LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

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-BF083018.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	7.007	785	794	808	rBV	80850	252861	18.03%	2.027%
2	8.283	1007	1011	1033	rBV	193724	400661	28.56%	3.212%
3	9.354	1190	1193	1198	rBV	13476	20983	1.50%	0.168%
4	10.042	1306	1310	1319	rBV	382100	471408	33.60%	3.779%
5	11.542	1561	1565	1567	rBV	410673	476209	33.95%	3.817%
6	11.566	1567	1569	1576	rVV	244337	349755	24.93%	2.804%
7	11.618	1576	1578	1583	rVV3	31069	55222	3.94%	0.443%
8	11.660	1583	1585	1596	rVB6	17002	37713	2.69%	0.302%
9	11.795	1602	1608	1619	rBV	35604	93767	6.68%	0.752%
10	12.042	1647	1650	1653	rBV2	18167	24444	1.74%	0.196%
11	12.071	1653	1655	1660	rVB2	19153	27777	1.98%	0.223%
12	12.160	1666	1670	1679	rBV2	39251	69314	4.94%	0.556%
13	12.336	1697	1700	1703	rBV	17088	20408	1.45%	0.164%
14	12.377	1703	1707	1716	rVB2	50204	92700	6.61%	0.743%
15	12.589	1741	1743	1747	rBV3	15220	21029	1.50%	0.169%
16	12.624	1747	1749	1753	rVV2	16848	19745	1.41%	0.158%
17	12.689	1757	1760	1768	rVB2	23340	35888	2.56%	0.288%
18	12.760	1768	1772	1788	rBV	1016486	1314796	93.72%	10.539%
19	12.913	1795	1798	1804	rVB2	30637	51817	3.69%	0.415%
20	12.995	1804	1812	1829	rBV	841678	1283019	91.46%	10.285%
21	13.118	1829	1833	1837	rBV2	77305	101480	7.23%	0.813%
22	13.160	1837	1840	1844	rVV	30948	45871	3.27%	0.368%
23	13.213	1844	1849	1853	rVB2	38870	76244	5.44%	0.611%
24	13.318	1864	1867	1875	rVB	105547	143670	10.24%	1.152%
25	13.389	1875	1879	1881	rBV	75833	89477	6.38%	0.717%
26	13.518	1898	1901	1903	rBV	30180	33357	2.38%	0.267%
27	13.548	1904	1906	1909	rVV2	27869	28376	2.02%	0.227%
28	13.630	1918	1920	1924	rVB2	24993	24692	1.76%	0.198%
29	13.748	1938	1940	1945	rVB	31586	33948	2.42%	0.272%
30	13.836	1952	1955	1963	rVB	68589	88894	6.34%	0.713%
31	13.948	1970	1974	1976	rBV	143939	173725	12.38%	1.393%
32	13.971	1976	1978	1980	rVV	89354	93574	6.67%	0.750%
33	14.001	1980	1983	1988	rVV2	89598	190226	13.56%	1.525%
34	14.048	1988	1991	1997	rVB	92873	136717	9.75%	1.096%

LSC Area Percent Report

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Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

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-BF083018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.195	2009	2016	2019	rBV2	769006	1347345	96.04%	10.800%
36	14.224	2019	2021	2031	rVB	686320	765305	54.55%	6.135%
37	14.301	2031	2034	2040	rBV	106937	135125	9.63%	1.083%
38	14.712	2102	2104	2106	rBV2	43329	43290	3.09%	0.347%
39	15.289	2197	2202	2214	rBV	587562	1402832	100.00%	11.245%
40	15.406	2219	2222	2226	rBV2	47451	68588	4.89%	0.550%
41	15.618	2254	2258	2265	rBV	311924	483777	34.49%	3.878%
42	15.689	2266	2270	2277	rBV	294891	480377	34.24%	3.851%
43	15.759	2277	2282	2286	rBV	203499	339780	24.22%	2.724%
44	17.383	2551	2558	2570	rVB3	210737	538590	38.39%	4.317%
45	17.877	2636	2642	2656	rVB2	166394	490395	34.96%	3.931%

