LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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	11254288	18322857	100.00%	7.417%
2	6.510	748	752	759	rBV2	3026536	2822378	15.40%	1.142%
3	6.575	759	763	767	rBV	2290820	1981342	10.81%	0.802%
4	6.657	773	777	781	rBV	2959245	2617679	14.29%	1.060%
5	6.893	813	817	820	rBV	3352596	2563366	13.99%	1.038%
6	7.257	875	879	883	rBV	3698707	3075718	16.79%	1.245%
7	7.446	907	911	915	rBV	2800747	2322145	12.67%	0.940%
8	7.775	963	967	970	rBV	2498893	1862470	10.16%	0.754%
9	8.016	1004	1008	1011	rBV	3986638	3095929	16.90%	1.253%
10	8.175	1032	1035	1038	rBV	3903263	3534511	19.29%	1.431%
11	8.234	1041	1045	1059	rVB	2577951	2355213	12.85%	0.953%
12	9.634	1279	1283	1285	rVV	5138593	4139090	22.59%	1.675%
13	9.651	1285	1286	1290	rVB	1787041	1317396	7.19%	0.533%
14	9.792	1306	1310	1313	rBV	5759850	5162241	28.17%	2.090%
15	9.945	1332	1336	1339	rVV	5169248	4033839	22.02%	1.633%
16	9.975	1339	1341	1345	rVV	1833097	1557724	8.50%	0.631%
17	10.028	1347	1350	1360	rVV	1476852	1475316	8.05%	0.597%
18	10.145	1367	1370	1375	rVV	766211	718921	3.92%	0.291%
19	10.469	1421	1425	1428	rBV	7202180	5761538	31.44%	2.332%
20	10.498	1428	1430	1432	rVV	839993	626211	3.42%	0.253%
21	10.528	1432	1435	1437	rVV	737941	630005	3.44%	0.255%
22	10.863	1486	1492	1496	rBV	281880	300001	1.64%	0.121%
23	11.310	1562	1568	1571	rBV2	269506	361946	1.98%	0.147%
24	11.339	1571	1573	1577	rVB	458533	373696	2.04%	0.151%
25	11.451	1588	1592	1594	rBV	4303642	4494280	24.53%	1.819%
26	11.475	1594	1596	1599	rVV	8143491	6372681	34.78%	2.580%
27	11.504	1599	1601	1604	rVV	5735575	5916039	32.29%	2.395%
28	11.675	1625	1630	1634	rBV2	1228244	1169557	6.38%	0.473%
29	11.957	1672	1678	1680	rBV	963725	821822	4.49%	0.333%
30	11.986	1680	1683	1688	rVV2	1657557	2367132	12.92%	0.958%
31	12.034	1688	1691	1694	rVV	398968	399331	2.18%	0.162%
32	12.075	1694	1698	1700	rVV	1427098	1537244	8.39%	0.622%
33	12.092	1700	1701	1705	rVB	534816	365873	2.00%	0.148%
34	12.257	1726	1729	1731	rBV	652119	563696	3.08%	0.228%

LSC Area Percent Report

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Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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	12.281	1731	1733	1737	rVB2	590205	521123	2.84%	0.211%
36	12.410	1750	1755	1758	rBV2	337567	338651	1.85%	0.137%
37	12.522	1770	1774	1777	rBV	493780	535889	2.92%	0.217%
38	12.604	1786	1788	1793	rVB3	389424	416628	2.27%	0.169%
39	12.692	1797	1803	1806	rVB	10339129	11239102	61.34%	4.549%
40	12.745	1806	1812	1816	rVB3	220464	373534	2.04%	0.151%
41	12.804	1819	1822	1824	rBV3	523705	577499	3.15%	0.234%
42	12.834	1825	1827	1832	rVB2	425521	521706	2.85%	0.211%
43	12.904	1834	1839	1840	rVV	7097347	7806984	42.61%	3.160%
44	12.922	1840	1842	1847	rVV	9775648	9320357	50.87%	3.773%
45	12.969	1847	1850	1855	rVB2	473761	692809	3.78%	0.280%
46	13.039	1856	1862	1864	rBV	701526	733539	4.00%	0.297%
47	13.075	1864	1868	1873	rVB	705131	824174	4.50%	0.334%
48	13.145	1873	1880	1882	rBV2	701003	1203011	6.57%	0.487%
49	13.228	1891	1894	1895	rVV2	526690	530122	2.89%	0.215%
50	13.251	1895	1898	1901	rVB	2214179	2198316	12.00%	0.890%
51	13.322	1907	1910	1913	rVV	1907863	1560364	8.52%	0.632%
52	13.357	1913	1916	1919	rVV	1793282	1777051	9.70%	0.719%
53	13.381	1919	1920	1924	rVB	589922	526749	2.87%	0.213%
54	13.451	1929	1932	1935	rBV	851628	755915	4.13%	0.306%
55	13.481	1935	1937	1941	rBV	831330	816641	4.46%	0.331%
56	13.639	1961	1964	1966	rBV2	257471	344089	1.88%	0.139%
57	13.686	1966	1972	1975	rVV3	657518	1198103	6.54%	0.485%
58	13.769	1979	1986	1992	rBV3	828133	1570404	8.57%	0.636%
59	13.886	2001	2006	2009	rBV2	1847058	2450687	13.38%	0.992%
60	13.916	2009	2011	2013	rVB	760567	545037	2.97%	0.221%
61	13.939	2013	2015	2016	rBV	600813	486848	2.66%	0.197%
62	13.986	2021	2023	2025	rVB	453944	326219	1.78%	0.132%
63	14.016	2025	2028	2032	rVB2	997505	1293809	7.06%	0.524%
64	14.057	2032	2035	2038	rVB	387886	319686	1.74%	0.129%
65	14.145	2042	2050	2053	rBV2	7754143	13350951	72.87%	5.404%
66	14.175	2053	2055	2061	rVB	6580280	7042137	38.43%	2.850%
67	14.233	2062	2065	2066	rBV	553230	479163	2.62%	0.194%
68	14.251	2066	2068	2071	rVB	1038903	996746	5.44%	0.403%
69	14.339	2080	2083	2085	rBV	691255	793669	4.33%	0.321%
70	14.369	2086	2088	2093	rVB2	921569	1157249	6.32%	0.468%
71	14.410	2093	2095	2098	rVB2	327317	305690	1.67%	0.124%

LSC Area Percent Report

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Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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	14.480	2102	2107	2109	rBV3	544296	842238	4.60%	0.341%
73	14.545	2113	2118	2121	rVB	2024708	2272393	12.40%	0.920%
74	14.580	2121	2124	2127	rVB	1156877	1119684	6.11%	0.453%
75	14.639	2131	2134	2136	rBV2	602381	461965	2.52%	0.187%
76	14.675	2136	2140	2142	rBV	1394725	1696386	9.26%	0.687%
77	14.751	2147	2153	2159	rVB4	521868	1077392	5.88%	0.436%
78	14.810	2160	2163	2169	rBV4	289873	406066	2.22%	0.164%
79	14.869	2169	2173	2176	rBV3	567828	891703	4.87%	0.361%
80	14.898	2176	2178	2185	rVB4	410462	711899	3.89%	0.288%
81	14.957	2185	2188	2191	rBV	515108	484137	2.64%	0.196%
82	15.004	2191	2196	2201	rBV3	1171670	2345990	12.80%	0.950%
83	15.069	2204	2207	2210	rVV3	427915	507113	2.77%	0.205%
84	15.251	2230	2238	2247	rBV	6085461	14965834	81.68%	6.058%
85	15.357	2252	2256	2258	rBV	1049382	1568215	8.56%	0.635%
86	15.445	2267	2271	2273	rBV2	268107	410644	2.24%	0.166%
87	15.569	2286	2292	2295	rBV	3744849	6346543	34.64%	2.569%
88	15.604	2295	2298	2300	rVV	3087701	4195062	22.90%	1.698%
89	15.639	2300	2304	2309	rVB	5218972	8099333	44.20%	3.278%
90	15.698	2309	2314	2317	rBV	2194807	3408197	18.60%	1.380%
91	15.733	2317	2320	2326	rVV2	1665027	2704805	14.76%	1.095%
92	15.798	2326	2331	2338	rVB3	1108852	2411536	13.16%	0.976%
93	16.039	2369	2372	2375	rBV	363023	498201	2.72%	0.202%
94	16.080	2377	2379	2387	rVB2	475888	774355	4.23%	0.313%
95	16.286	2407	2414	2421	rBV4	838389	2189079	11.95%	0.886%
96	16.839	2504	2508	2517	rBV5	405183	931259	5.08%	0.377%
97	17.069	2543	2547	2557	rVB4	429801	1350573	7.37%	0.547%
98	17.286	2575	2584	2590	rVB2	2839821	7166379	39.11%	2.901%
99	17.469	2609	2615	2618	rBV	468245	1068076	5.83%	0.432%
100	17.751	2655	2663	2675	rVB	1971354	5194527	28.35%	2.103%

Sum of corrected areas: 247049422

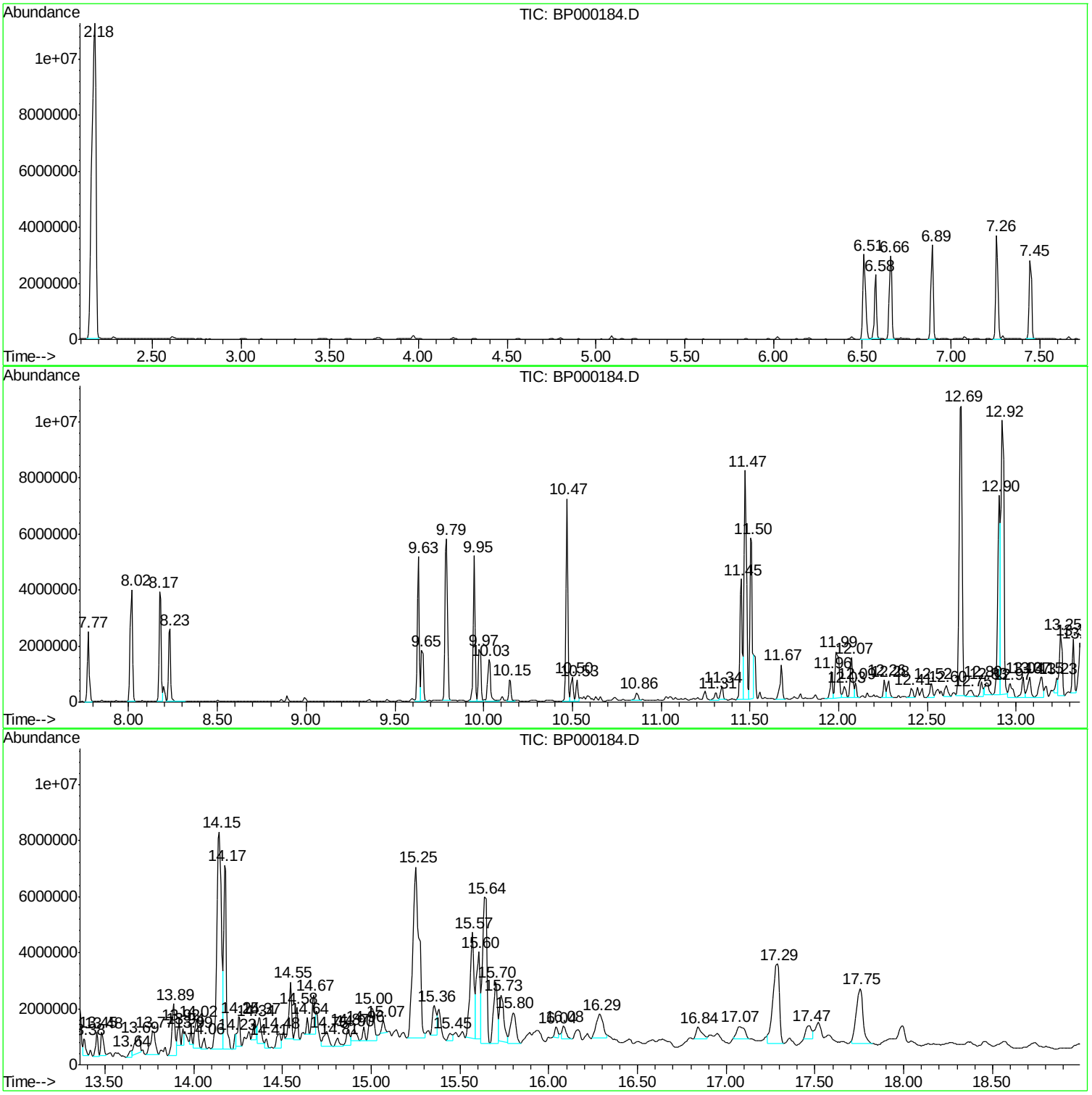
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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 : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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

