LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA 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	7	15	19	rBV	11062304	17991212	100.00%	6.530%
2	6.510	748	752	759	rBV2	3171291	2920215	16.23%	1.060%
3	6.575	759	763	767	rVV	2432944	2097088	11.66%	0.761%
4	6.657	773	777	781	rBV	3139126	2744424	15.25%	0.996%
5	6.892	814	817	821	rVV	3403458	2619134	14.56%	0.951%
6	7.257	875	879	883	rBV	3569840	3192054	17.74%	1.158%
7	7.445	907	911	915	rBV	2767106	2435793	13.54%	0.884%
8	7.775	963	967	970	rBV	2611408	1965972	10.93%	0.714%
9	8.016	1004	1008	1011	rBV	4250163	3290379	18.29%	1.194%
10	8.175	1032	1035	1038	rBV	3892222	3619508	20.12%	1.314%
11	8.234	1041	1045	1059	rVB	2429157	2238453	12.44%	0.812%
12	9.634	1279	1283	1285	rVV	5220900	4289466	23.84%	1.557%
13	9.657	1285	1287	1290	rVB	1992451	1473842	8.19%	0.535%
14	9.792	1306	1310	1313	rBV	6349812	5346924	29.72%	1.941%
15	9.945	1332	1336	1339	rVV	5044314	4098262	22.78%	1.487%
16	9.981	1339	1342	1345	rVV	2239398	1938773	10.78%	0.704%
17	10.033	1347	1351	1360	rVV	1539455	1568869	8.72%	0.569%
18	10.151	1367	1371	1375	rVV2	779680	750424	4.17%	0.272%
19	10.469	1421	1425	1428	rBV	7366879	5995906	33.33%	2.176%
20	10.498	1428	1430	1432	rVV	1007682	721747	4.01%	0.262%
21	10.528	1432	1435	1437	rVV	800067	637546	3.54%	0.231%
22	11.339	1571	1573	1577	rVB	507129	437161	2.43%	0.159%
23	11.451	1588	1592	1594	rBV	4301917	4319751	24.01%	1.568%
24	11.475	1594	1596	1599	rVV	8727783	7232295	40.20%	2.625%
25	11.510	1599	1602	1604	rVV	6283273	6037333	33.56%	2.191%
26	11.528	1604	1605	1607	rVV	1724052	782921	4.35%	0.284%
27	11.675	1625	1630	1634	rBV2	1248718	1380019	7.67%	0.501%
28	11.957	1672	1678	1680	rBV	1116125	968601	5.38%	0.352%
29	11.986	1680	1683	1685	rVV	1773926	2157542	11.99%	0.783%
30	12.004	1685	1686	1689	rVV	1847776	919056	5.11%	0.334%
31	12.075	1694	1698	1700	rVV	1647938	1651079	9.18%	0.599%
32	12.257	1726	1729	1731	rBV	627601	573874	3.19%	0.208%
33	12.280	1731	1733	1738	rVB2	770721	682567	3.79%	0.248%
34	12.410	1750	1755	1758	rBV2	412588	439514	2.44%	0.160%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
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Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

35	12.522	1770	1774	1777	rBV	619880	659070	3.66%	0.239%
36	12.604	1786	1788	1793	rVB3	461479	507182	2.82%	0.184%
37	12.692	1798	1803	1806	rVB	11598648	12022020	66.82%	4.363%
38	12.739	1806	1811	1816	rVB3	254815	475399	2.64%	0.173%
39	12.804	1819	1822	1824	rBV2	722336	739026	4.11%	0.268%
40	12.839	1825	1828	1832	rVB2	491424	632542	3.52%	0.230%
41	12.904	1835	1839	1840	rVV	6631885	7395575	41.11%	2.684%
42	12.927	1840	1843	1846	rVV	10521197	10764931	59.83%	3.907%
43	12.969	1847	1850	1855	rVB2	530015	759418	4.22%	0.276%
44	13.039	1855	1862	1864	rBV	807806	840792	4.67%	0.305%
45	13.075	1864	1868	1874	rVB	848161	1006571	5.59%	0.365%
46	13.145	1874	1880	1882	rBV3	785609	1309804	7.28%	0.475%
47	13.227	1891	1894	1895	rVV2	561201	578682	3.22%	0.210%
48	13.251	1895	1898	1902	rVB	2351426	2457667	13.66%	0.892%
49	13.322	1907	1910	1913	rVV	1903279	1606186	8.93%	0.583%
50	13.357	1913	1916	1919	rVV	2029374	2156347	11.99%	0.783%
51	13.386	1919	1921	1924	rVB	696008	625957	3.48%	0.227%
52	13.451	1929	1932	1935	rBV	1026817	996595	5.54%	0.362%
53	13.486	1935	1938	1941	rBV	1105434	973704	5.41%	0.353%
54	13.669	1966	1969	1970	rVV3	531058	542363	3.01%	0.197%
55	13.692	1970	1973	1975	rVV	671696	715312	3.98%	0.260%
56	13.774	1979	1987	1992	rBV3	1001687	1907109	10.60%	0.692%
57	13.886	2001	2006	2009	rBV2	2266501	3033033	16.86%	1.101%
58	13.916	2009	2011	2013	rVB	962007	686225	3.81%	0.249%
59	13.939	2013	2015	2016	rBV	689758	581455	3.23%	0.211%
60	13.986	2021	2023	2025	rVV	792064	768081	4.27%	0.279%
61	14.016	2025	2028	2032	rVV3	1214404	1635087	9.09%	0.593%
62	14.145	2042	2050	2053	rBV2	8431839	14481724	80.49%	5.256%
63	14.180	2053	2056	2062	rVB	7847118	8431152	46.86%	3.060%
64	14.239	2062	2066	2067	rBV	820435	878346	4.88%	0.319%
65	14.257	2067	2069	2071	rVB	1255995	995904	5.54%	0.361%
66	14.310	2076	2078	2081	rVV2	875072	1225059	6.81%	0.445%
67	14.339	2081	2083	2085	rVV	1145664	1261967	7.01%	0.458%
68	14.374	2086	2089	2093	rVV2	1301292	1821264	10.12%	0.661%
69	14.410	2093	2095	2098	rVB3	441353	426957	2.37%	0.155%
70	14.474	2103	2106	2110	rBV3	567115	998470	5.55%	0.362%
71	14.545	2113	2118	2121	rVB2	2502162	2868513	15.94%	1.041%

LSC Area Percent Report

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Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

72	14.580	2121	2124	2127	rVB2	1490649	1427653	7.94%	0.518%
73	14.645	2132	2135	2137	rBV2	655345	623041	3.46%	0.226%
74	14.674	2137	2140	2142	rBV2	1439404	1665368	9.26%	0.604%
75	14.751	2148	2153	2159	rVB4	718577	1315694	7.31%	0.478%
76	14.810	2160	2163	2169	rBV2	366248	546854	3.04%	0.198%
77	14.874	2169	2174	2176	rBV3	655987	1086102	6.04%	0.394%
78	14.904	2176	2179	2185	rVB5	595401	1119954	6.23%	0.406%
79	14.957	2185	2188	2191	rBV	686619	697139	3.87%	0.253%
80	15.004	2191	2196	2202	rBV4	1128114	2164459	12.03%	0.786%
81	15.074	2204	2208	2211	rBV3	569458	836593	4.65%	0.304%
82	15.257	2231	2239	2248	rBV	6888920	17435423	96.91%	6.328%
83	15.357	2252	2256	2258	rBV	1300361	1594891	8.86%	0.579%
84	15.445	2267	2271	2273	rBV2	319509	476467	2.65%	0.173%
85	15.574	2286	2293	2296	rBV	4135366	7817811	43.45%	2.837%
86	15.604	2296	2298	2301	rVV	2882946	4126102	22.93%	1.497%
87	15.651	2301	2306	2310	rVB	5825149	9344693	51.94%	3.391%
88	15.704	2310	2315	2317	rBV2	2002386	3054483	16.98%	1.109%
89	15.733	2317	2320	2327	rVB2	1769173	2697441	14.99%	0.979%
90	15.804	2327	2332	2338	rVB3	1003236	2186213	12.15%	0.793%
91	15.898	2339	2348	2350	rBV7	423794	1190267	6.62%	0.432%
92	16.045	2370	2373	2376	rBV2	408572	494564	2.75%	0.179%
93	16.086	2377	2380	2387	rVB2	651308	1136840	6.32%	0.413%
94	16.168	2389	2394	2398	rBV3	500646	870875	4.84%	0.316%
95	16.298	2407	2416	2421	rBV3	749353	2324094	12.92%	0.843%
96	17.074	2544	2548	2560	rVB3	526949	1692481	9.41%	0.614%
97	17.292	2576	2585	2592	rVB2	3527907	8825897	49.06%	3.203%
98	17.462	2609	2614	2620	rBV	702409	1765553	9.81%	0.641%
99	17.762	2655	2665	2675	rBV2	2183950	6407221	35.61%	2.325%
100	18.004	2701	2706	2712	rVB2	624300	1327748	7.38%	0.482%

Sum of corrected areas: 275535114

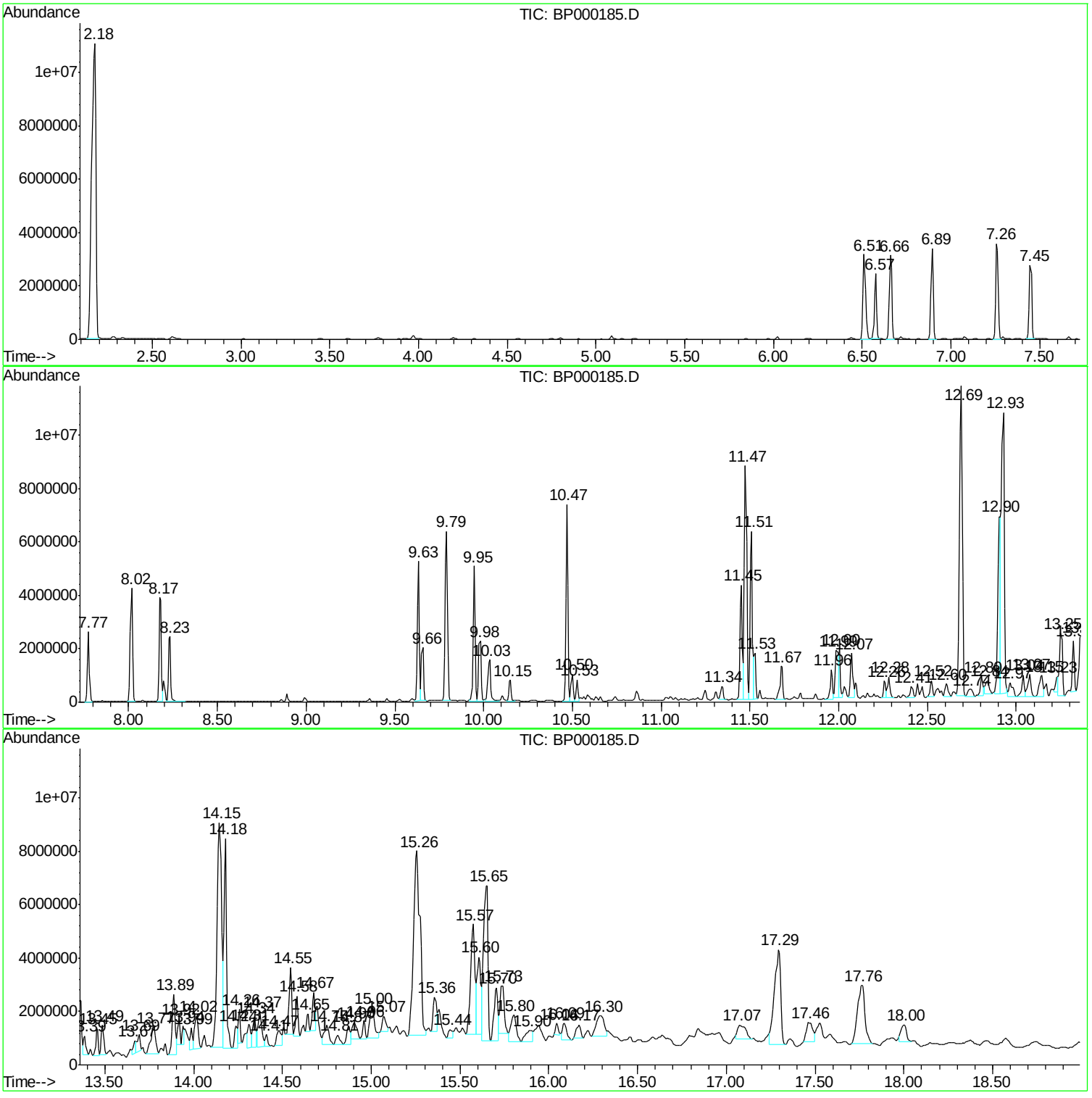
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

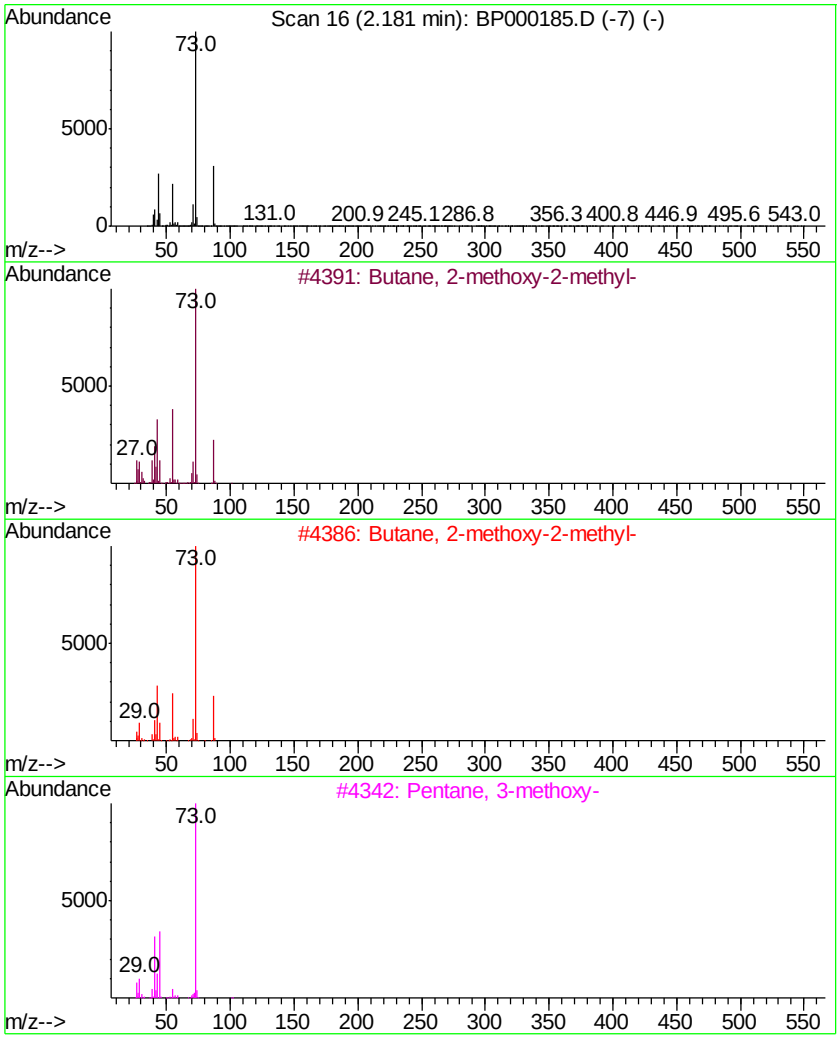
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

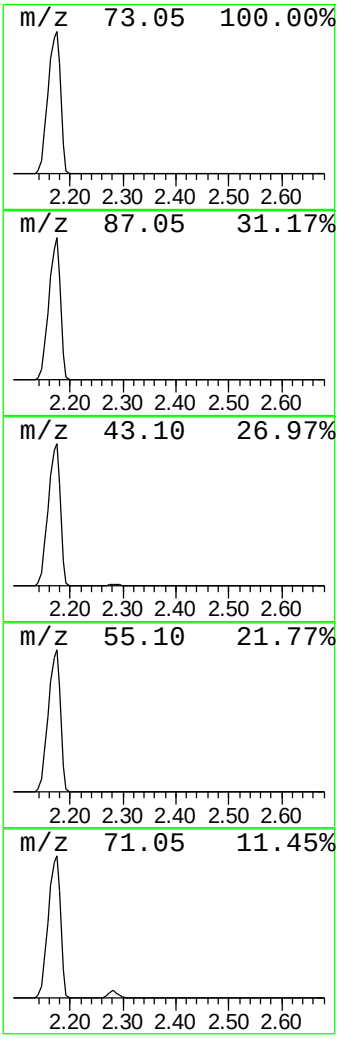
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.18	137.38 ng/ul	17991200	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