Sum of corrected areas: 12475171

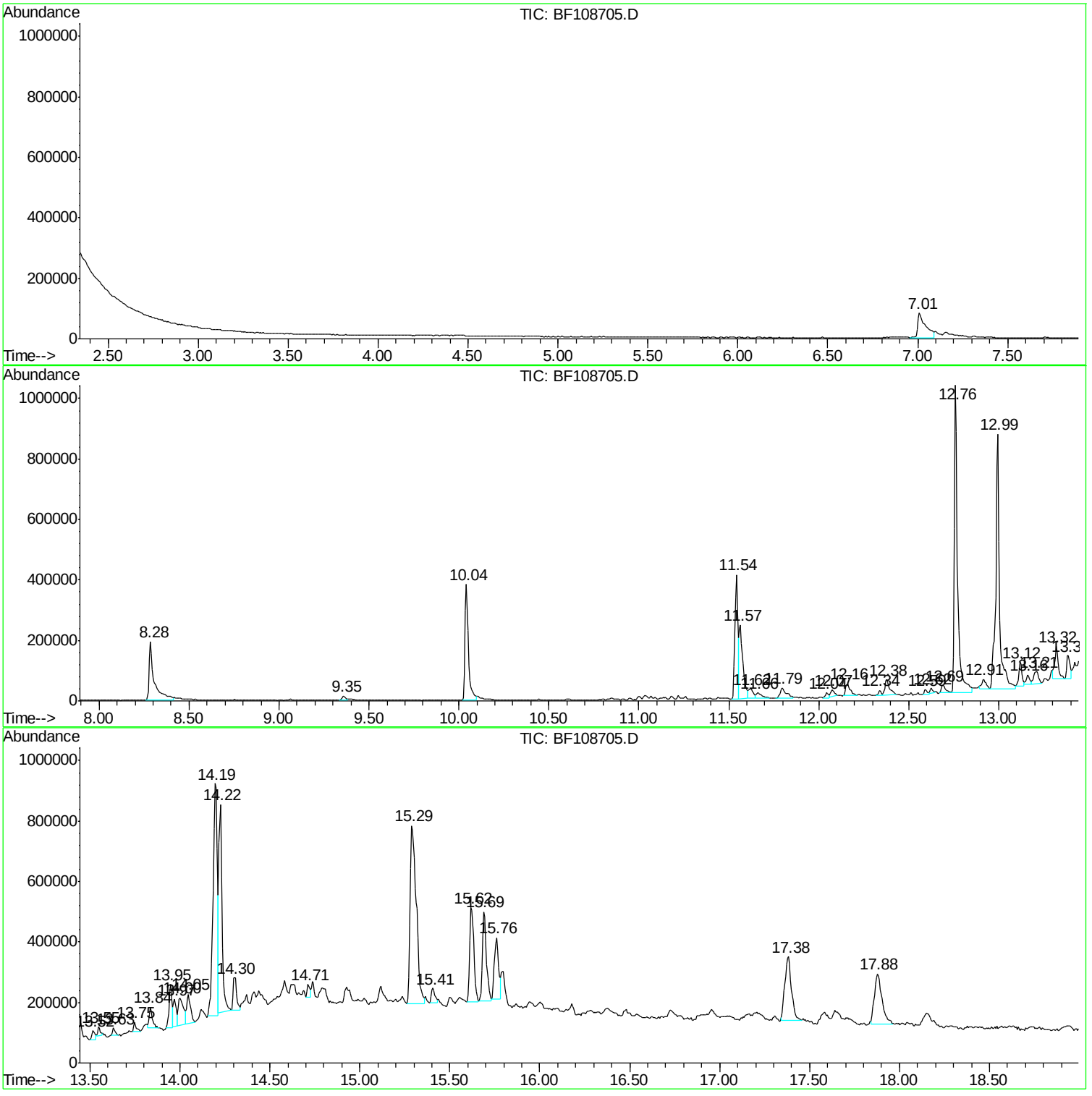
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

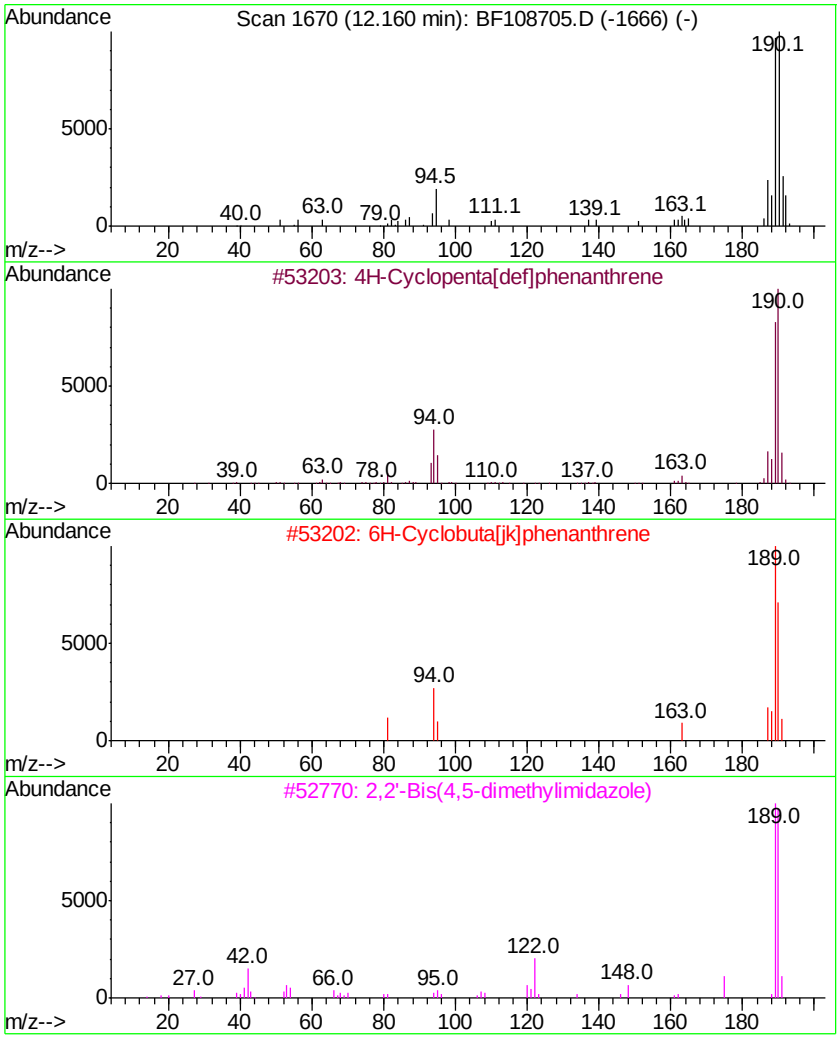
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

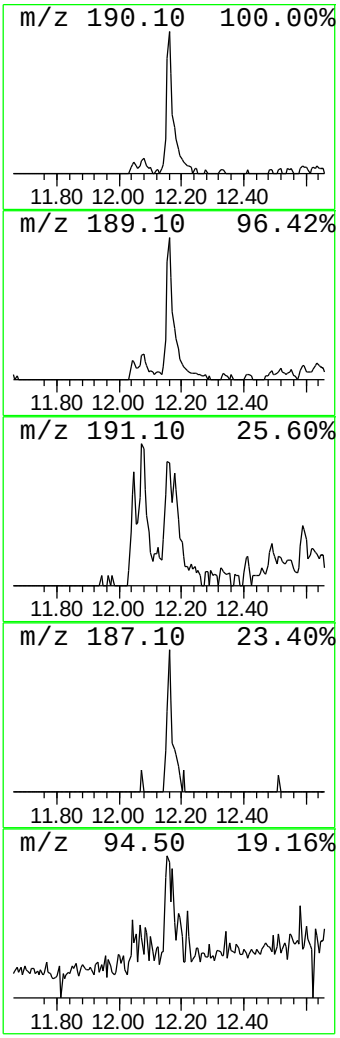
****

Peak Number 1 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	2.91 ng	69314	Phenanthrene-d10	11.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
4	5-Thiazolecarboxamide, 4-amino-2...	189	C5H7N3OS2	1000338-08-9	27
5	4-(4-Chlorophenyl)pyridine	189	C11H8ClN	005957-96-0	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