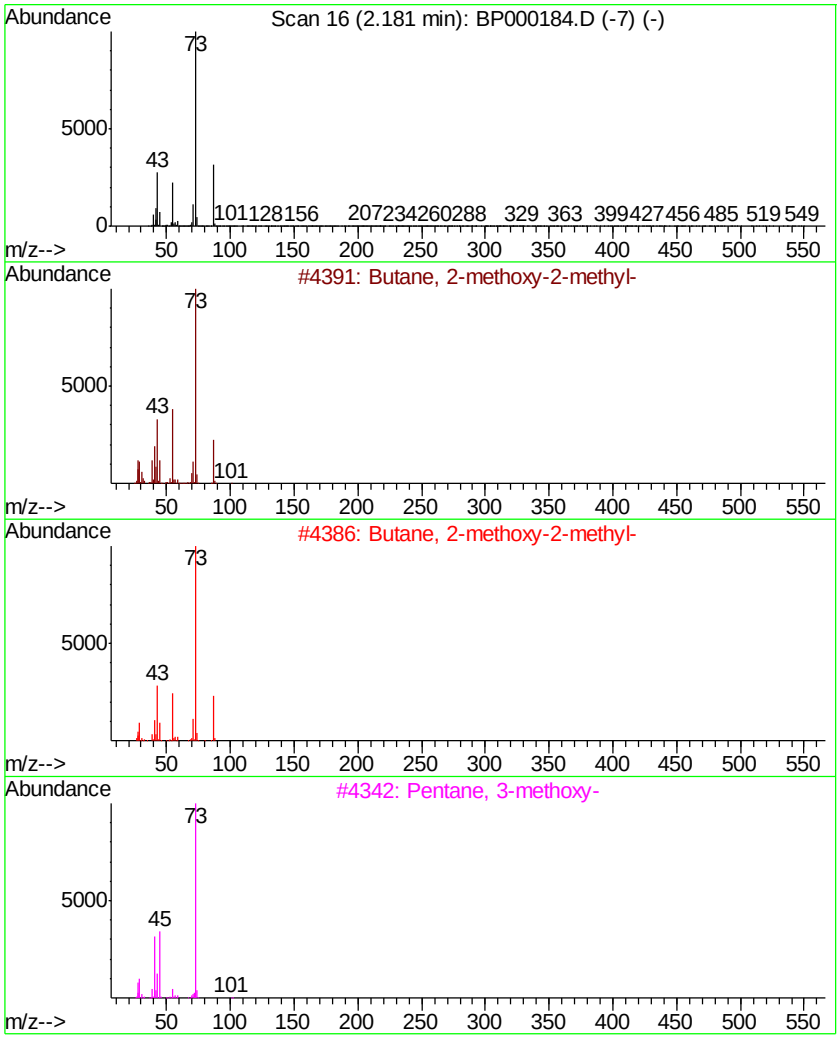
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

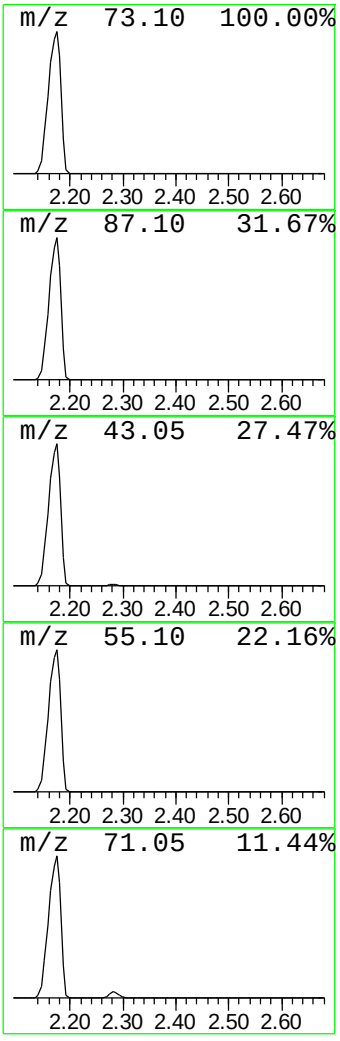
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.18	142.96 ng/ul	18322900	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





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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

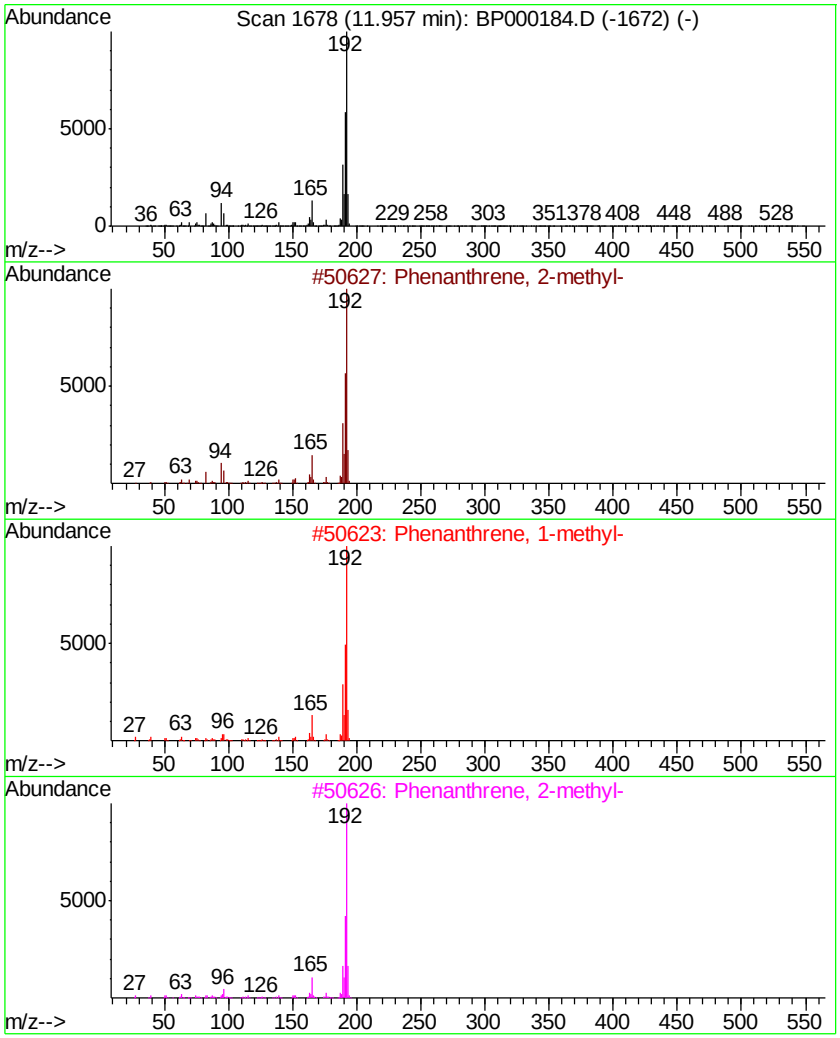
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

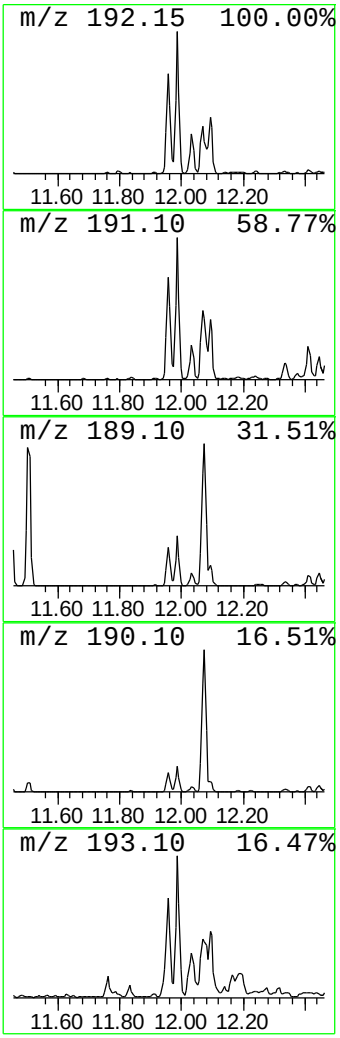
****

Peak Number 2 Phenanthrene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	3.66 ng/ul	821822	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, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





Library Search Compound Report

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Acq On : 10 Sep 2019 23:03
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Misc :
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Instrument : BNA_P
ClientSampleId : F2D03

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

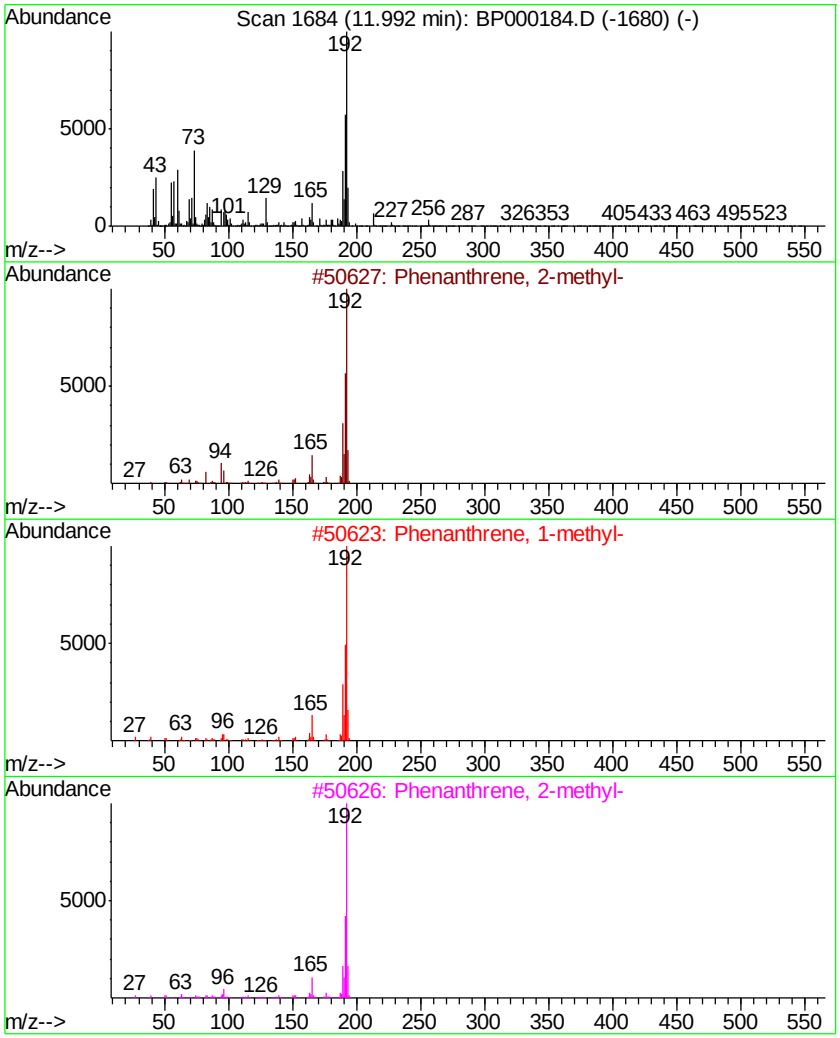
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

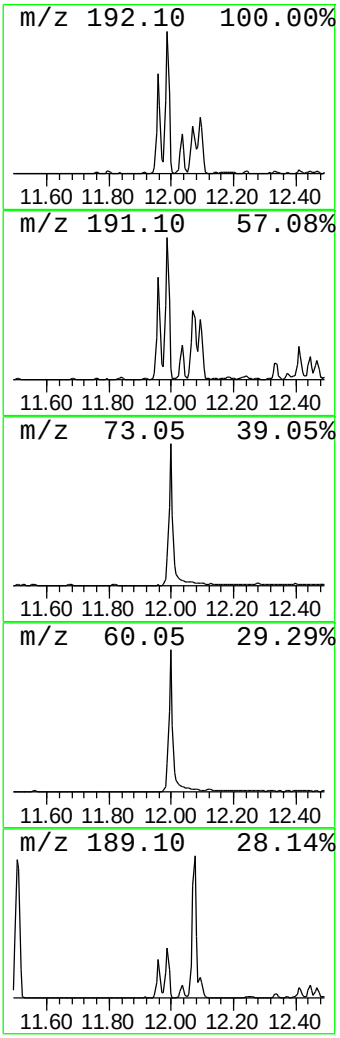
****

Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	10.53 ng/ul	2367130	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, 1-methyl-	192	C15H12	000832-69-9	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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

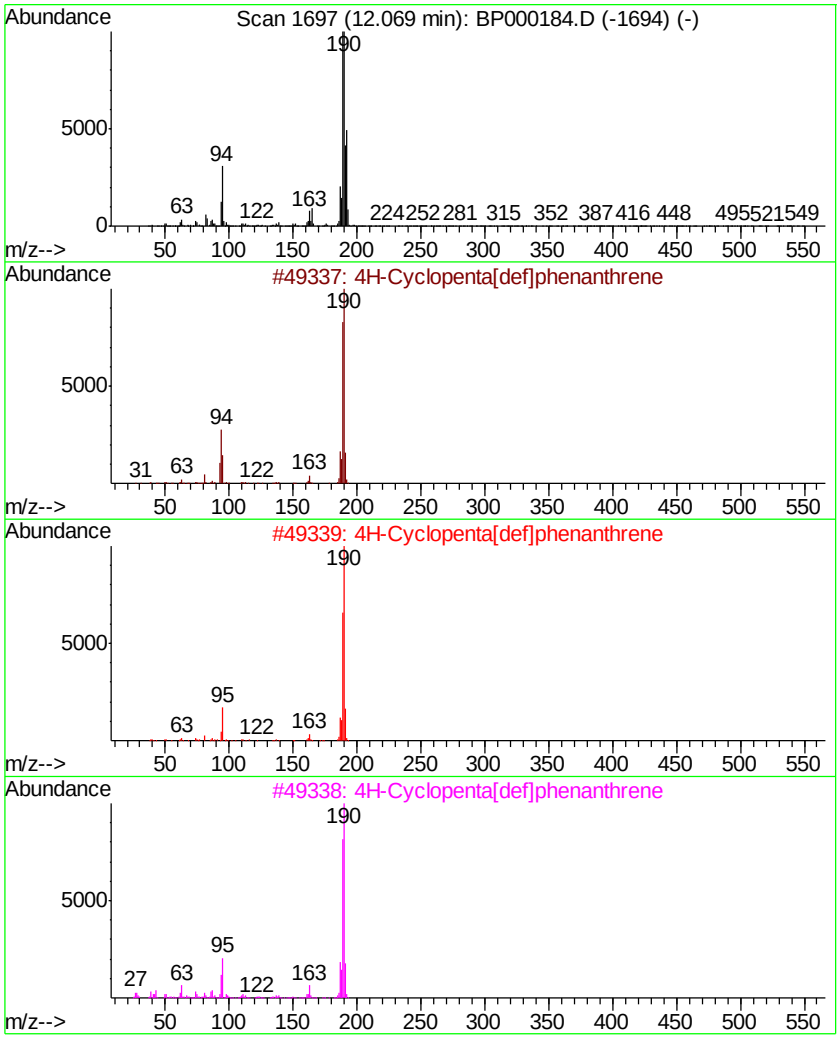
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

