LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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	2.175	9	15	22	rVB	433047	580681	15.41%	1.027%
2	5.122	511	516	526	rVB	487277	567677	15.06%	1.004%
3	5.528	580	585	588	rBV	3077161	2741130	72.74%	4.846%
4	6.539	751	757	760	rBV	3274441	3261194	86.54%	5.766%
5	6.681	777	781	785	rBV	3639510	3377990	89.64%	5.972%
6	6.916	817	821	824	rBV	1318764	1051021	27.89%	1.858%
7	7.075	844	848	851	rBV	2971366	2607641	69.20%	4.610%
8	7.475	912	916	919	rBV	2333349	2057036	54.59%	3.637%
9	8.204	1036	1040	1042	rBV	1693390	1325507	35.17%	2.343%
10	8.222	1042	1043	1046	rVB	133670	84658	2.25%	0.150%
11	8.916	1158	1161	1165	rVB	214191	172624	4.58%	0.305%
12	9.016	1174	1178	1182	rBV	284379	228504	6.06%	0.404%
13	9.280	1219	1223	1226	rBV	4616229	3768479	100.00%	6.662%
14	9.380	1238	1240	1246	rVB2	63715	88672	2.35%	0.157%
15	9.480	1254	1257	1262	rVB	66536	87769	2.33%	0.155%
16	9.551	1264	1269	1272	rBV	173601	240426	6.38%	0.425%
17	9.622	1277	1281	1283	rVV	367296	356873	9.47%	0.631%
18	9.645	1283	1285	1287	rVV	227928	193446	5.13%	0.342%
19	9.675	1287	1290	1298	rVB	764433	700439	18.59%	1.238%
20	9.739	1298	1301	1306	rBV	221659	245386	6.51%	0.434%
21	9.822	1312	1315	1319	rBV	495404	442823	11.75%	0.783%
22	9.963	1336	1339	1343	rVB	1701691	1520310	40.34%	2.688%
23	9.998	1343	1345	1348	rVB2	115630	91432	2.43%	0.162%
24	10.069	1353	1357	1361	rBV2	98677	134467	3.57%	0.238%
25	10.163	1370	1373	1377	rVV2	181700	196101	5.20%	0.347%
26	10.204	1377	1380	1383	rVB	184110	156539	4.15%	0.277%
27	10.280	1389	1393	1396	rBV2	194378	210606	5.59%	0.372%
28	10.310	1396	1398	1400	rVV	164139	122183	3.24%	0.216%
29	10.374	1404	1409	1410	rBV2	127248	174855	4.64%	0.309%
30	10.392	1410	1412	1414	rVB	149936	113870	3.02%	0.201%
31	10.510	1430	1432	1439	rVV3	208121	269339	7.15%	0.476%
32	10.627	1449	1452	1456	rVB3	85068	90085	2.39%	0.159%
33	10.669	1456	1459	1462	rBV3	87871	101781	2.70%	0.180%
34	10.757	1469	1474	1477	rBV	2855563	2447734	64.95%	4.327%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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	10.880	1490	1495	1500	rVB2	218059	256582	6.81%	0.454%
36	11.063	1522	1526	1529	rBV3	136614	183724	4.88%	0.325%
37	11.092	1529	1531	1534	rVV2	157286	136372	3.62%	0.241%
38	11.145	1538	1540	1543	rVB	90465	83378	2.21%	0.147%
39	11.192	1543	1548	1550	rBV5	87704	128191	3.40%	0.227%
40	11.216	1550	1552	1556	rVV2	85906	99652	2.64%	0.176%
41	11.257	1557	1559	1563	rVB2	187911	176364	4.68%	0.312%
42	11.351	1572	1575	1580	rVB	201480	212544	5.64%	0.376%
43	11.457	1589	1593	1595	rBV	1647128	1444359	38.33%	2.554%
44	11.480	1595	1597	1600	rVV	1627780	1261724	33.48%	2.231%
45	11.533	1603	1606	1609	rVV	298176	231657	6.15%	0.410%
46	11.563	1609	1611	1614	rVV2	105903	119527	3.17%	0.211%
47	11.633	1621	1623	1627	rVB	94513	90355	2.40%	0.160%
48	11.686	1630	1632	1638	rVV4	75122	135593	3.60%	0.240%
49	11.751	1641	1643	1647	rVV2	92131	103481	2.75%	0.183%
50	11.786	1647	1649	1654	rVB	226013	211362	5.61%	0.374%
51	11.874	1661	1664	1667	rVB	119299	119013	3.16%	0.210%
52	11.916	1668	1671	1675	rVV2	91768	108237	2.87%	0.191%
53	11.963	1675	1679	1680	rVV	665782	621575	16.49%	1.099%
54	11.986	1680	1683	1689	rVV2	980898	1237968	32.85%	2.189%
55	12.033	1689	1691	1694	rVV	201027	219565	5.83%	0.388%
56	12.068	1694	1697	1700	rVV2	713907	844427	22.41%	1.493%
57	12.098	1700	1702	1706	rVB	460489	367198	9.74%	0.649%
58	12.192	1716	1718	1721	rVB3	113696	93813	2.49%	0.166%
59	12.257	1726	1729	1731	rVV2	263317	244632	6.49%	0.432%
60	12.280	1731	1733	1739	rVB4	130281	210659	5.59%	0.372%
61	12.386	1749	1751	1752	rBV	99848	77168	2.05%	0.136%
62	12.404	1752	1754	1757	rVV	227500	220153	5.84%	0.389%
63	12.439	1757	1760	1762	rVV	295236	255000	6.77%	0.451%
64	12.463	1762	1764	1767	rVB	219498	171841	4.56%	0.304%
65	12.515	1769	1773	1775	rBV	635070	696747	18.49%	1.232%
66	12.545	1775	1778	1781	rVV2	365962	476339	12.64%	0.842%
67	12.568	1781	1782	1784	rVB	219418	122773	3.26%	0.217%
68	12.598	1784	1787	1792	rBV3	250047	292760	7.77%	0.518%
69	12.674	1797	1800	1803	rBV	1070554	901163	23.91%	1.593%
70	12.768	1813	1816	1819	rBV	343670	318115	8.44%	0.562%
71	12.904	1834	1839	1846	rBV	1250075	1492761	39.61%	2.639%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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	12.963	1846	1849	1852	rVB2	247934	236222	6.27%	0.418%
73	13.051	1860	1864	1870	rVB	2917850	2934090	77.86%	5.187%
74	13.121	1873	1876	1883	rVV3	254811	416919	11.06%	0.737%
75	13.180	1884	1886	1888	rVV2	114987	92613	2.46%	0.164%
76	13.210	1888	1891	1892	rVV2	183994	187990	4.99%	0.332%
77	13.233	1893	1895	1898	rVB	331952	261806	6.95%	0.463%
78	13.298	1904	1906	1909	rVB	147832	126835	3.37%	0.224%
79	13.339	1910	1913	1917	rVB	307808	283138	7.51%	0.501%
80	13.433	1926	1929	1931	rVV	282986	208833	5.54%	0.369%
81	13.462	1931	1934	1937	rVV	304508	244183	6.48%	0.432%
82	13.492	1937	1939	1942	rVB3	113743	101673	2.70%	0.180%
83	13.745	1979	1982	1986	rVB	192030	221960	5.89%	0.392%
84	13.804	1990	1992	1995	rVB	135772	116194	3.08%	0.205%
85	13.845	1996	1999	2000	rBV2	187663	197300	5.24%	0.349%
86	13.951	2014	2017	2022	rVB3	258835	318496	8.45%	0.563%
87	14.104	2039	2043	2046	rBV2	1291847	1737728	46.11%	3.072%
88	14.133	2046	2048	2053	rVB	665920	553886	14.70%	0.979%
89	14.457	2101	2103	2105	rBV	109447	103561	2.75%	0.183%
90	14.492	2107	2109	2112	rVV	339685	328394	8.71%	0.581%
91	14.527	2113	2115	2118	rVB	232010	189774	5.04%	0.336%
92	14.568	2120	2122	2125	rVV4	173886	227401	6.03%	0.402%
93	14.621	2128	2131	2133	rVB	219790	196643	5.22%	0.348%
94	14.892	2174	2177	2179	rBV2	188369	196150	5.21%	0.347%
95	14.968	2188	2190	2194	rBV2	139745	166956	4.43%	0.295%
96	15.168	2220	2224	2231	rBV	398549	765335	20.31%	1.353%
97	15.280	2241	2243	2246	rBV	159905	146820	3.90%	0.260%
98	15.486	2275	2278	2284	rVB	305679	404733	10.74%	0.716%
99	15.551	2285	2289	2296	rVB	438570	614992	16.32%	1.087%
100	15.621	2296	2301	2304	rBV	840837	1206498	32.02%	2.133%

Sum of corrected areas: 56563173

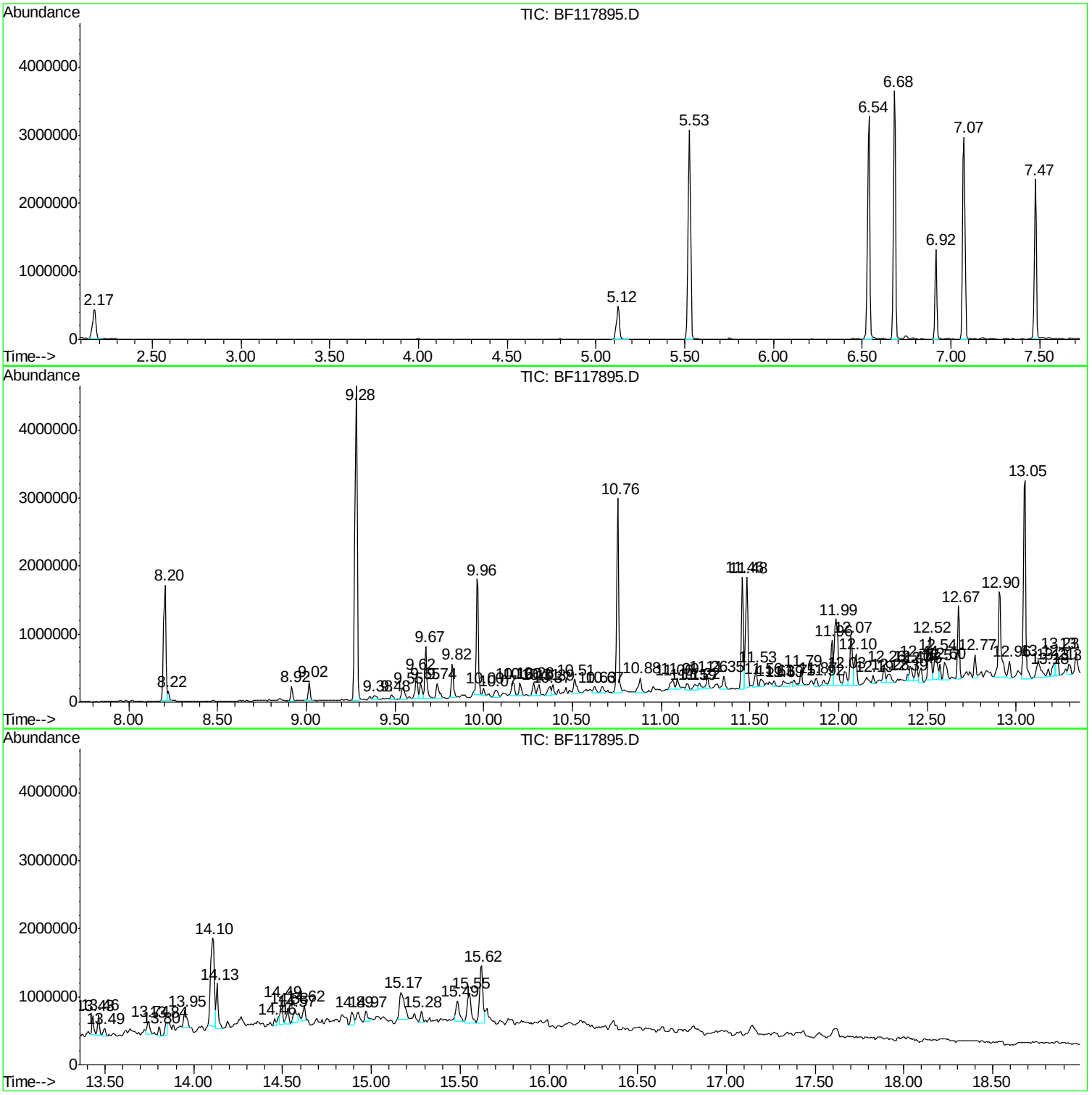
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
600429836