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Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

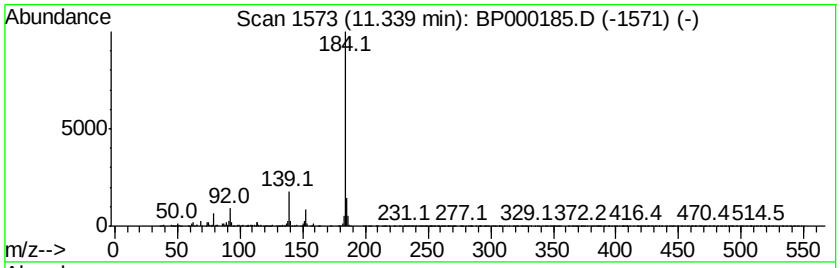
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

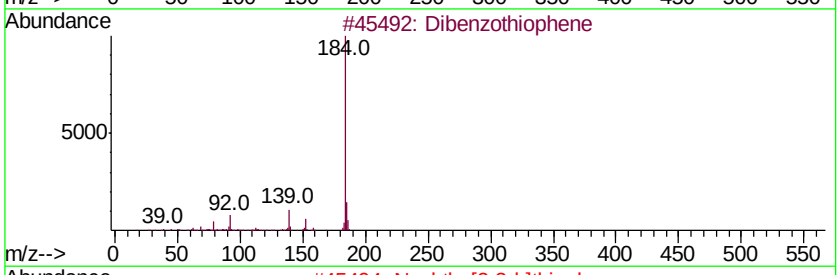
****

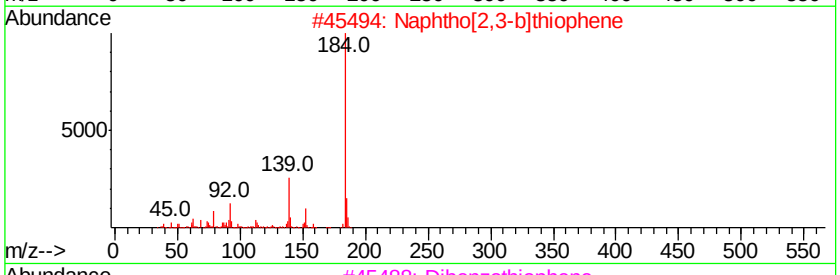
Peak Number 2 Dibenzothiophene Concentration Rank 34

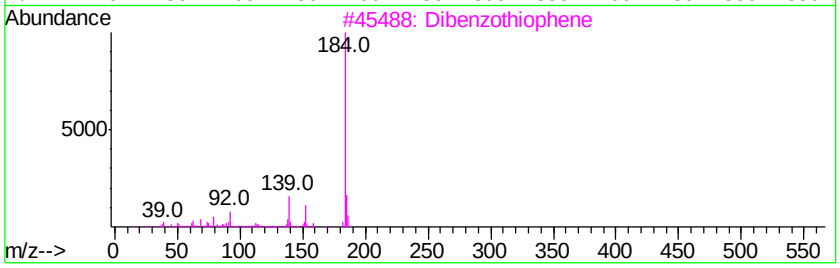
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.34	2.02 ng/ul	437161	Phenanthrene-d10	11.45

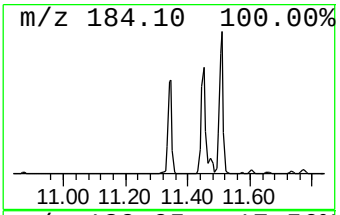
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Dibenzothiophene	184	C12H8S	000132-65-0	93
5	Dibenzothiophene	184	C12H8S	000132-65-0	91

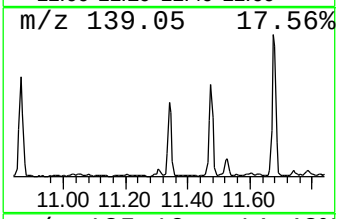


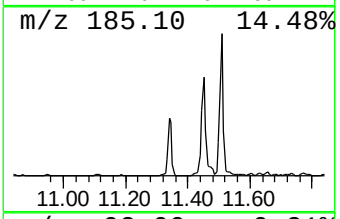


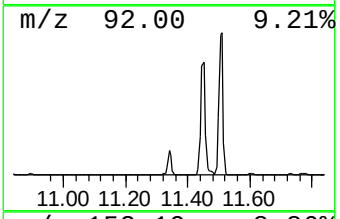


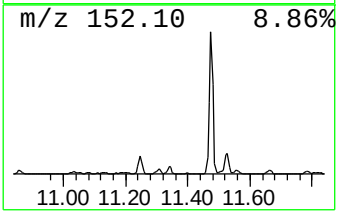












Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

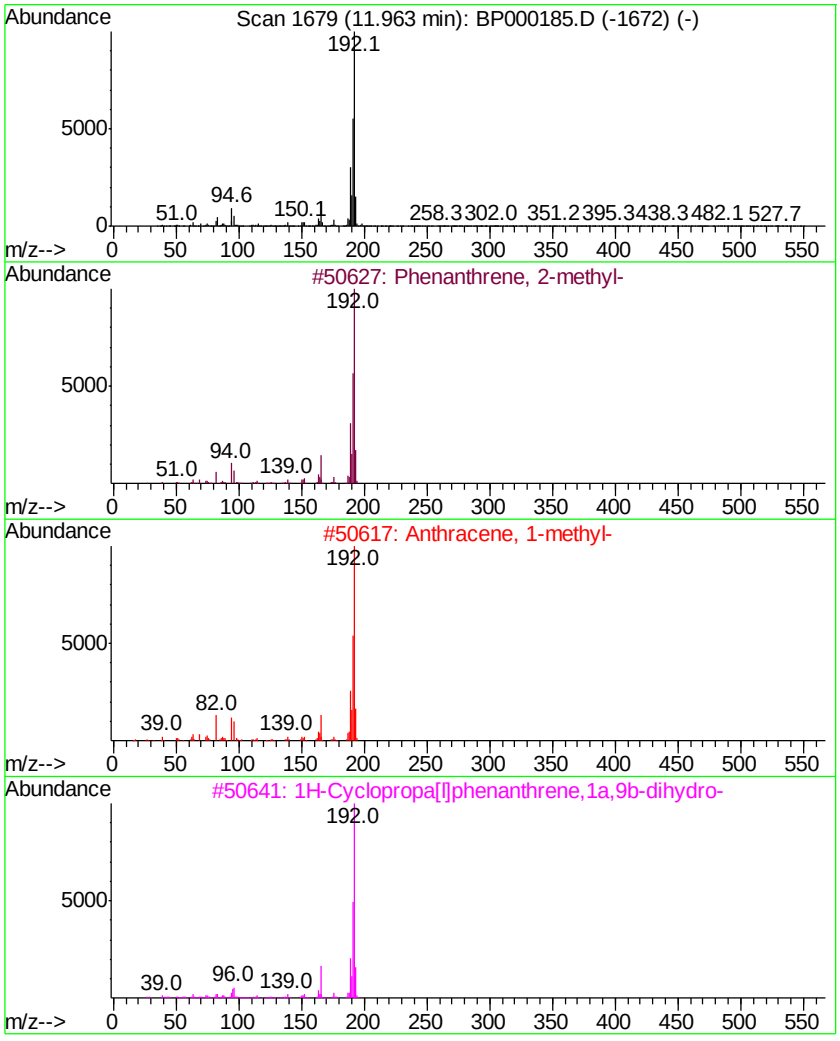
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

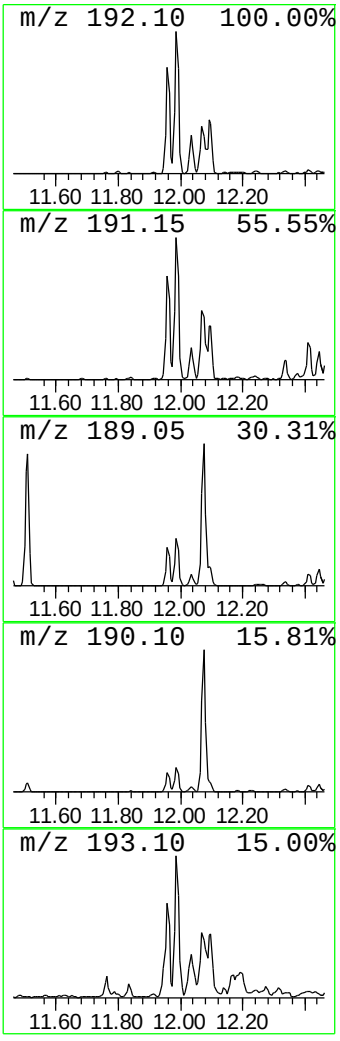
****

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	4.48 ng/ul	968601	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96





Library Search Compound Report

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Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

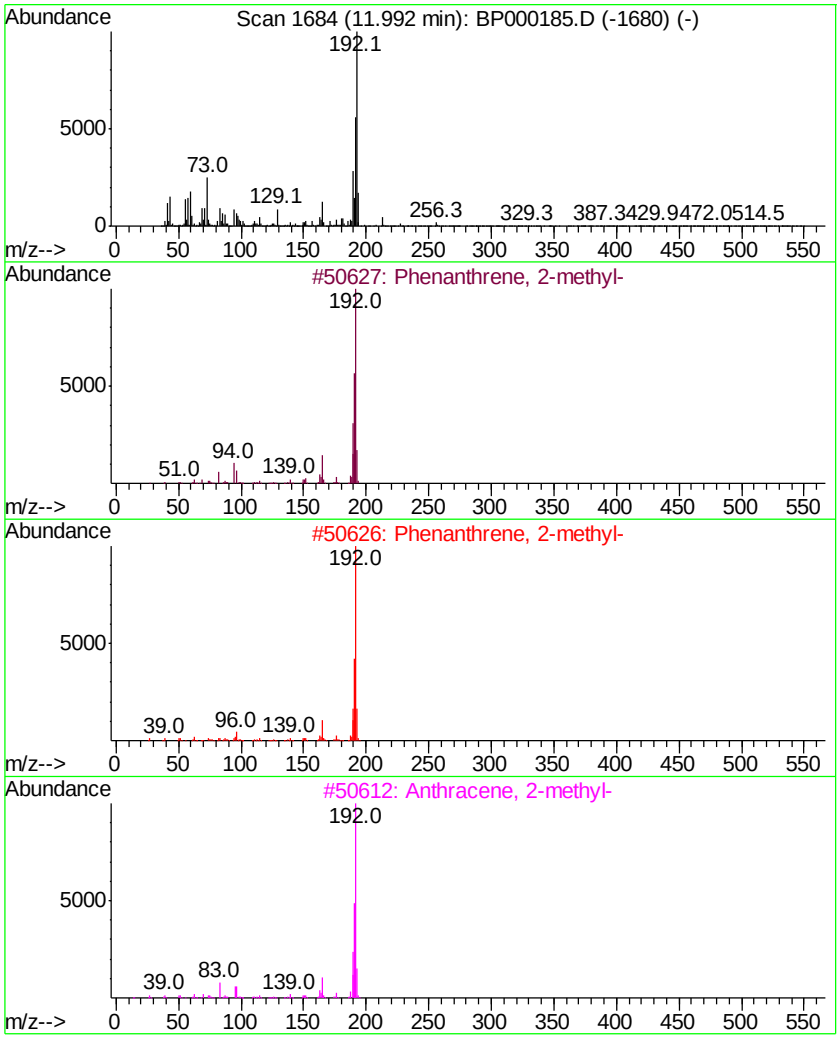
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

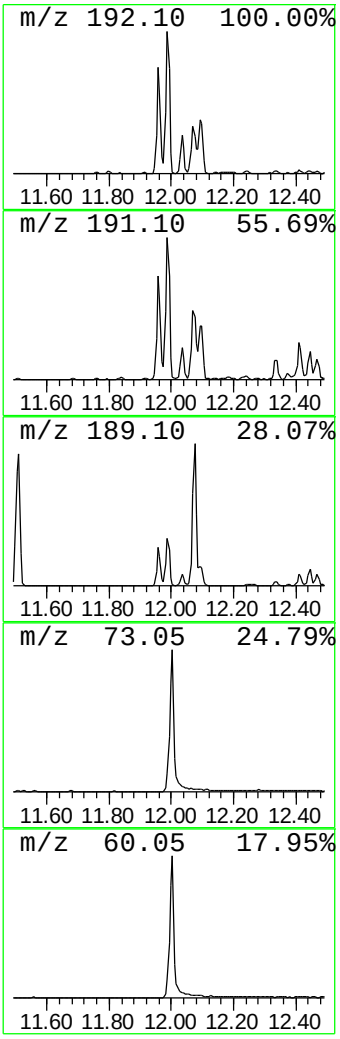
****

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	9.99 ng/ul	2157540	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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Misc :
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Instrument : BNA_P
ClientSampleId : F2D04

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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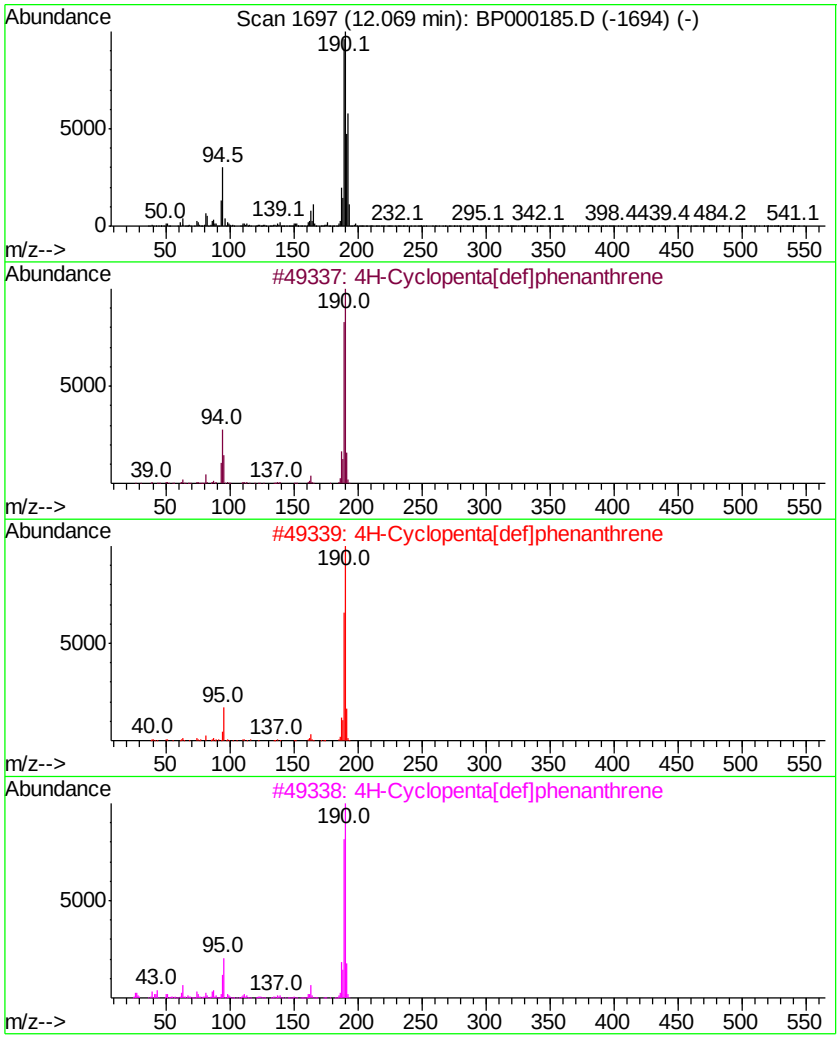
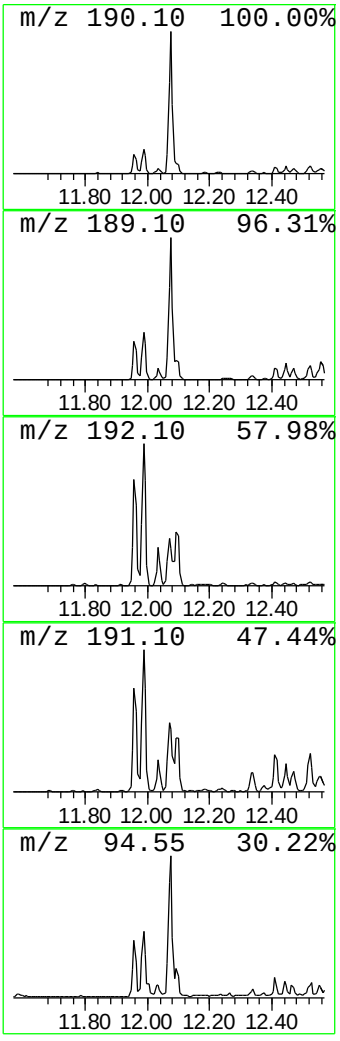
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	7.64 ng/ul	1651080	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
5	Methyl diselenide	190	C2H6Se2	007101-31-7	49