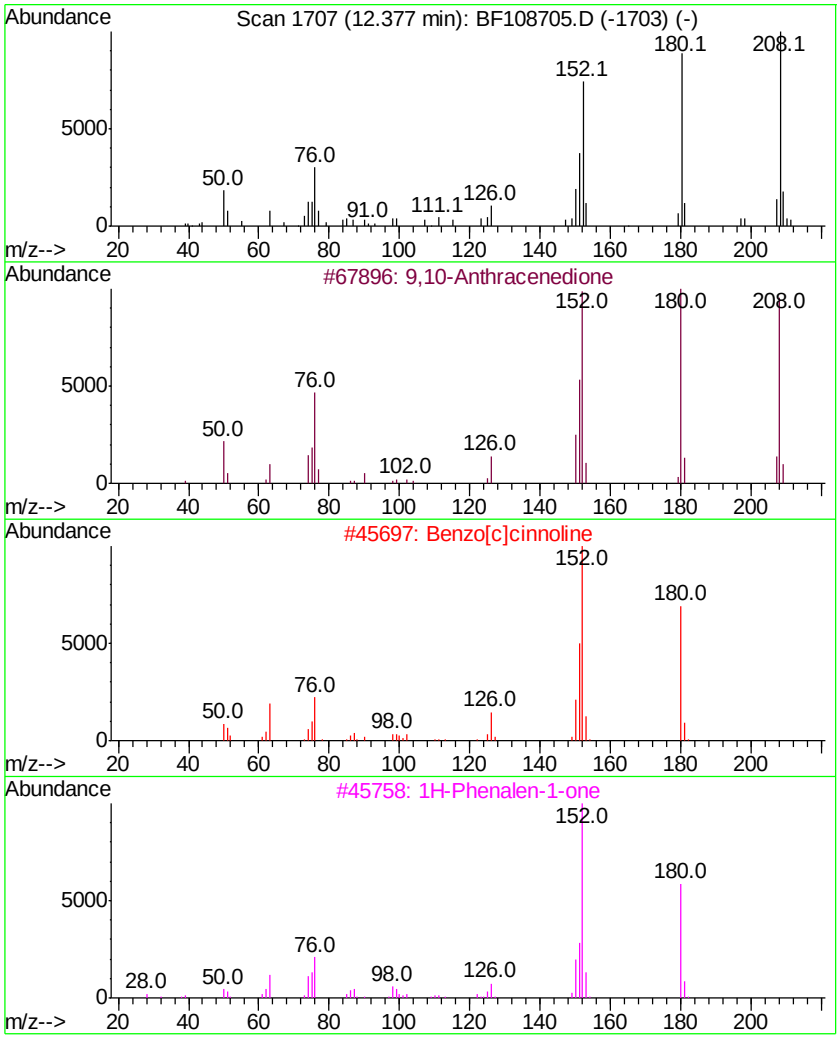
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

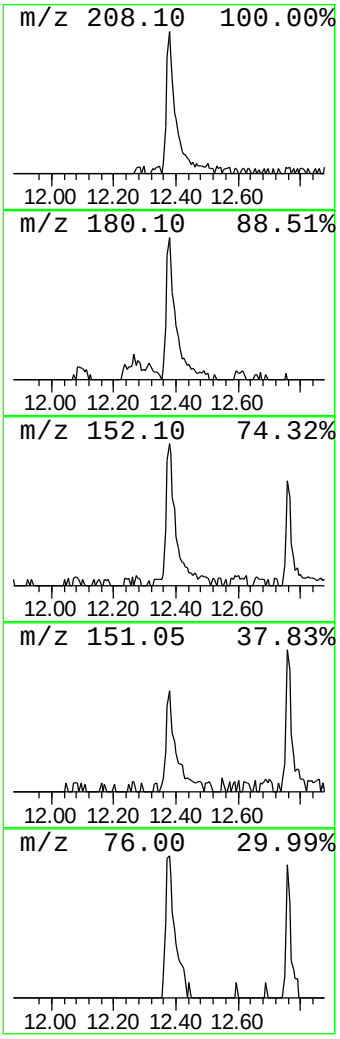
****

Peak Number 2 9,10-Anthracenedione Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.38	3.89 ng	92700	Phenanthrene-d10	11.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