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\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

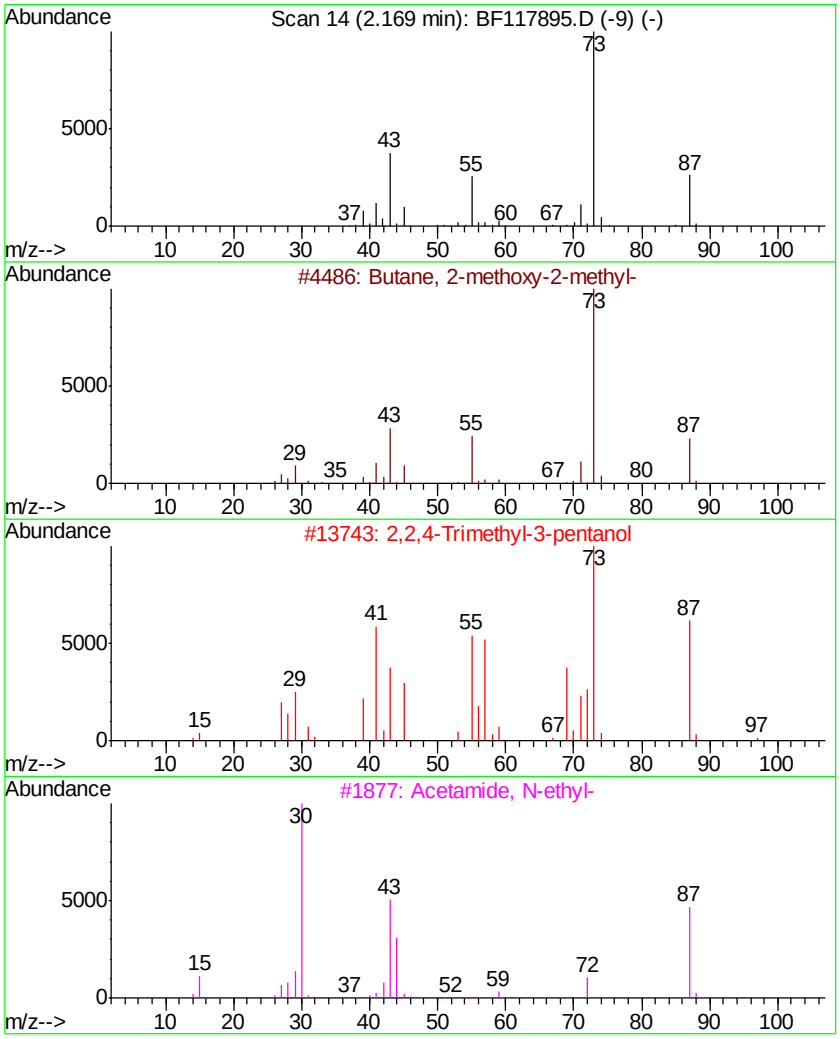
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

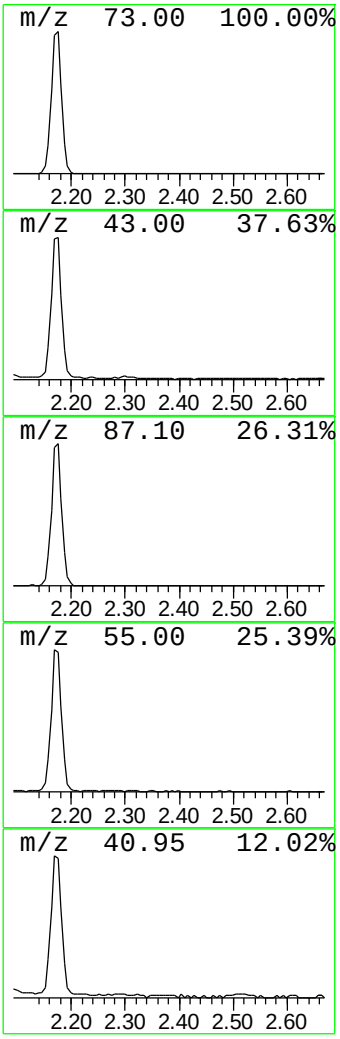
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.17	11.05 ng	580681	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	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	43
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	10





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

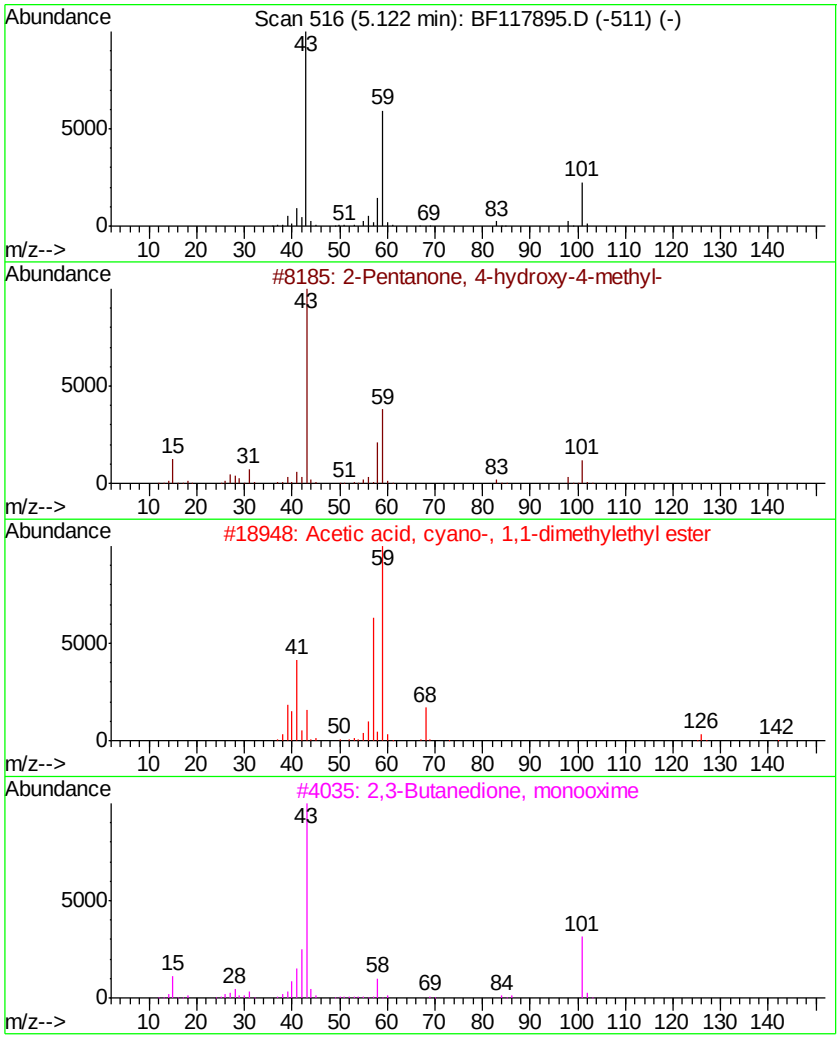
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

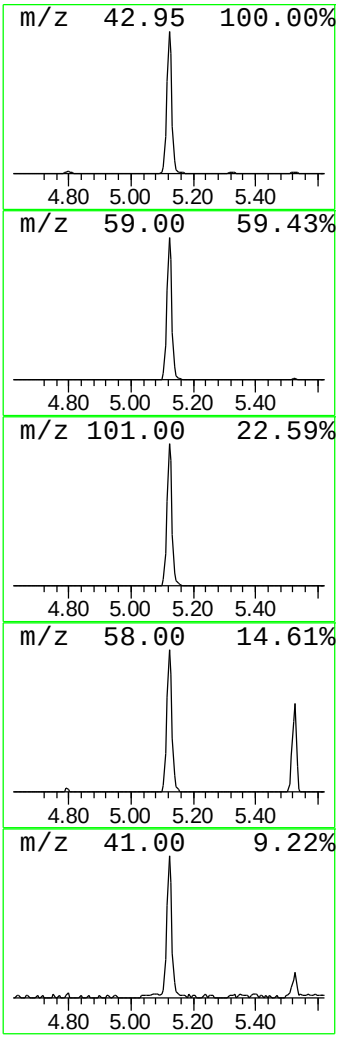
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.12	10.80 ng	567677	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	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	1,2-Butanediol	90	C4H10O2	000584-03-2	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

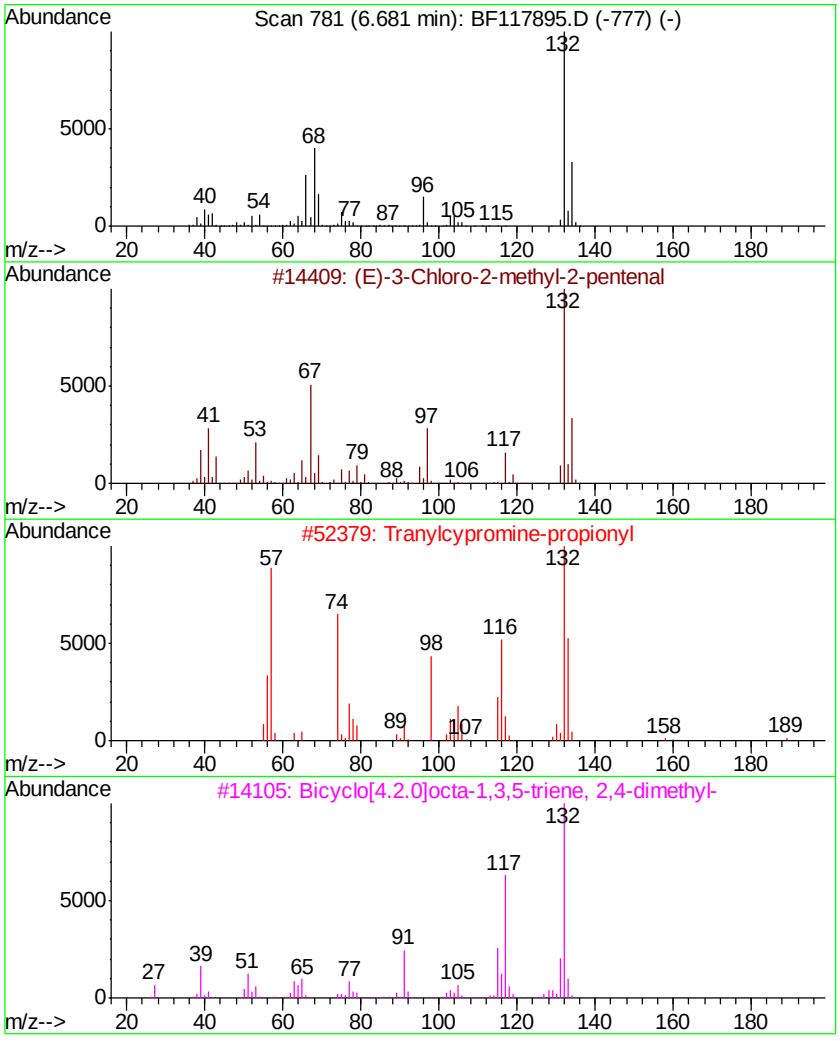
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