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ClientSampleId : F2D04

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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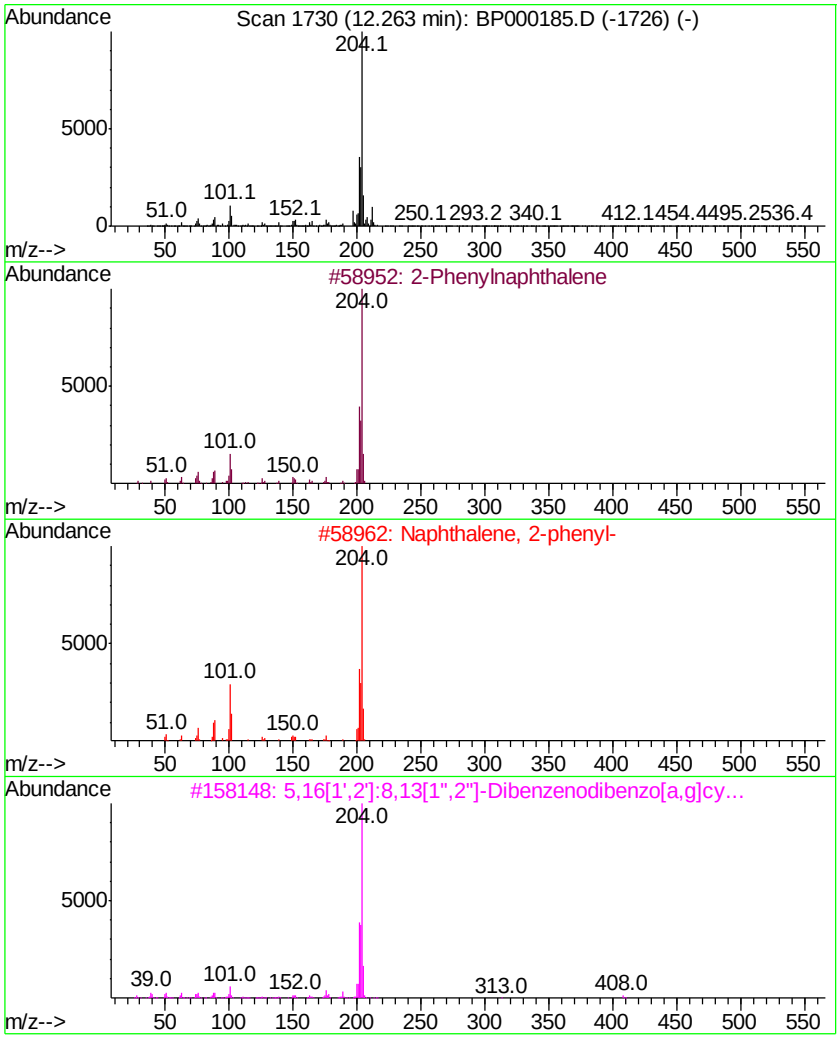
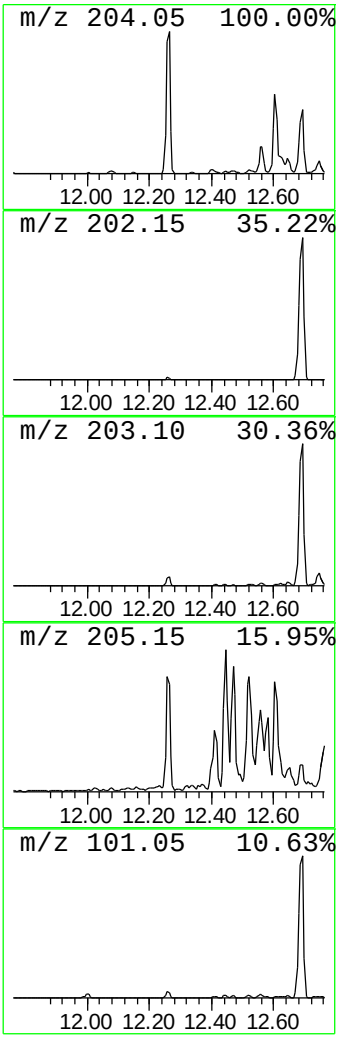
Peak Number 7 2-Phenylnaphthalene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	2.66 ng/ul	573874	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	92
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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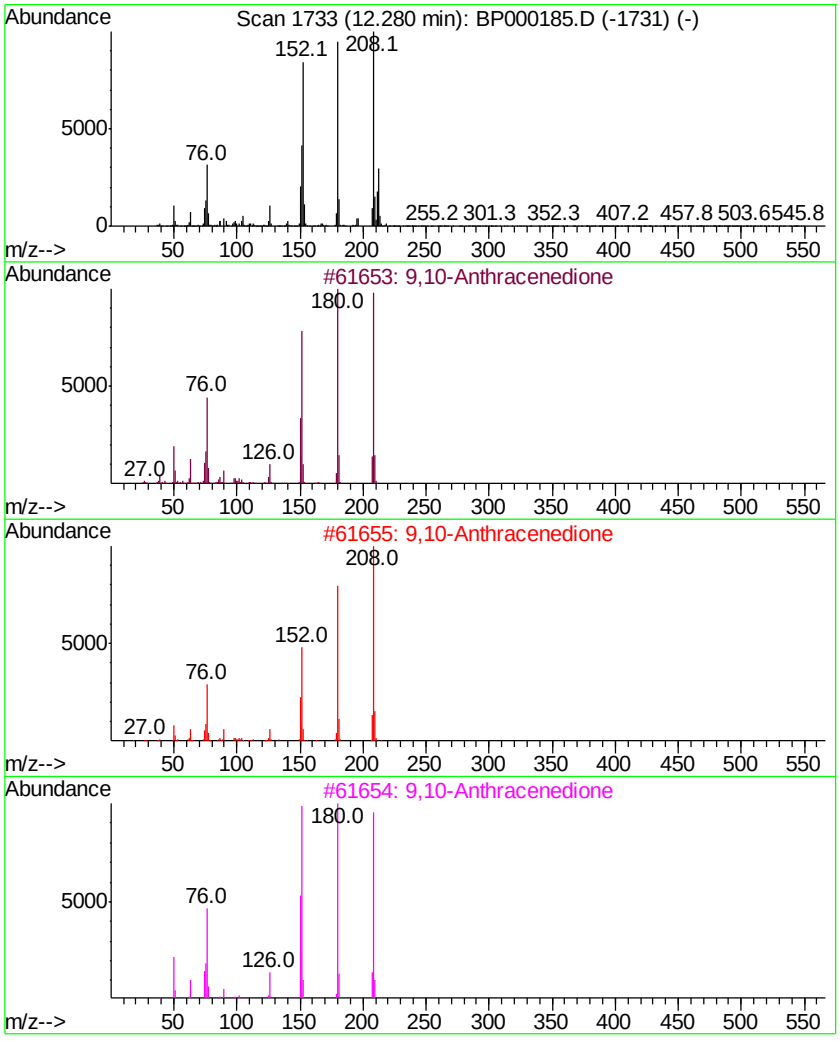
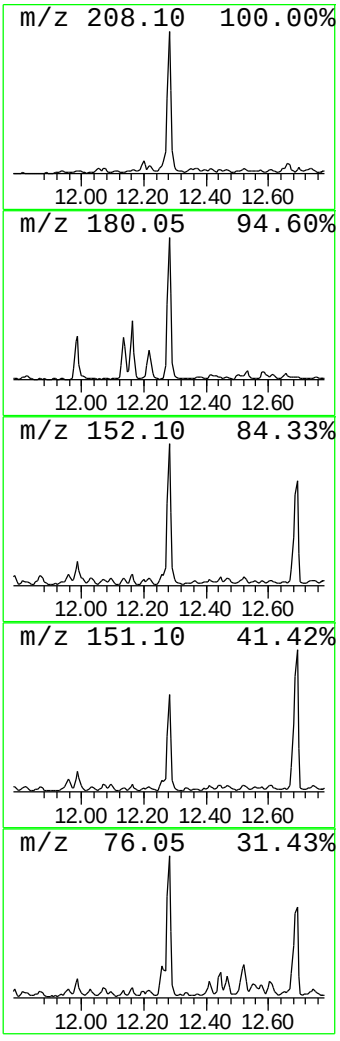
Peak Number 8 9,10-Anthracenedione Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	3.16 ng/ul	682567	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	91
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	91
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	89
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78





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ClientSampleId : F2D04

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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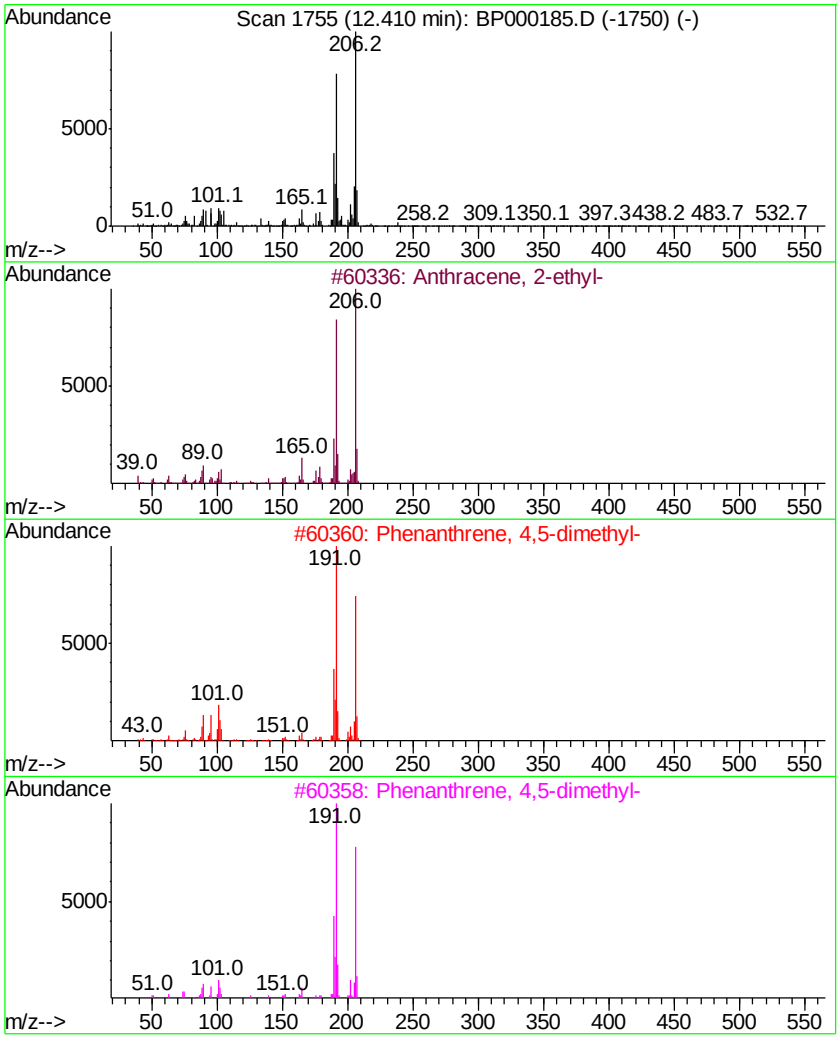
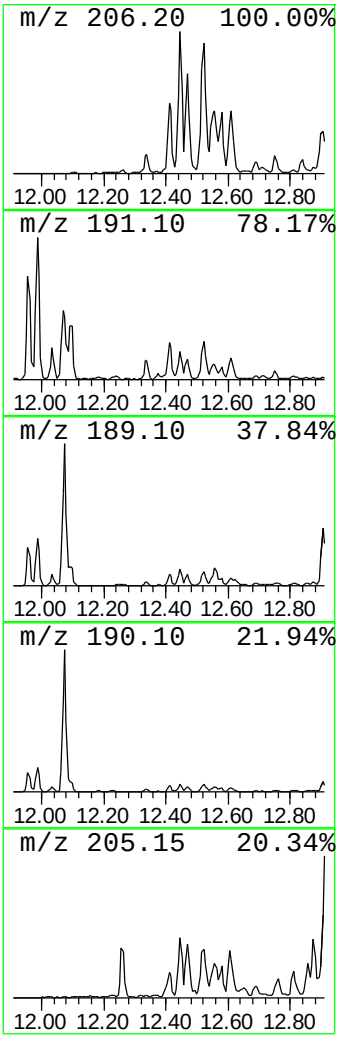
Peak Number 9 Anthracene, 2-ethyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	2.03 ng/ul	439514	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	96
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91





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ClientSampleId : F2D04

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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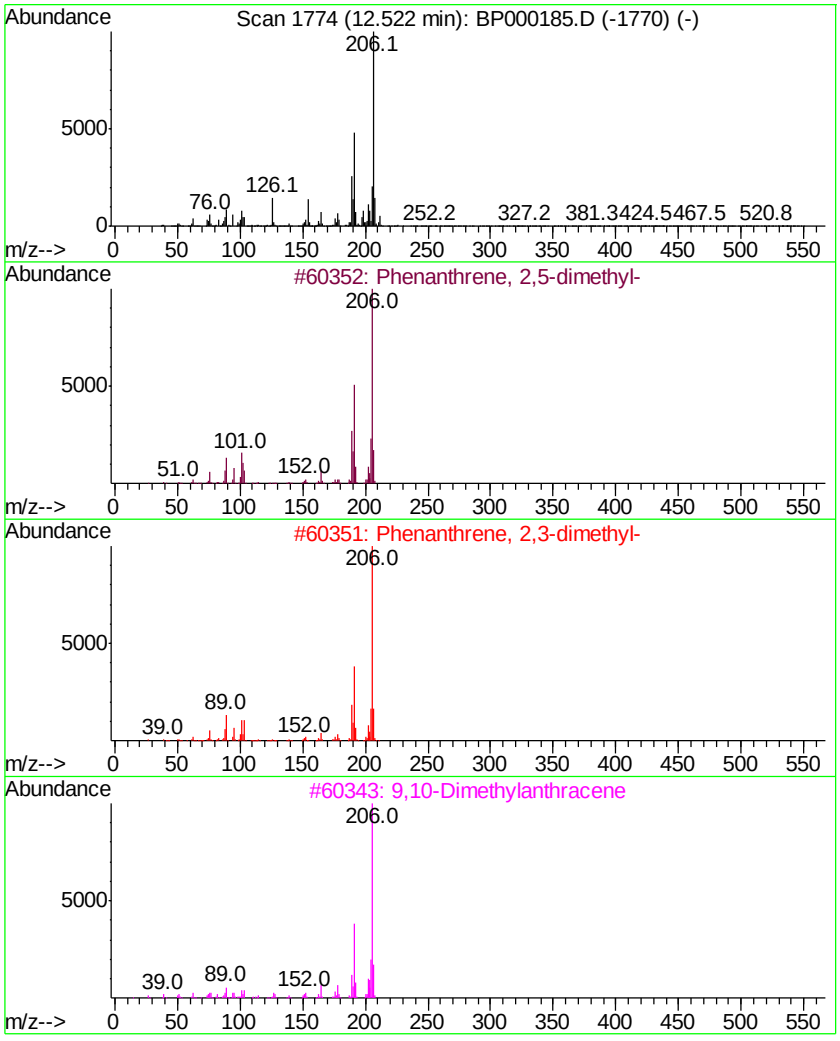
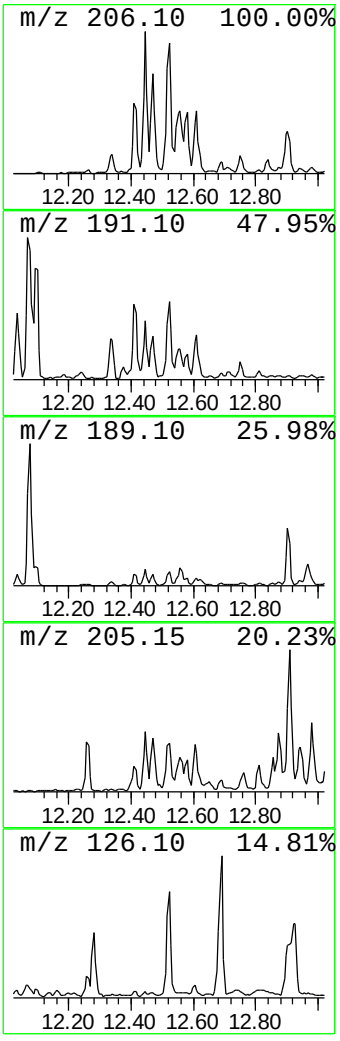
Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	3.05 ng/ul	659070	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	89
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





