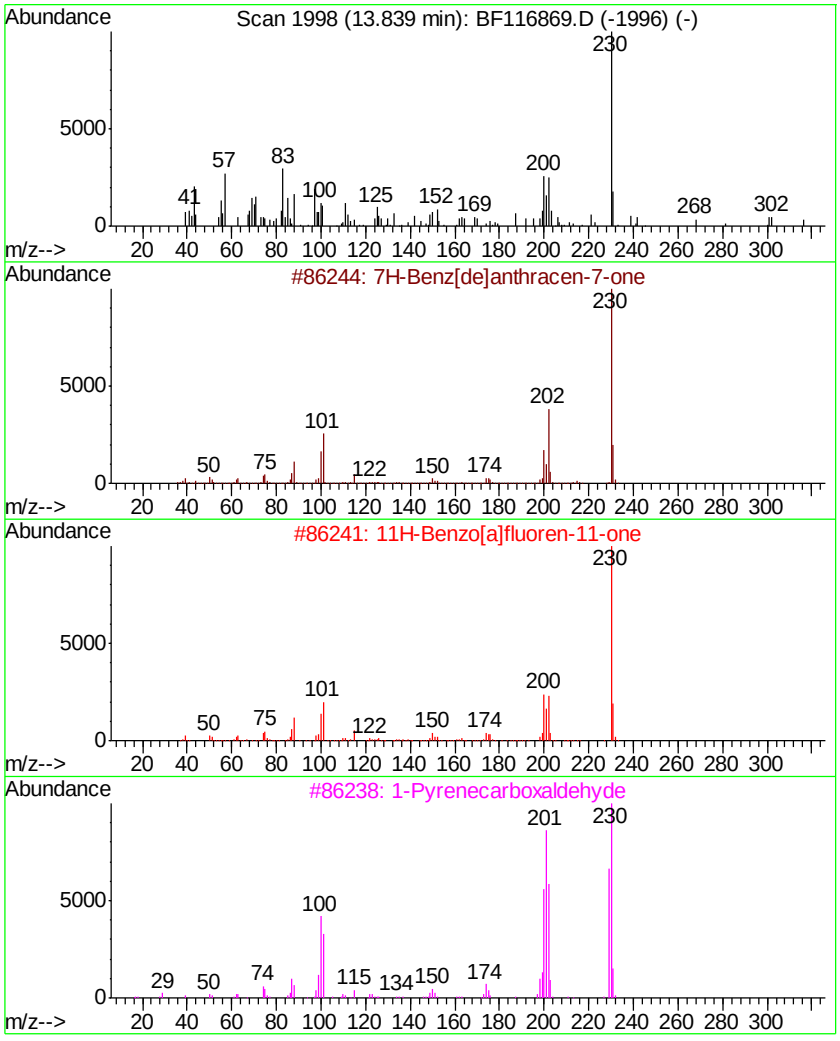
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

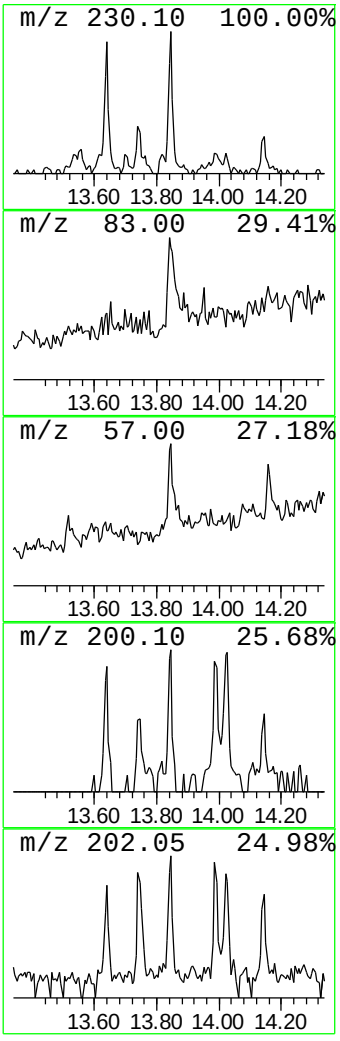
****

Peak Number 6 7H-Benz[de]anthracen-7-one Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.84	2.24 ng	73782	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	64
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	58
4	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	50
5	o-Terphenyl	230	C18H14	000084-15-1	46