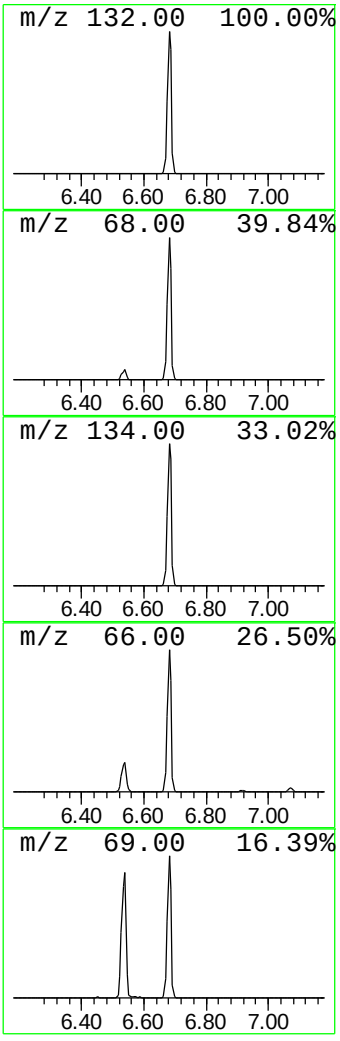
****

Peak Number 3 unknown6.68 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.68	64.28 ng	3377990	1,4-Dichlorobenzene-d4	6.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

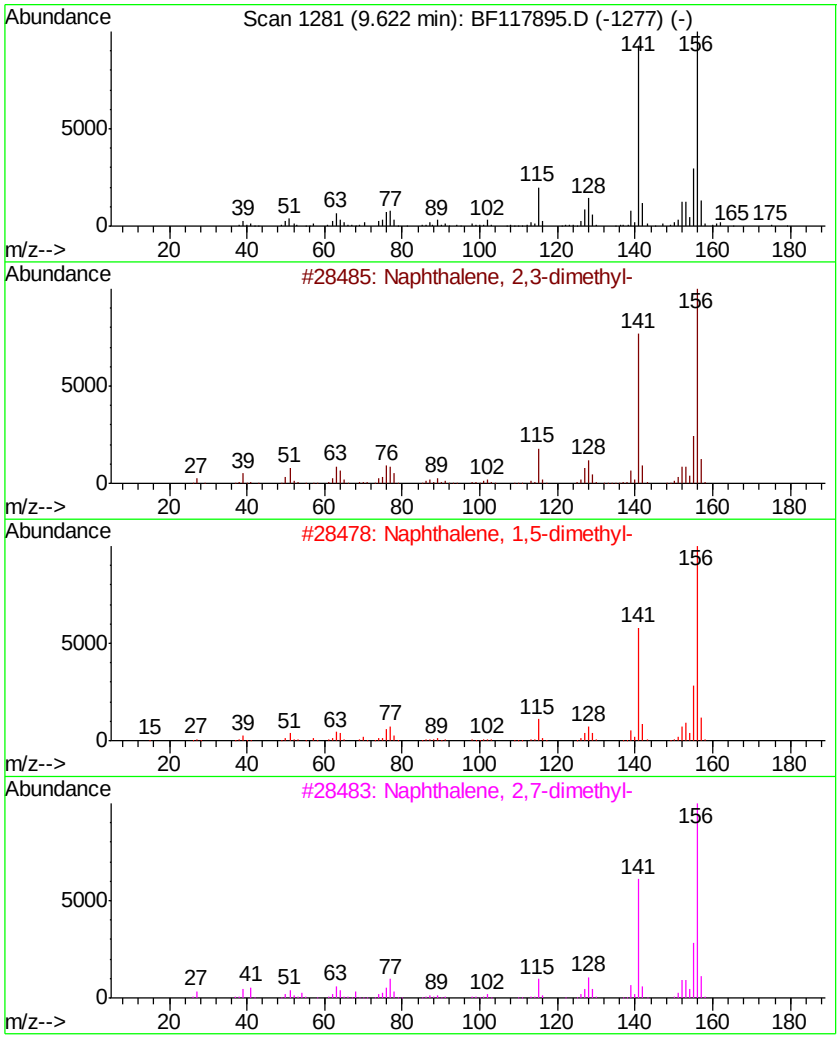
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

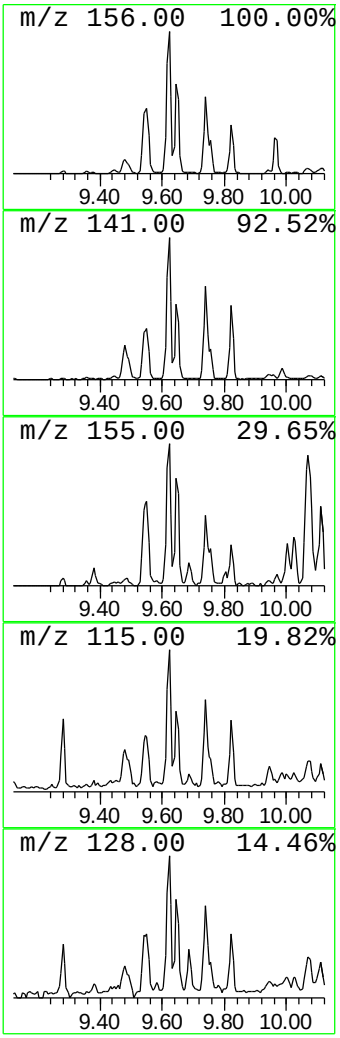
****

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.62	4.69 ng	356873	Acenaphthene-d10	9.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

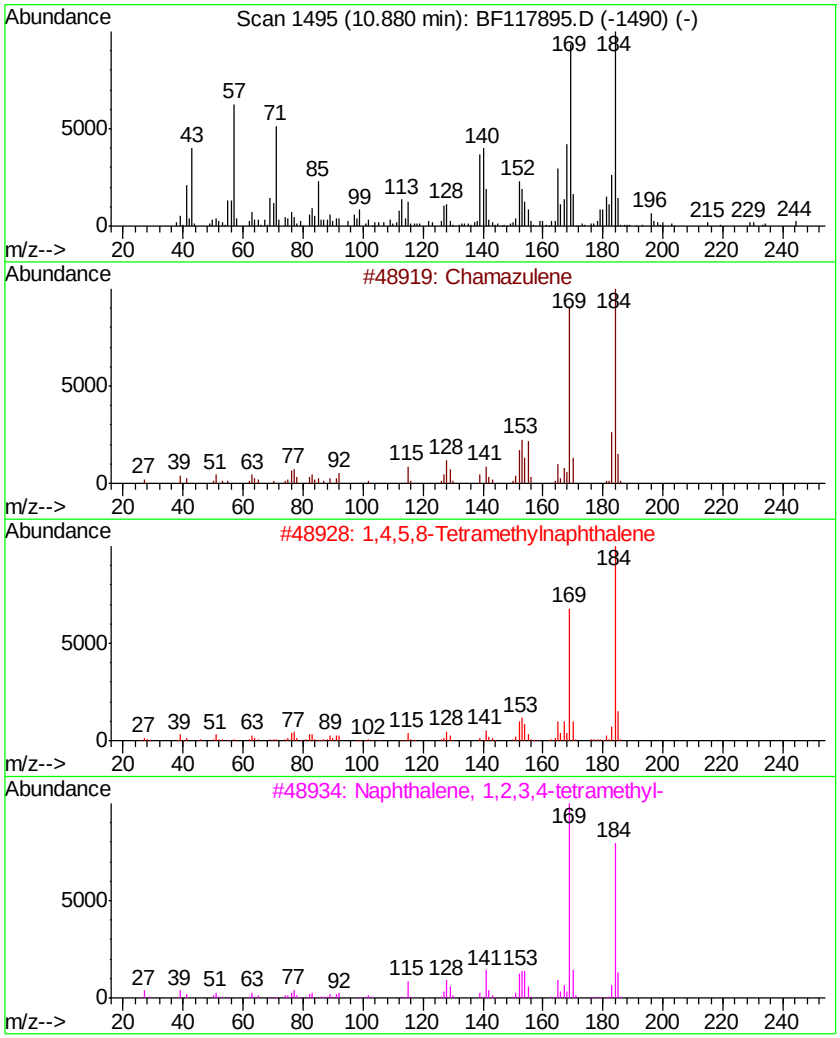
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

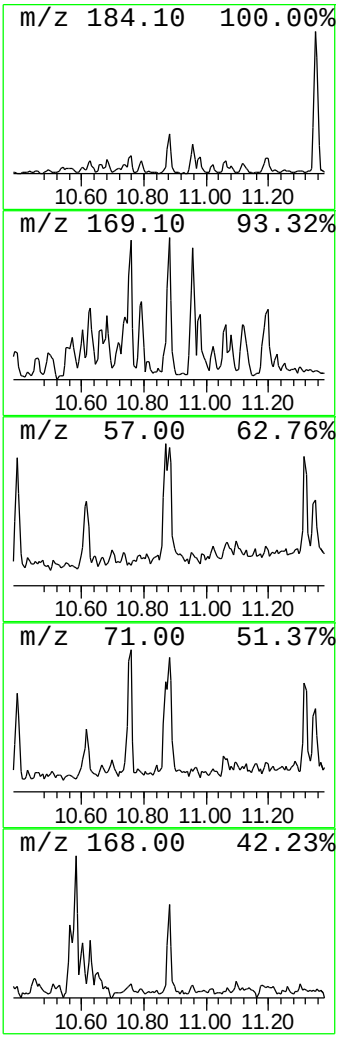
****

Peak Number 6 Chamazulene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	3.55 ng	256582	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chamazulene	184	C14H16	000529-05-5	78
2	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	55
3	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	55
4	Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	49
5	Pyridine, 3-methyl-4-phenyl-	169	C12H11N	002052-92-8	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

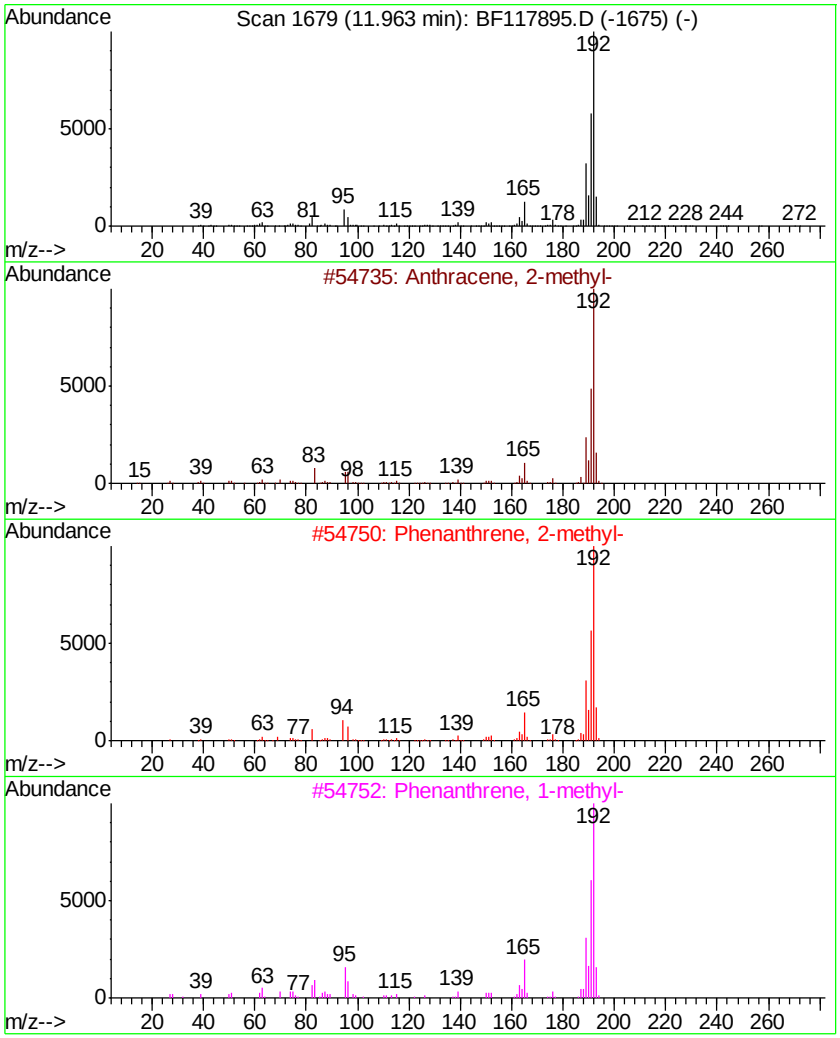
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