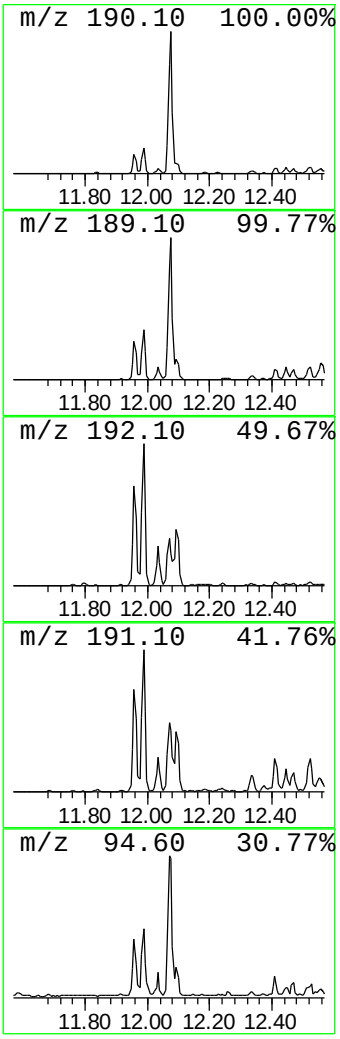
****

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	6.84 ng/ul	1537240	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	64
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50





Library Search Compound Report

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Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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

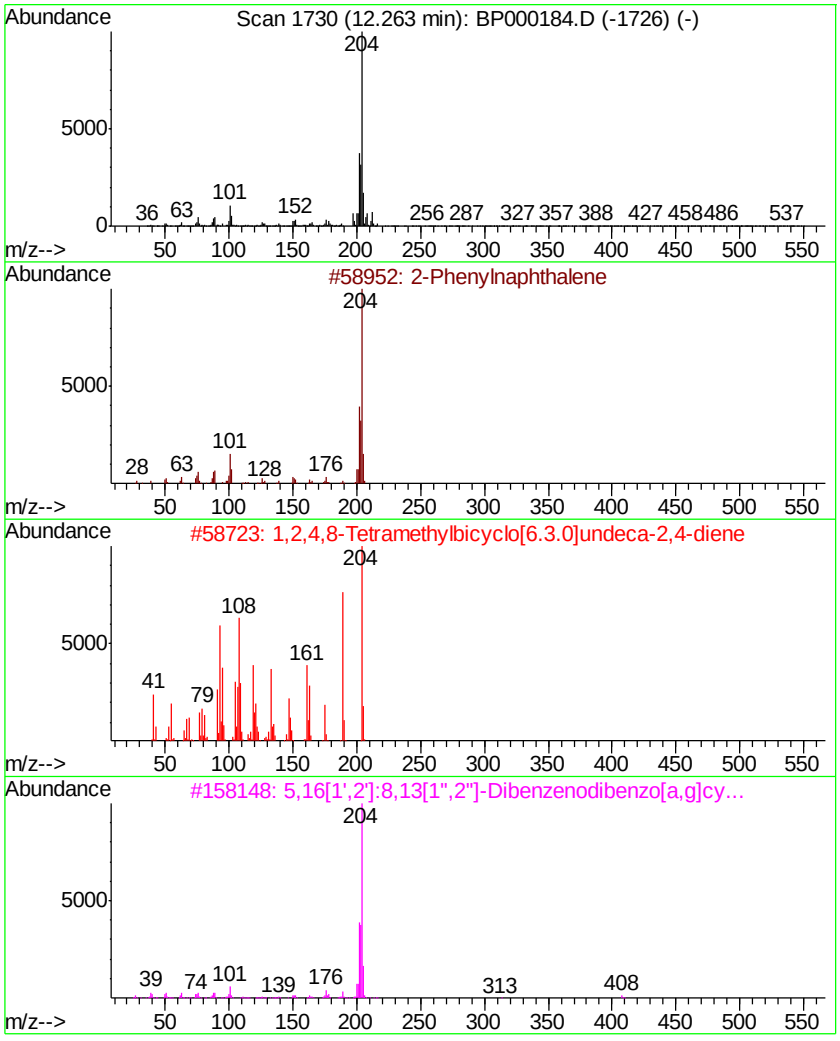
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

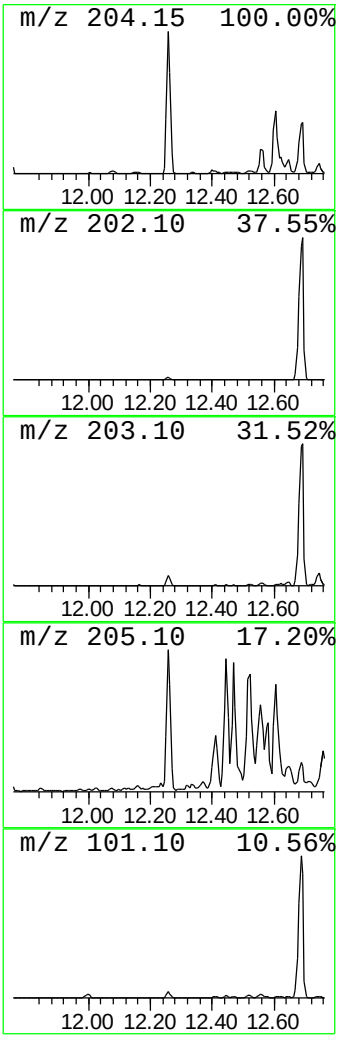
****

Peak Number 5 2-Phenylnaphthalene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	2.51 ng/ul	563696	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	91
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	80
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	78





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Operator : HP/JU
Sample : K4633-05
Misc :
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Instrument : BNA_P
ClientSampleId : F2D03

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Quant Title : SVOA CALIBRATION

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

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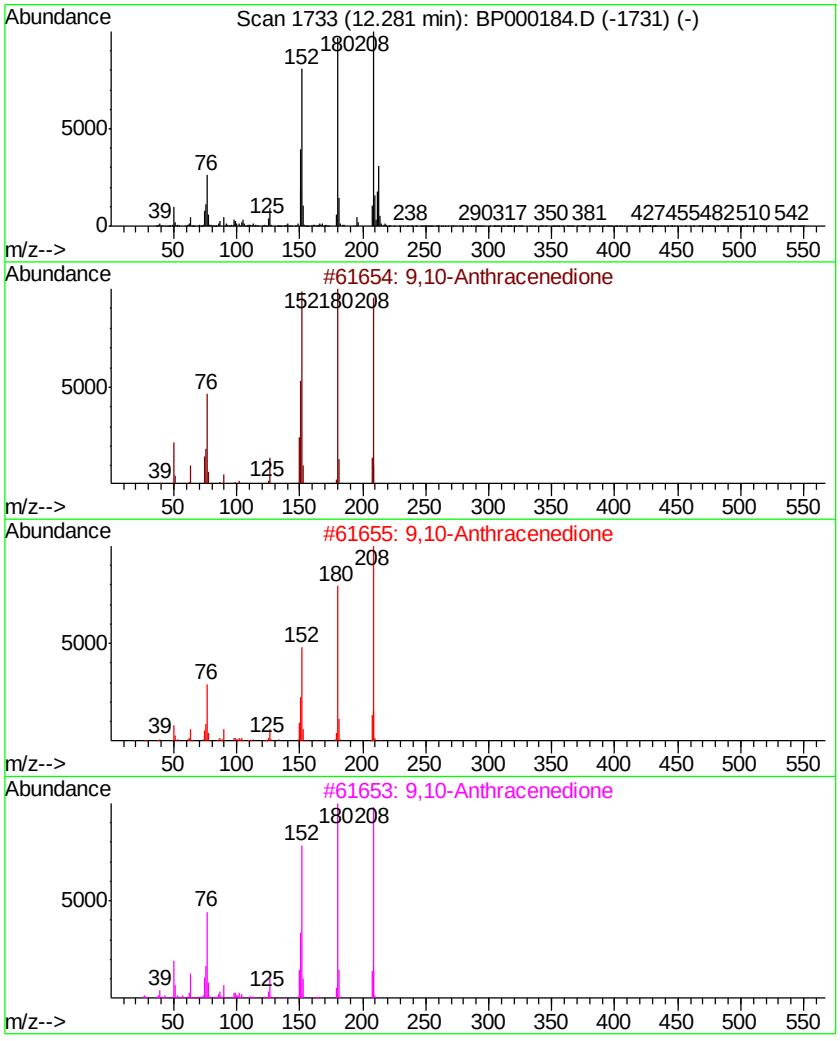
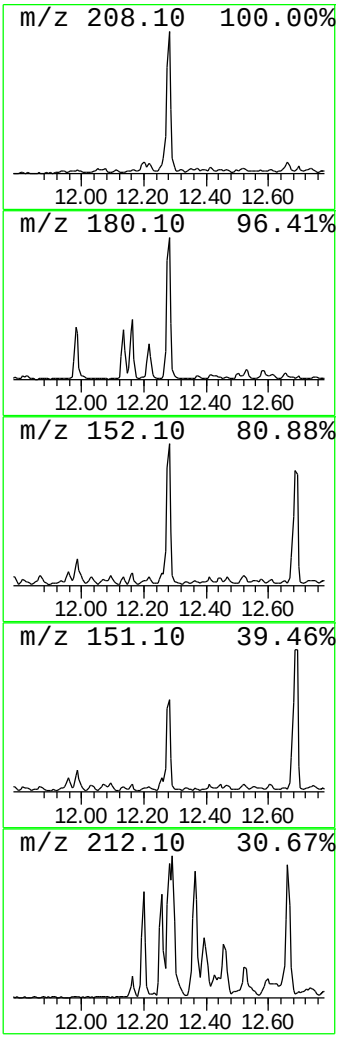
Peak Number 6 9,10-Anthracenedione Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	2.32 ng/ul	521123	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	60





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ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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Quant Title : SVOA CALIBRATION

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

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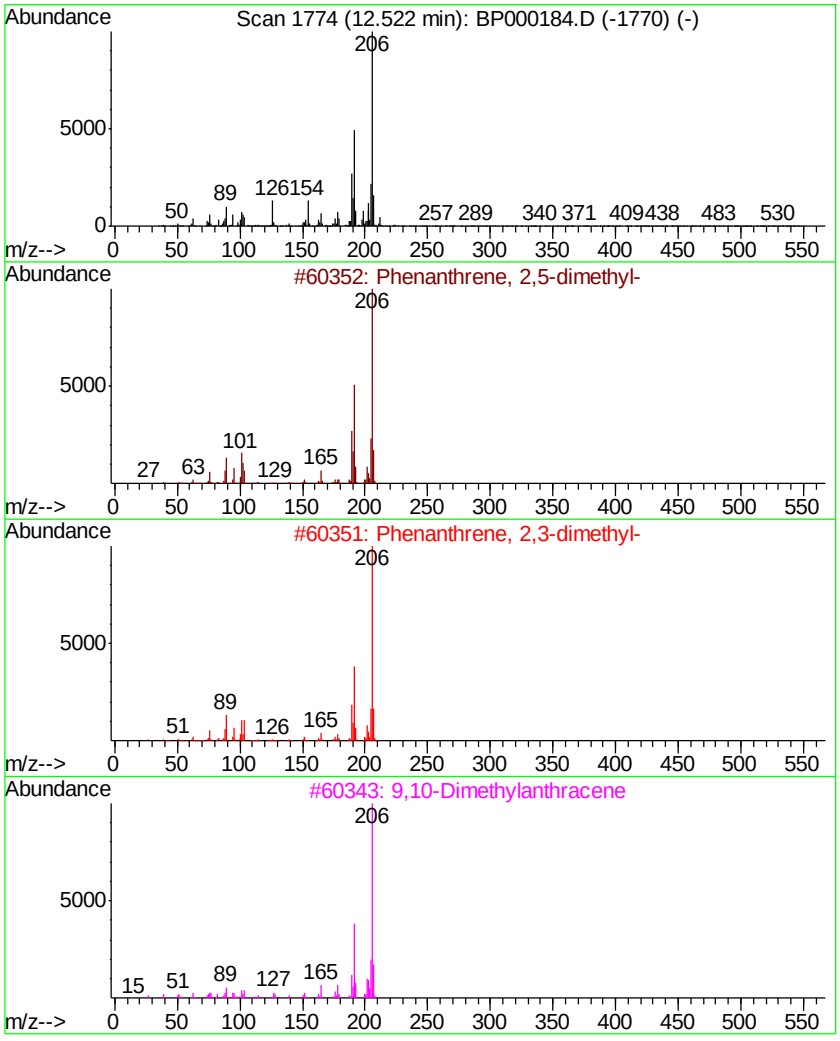
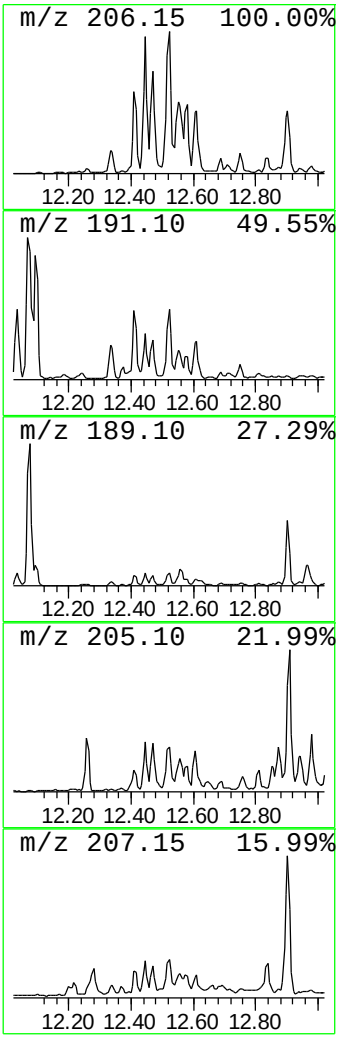
Peak Number 7 Phenanthrene, 2,5-dimethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	2.38 ng/ul	535889	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	81