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ClientSampleId : F2D04

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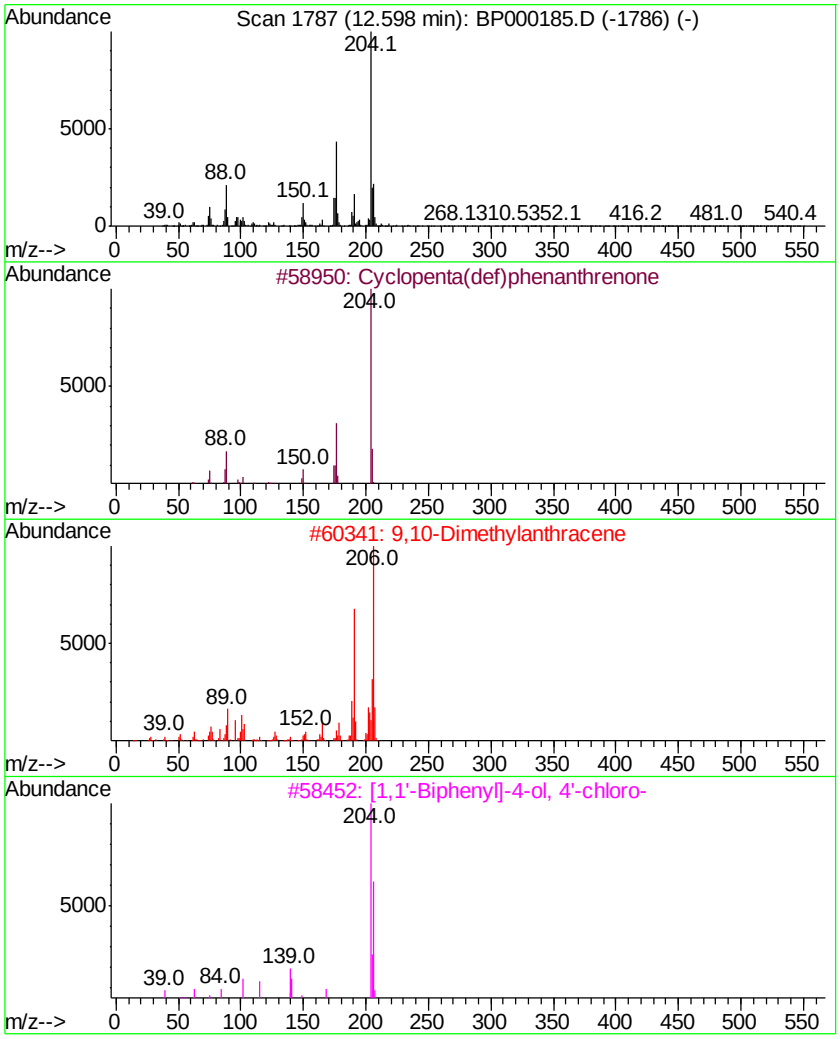
Quant Title : SVOA CALIBRATION

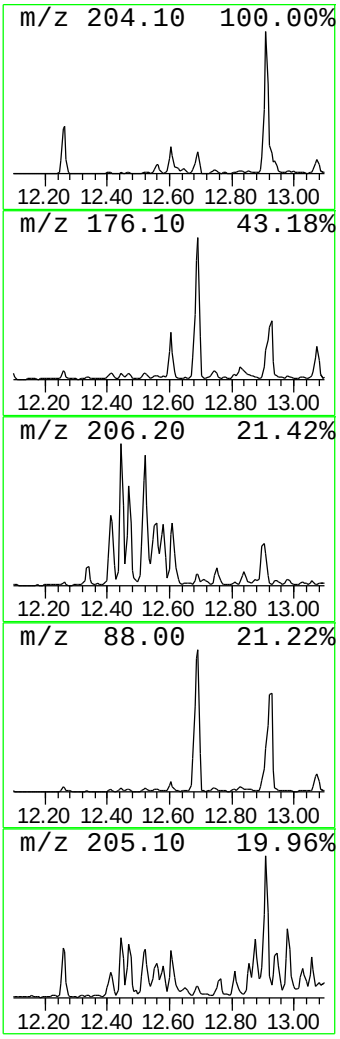
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	2.35 ng/ul	507182	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	49
3	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	49
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	38
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	38





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Operator : HP/JU
Sample : K4633-06
Misc :
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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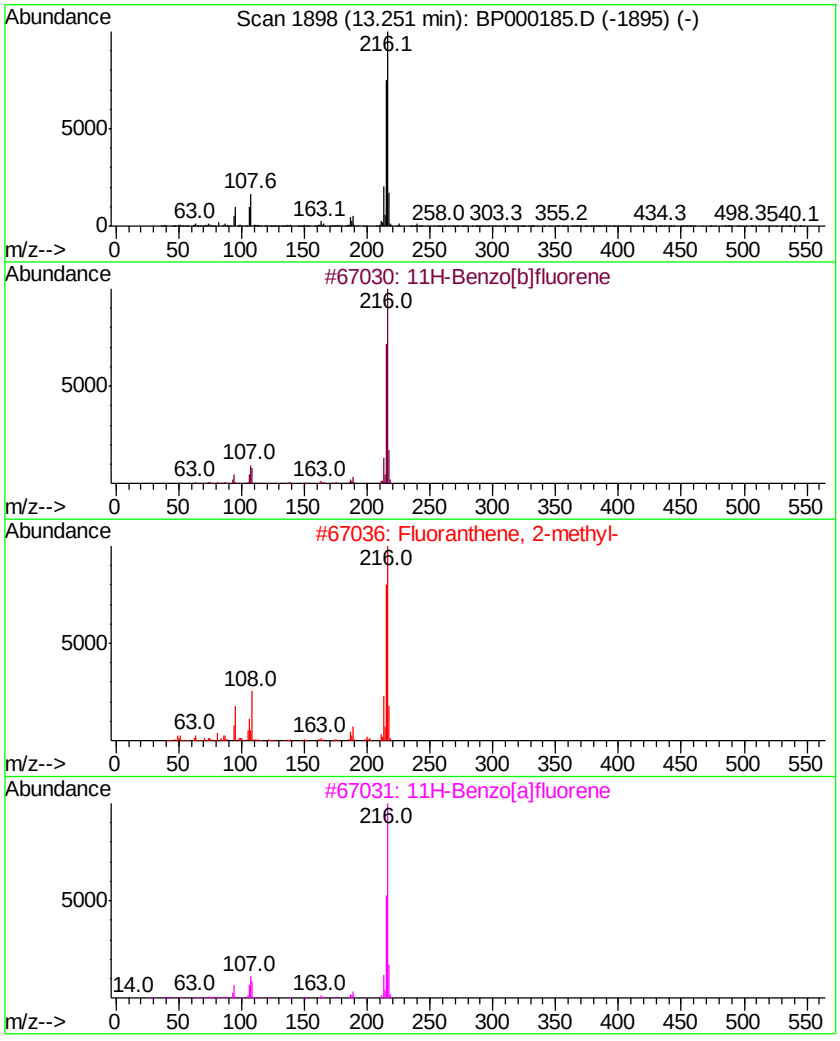
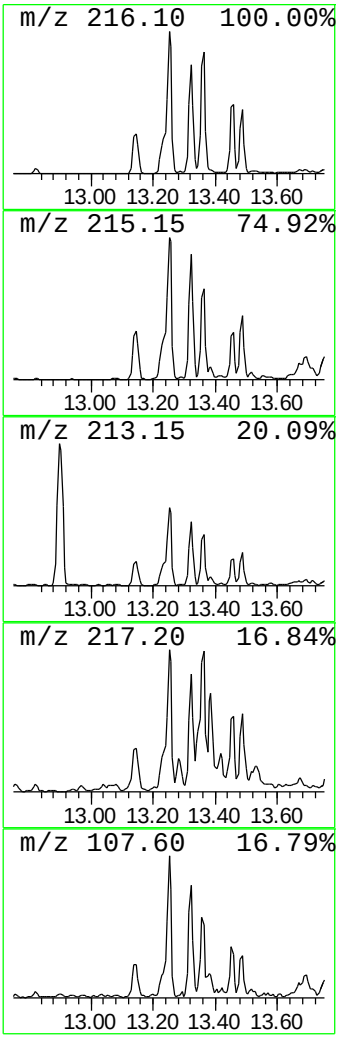
Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.25	3.39 ng/ul	2457670	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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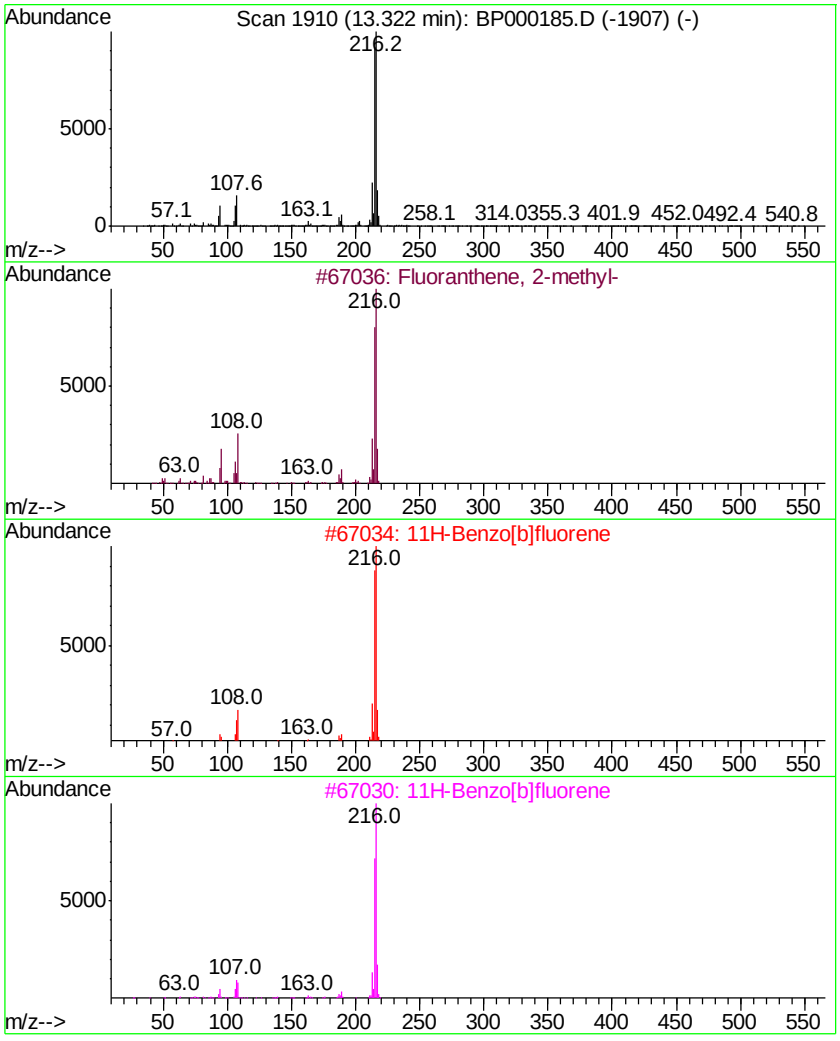
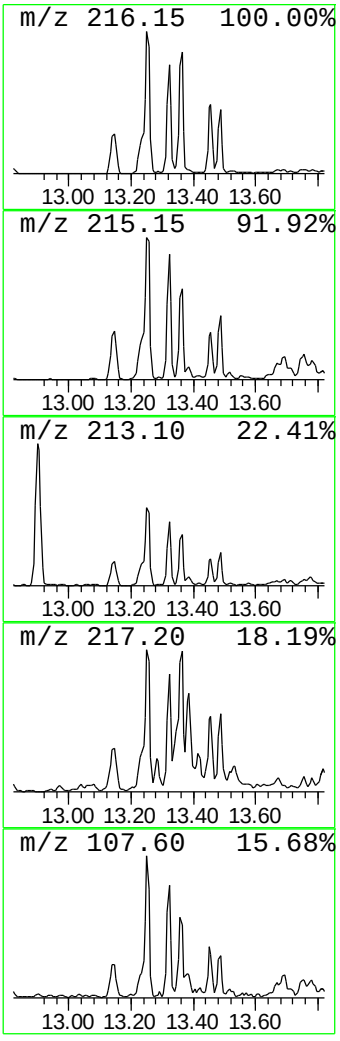
Peak Number 13 Fluoranthene, 2-methyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.32	2.22 ng/ul	1606190	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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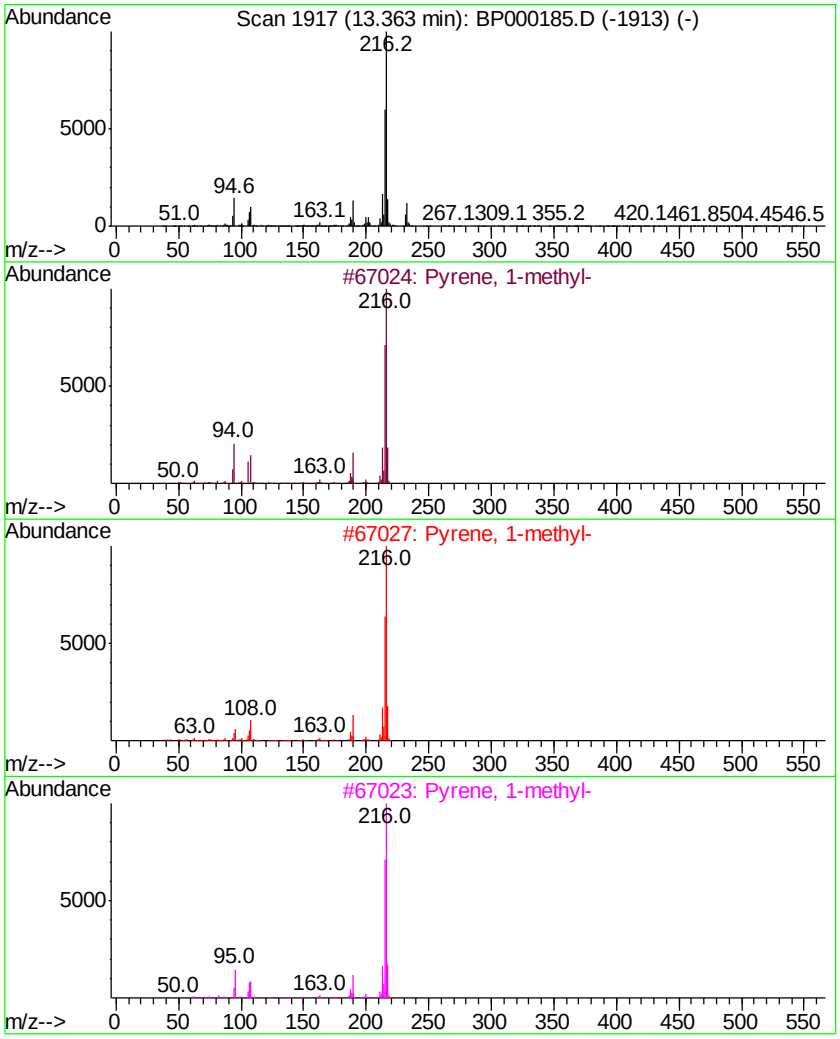
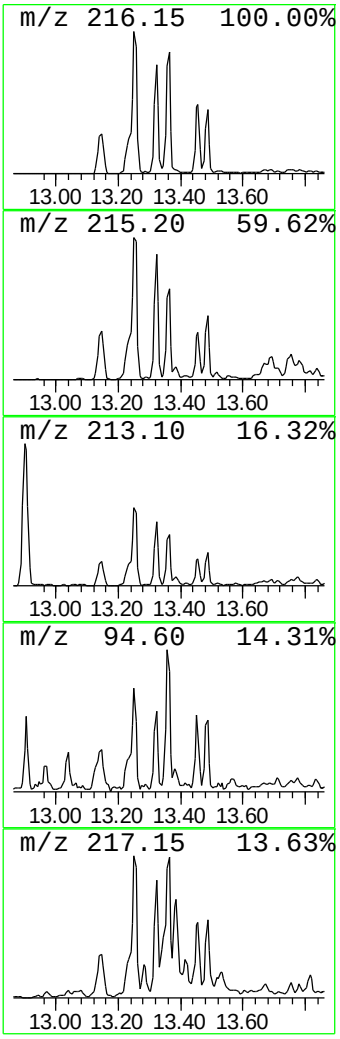
Peak Number 14 Pyrene, 1-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.36	2.98 ng/ul	2156350	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	92
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	92