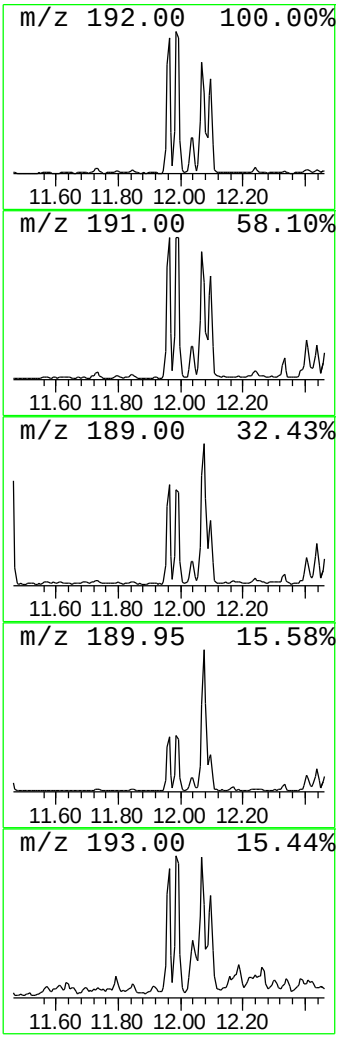
****

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	8.61 ng	621575	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

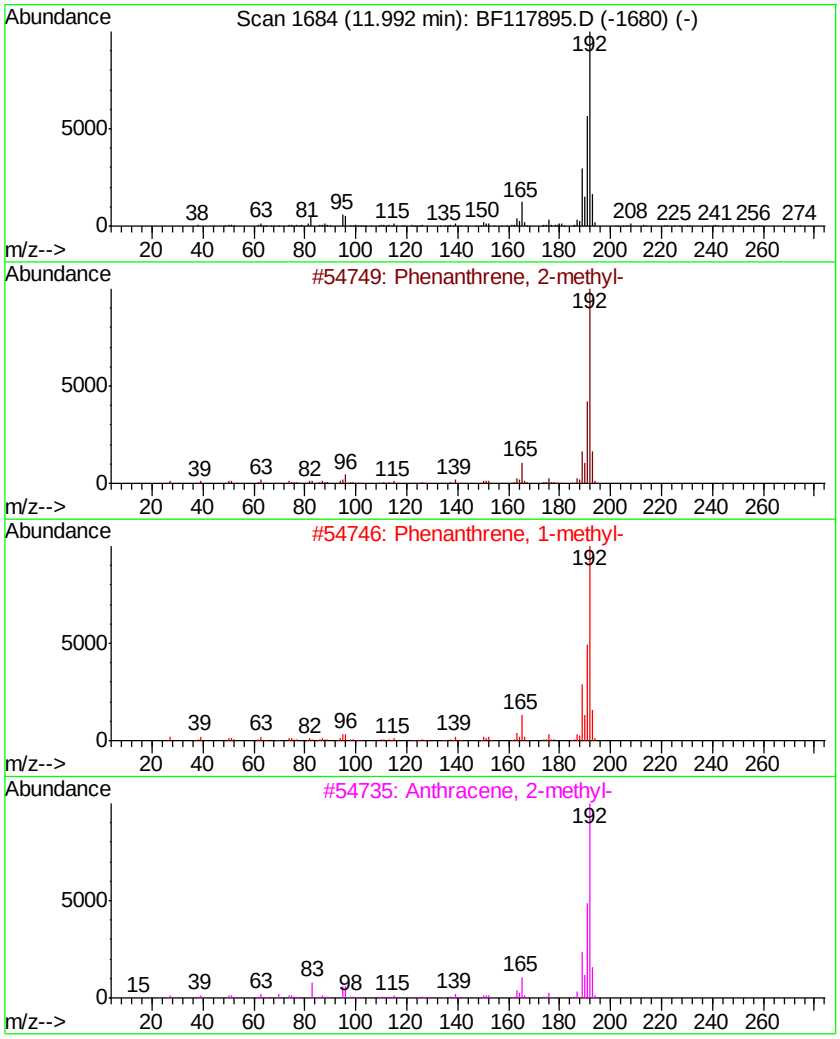
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

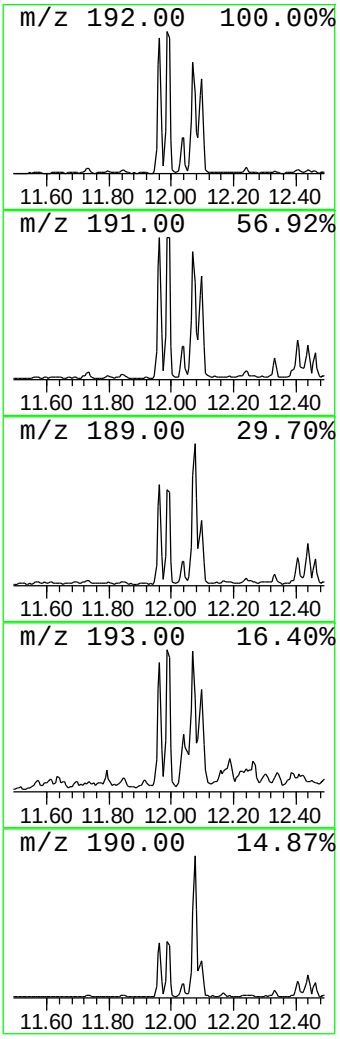
****

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	17.14 ng	1237970	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

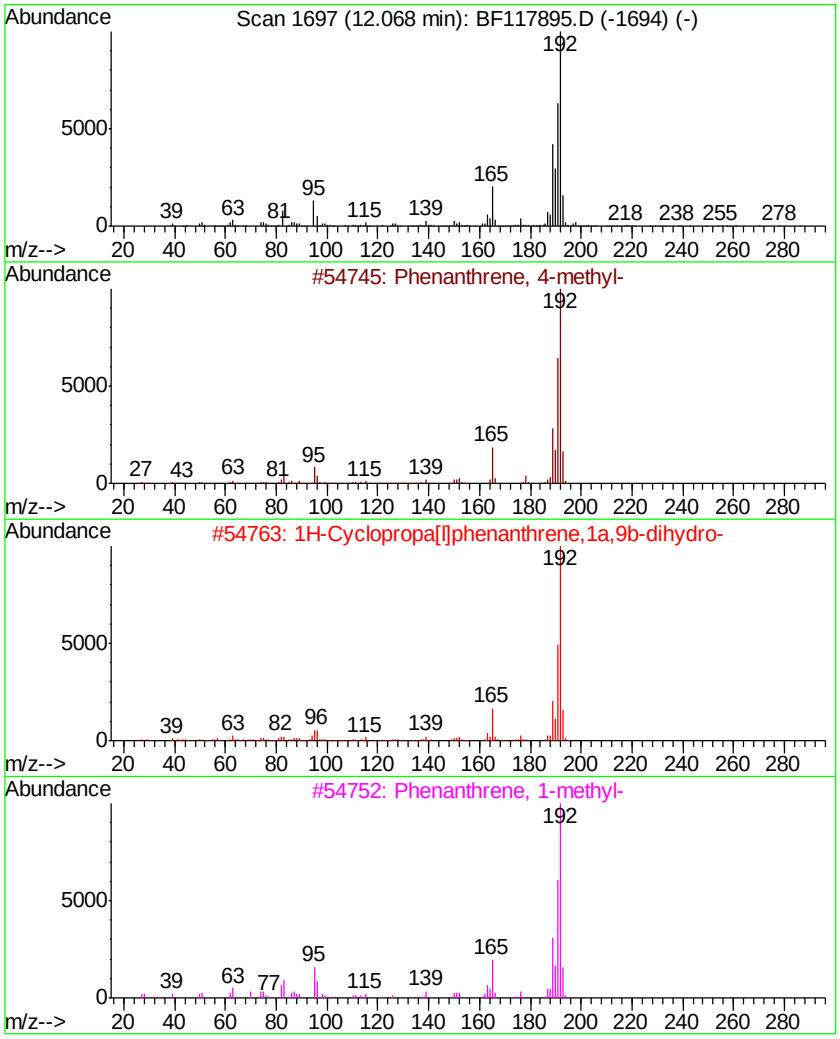
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

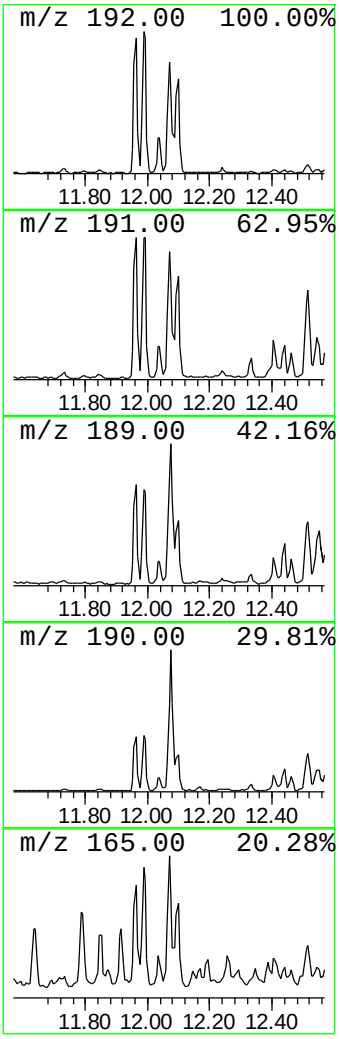
****

Peak Number 9 Phenanthrene, 4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	11.69 ng	844427	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	86
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

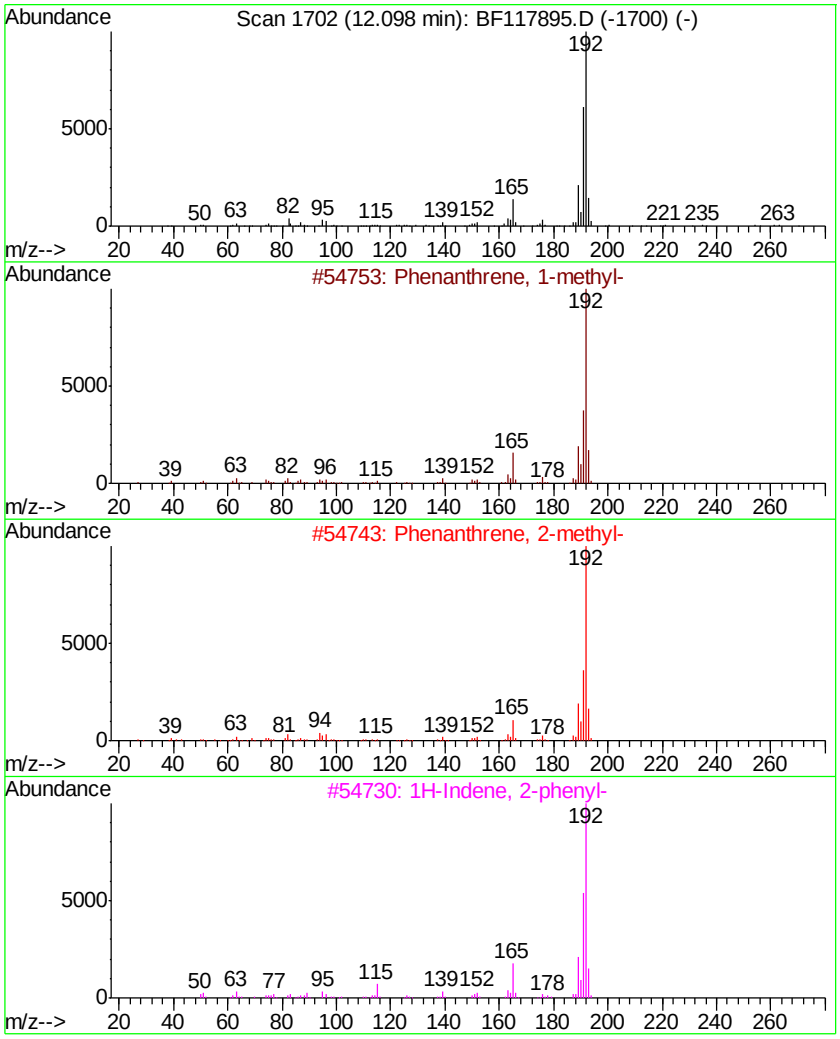
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