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Quant Title : SVOA CALIBRATION

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

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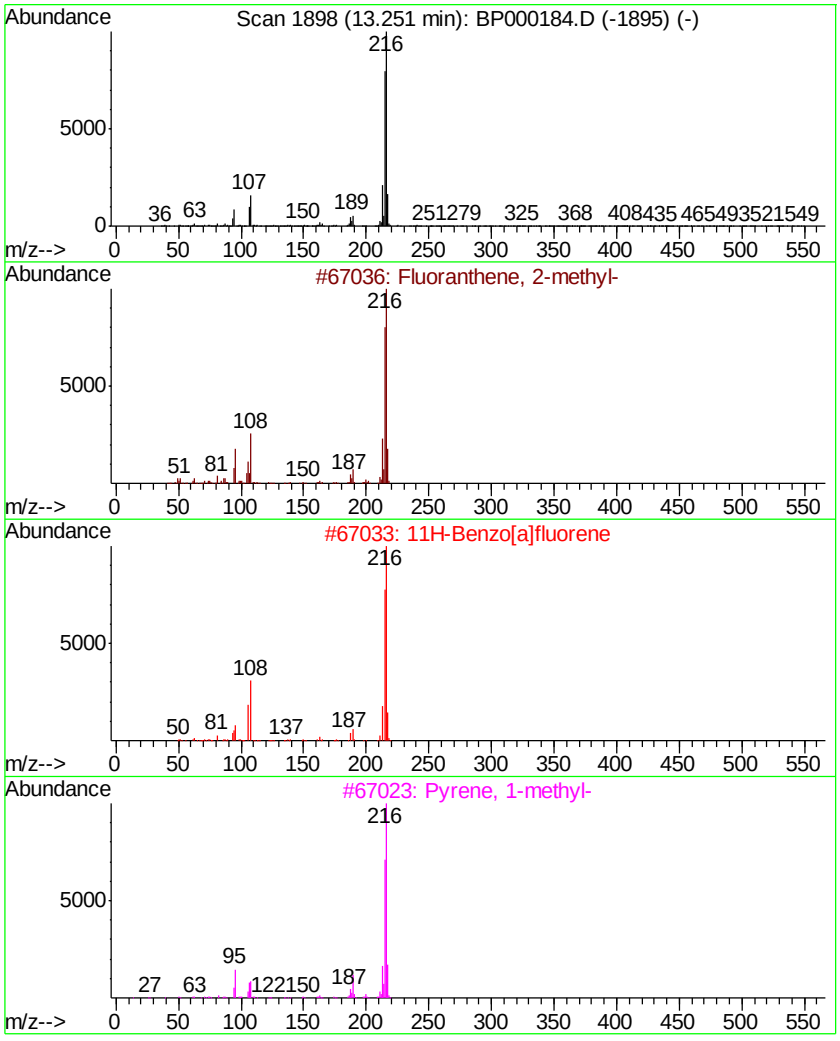
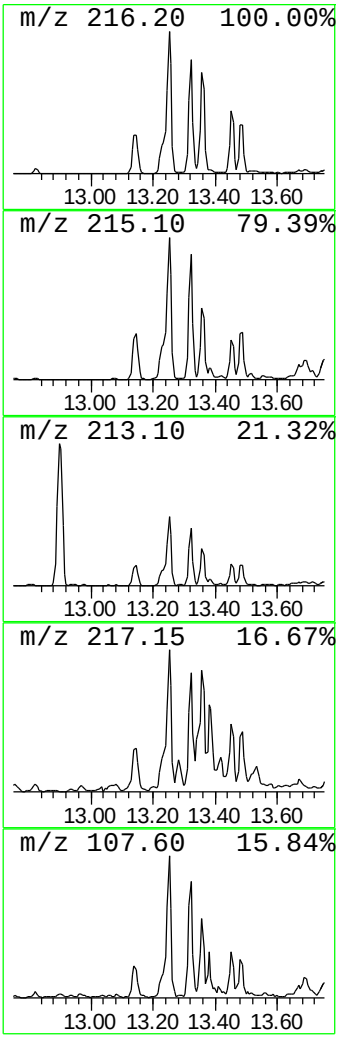
Peak Number 8 Fluoranthene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.25	3.29 ng/ul	2198320	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





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ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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Quant Title : SVOA CALIBRATION

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

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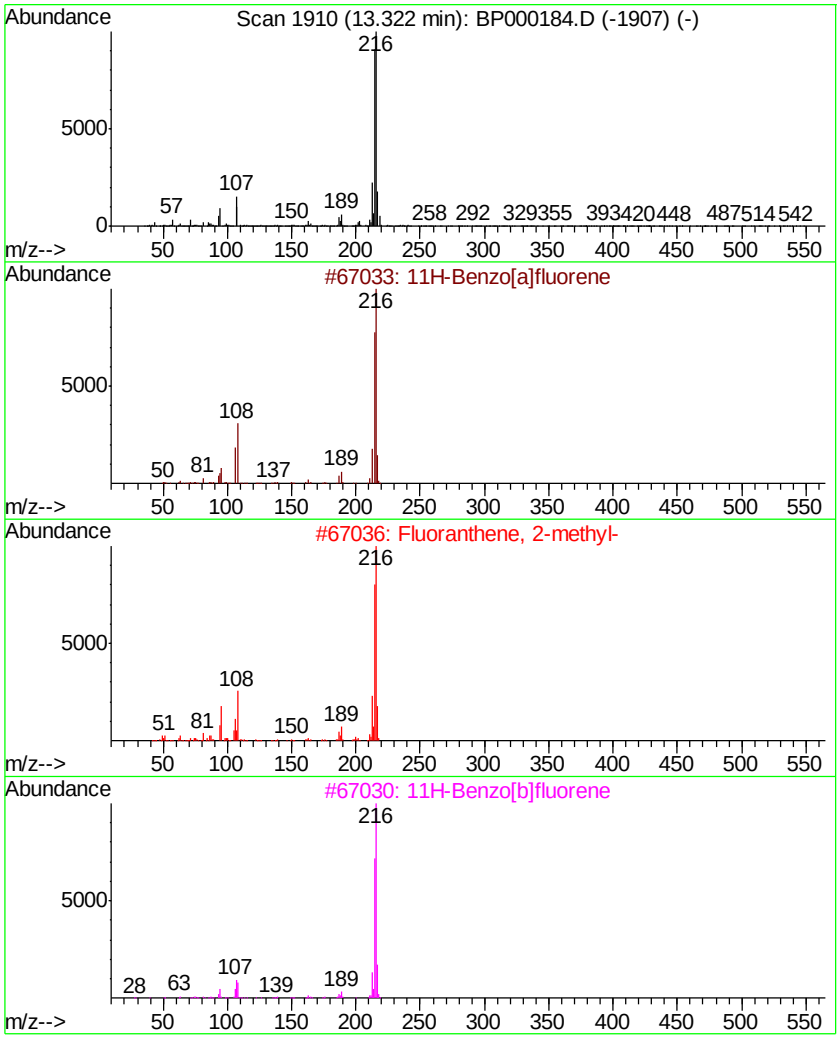
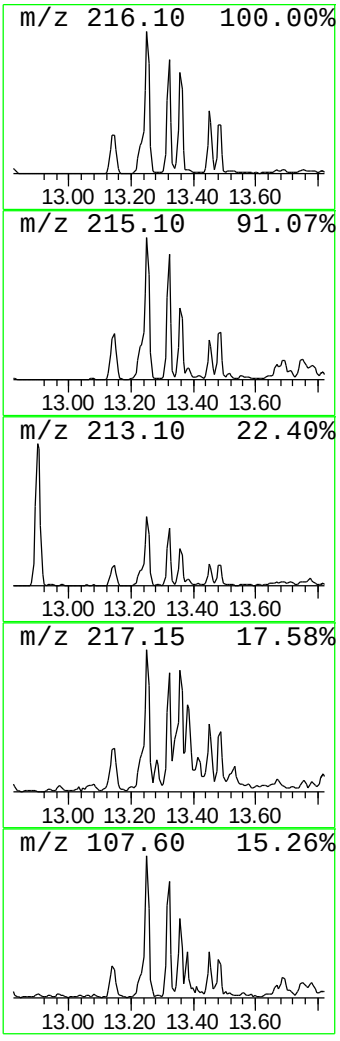
Peak Number 9 11H-Benzo[a]fluorene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.32	2.34 ng/ul	1560360	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83





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Quant Title : SVOA CALIBRATION

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

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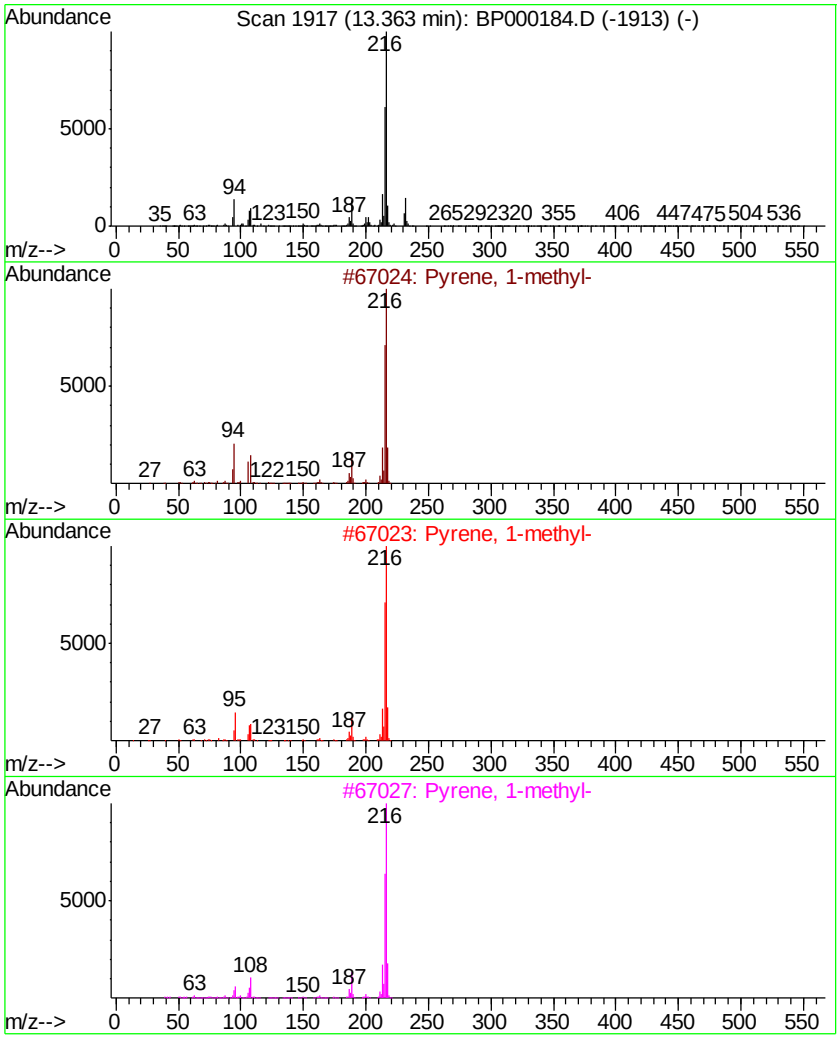
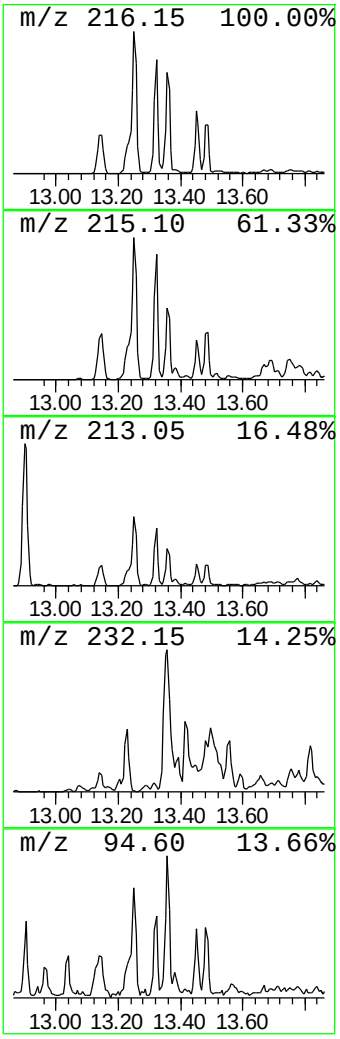
Peak Number 10 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.36	2.66 ng/ul	1777050	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	93
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	86





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Quant Title : SVOA CALIBRATION