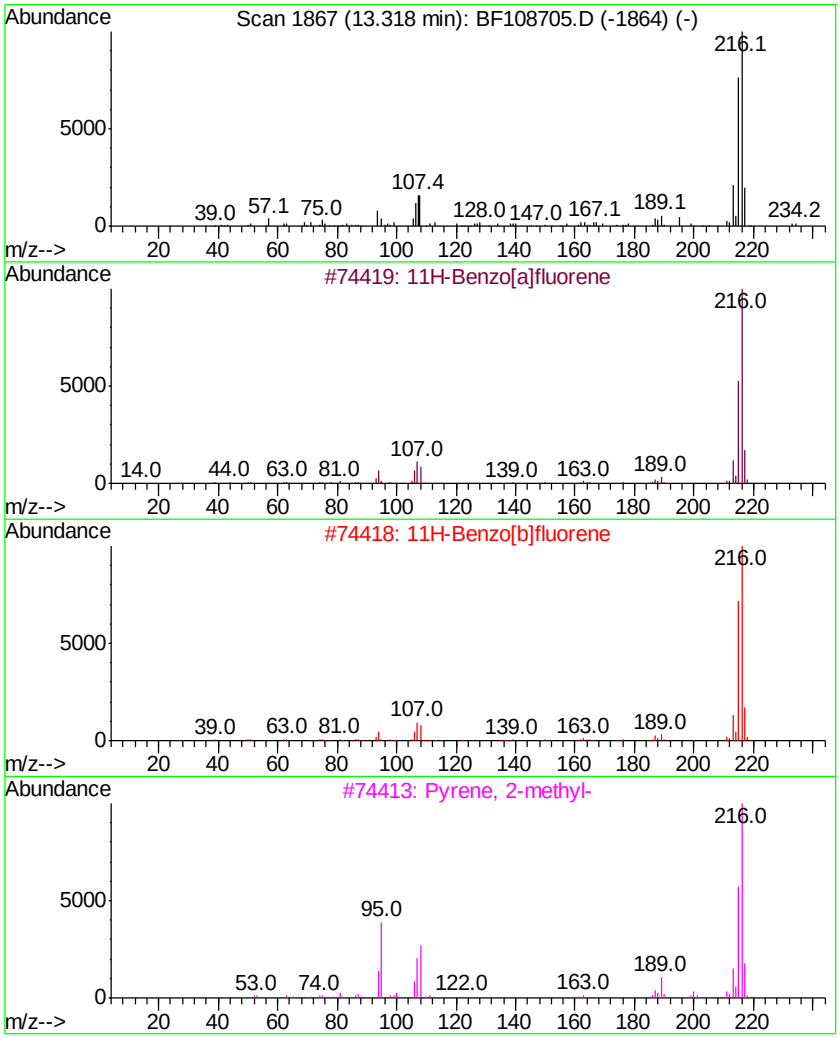
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

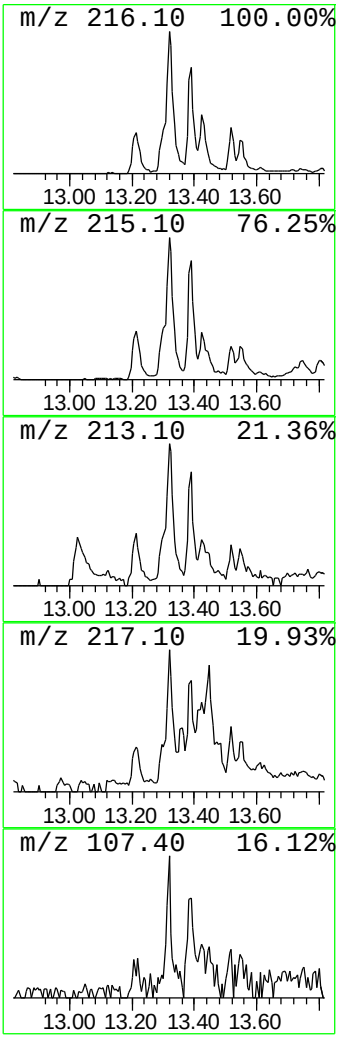
****

Peak Number 3 11H-Benzo[a]fluorene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.32	2.13 ng	143670	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

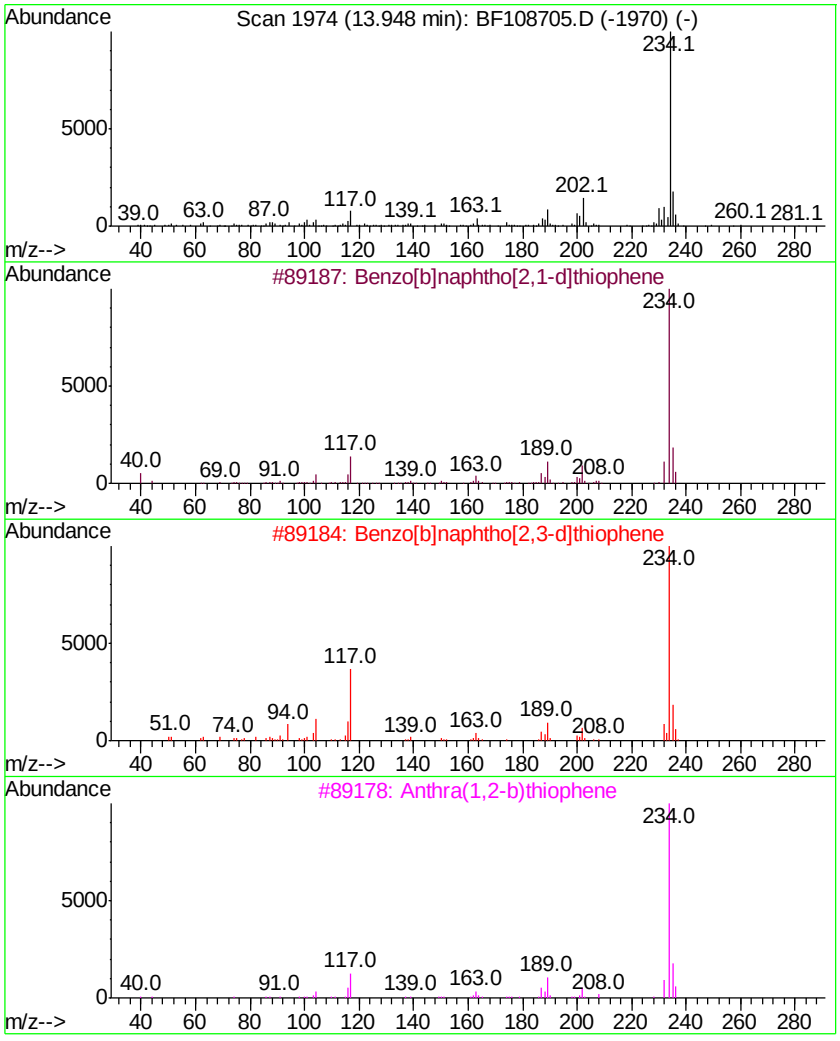
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