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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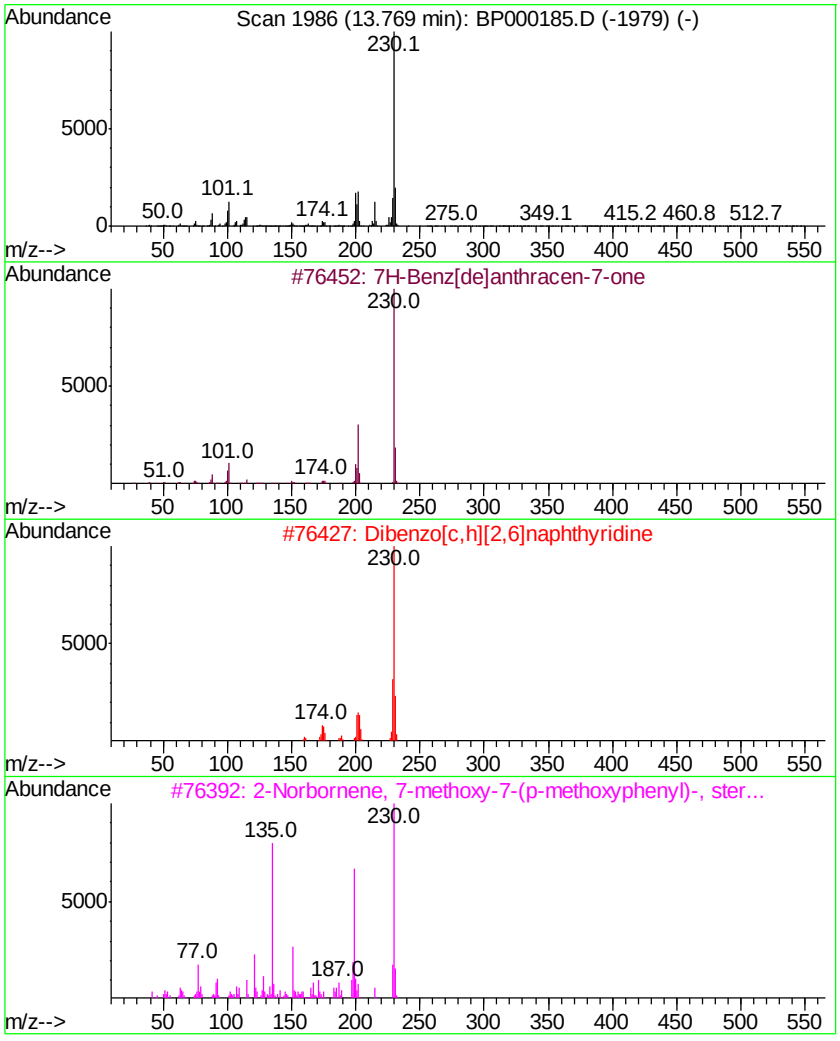
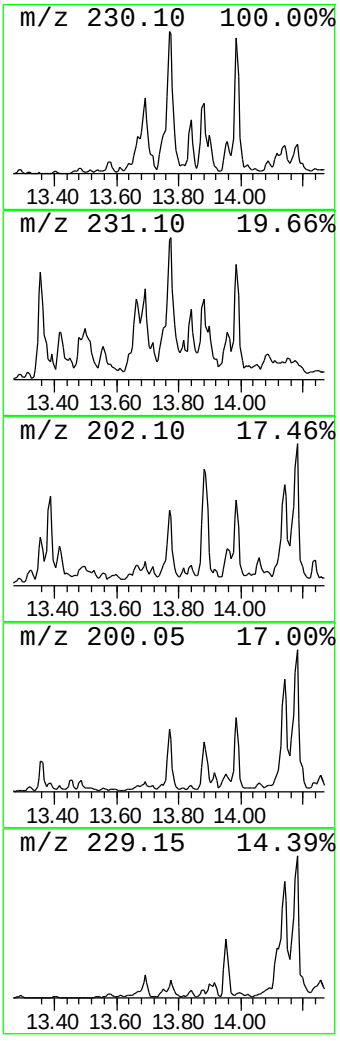
Peak Number 15 7H-Benz[de]anthracen-7-one Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.77	2.63 ng/ul	1907110	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	86
2	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	80
3	2-Norbornene, 7-methoxy-7-(p-met...	230	C15H18O2	027999-78-6	80
4	5,6-Dihydrochrysene	230	C18H14	002091-92-1	68
5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	64





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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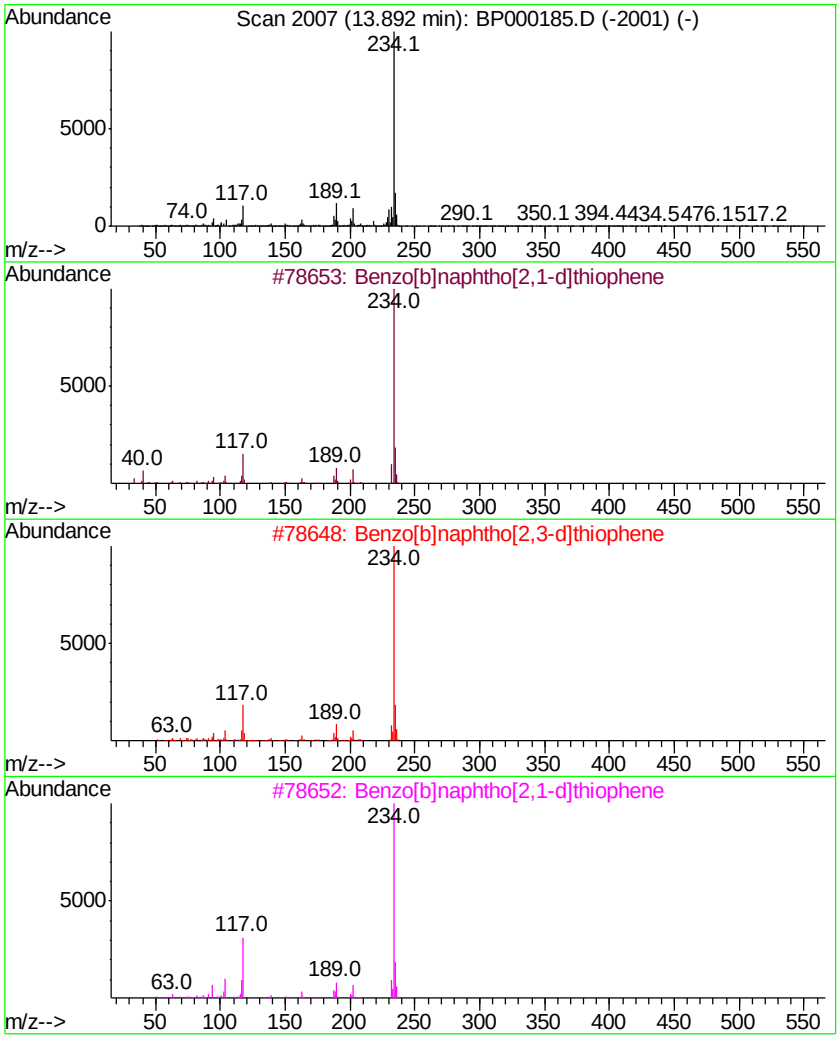
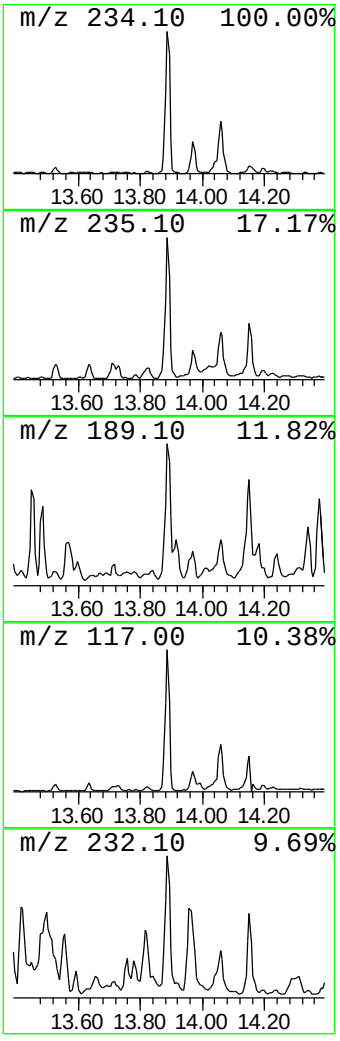
Peak Number 16 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	4.19 ng/ul	3033030	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	91





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Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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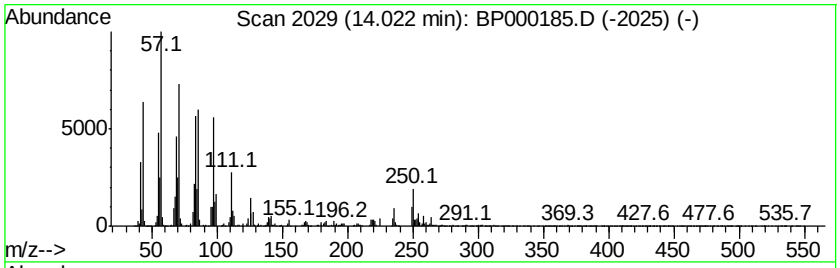
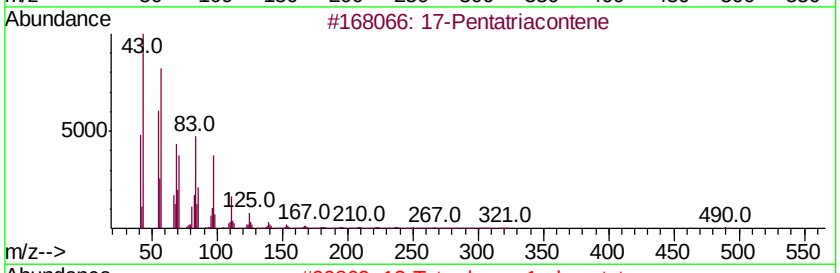
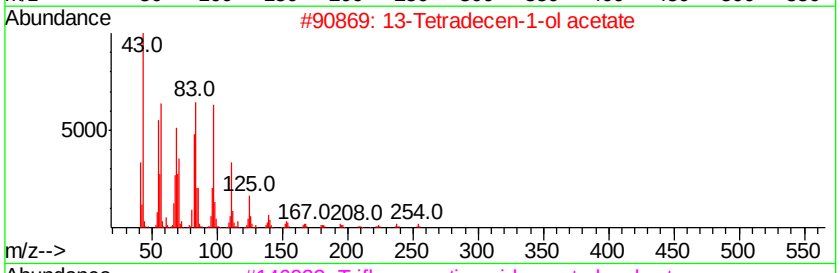
Peak Number 17 (DEL) Alkane: Cyclic14.02 Concentration Rank 31

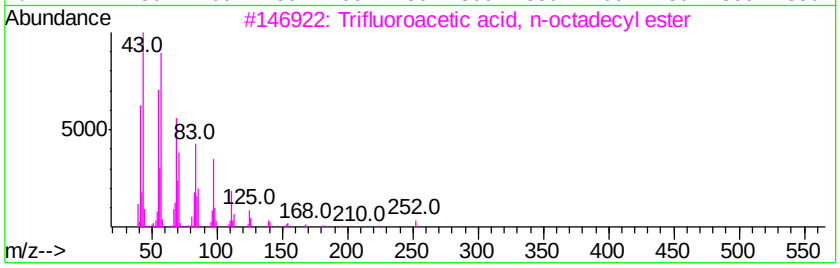
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.02	2.26 ng/ul	1635090	Chrysene-d12	14.15

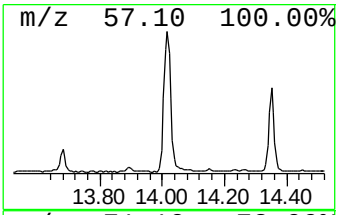
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	17-Pentatriacontene	491	C35H70	006971-40-0	96
2	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	91
3	Trifluoroacetic acid, n-octadecv...	366	C20H37F3O2	079392-43-1	90
4	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	90
5	17-Pentatriacontene	491	C35H70	006971-40-0	87

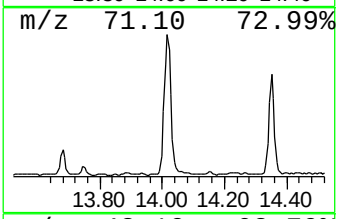


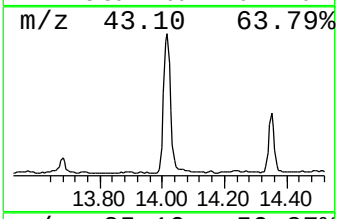


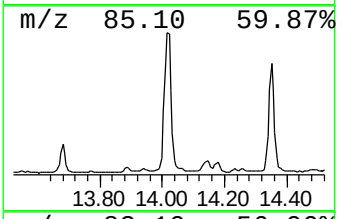


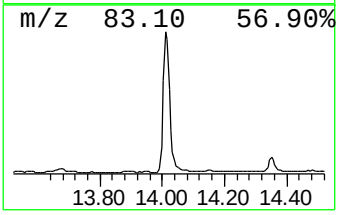












Library Search Compound Report

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Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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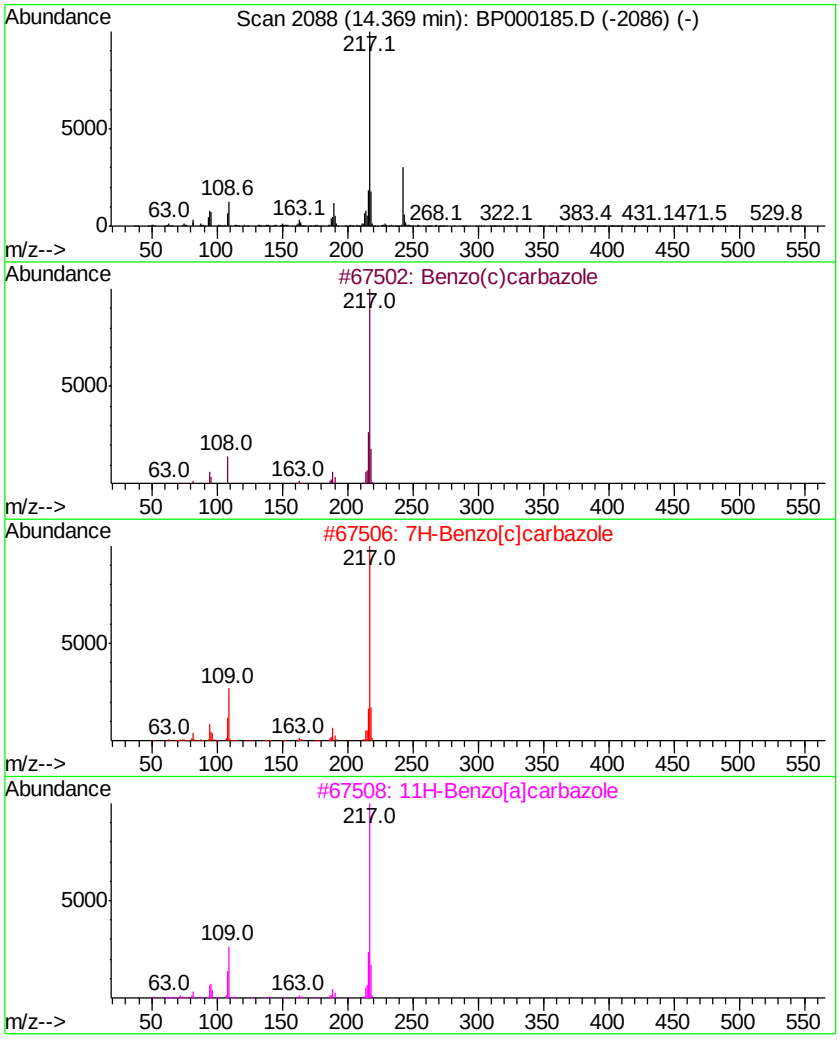
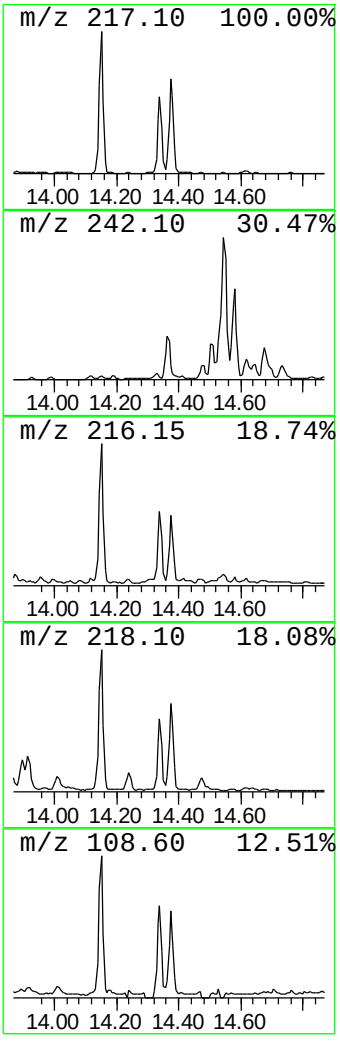
Peak Number 18 Benzo(c)carbazole Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.37	2.52 ng/ul	1821260	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(c)carbazole	217	C16H11N	034777-33-8	96
2	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	94
3	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	90
4	1-Aminopyrene	217	C16H11N	001606-67-3	90
5	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	87