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

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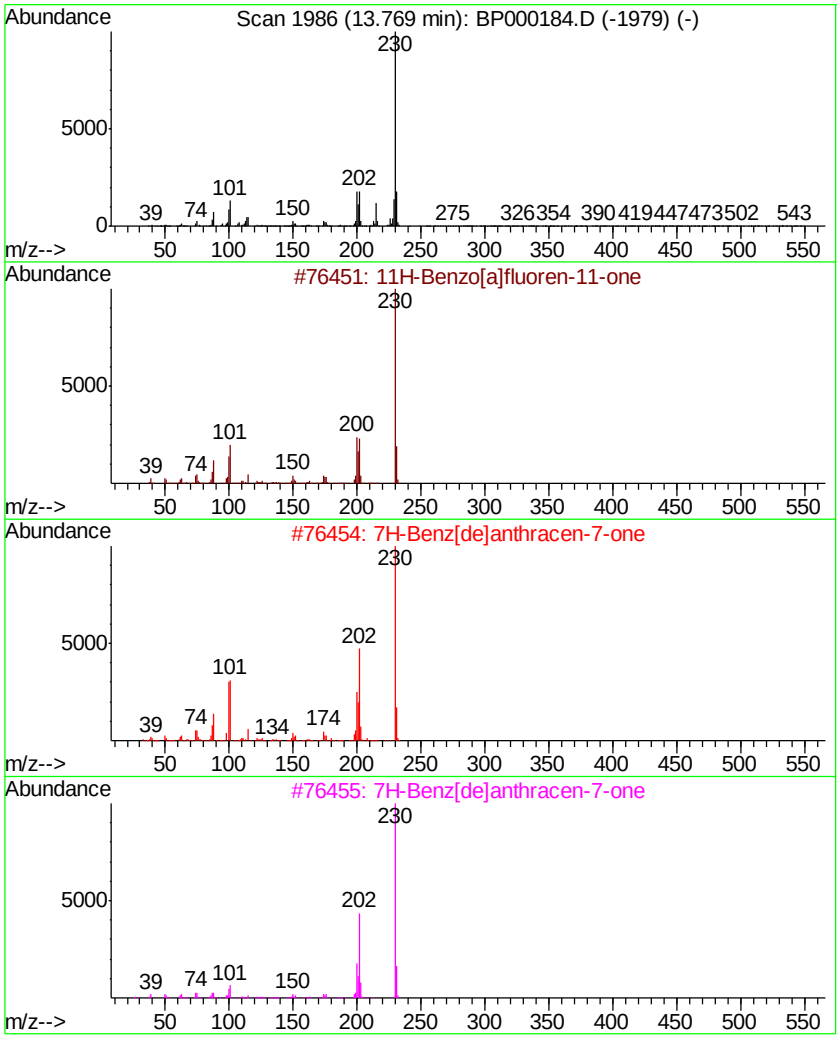
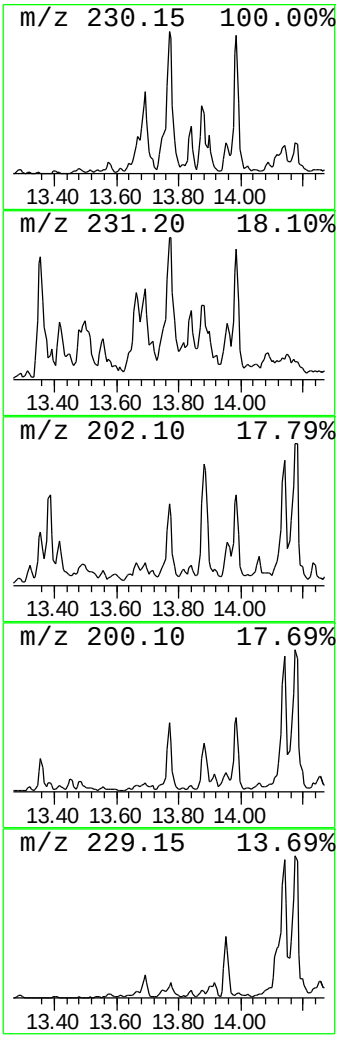
Peak Number 11 11H-Benzo[a]fluoren-11-one Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.77	2.35 ng/ul	1570400	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
5	p-Terphenyl	230	C18H14	000092-94-4	72





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Misc :
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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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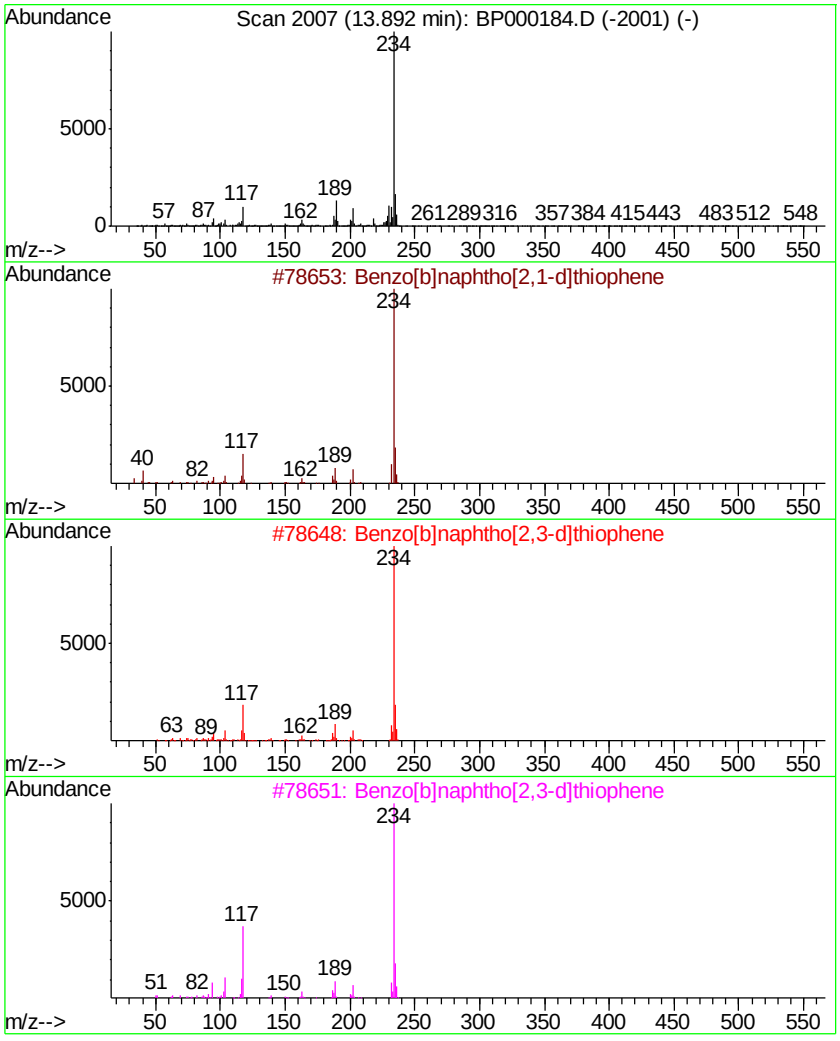
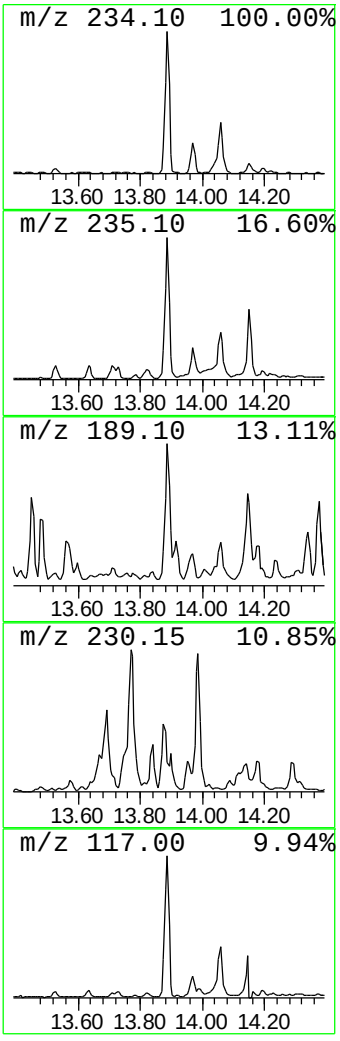
Peak Number 12 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	3.67 ng/ul	2450690	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	94
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	91





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Quant Title : SVOA CALIBRATION

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

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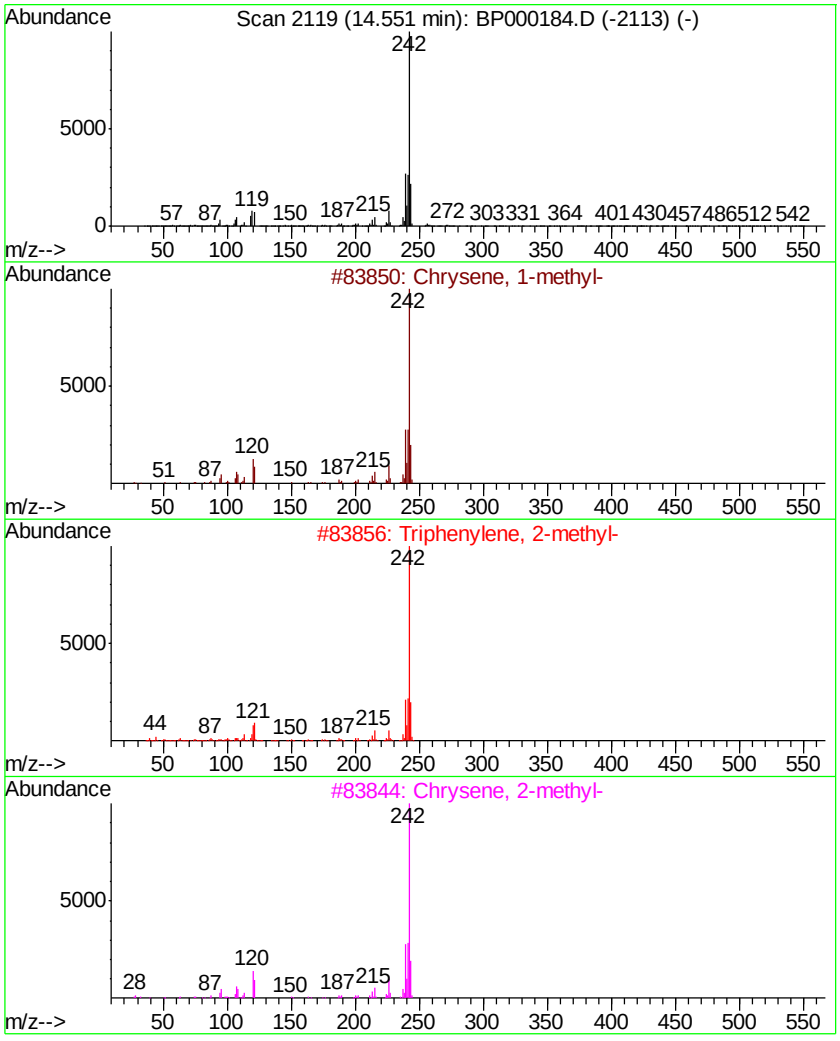
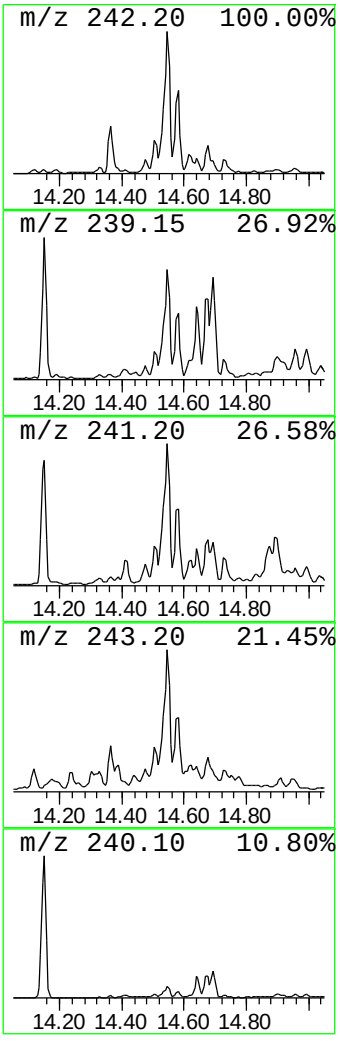
Peak Number 13 Chrysene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.55	3.40 ng/ul	2272390	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	98
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	98
3	Chrysene, 2-methyl-	242	C19H14	003351-32-4	98
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
5	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	95





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Quant Title : SVOA CALIBRATION

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

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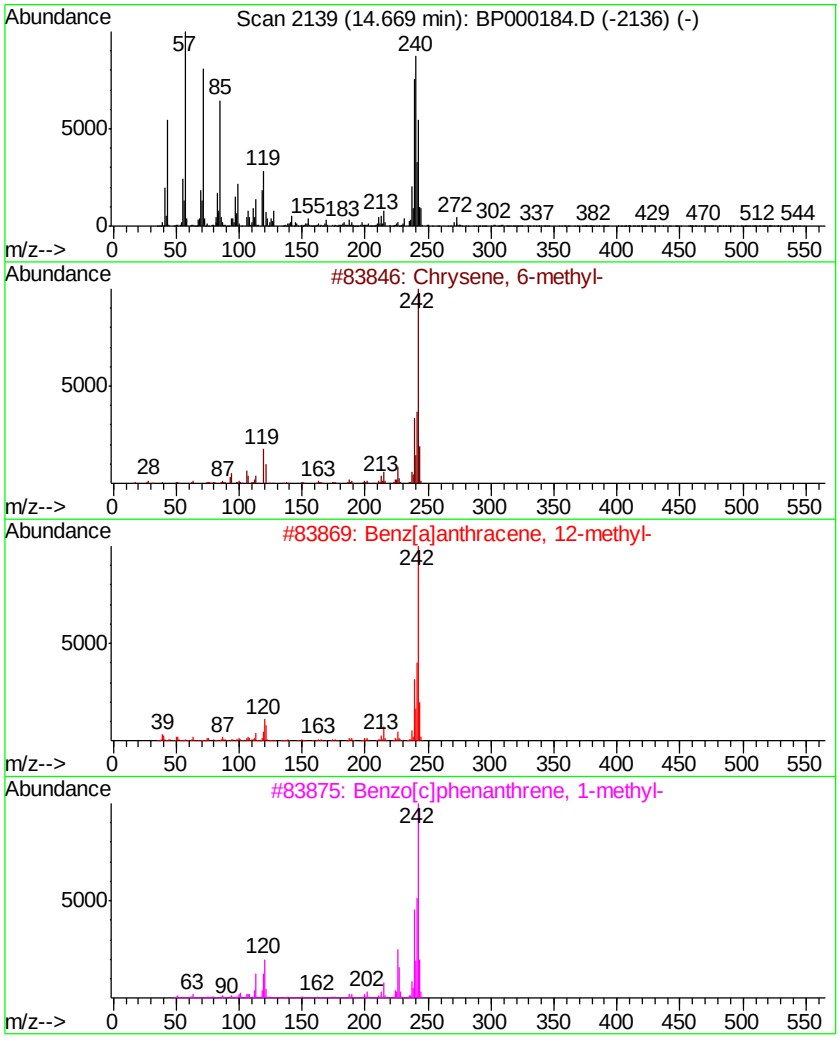
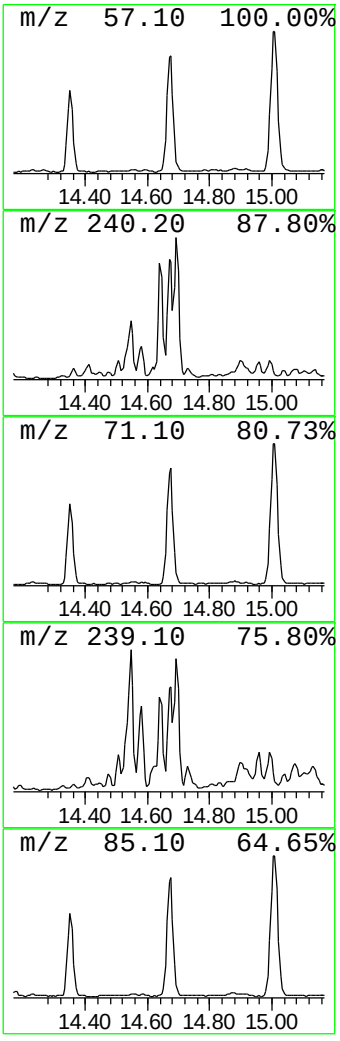
Peak Number 14 Chrysene, 6-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.67	2.54 ng/ul	1696390	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 6-methyl-	242	C19H14	001705-85-7	53
2	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	50
3	Benzo[c]phenanthrene, 1-methyl-	242	C19H14	004076-39-5	45
4	1,3-Dichloro-7-methyl-5,6,7,8-te...	241	C10H9Cl2N3	1000274-39-1	30
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	20