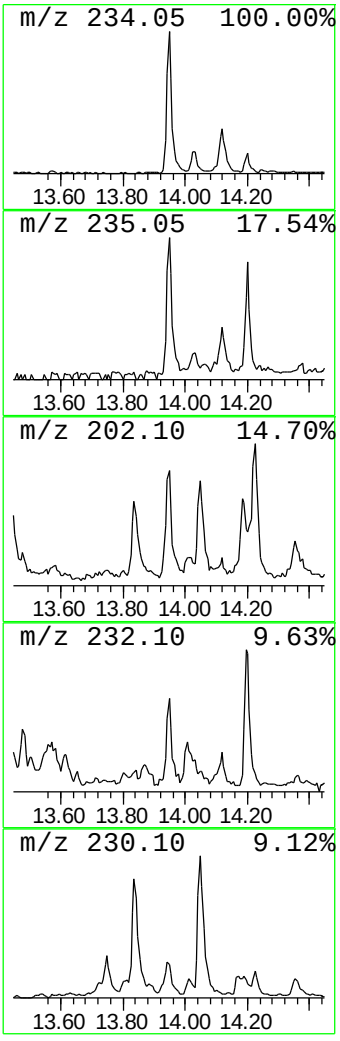
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	2.58 ng	173725	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	86
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	81
3	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	81
4	Phenanthro(2,1-b)thiophene	234	C16H10S	000219-25-0	70
5	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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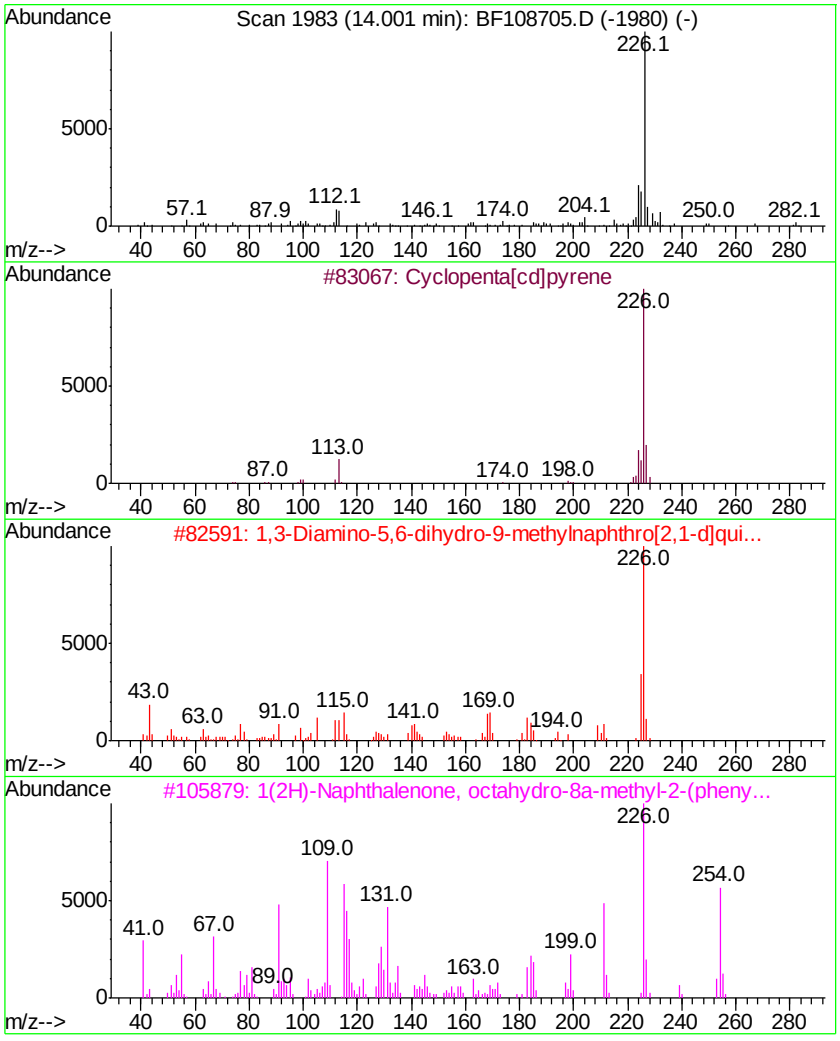
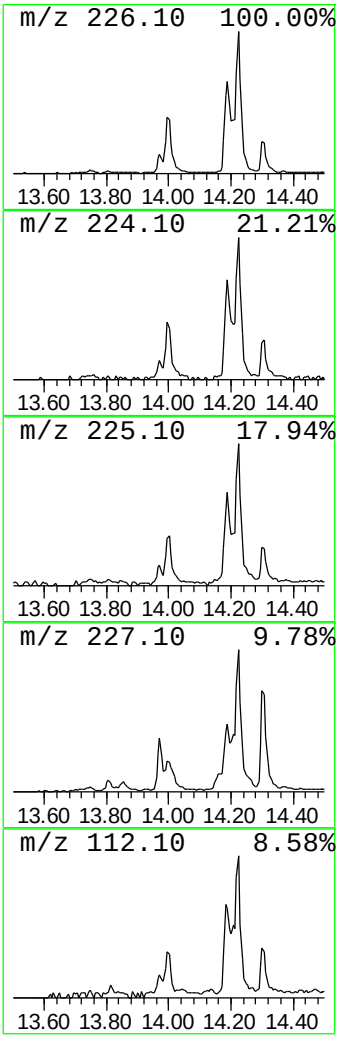
****

Peak Number 5 unknown14.00 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.00	2.82 ng	190226	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	40
2	1,3-Diamino-5,6-dihydro-9-methyl...	226	C13H14N4	037436-39-8	33
3	1(2H)-Naphthalenone, octahydro-8...	254	C18H22O	017429-44-6	25
4	Indole, 3-[1-methoxy-1-(2-thienyl...	257	C15H15NOS	080398-09-0	12
5	Anthracene, 1,8-diethynyl-	226	C18H10	078053-58-4	10





Library Search Compound Report

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Data File : BF108705.D
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Instrument : BNA_F
ClientSampleId : DW-06