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Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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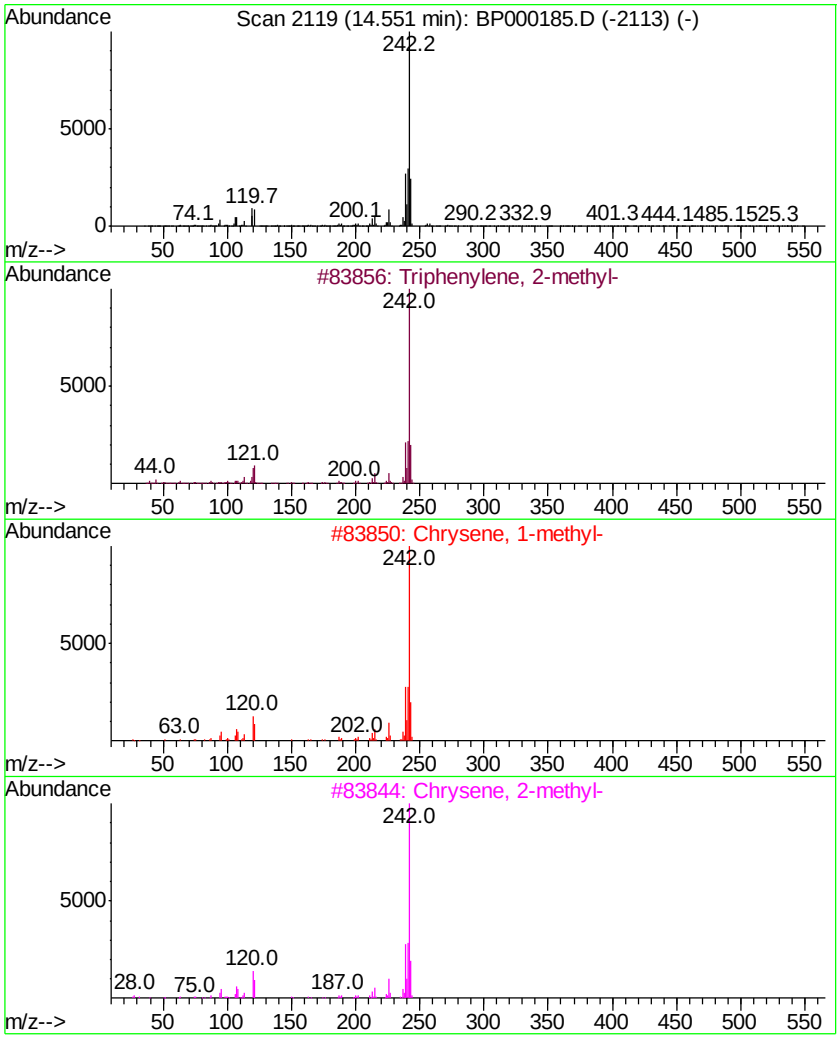
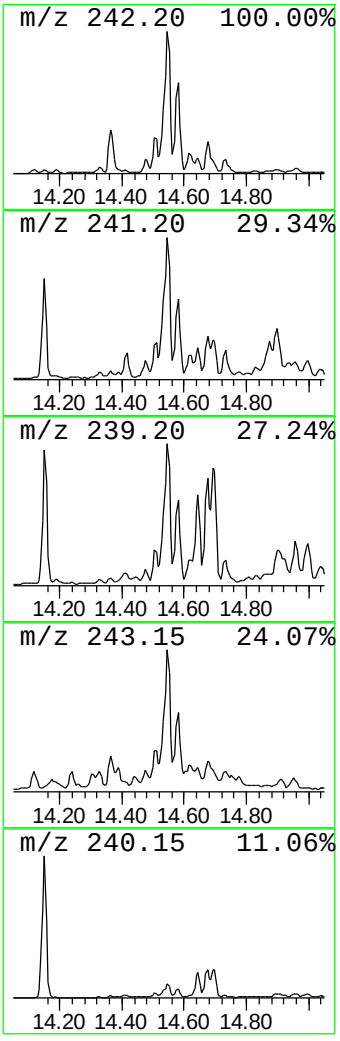
Peak Number 19 Triphenylene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.55	3.96 ng/ul	2868510	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	99
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	98
3	Chrysene, 2-methyl-	242	C19H14	003351-32-4	96
4	Chrysene, 3-methyl-	242	C19H14	003351-31-3	96
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95





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ClientSampleId : F2D04

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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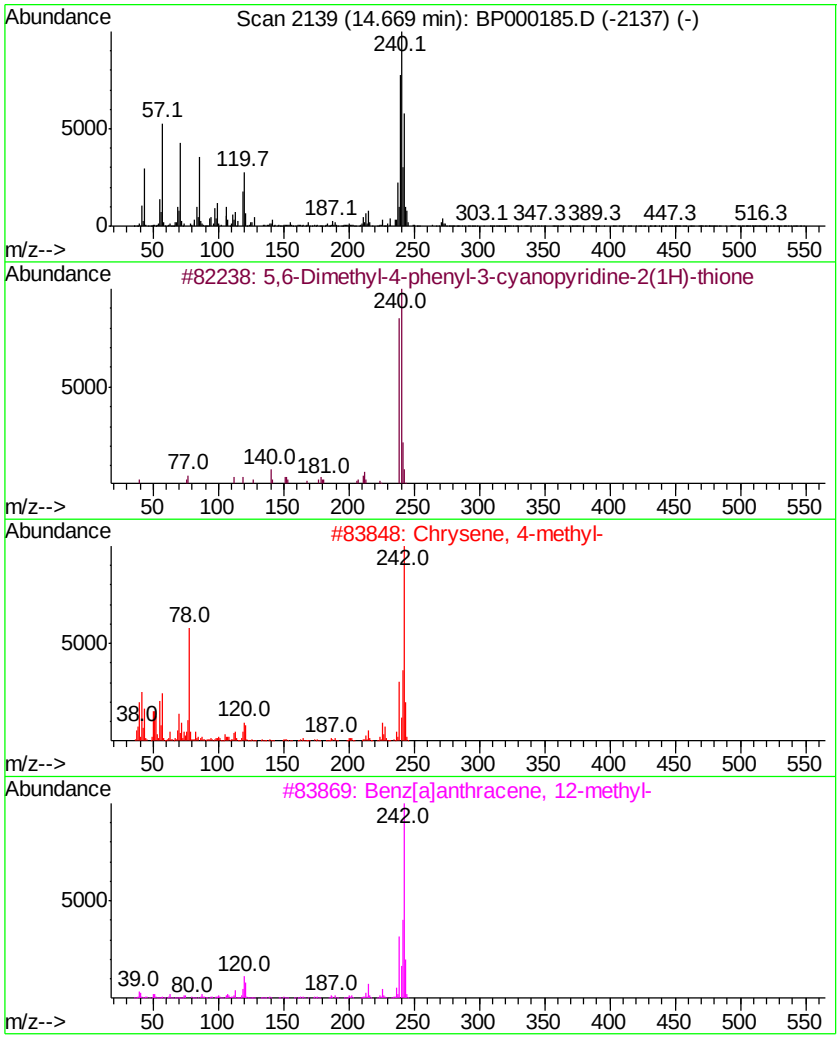
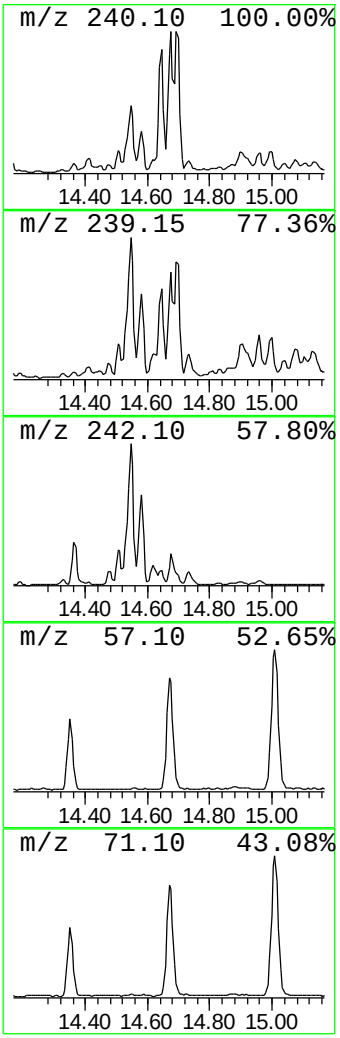
Peak Number 20 unknown-01 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.67	2.30 ng/ul	1665370	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,6-Dimethyl-4-phenyl-3-cyanopyr...	240	C14H12N2S	094639-18-6	38
2	Chrysene, 4-methyl-	242	C19H14	003351-30-2	38
3	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	38
4	9H-Tribenzo[a,c,e]cycloheptene	242	C19H14	000213-10-5	30
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	30





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Sample : K4633-06
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ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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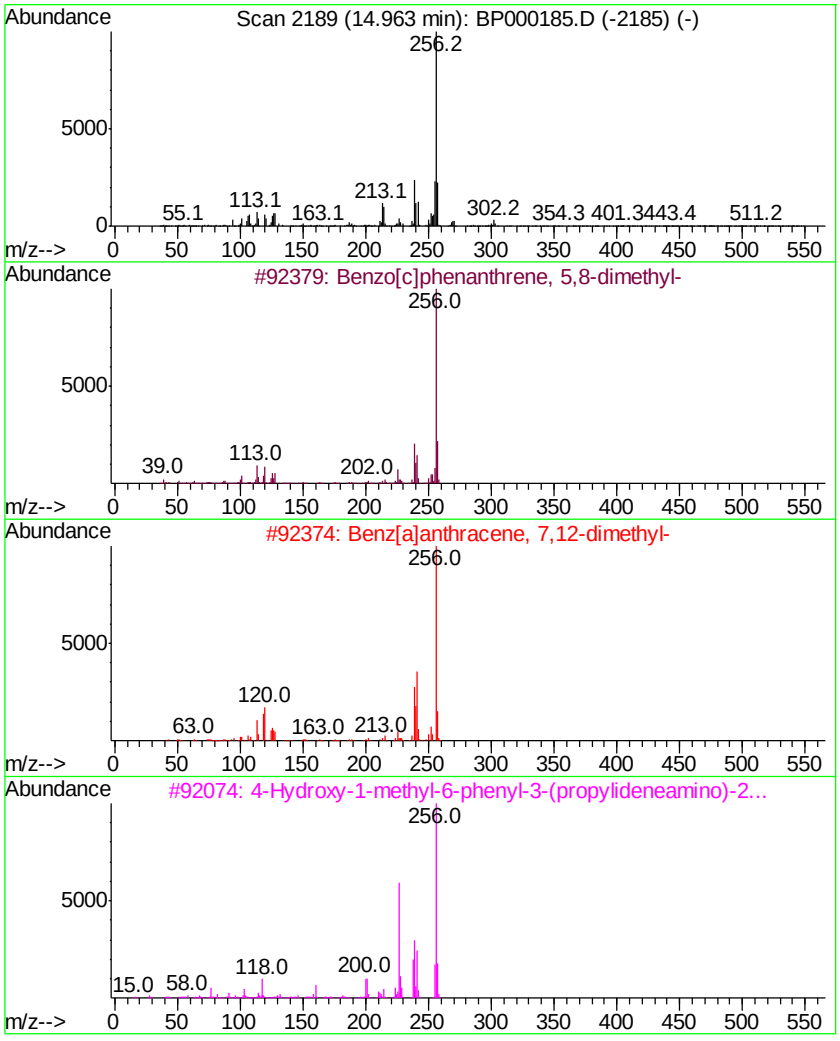
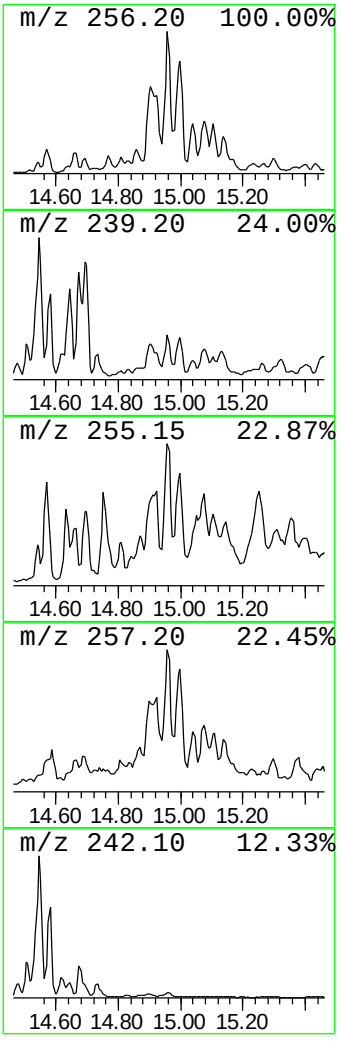
Peak Number 21 Benzo[c]phenanthrene, 5,8-d... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.96	4.56 ng/ul	697139	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	86
2	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	86
3	4-Hydroxy-1-methyl-6-phenyl-3-(p...	256	C15H16N2O2	1000239-66-9	80
4	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	59
5	2,4-Diamino-5-methyl-6-phenylthi...	256	C13H12N4S	042160-11-2	53