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Quant Title : SVOA CALIBRATION

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

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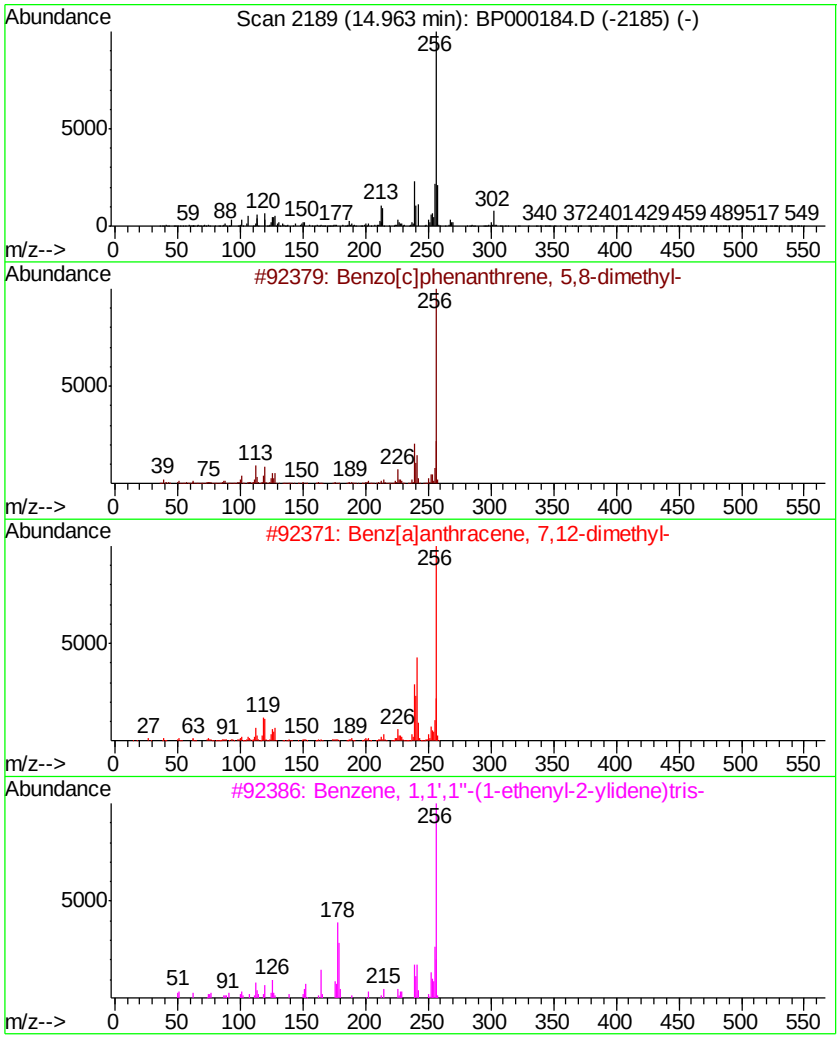
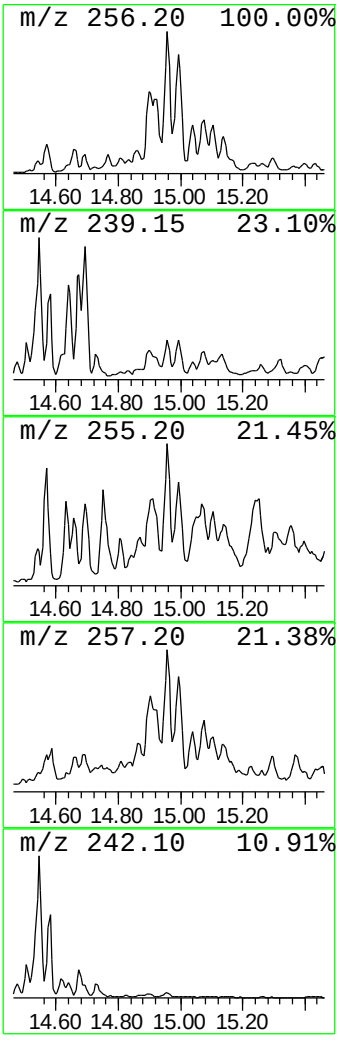
Peak Number 15 Benzo[c]phenanthrene, 5,8-d... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.96	2.84 ng/ul	484137	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	89
2	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	70
3	Benzene, 1,1',1''-(1-ethenyl-2-y...	256	C20H16	000058-72-0	70
4	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	64
5	Benzene, 1,1',1''-(1-ethenyl-2-y...	256	C20H16	000058-72-0	58





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Quant Title : SVOA CALIBRATION

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

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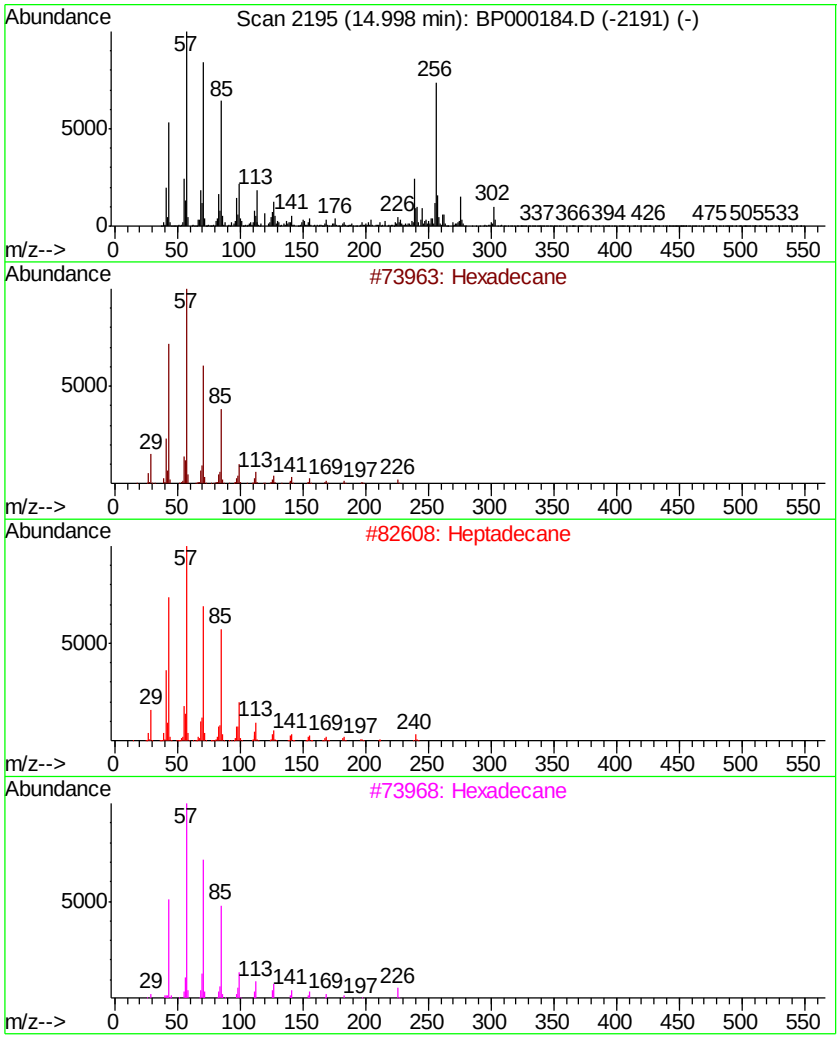
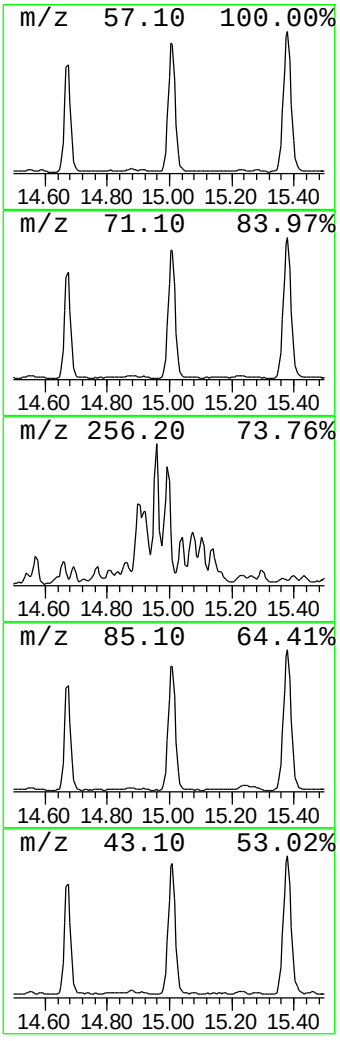
Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	13.77 ng/ul	2345990	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	95
2	Heptadecane	240	C17H36	000629-78-7	91
3	Hexadecane	226	C16H34	000544-76-3	90
4	Eicosane, 10-methyl-	296	C21H44	054833-23-7	89
5	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	83





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Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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

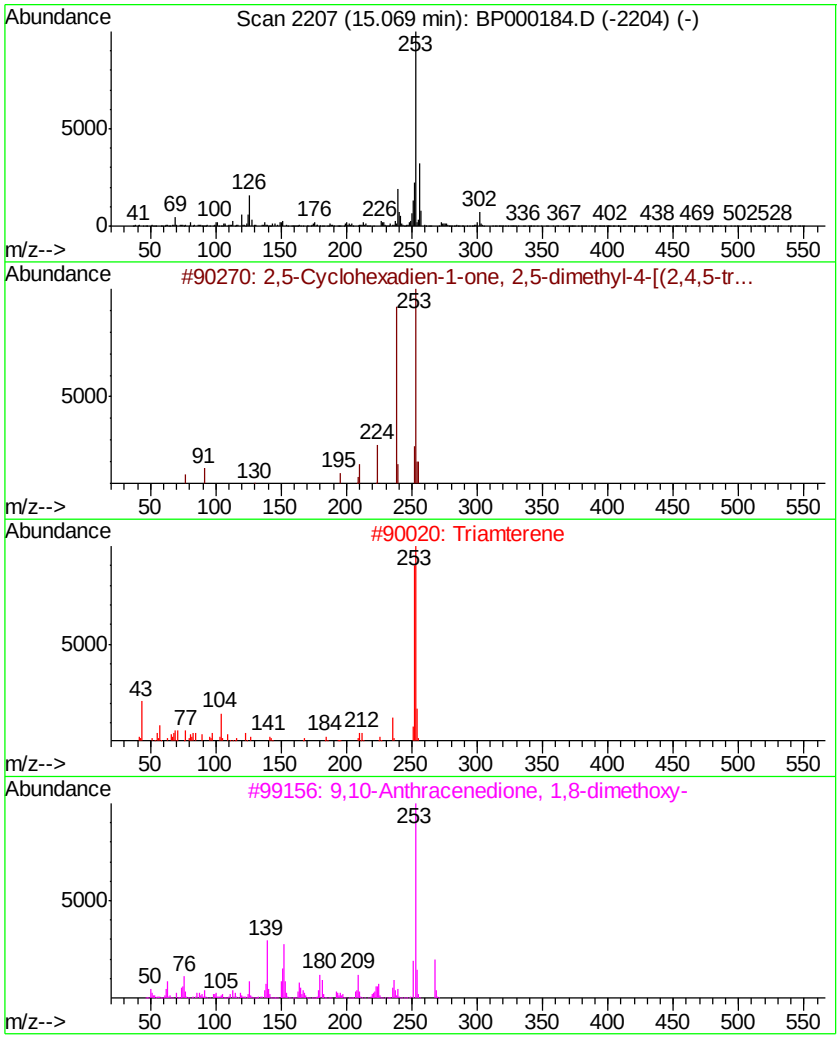
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