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

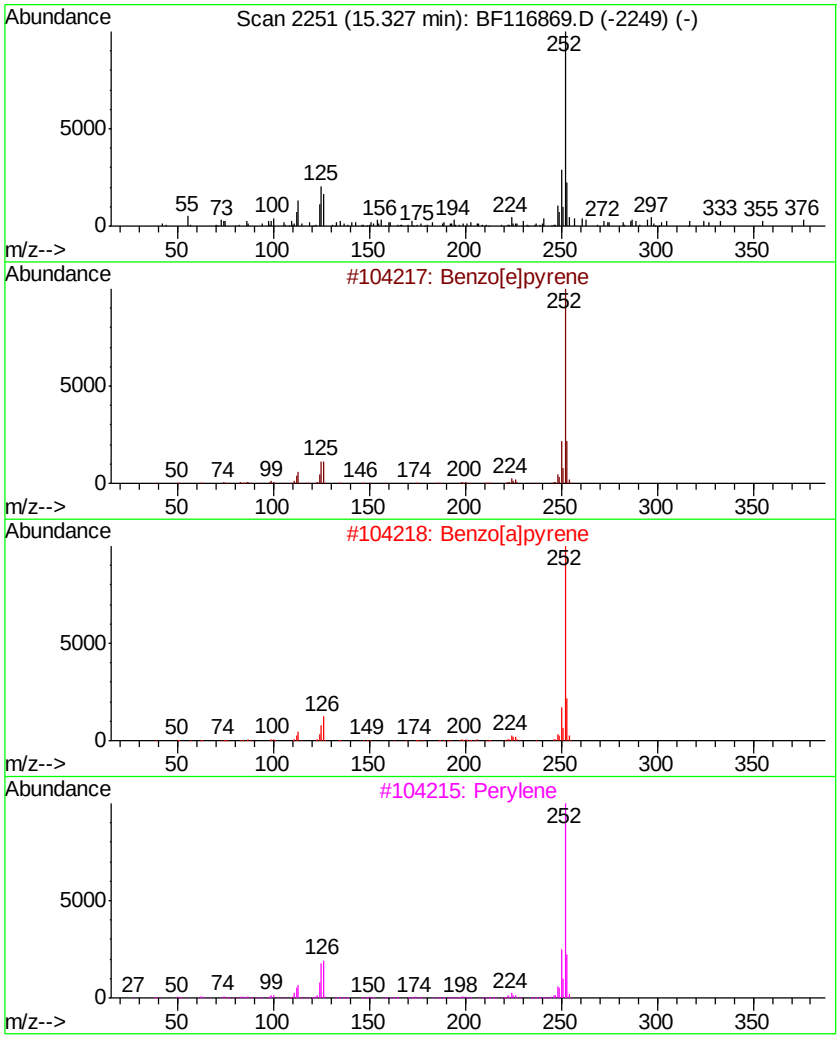
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

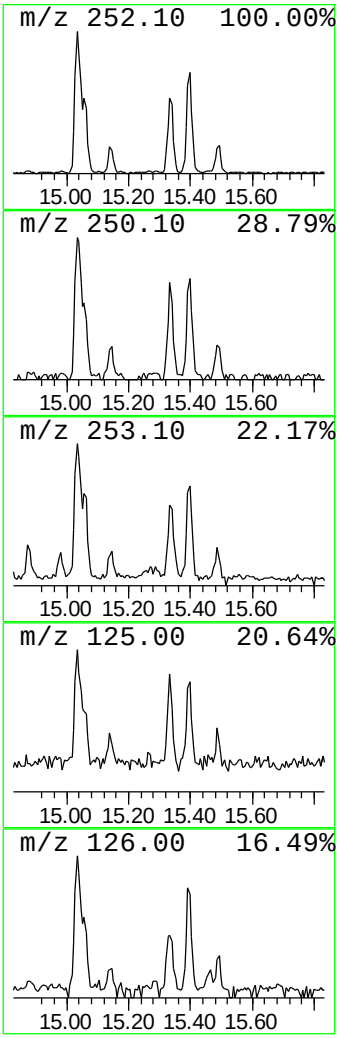
****

Peak Number 7 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.33	4.08 ng	96509	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Perylene	252	C20H12	000198-55-0	92
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	89





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF090619\
Data File : BF116869.D
Acq On : 6 Sep 2019 19:36
Operator : HP/JU
Sample : K4663-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-090519

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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
unknown6.62	6.62	14.3	ng	318660	1	6.85	446016	20.0
Phenanthrene, 2-m...	11.89	2.1	ng	55785	4	11.36	518972	20.0
4H-Cyclopenta[def...	11.98	2.4	ng	63200	4	11.36	518972	20.0
9,10-Anthracenedione	12.19	2.2	ng	56786	4	11.36	518972	20.0
7H-Benz[de]anthra...	13.84	2.2	ng	73782	5	14.00	658013	20.0
Benzo[e]pyrene	15.33	4.1	ng	96509	6	15.46	473494	20.0