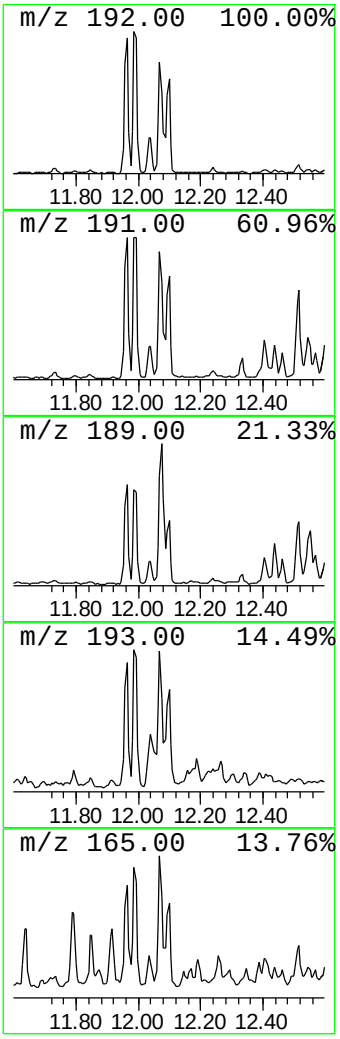
****

Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	5.08 ng	367198	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	87
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	87
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

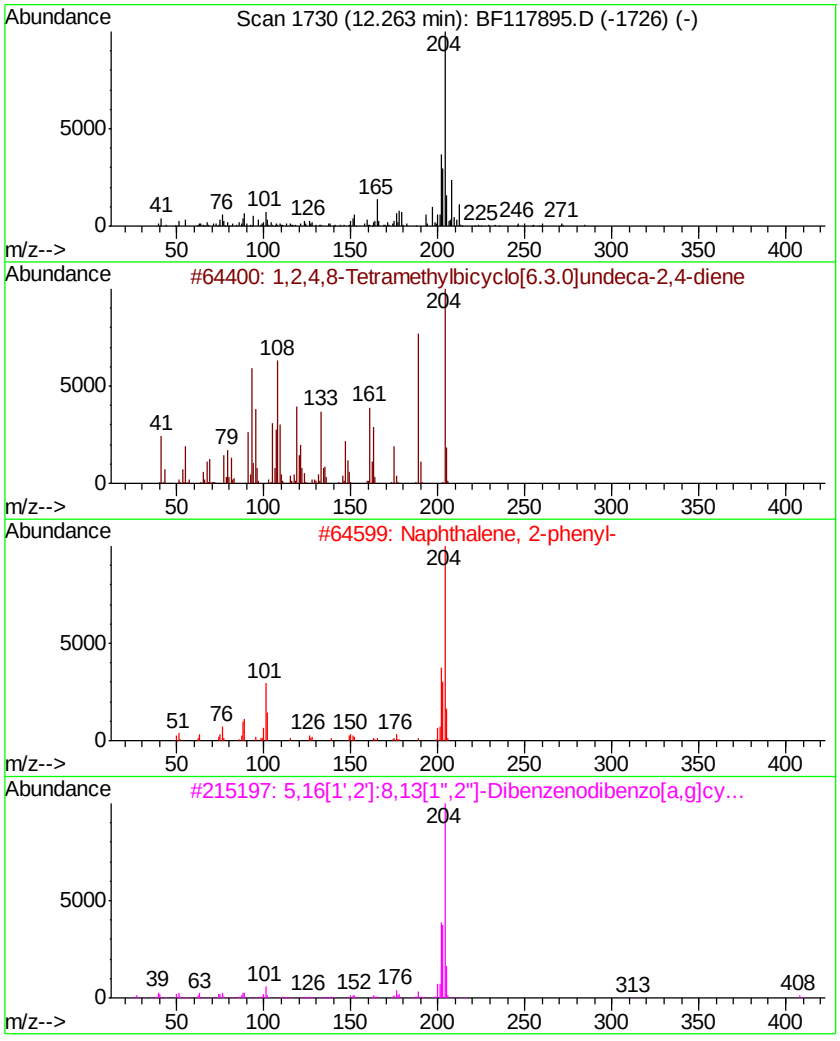
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

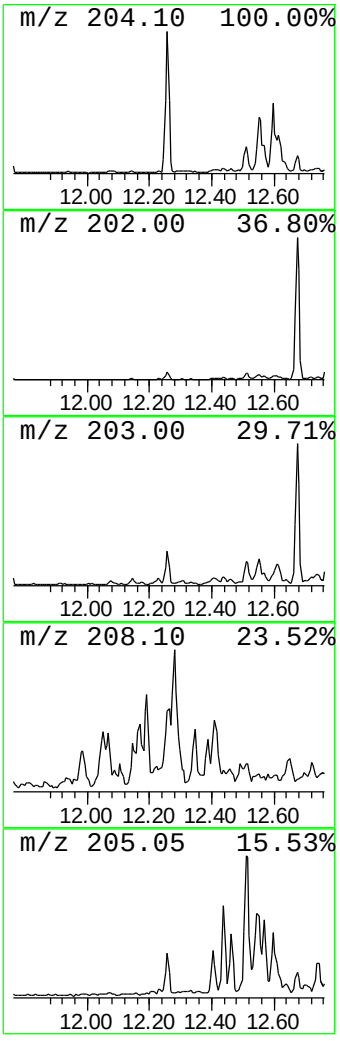
****

Peak Number 11 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	3.39 ng	244632	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	58
4	6-Phenylbenzocycloheptен-7-one	232	C17H12O	093327-56-1	58
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	53





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

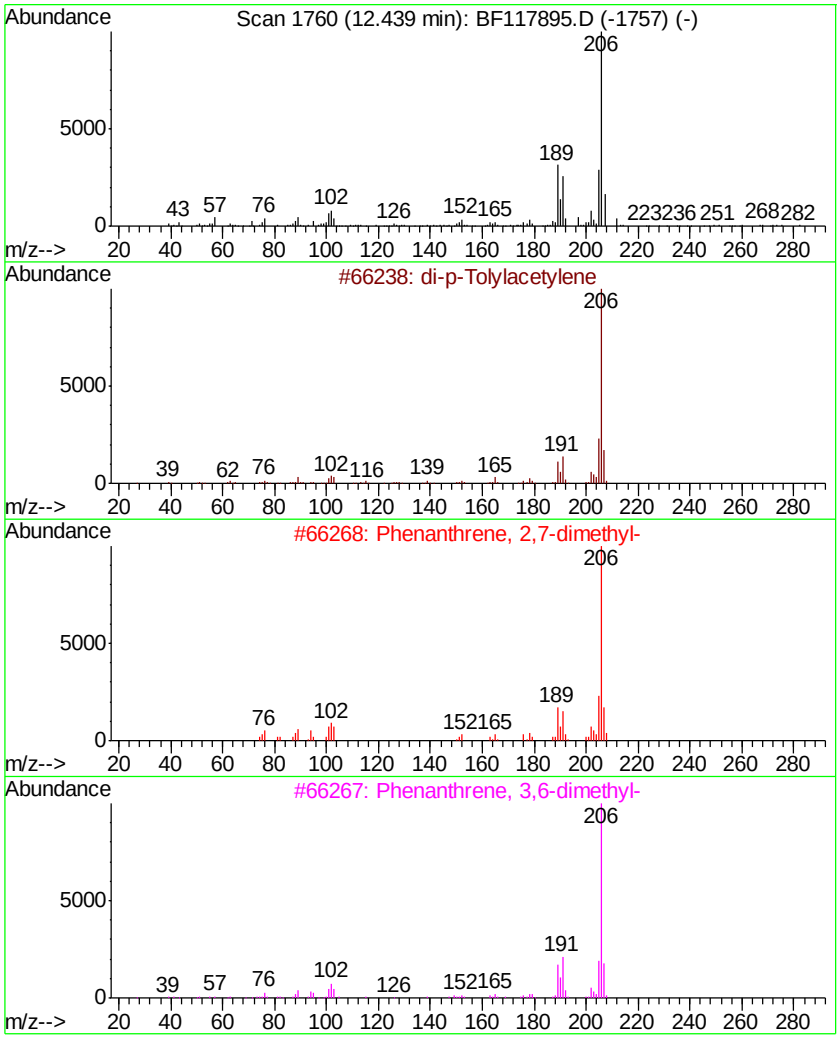
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

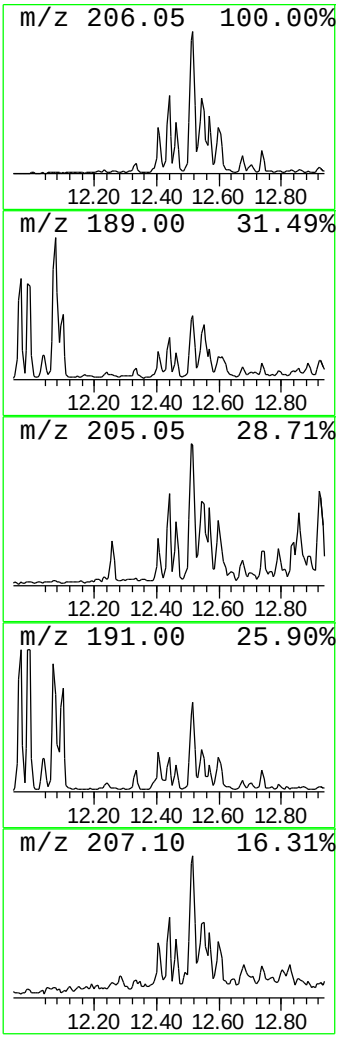
****

Peak Number 12 di-p-Tolylacetylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.44	3.53 ng	255000	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	86
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	80
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	80
5	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