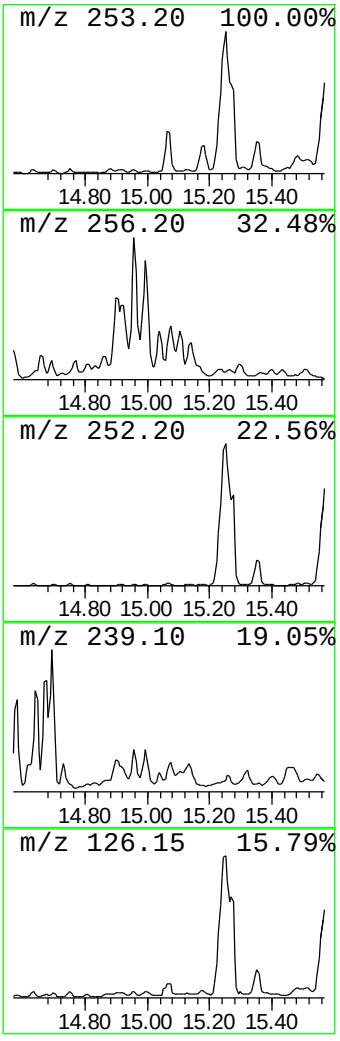
****

Peak Number 17 unknown-01 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	2.98 ng/ul	507113	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5-Cyclohexadien-1-one, 2,5-dim...	253	C17H19NO	054245-93-1	9
2	Triamterene	253	C12H11N7	000396-01-0	9
3	9,10-Anthracenedione, 1,8-dimeth...	268	C16H12O4	006407-55-2	9
4	Plumbane, trimethyl(1-methylprop...	310	C7H18Pb	054964-76-0	9
5	2,1,3-Oxadiborolane, 1,3,4,5,5-p...	460	C15H34B2OPb	161423-23-0	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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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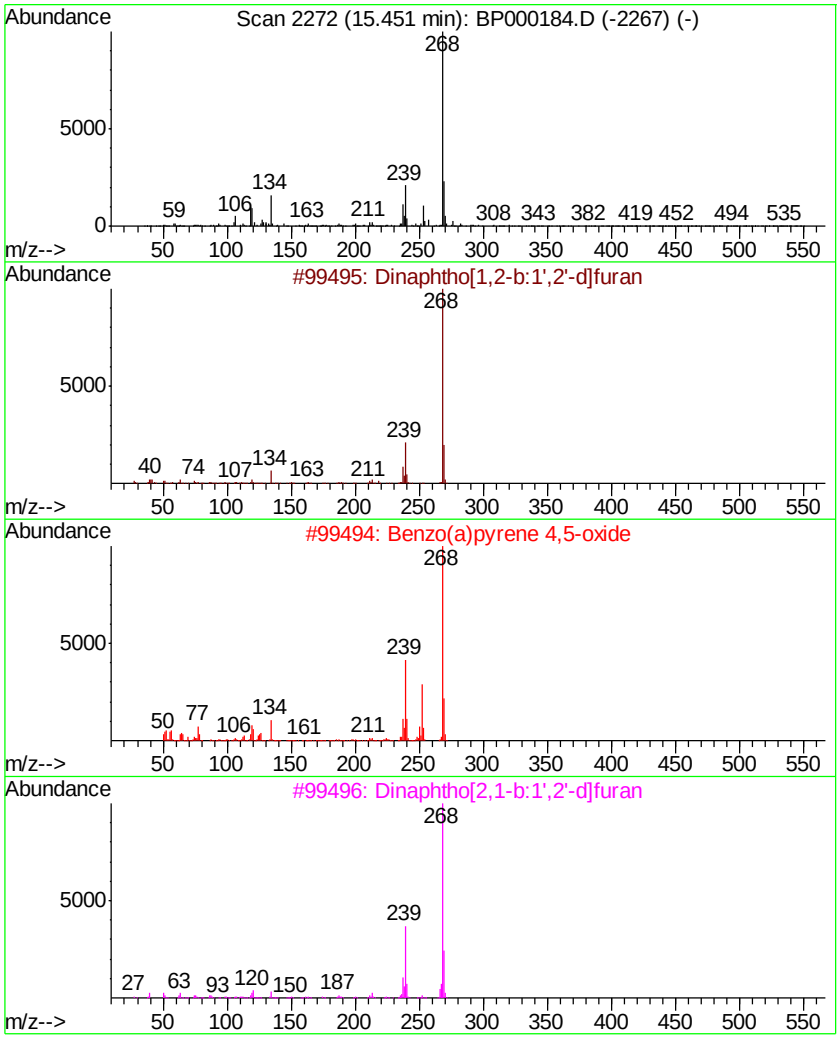
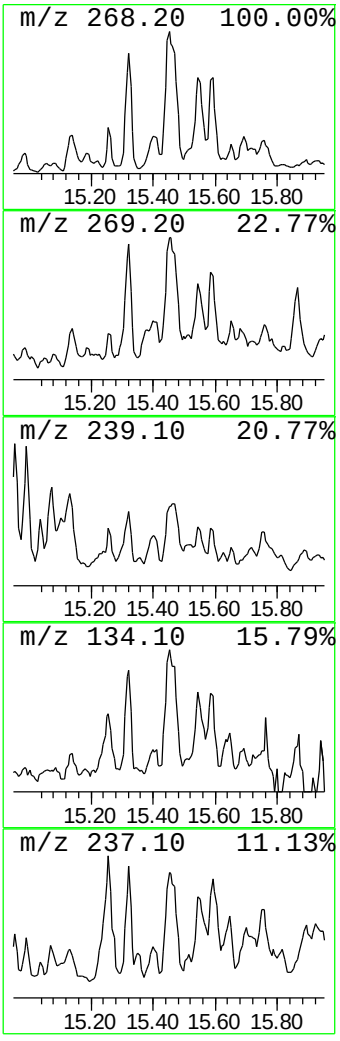
Peak Number 19 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.45	2.41 ng/ul	410644	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	74
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	72
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	68
4	9,10-Anthracenedione, 1,4-diamin...	268	C15H12N2O3	002872-48-2	58
5	9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	50





Library Search Compound Report

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Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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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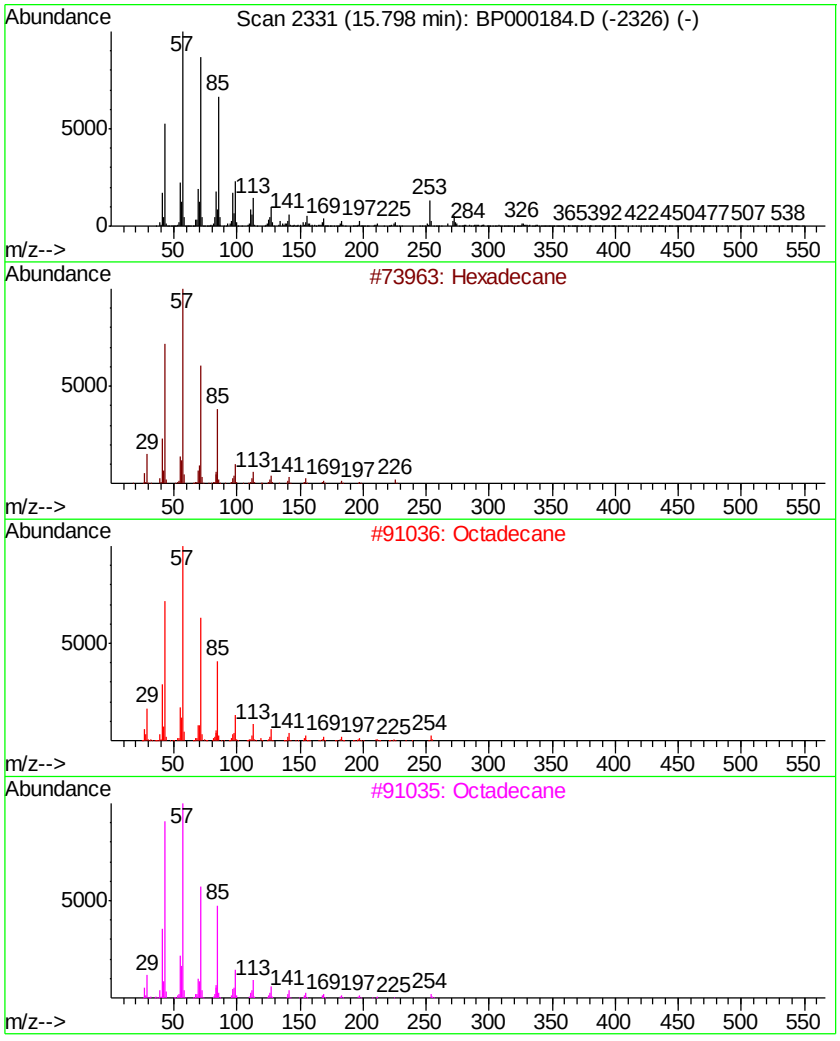
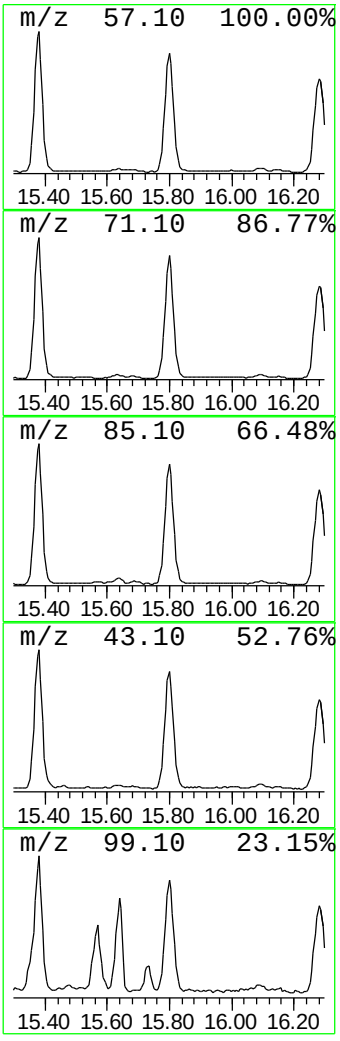
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.80	14.15 ng/ul	2411540	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	96
2	Octadecane	254	C18H38	000593-45-3	95
3	Octadecane	254	C18H38	000593-45-3	93
4	Octacosane	394	C28H58	000630-02-4	93
5	Heneicosane, 11-decyl-	437	C31H64	055320-06-4	91





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Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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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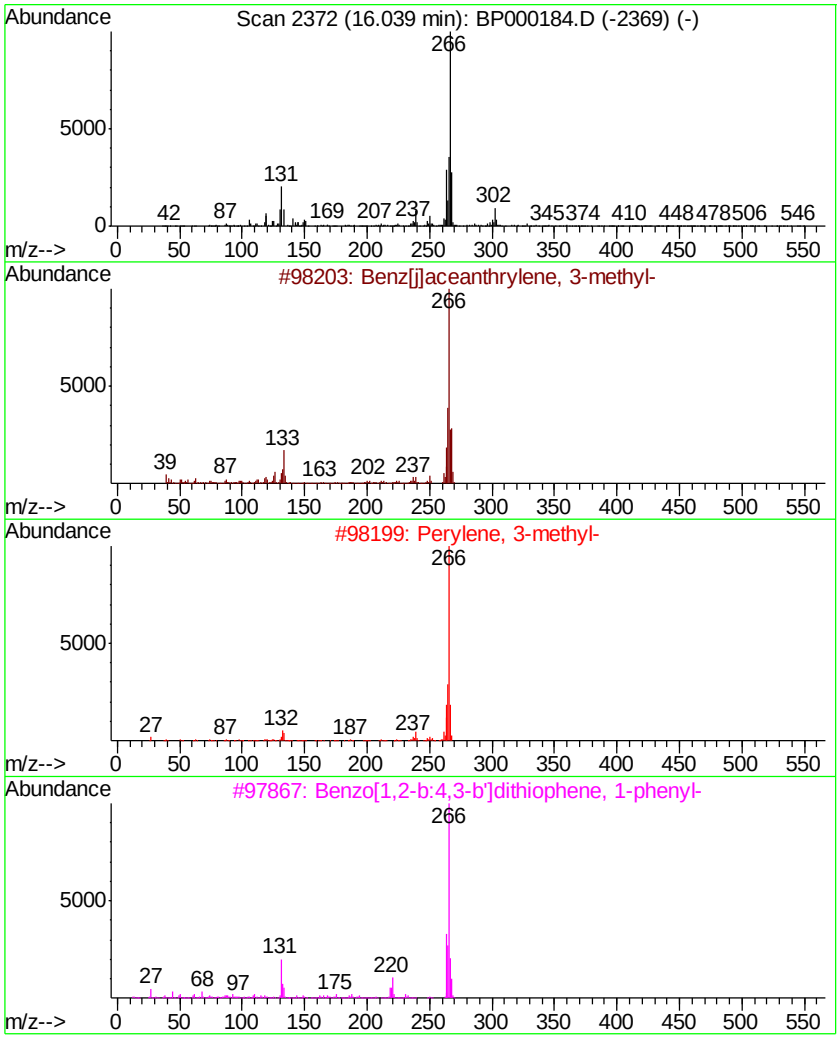
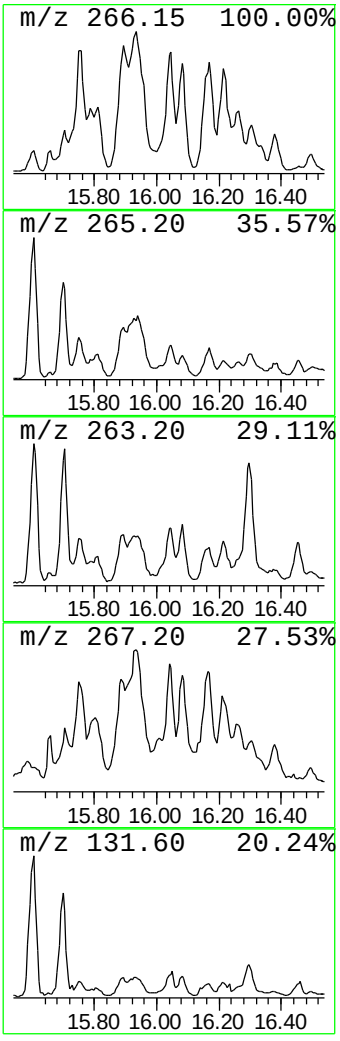
Peak Number 21 Benz[j]aceanthrylene, 3-met... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.04	2.92 ng/ul	498201	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	86
2	Perylene, 3-methyl-	266	C21H14	024471-47-4	64
3	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	58
4	trans-4'-Amino-4-(dimethylamino)...	266	C17H18N2O	1000234-51-4	50
5	Indole, 3-methyl-2-(4-methyl-3-n...	266	C16H14N2O2	311765-55-6	50