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Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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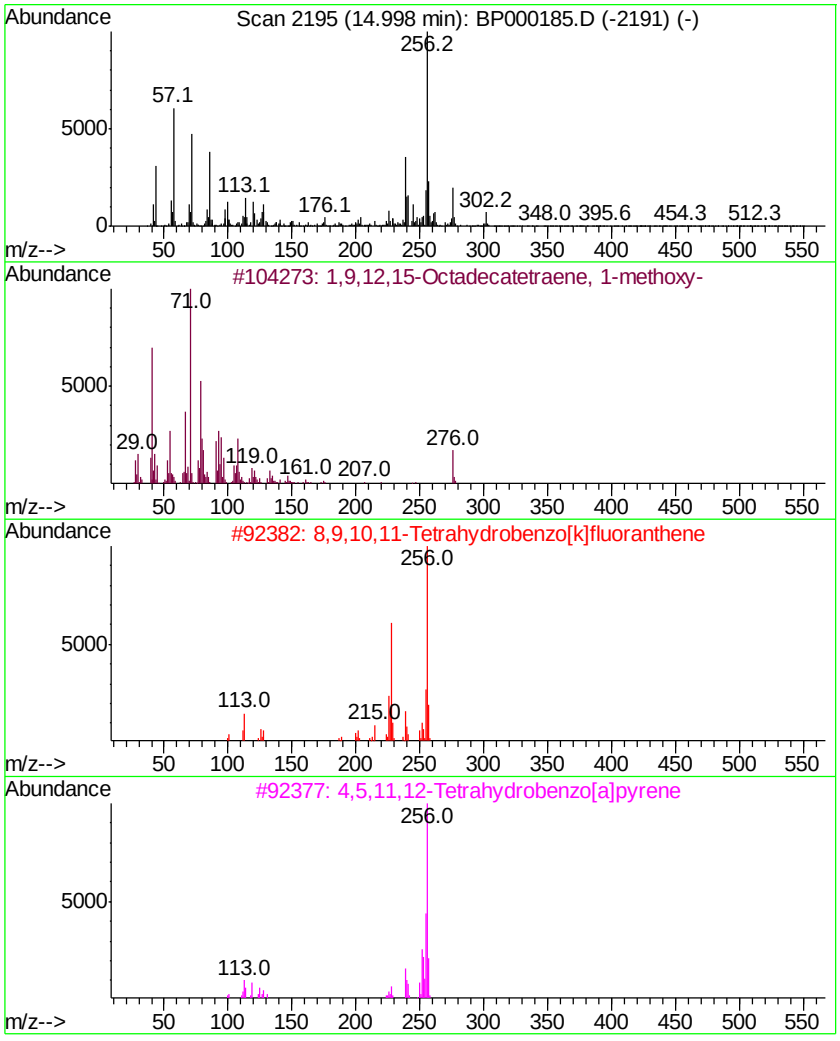
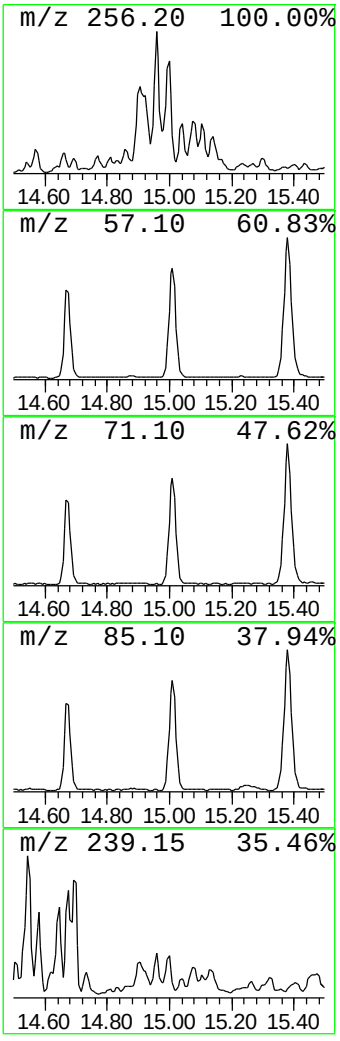
Peak Number 22 unknown-02 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	14.17 ng/ul	2164460	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,9,12,15-Octadecatetraene, 1-me...	276	C19H32O	056847-00-8	25
2	8,9,10,11-Tetrahydrobenzo[k]fluo...	256	C20H16	033942-81-3	16
3	4,5,11,12-Tetrahydrobenzo[a]pyrene	256	C20H16	109292-58-2	12
4	Methanone, bis(3-methoxyphenyl)-...	256	C15H16N2O2	067437-15-4	9
5	2-Furanmethanamine, tetrahydro-	101	C5H11NO	004795-29-3	9





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Instrument : BNA_P
ClientSampleId : F2D04

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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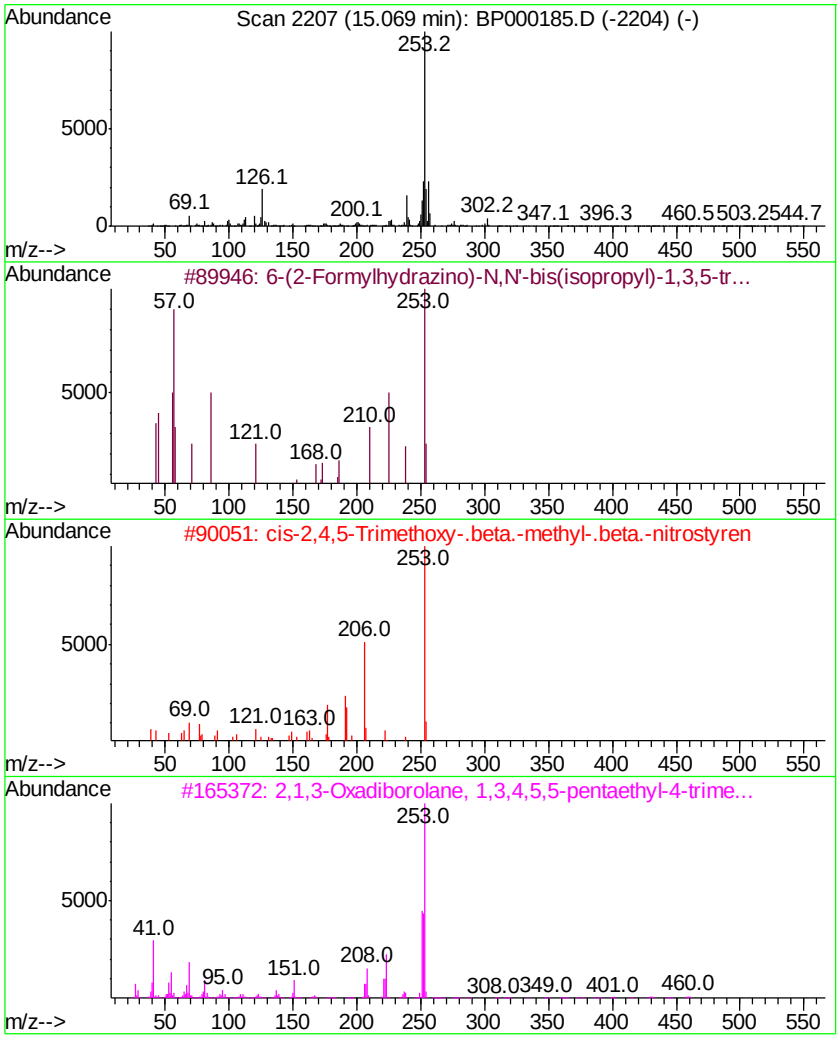
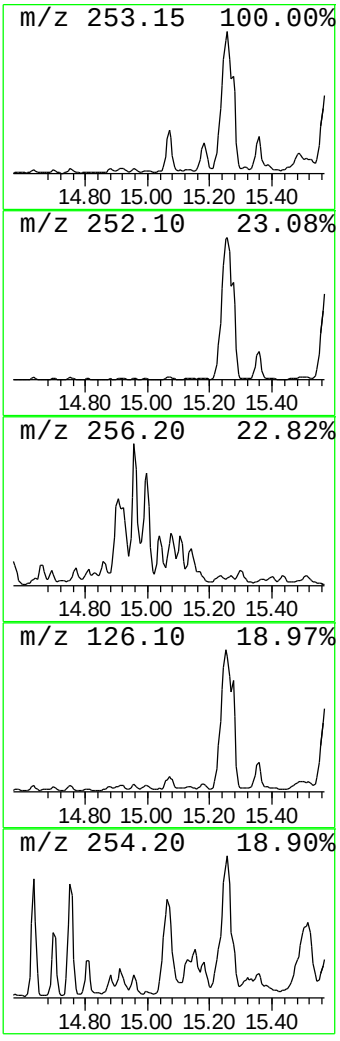
Peak Number 23 unknown-03 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	5.48 ng/ul	836593	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-(2-Formylhydrazino)-N,N'-bis(i...	253	C10H19N7O	084305-82-8	25
2	cis-2,4,5-Trimethoxy-.beta.-meth...	253	C12H15NO5	017231-84-4	12
3	2,1,3-Oxadiborolane, 1,3,4,5,5-p...	460	C15H34B2OPb	161423-23-0	12
4	2-Amino-7-benzyl-4-hydroxypteridine	253	C13H11N5O	049647-55-4	9
5	trans-2,3,5-Trimethoxy-.beta.-me...	253	C12H15NO5	006010-78-2	9





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Sample : K4633-06
Misc :
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Instrument : BNA_P
ClientSampleId : F2D04

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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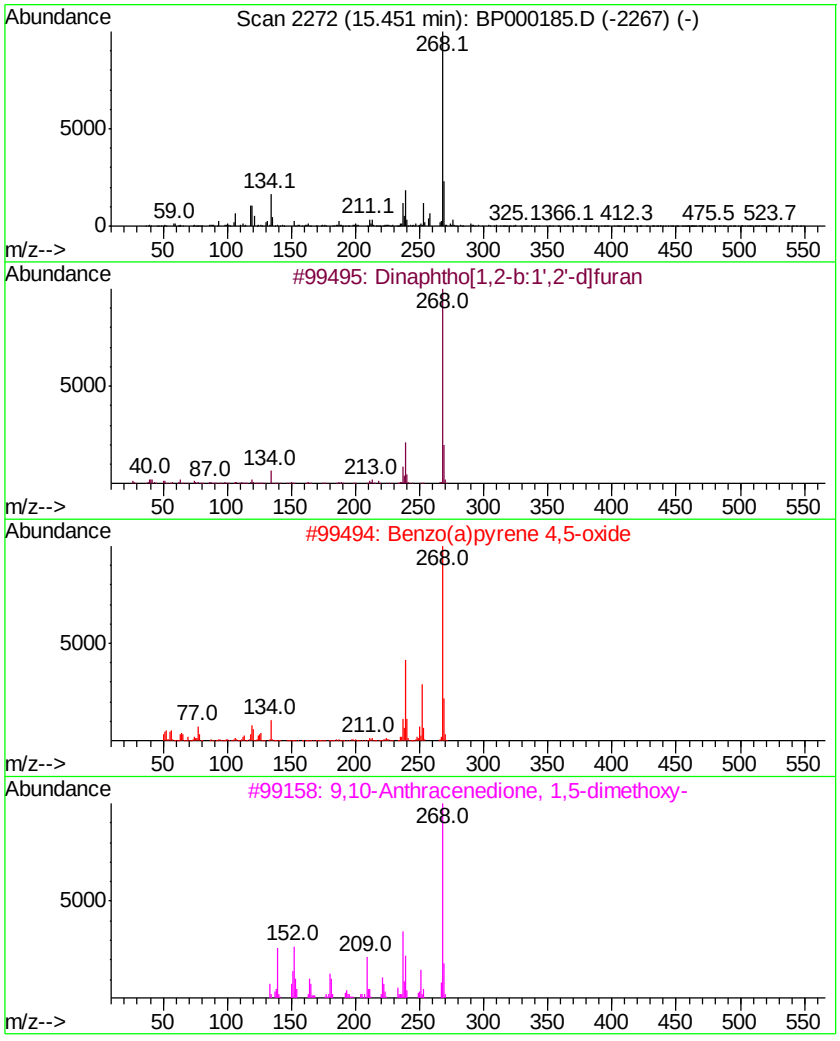
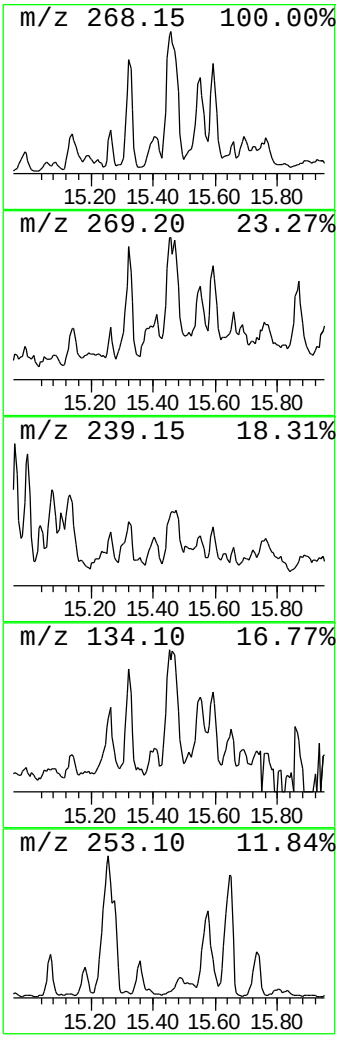
Peak Number 25 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.45	3.12 ng/ul	476467	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	58
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	50
3	9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	47
4	Naphthalene, 1-(2-naphthalenylme...	268	C21H16	000611-48-3	47
5	10-Hydroxy-5-methoxy-2-methyl-1,...	268	C16H12O4	084542-45-0	46





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Instrument : BNA_P
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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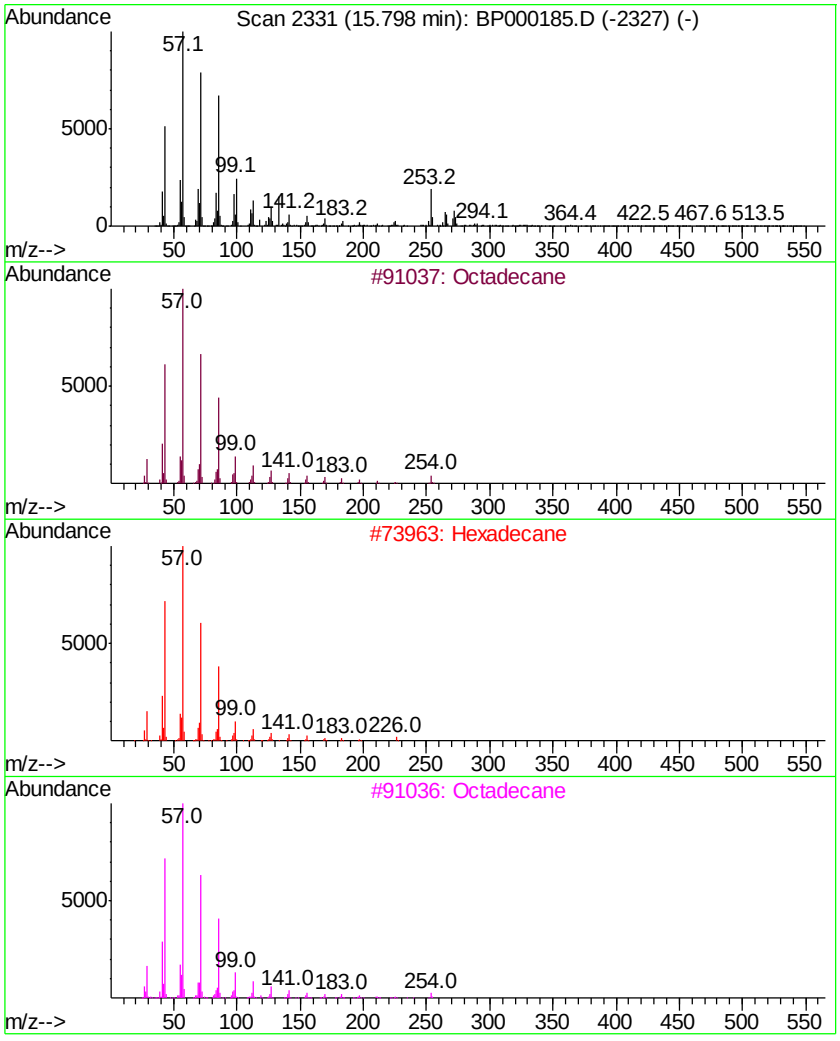
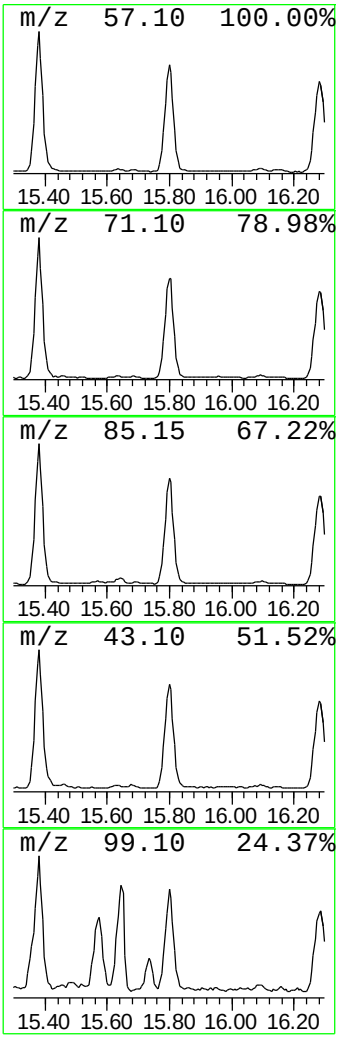
Peak Number 26 (DEL) Alkane: Straight-Chai... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.80	14.31 ng/ul	2186210	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	96
2	Hexadecane	226	C16H34	000544-76-3	92
3	Octadecane	254	C18H38	000593-45-3	92
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
5	Octadecane	254	C18H38	000593-45-3	86