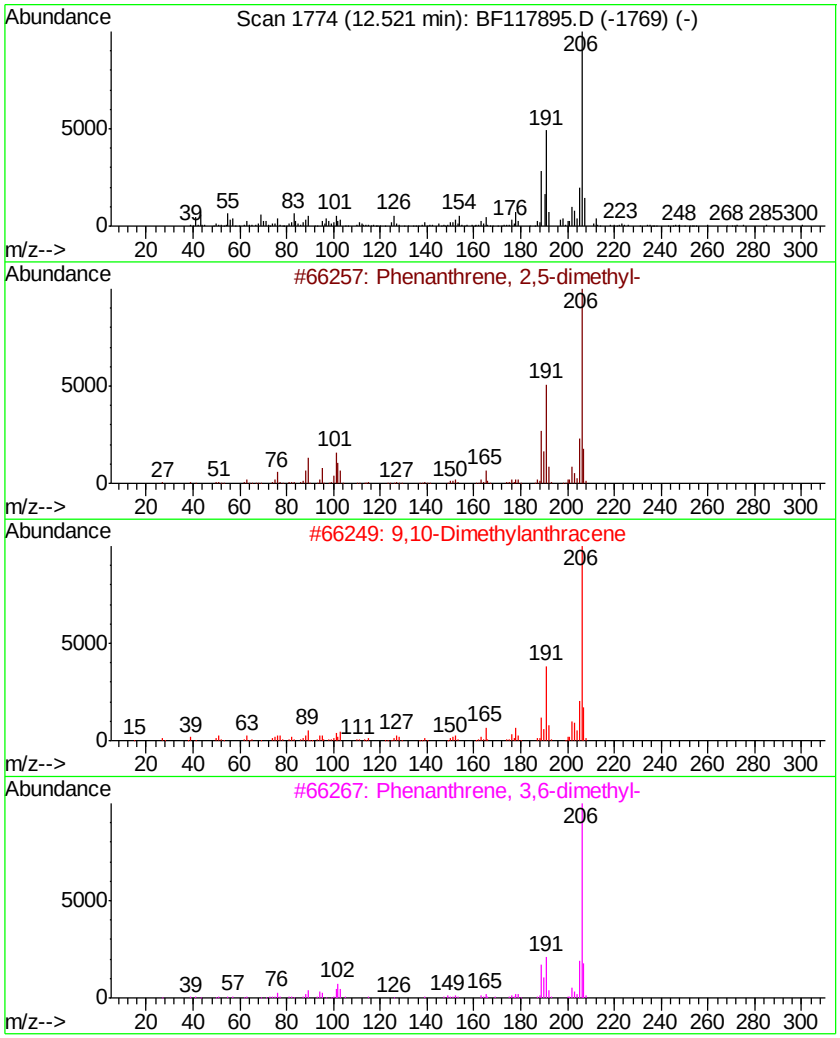
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

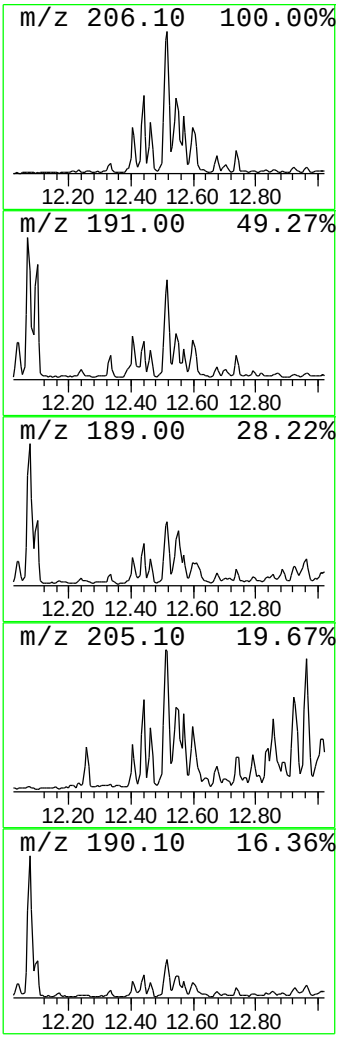
****

Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	9.65 ng	696747	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

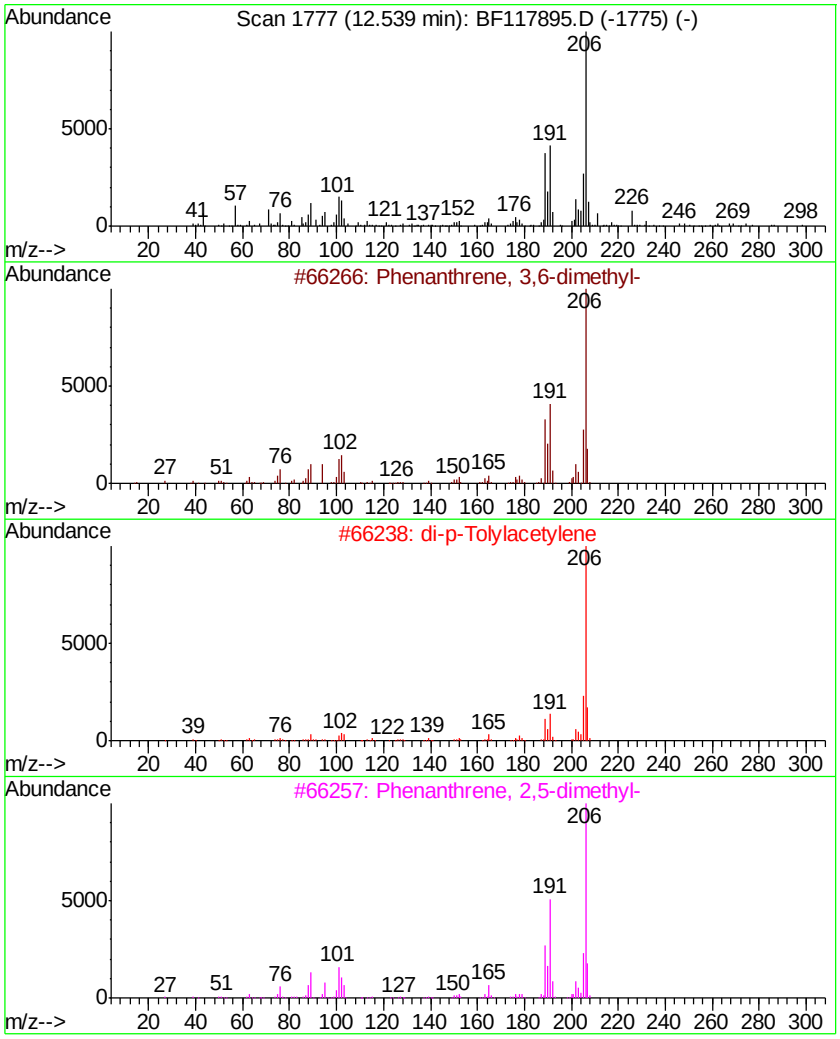
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

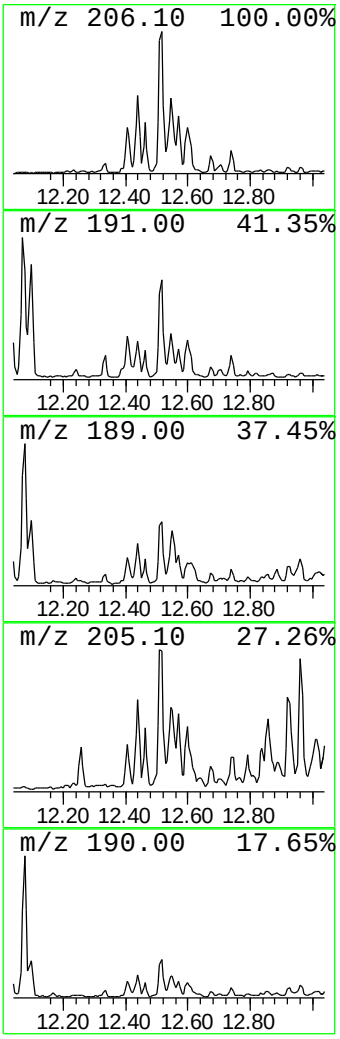
****

Peak Number 14 Phenanthrene, 3,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	6.60 ng	476339	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

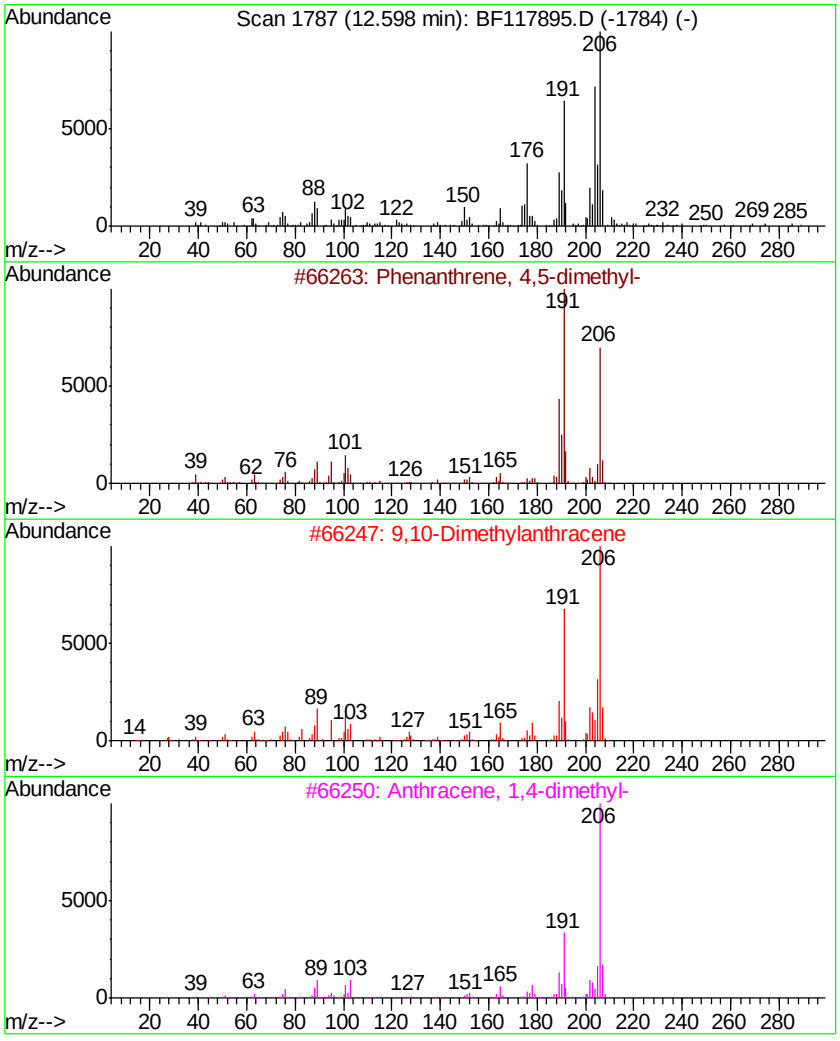
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

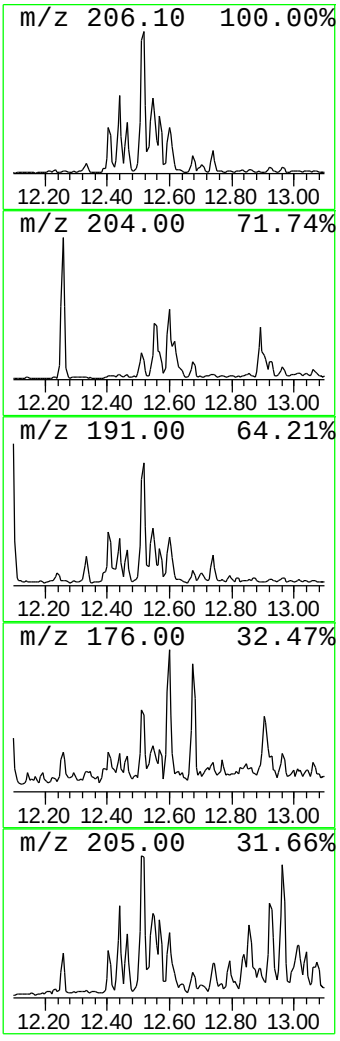
****

Peak Number 15 Phenanthrene, 4,5-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	4.05 ng	292760	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	78
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	70
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	64
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	64
5	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	64