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

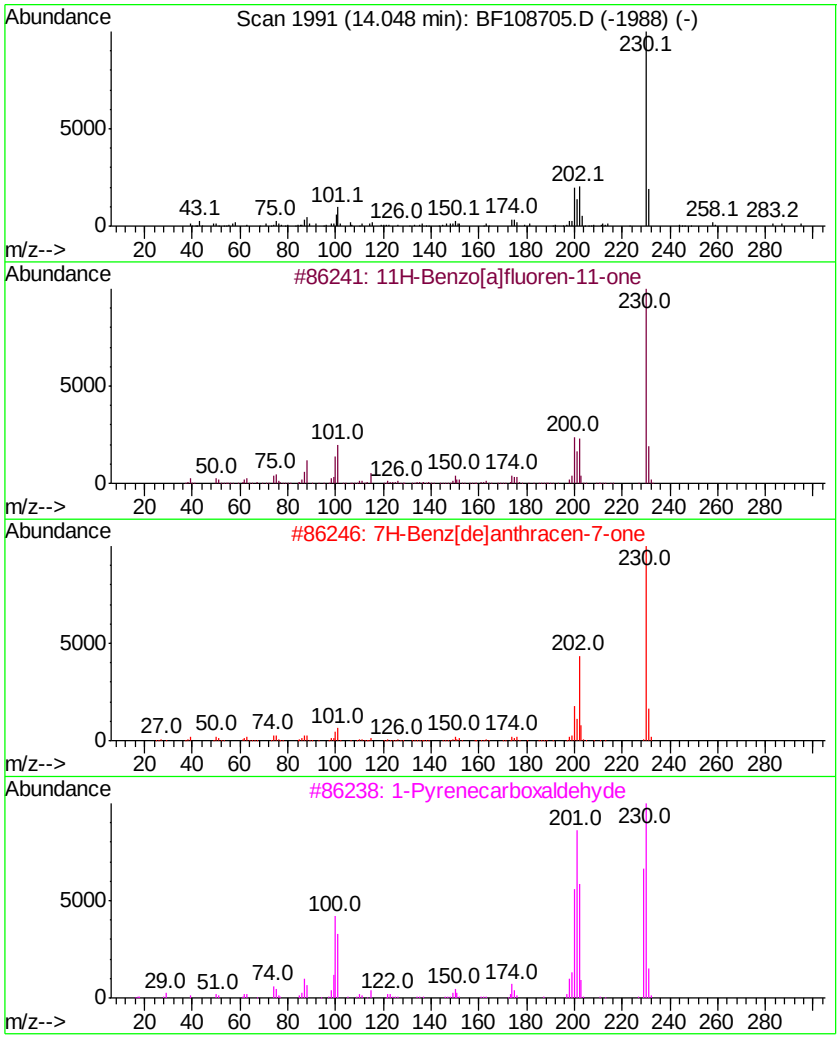
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

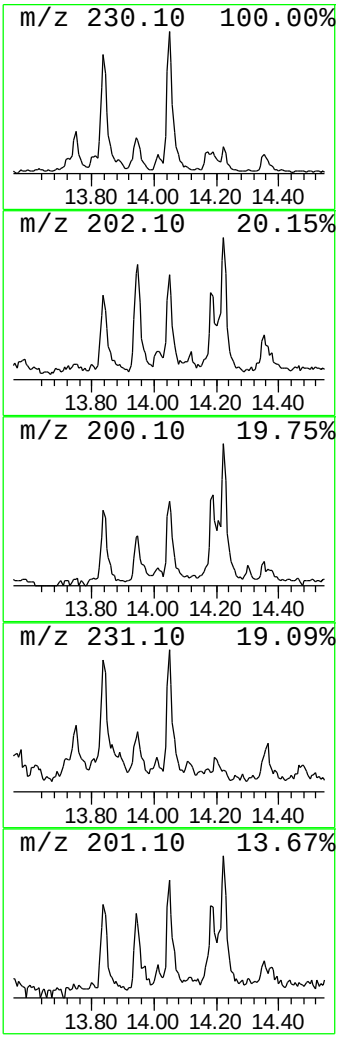
****

Peak Number 6 11H-Benzo[a]fluoren-11-one Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.05	2.03 ng	136717	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72
4	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	64
5	6,6-Diphenylfulvene	230	C18H14	002175-90-8	64





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

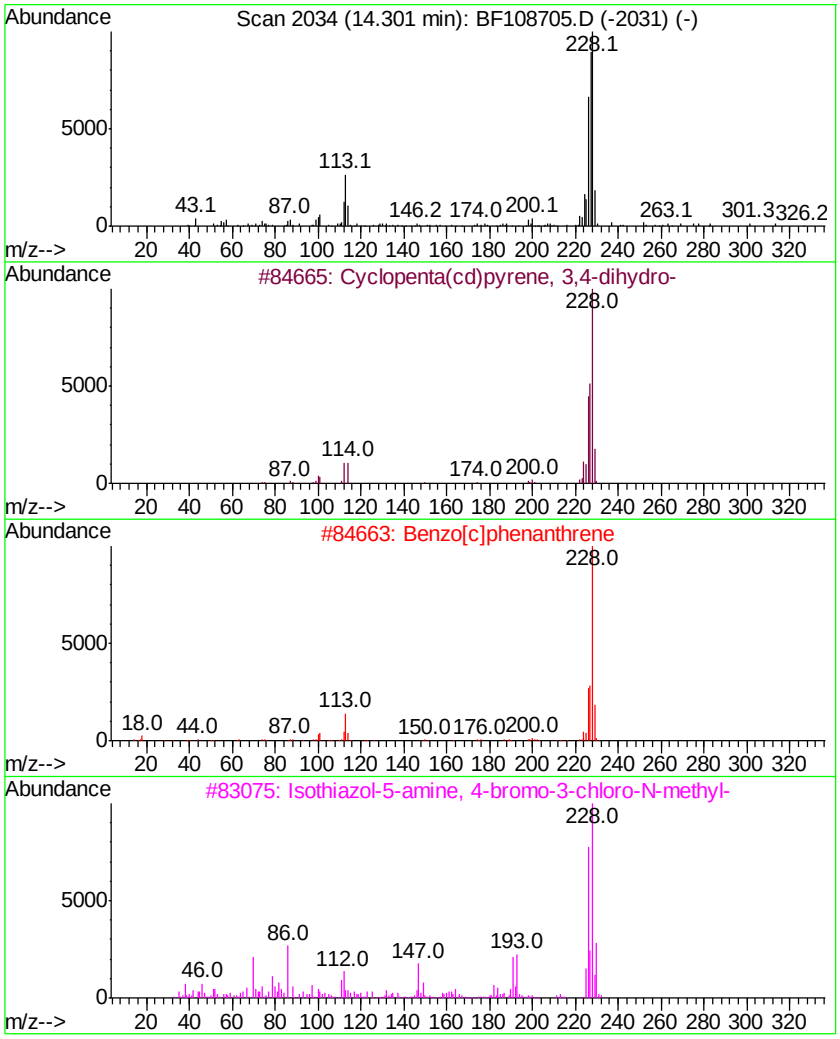
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