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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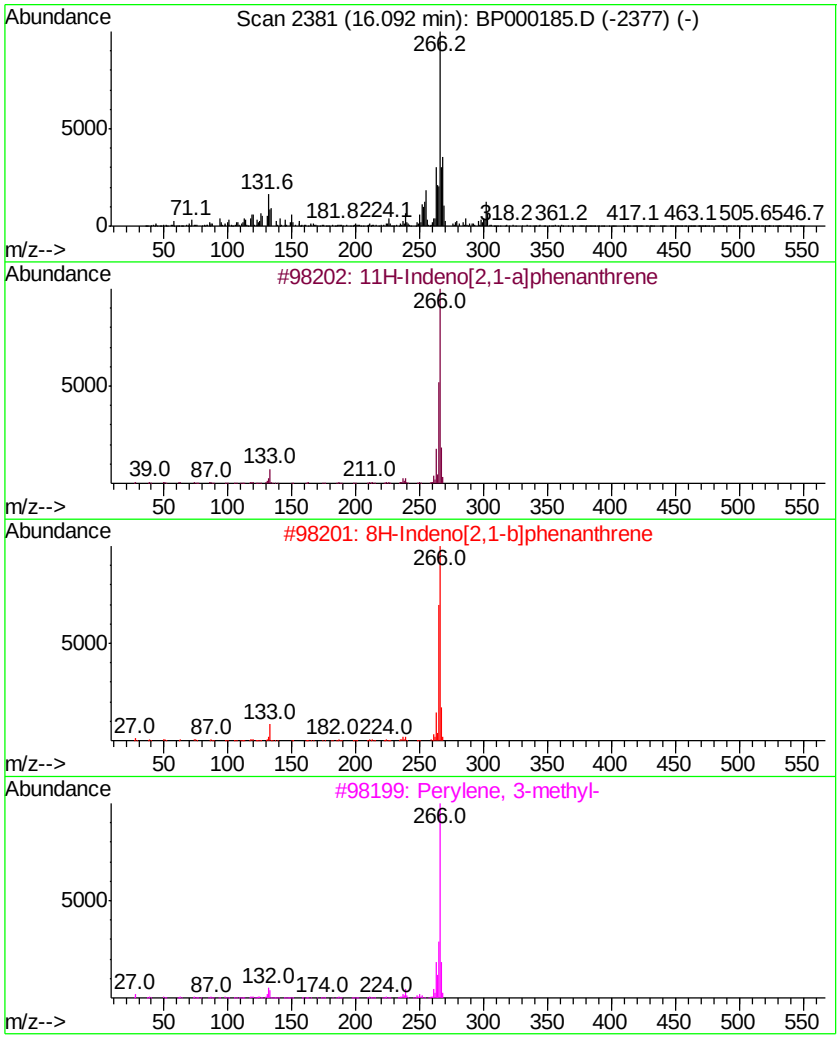
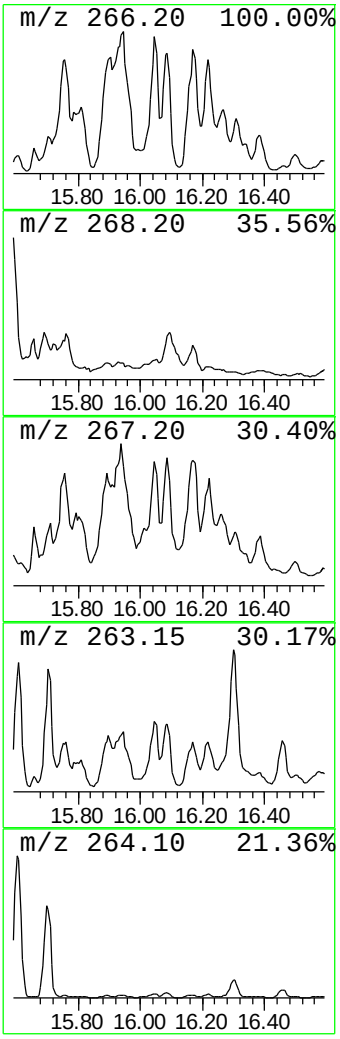
Peak Number 29 11H-Indeno[2,1-a]phenanthrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.09	7.44 ng/ul	1136840	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	55
2	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	49
3	Perylene, 3-methyl-	266	C21H14	024471-47-4	49
4	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	46
5	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	42





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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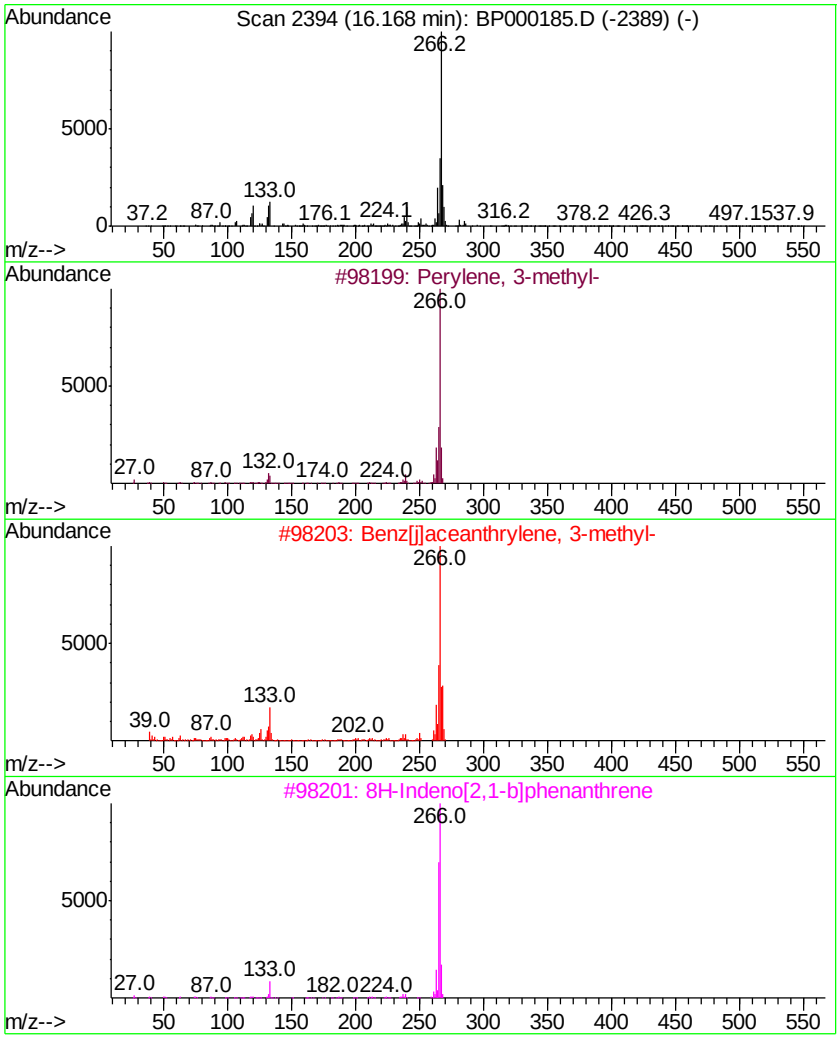
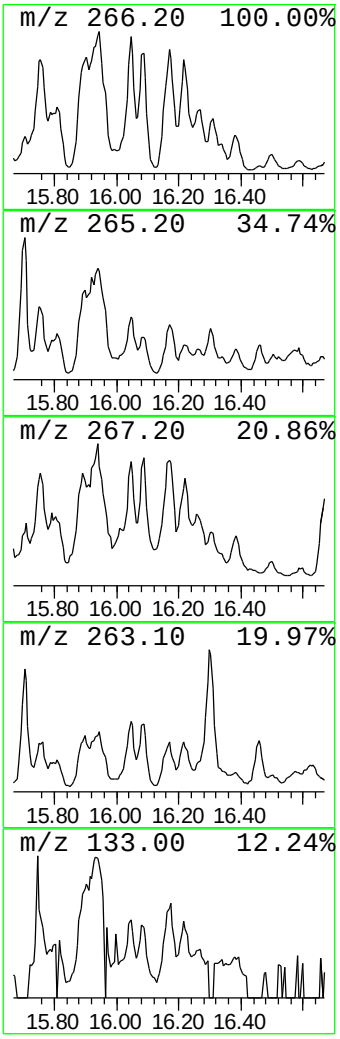
Peak Number 30 Perylene, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.17	5.70 ng/ul	870875	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	89
2	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	86
3	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	76
4	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	64
5	2,3-Dihydro-7-methyl-5-phenyl-1H...	266	C16H14N2S	002888-60-0	59





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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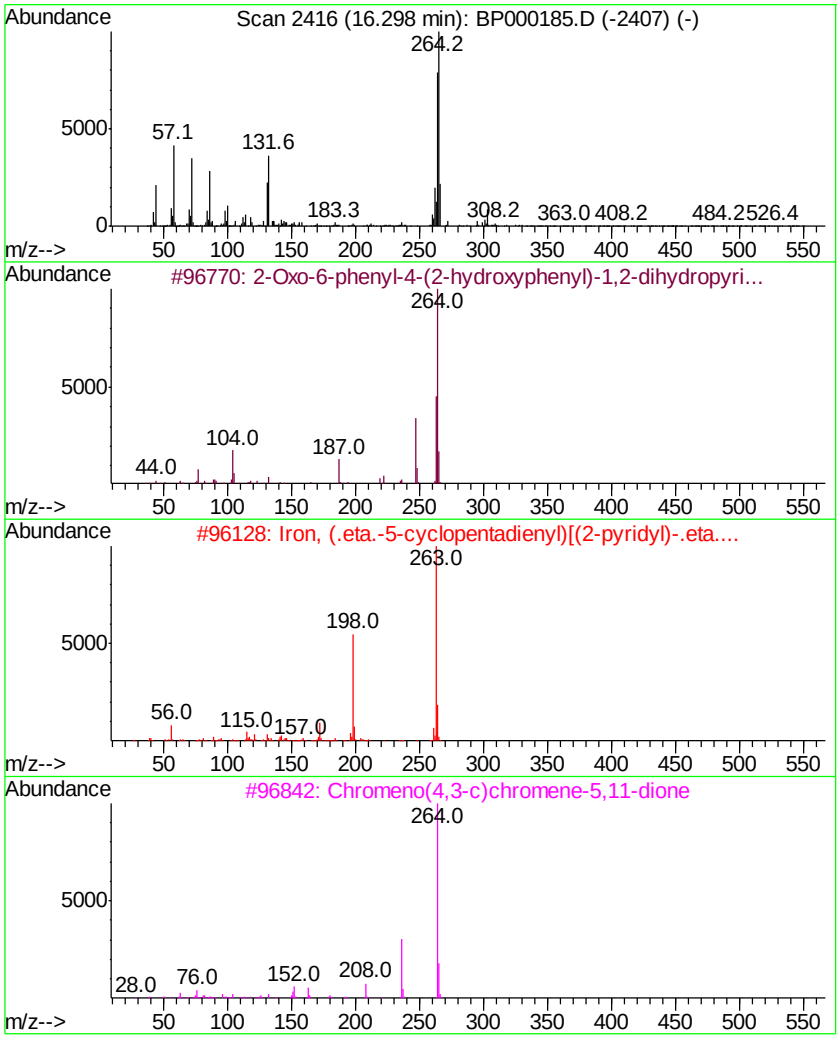
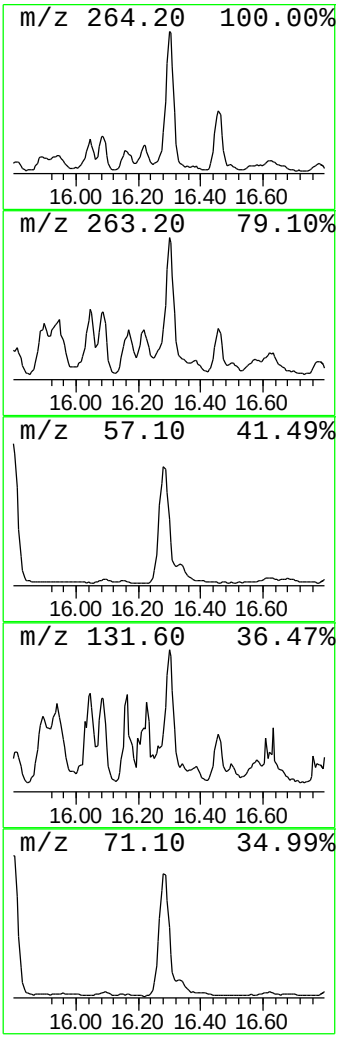
Peak Number 31 unknown-04 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.30	15.22 ng/ul	2324090	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Oxo-6-phenyl-4-(2-hydroxyphenyl...	264	C16H12N2O2	017432-82-5	23
2	Iron, (.eta.-5-cyclopentadienyl)...	263	C15H13FeN	1000164-28-2	12
3	Chromeno(4,3-c)chromene-5,11-dione	264	C16H8O4	013225-81-5	10
4	Bicyclo[2.2.1]hepta-2,5-diene, 1...	296	C7H2Cl6	003389-71-7	10
5	4-Iodo-2-nitrotoluene	263	C7H6INO2	041252-97-5	9





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP091019\
Data File : BP000185.D
Acq On : 10 Sep 2019 23:28
Operator : HP/JU
Sample : K4633-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D04

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	2.18	137.4	ng/ul	17991200	1	6.89	2619130	20.0
Dibenzothiophene	11.34	2.0	ng/ul	437161	4	11.45	4319750	20.0
Phenanthrene, 2-m...	11.96	4.5	ng/ul	968601	4	11.45	4319750	20.0
Anthracene, 2-met...	11.99	10.0	ng/ul	2157540	4	11.45	4319750	20.0
4H-Cyclopenta[def...	12.07	7.6	ng/ul	1651080	4	11.45	4319750	20.0
2-Phenylnaphthalene	12.26	2.7	ng/ul	573874	4	11.45	4319750	20.0
9,10-Anthracenedione	12.28	3.2	ng/ul	682567	4	11.45	4319750	20.0
Anthracene, 2-ethyl-	12.41	2.0	ng/ul	439514	4	11.45	4319750	20.0
Phenanthrene, 2,5...	12.52	3.0	ng/ul	659070	4	11.45	4319750	20.0
Cyclopenta(def)ph...	12.60	2.4	ng/ul	507182	4	11.45	4319750	20.0
11H-Benzo[b]fluorene	13.25	3.4	ng/ul	2457670	5	14.15	14481700	20.0
Fluoranthene, 2-m...	13.32	2.2	ng/ul	1606190	5	14.15	14481700	20.0
Pyrene, 1-methyl-	13.36	3.0	ng/ul	2156350	5	14.15	14481700	20.0
7H-Benz[de]anthra...	13.77	2.6	ng/ul	1907110	5	14.15	14481700	20.0
Benzo[b]naphtho[2...	13.89	4.2	ng/ul	3033030	5	14.15	14481700	20.0
(DEL) Alkane: Cyc...	14.02	2.3	ng/ul	1635090	5	14.15	14481700	20.0
Benzo(c)carbazole	14.37	2.5	ng/ul	1821260	5	14.15	14481700	20.0
Triphenylene, 2-m...	14.55	4.0	ng/ul	2868510	5	14.15	14481700	20.0
unknown-01	14.67	2.3	ng/ul	1665370	5	14.15	14481700	20.0
Benzo[c]phenanthr...	14.96	4.6	ng/ul	697139	6	15.70	3054480	20.0
unknown-02	15.00	14.2	ng/ul	2164460	6	15.70	3054480	20.0
unknown-03	15.07	5.5	ng/ul	836593	6	15.70	3054480	20.0
Dinaphtho[1,2-b:1...	15.45	3.1	ng/ul	476467	6	15.70	3054480	20.0
(DEL) Alkane: Str...	15.80	14.3	ng/ul	2186210	6	15.70	3054480	20.0
11H-Indeno[2,1-a]...	16.09	7.4	ng/ul	1136840	6	15.70	3054480	20.0
Perylene, 3-methyl-	16.17	5.7	ng/ul	870875	6	15.70	3054480	20.0
unknown-04	16.30	15.2	ng/ul	2324090	6	15.70	3054480	20.0