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

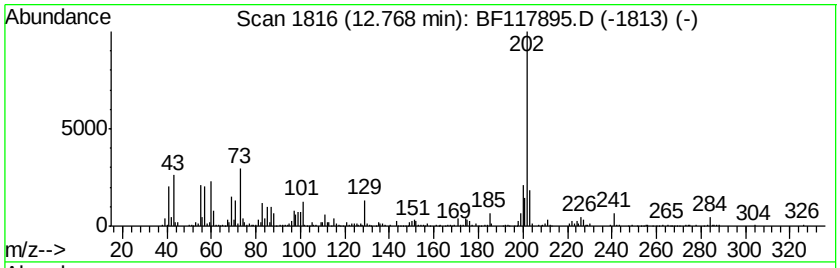
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

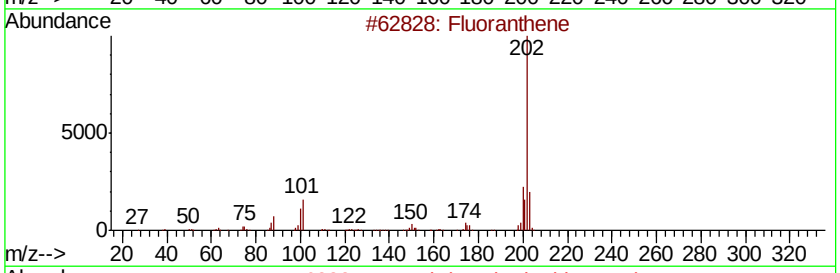
****

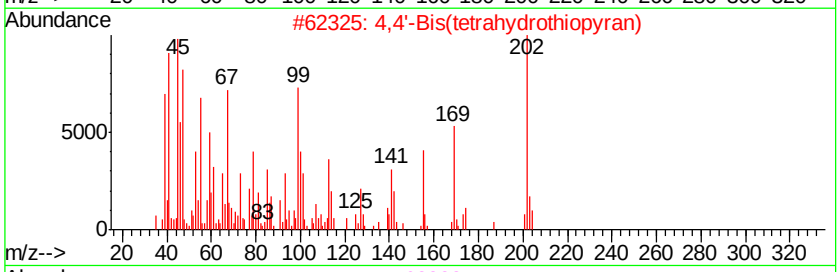
Peak Number 16 4,4'-Bis(tetrahydrothiopyran) Concentration Rank 14

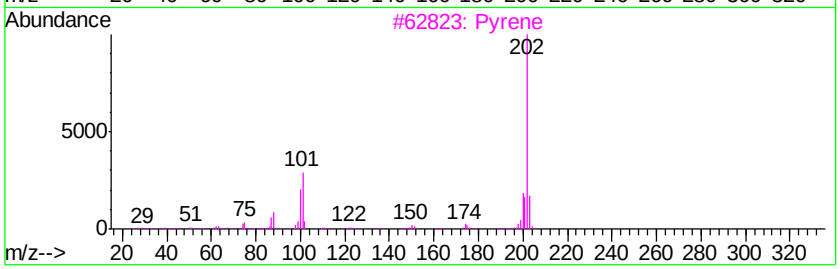
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.77	4.40 ng	318115	Phenanthrene-d10	11.46

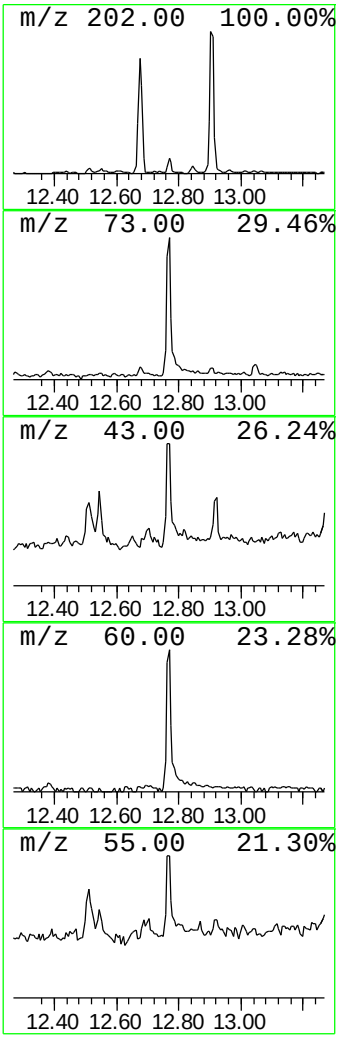
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	87
2	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	86
3	Pyrene	202	C16H10	000129-00-0	55
4	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	55
5	1H-Indole-3-propanoic acid, 1-(t...	275	C15H21NO2Si	056196-72-6	50











Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

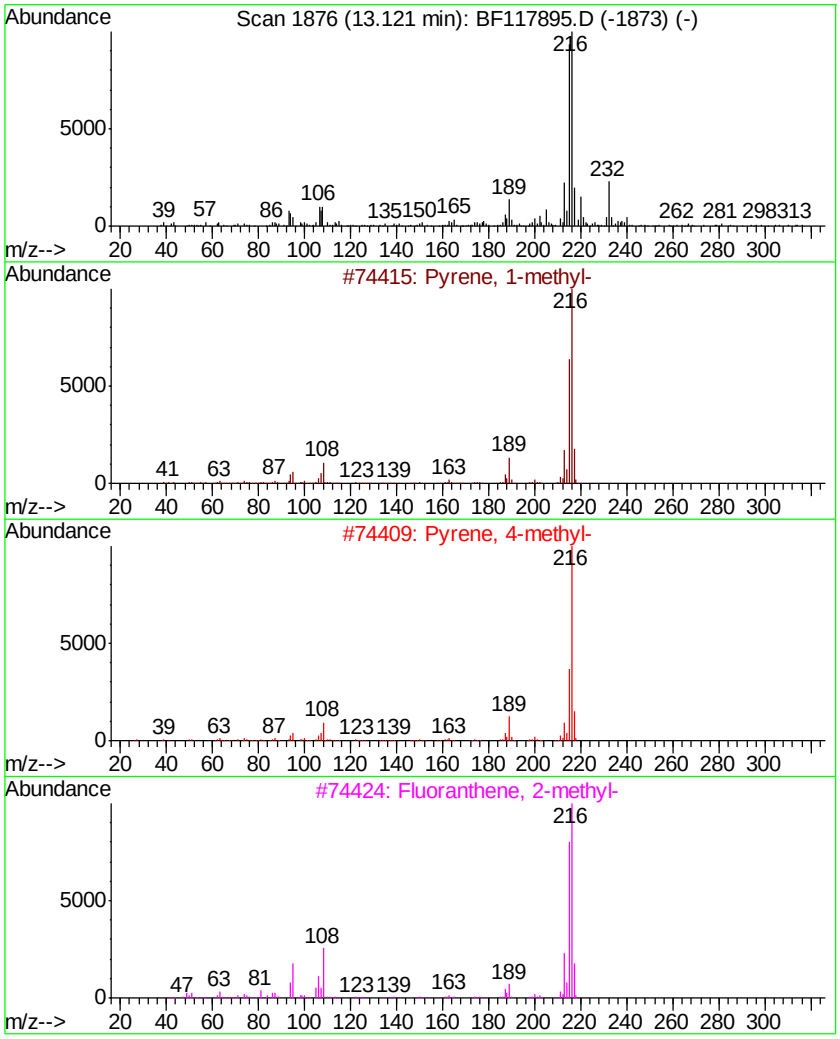
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

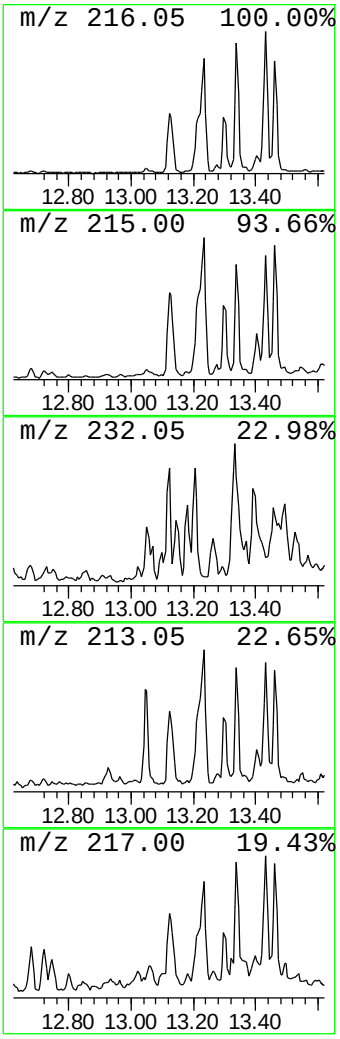
****

Peak Number 17 Pyrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	4.80 ng	416919	Chrysene-d12	14.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	89
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

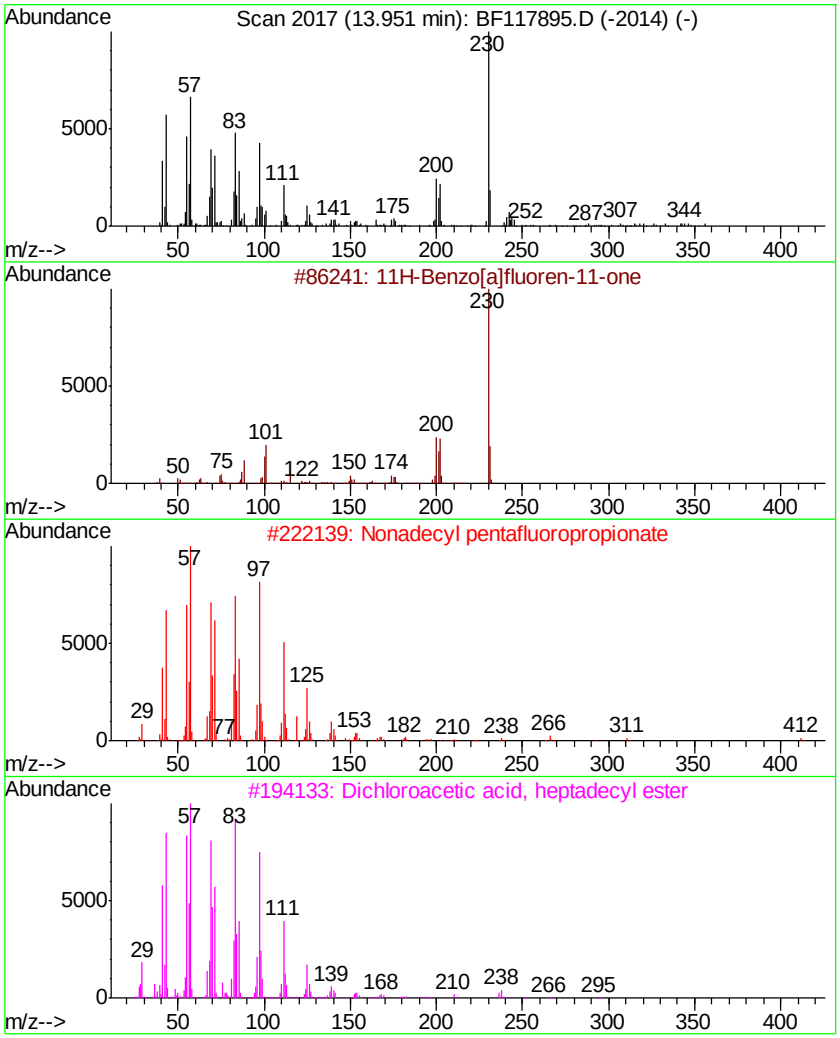
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