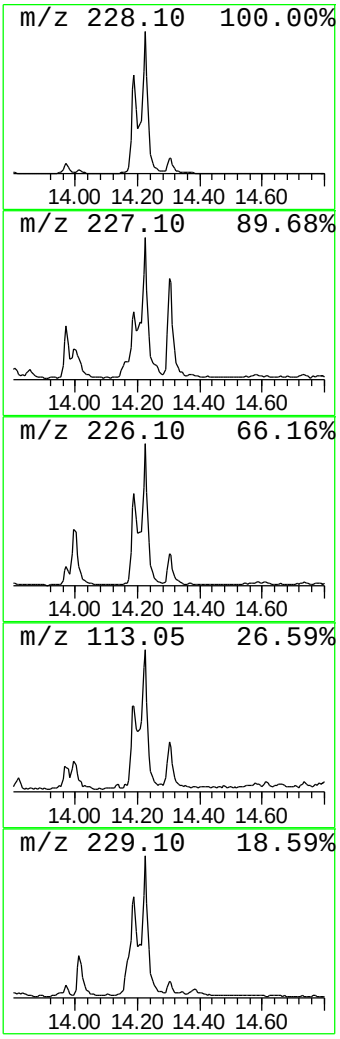
****

Peak Number 7 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.30	2.01 ng	135125	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	55
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	49
3	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	47
4	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	47
5	Triphenylene	228	C18H12	000217-59-4	46





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

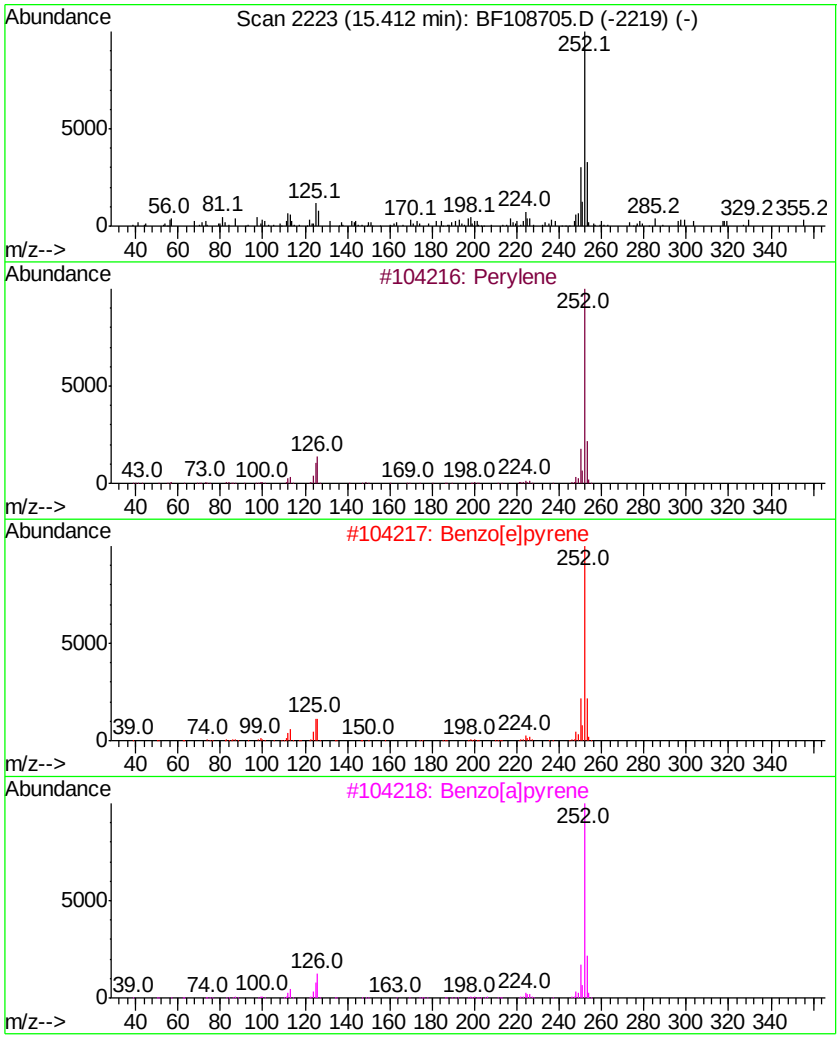
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

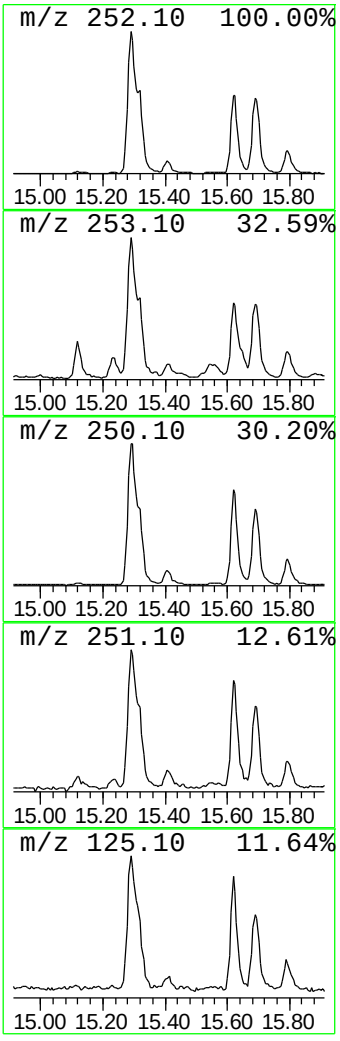
****

Peak Number 8 Perylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.41	4.04 ng	68588	Perylene-d12	15.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	81
2	Benzo[e]pyrene	252	C20H12	000192-97-2	76
3	Benzo[a]pyrene	252	C20H12	000050-32-8	76
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	76
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	76





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

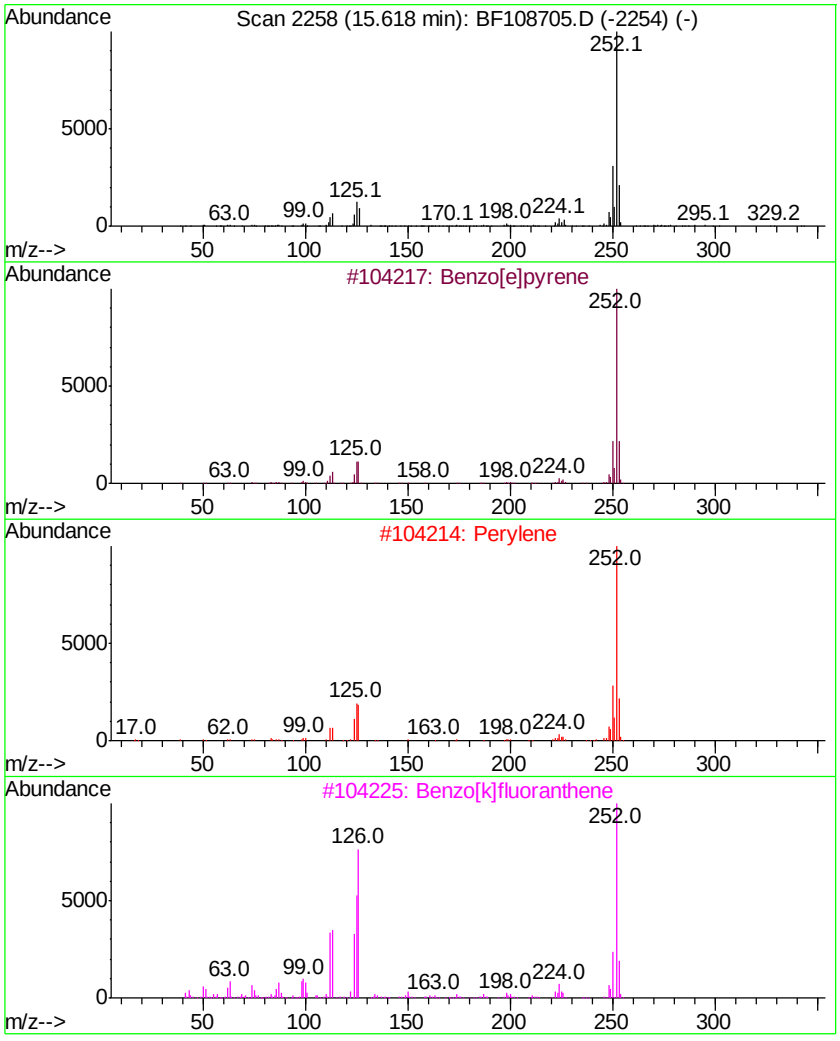
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

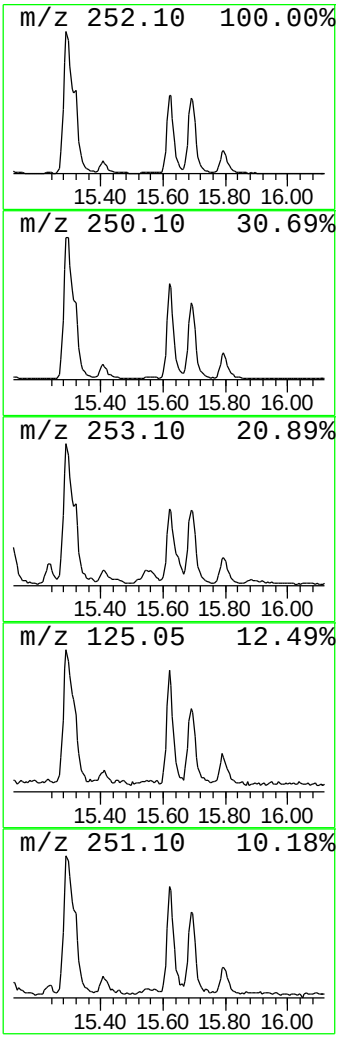
****

Peak Number 9 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.62	28.48 ng	483777	Perylene-d12	15.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	95
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF083118\
Data File : BF108705.D
Acq On : 31 Aug 2018 22:31
Operator : JU/SJ
Sample : J4712-11 4X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-06

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083018.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
4H-Cyclopenta[def...	12.16	2.9	ng	69314	4	11.54	476209	20.0
9,10-Anthracenedione	12.38	3.9	ng	92700	4	11.54	476209	20.0
11H-Benzo[a]fluorene	13.32	2.1	ng	143670	5	14.20	1347350	20.0
Benzo[b]naphtho[2...	13.95	2.6	ng	173725	5	14.20	1347350	20.0
unknown14.00	14.00	2.8	ng	190226	5	14.20	1347350	20.0
11H-Benzo[a]fluor...	14.05	2.0	ng	136717	5	14.20	1347350	20.0
Cyclopenta(cd)pyr...	14.30	2.0	ng	135125	5	14.20	1347350	20.0
Perylene	15.41	4.0	ng	68588	6	15.76	339780	20.0
Benzo[e]pyrene	15.62	28.5	ng	483777	6	15.76	339780	20.0