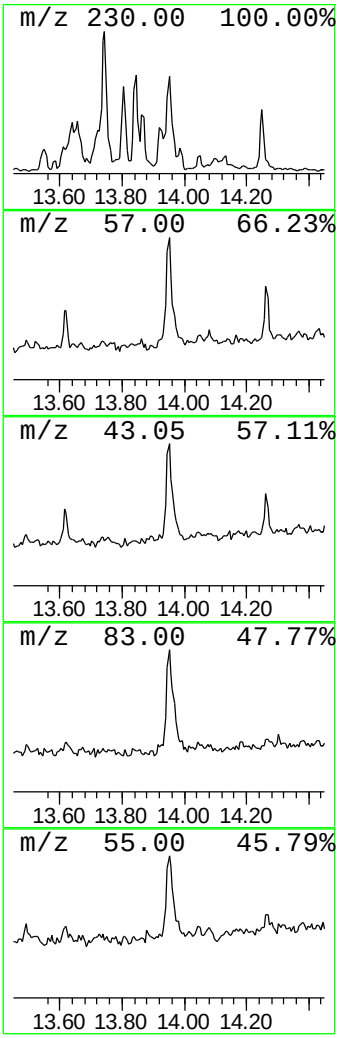
****

Peak Number 18 11H-Benzo[a]fluoren-11-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	3.67 ng	318496	Chrysene-d12	14.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	90
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	46
3	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	42
4	Acetic acid, chloro-, octadecyl ...	346	C20H39ClO2	005348-82-3	42
5	Carbonic acid, isobutyl octadecy...	370	C23H46O3	1000314-61-5	41





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

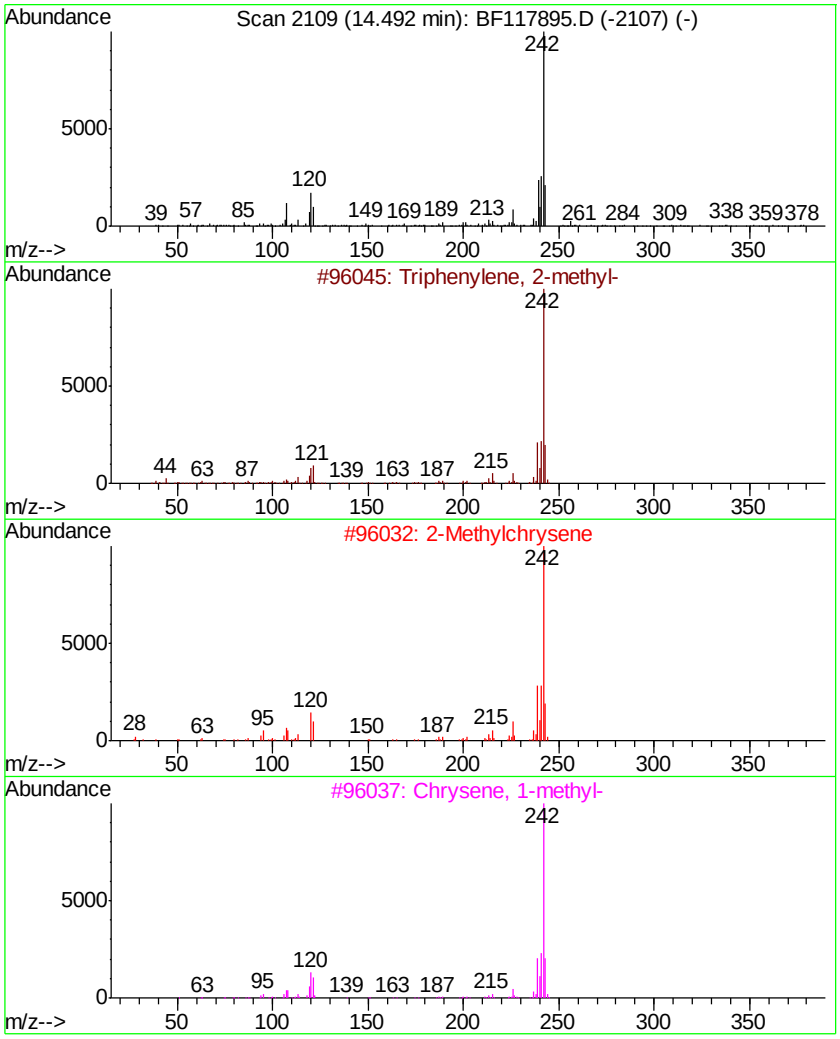
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

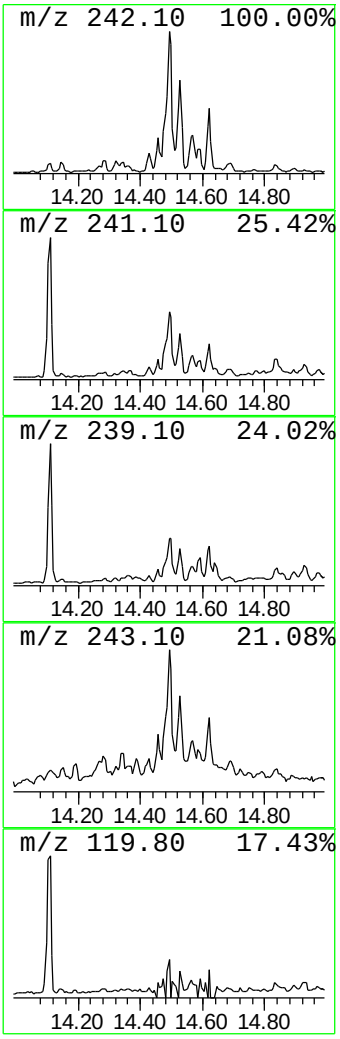
****

Peak Number 19 Triphenylene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.49	3.78 ng	328394	Chrysene-d12	14.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	94
2	2-Methylchrysene	242	C19H14	003351-32-4	93
3	Chrysene, 1-methyl-	242	C19H14	003351-28-8	93
4	Benzo[c]phenanthrene, 5-methyl-	242	C19H14	000652-04-0	90
5	Chrysene, 5-methyl-	242	C19H14	003697-24-3	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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

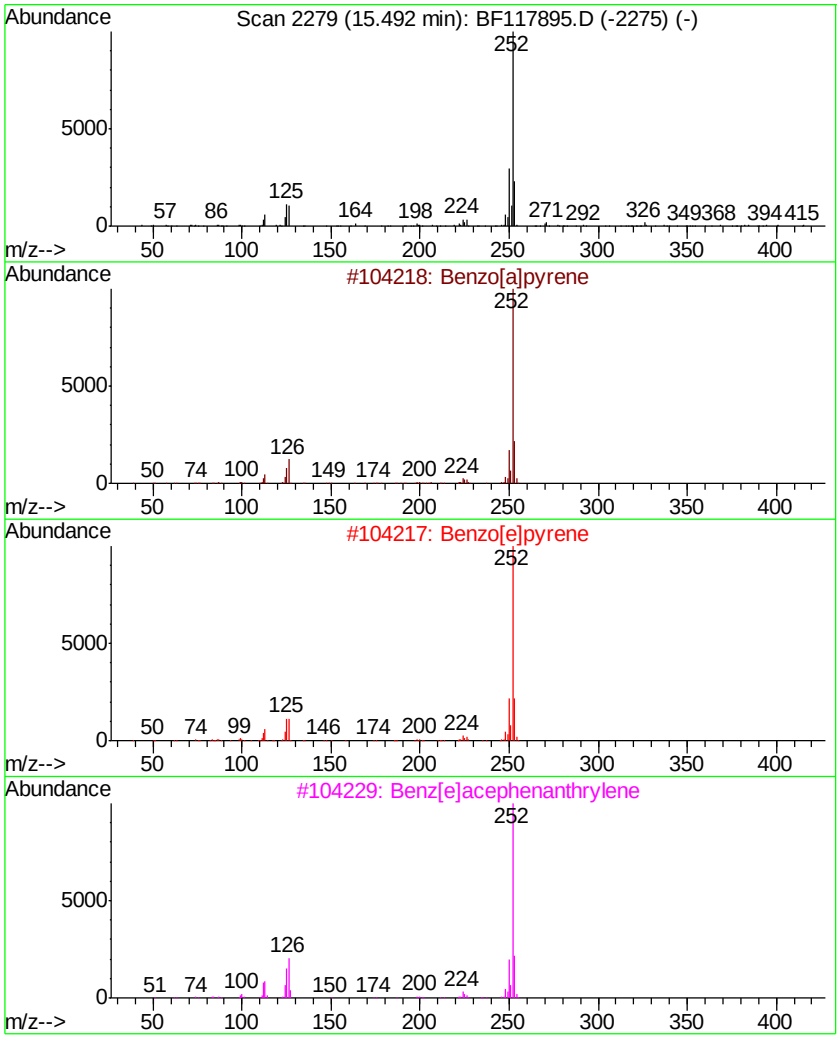
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

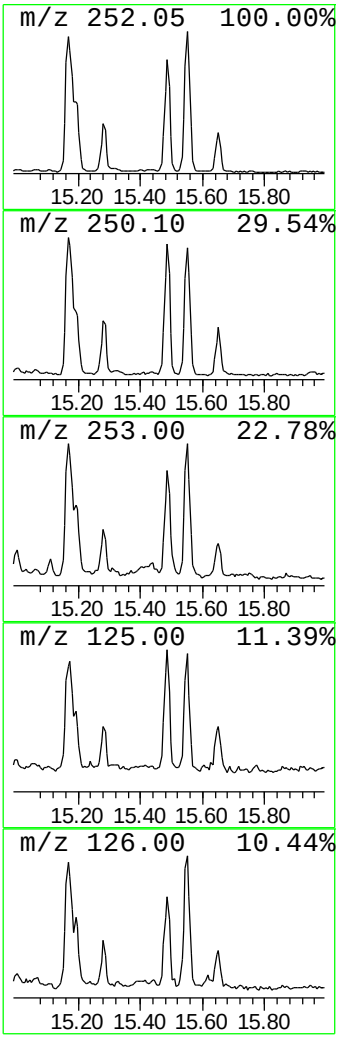
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.49	6.71 ng	404733	Perylene-d12	15.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	96
2	Benzo[e]pyrene	252	C20H12	000192-97-2	94
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	89





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF112019\
Data File : BF117895.D
Acq On : 20 Nov 2019 16:12
Operator : JU
Sample : K5916-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 600429836

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...	2.17	11.1	ng	580681	1	6.92	1051020	20.0
2-Pentanone, 4-hy...	5.12	10.8	ng	567677	1	6.92	1051020	20.0
unknown6.68	6.68	64.3	ng	3377990	1	6.92	1051020	20.0
Naphthalene, 2,3-...	9.62	4.7	ng	356873	3	9.96	1520310	20.0
Chamazulene	10.88	3.5	ng	256582	4	11.46	1444360	20.0
Anthracene, 2-met...	11.96	8.6	ng	621575	4	11.46	1444360	20.0
Phenanthrene, 2-m...	11.99	17.1	ng	1237970	4	11.46	1444360	20.0
Phenanthrene, 4-m...	12.07	11.7	ng	844427	4	11.46	1444360	20.0
Phenanthrene, 1-m...	12.10	5.1	ng	367198	4	11.46	1444360	20.0
1,2,4,8-Tetrameth...	12.26	3.4	ng	244632	4	11.46	1444360	20.0
di-p-Tolylacetylene	12.44	3.5	ng	255000	4	11.46	1444360	20.0
Phenanthrene, 2,5...	12.52	9.7	ng	696747	4	11.46	1444360	20.0
Phenanthrene, 3,6...	12.54	6.6	ng	476339	4	11.46	1444360	20.0
Phenanthrene, 4,5...	12.60	4.0	ng	292760	4	11.46	1444360	20.0
4,4'-Bis(tetrahyd...	12.77	4.4	ng	318115	4	11.46	1444360	20.0
Pyrene, 1-methyl-	13.12	4.8	ng	416919	5	14.11	1737730	20.0
11H-Benzo[a]fluor...	13.95	3.7	ng	318496	5	14.11	1737730	20.0
Triphenylene, 2-m...	14.49	3.8	ng	328394	5	14.11	1737730	20.0
Benzo[e]pyrene	15.49	6.7	ng	404733	6	15.62	1206500	20.0