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Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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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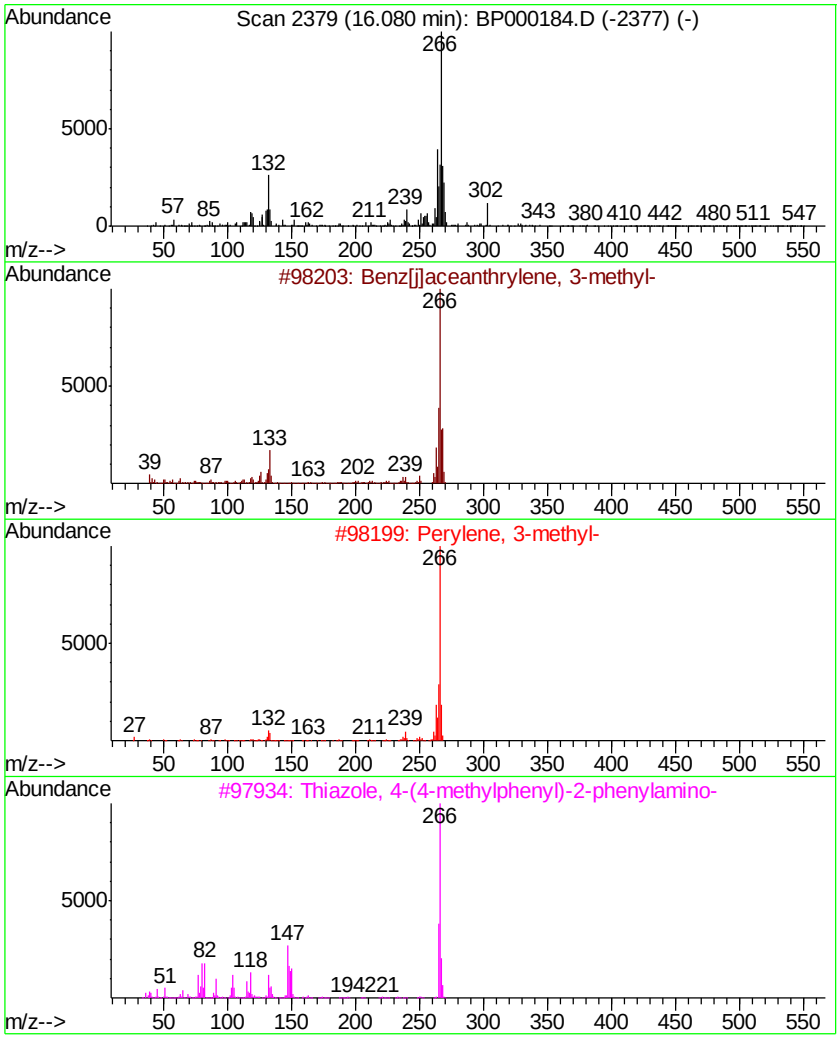
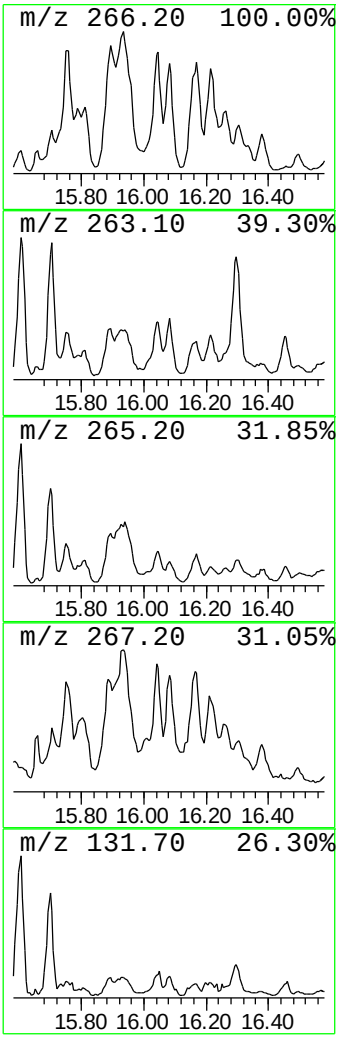
Peak Number 22 Perylene, 3-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.08	4.54 ng/ul	774355	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	78
2	Perylene, 3-methyl-	266	C21H14	024471-47-4	55
3	Thiazole, 4-(4-methylphenyl)-2-p...	266	C16H14N2S	093020-56-5	38
4	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	35
5	2-Isoxazoline-3-carboxamide, N,5...	266	C16H14N2O2	1000294-15-0	35





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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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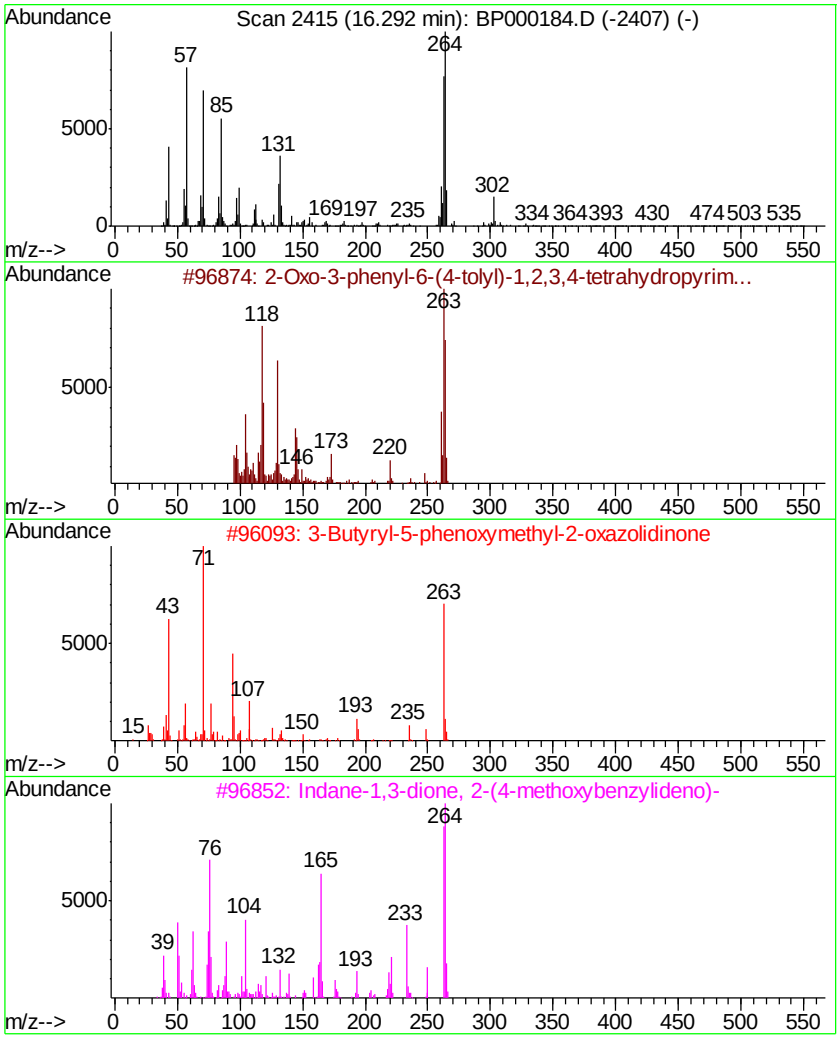
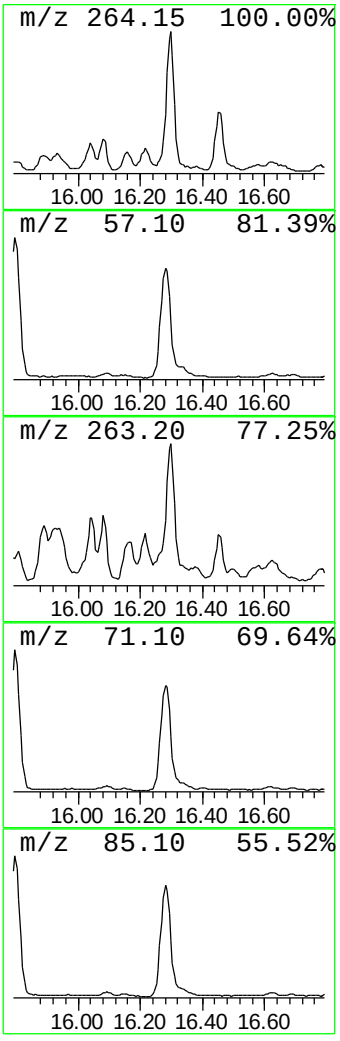
Peak Number 23 unknown-02 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.29	12.85 ng/ul	2189080	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Oxo-3-phenyl-6-(4-tolyl)-1,2,3...	264	C17H16N2O	1000070-55-1	43
2	3-Butyryl-5-phenoxymethyl-2-oxaz...	263	C14H17NO4	014789-96-9	25
3	Indane-1,3-dione, 2-(4-methoxybe...	264	C17H12O3	007421-76-3	14
4	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	9
5	1,6-Bis[trifluoromethyl]naphthalene	264	C12H6F6	064567-07-3	9





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Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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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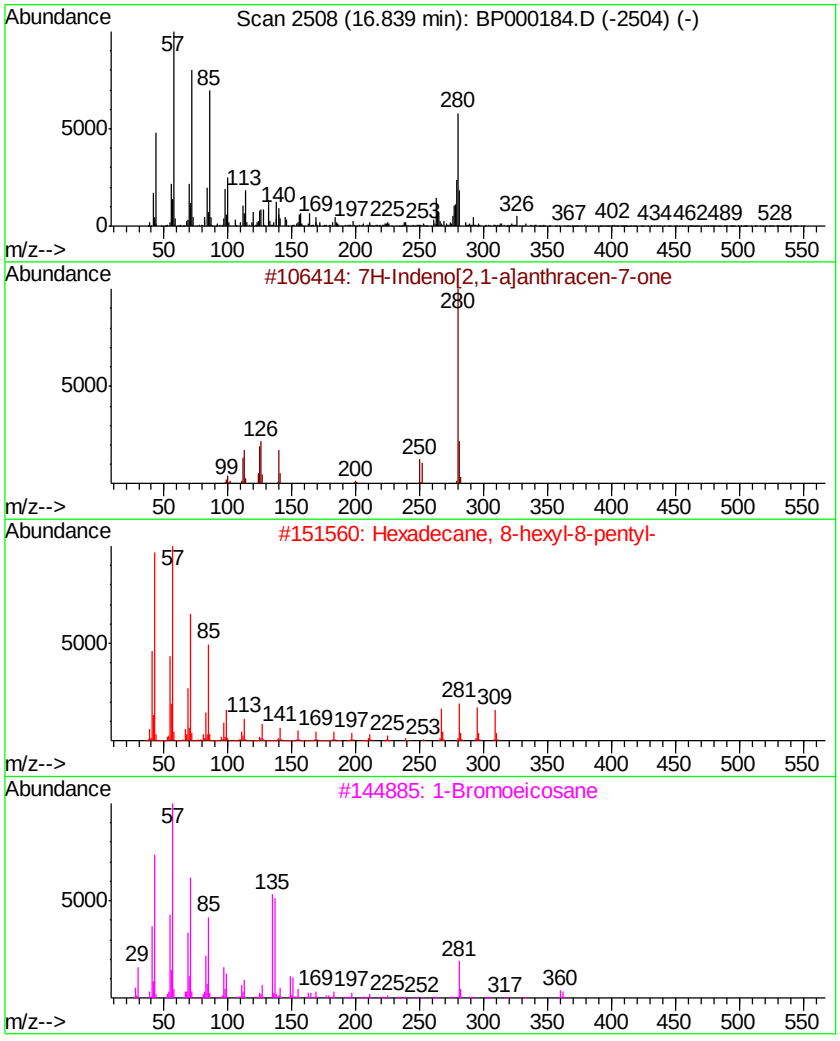
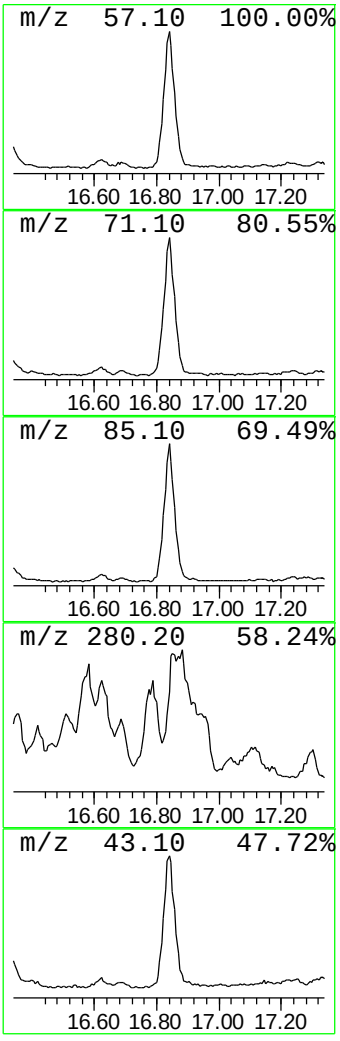
Peak Number 24 unknown-03 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.84	5.46 ng/ul	931259	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Indeno[2,1-a]anthracen-7-one	280	C21H12O	027582-45-2	42
2	Hexadecane, 8-hexyl-8-pentyl-	380	C27H56	055282-29-6	38
3	1-Bromoeicosane	360	C20H41Br	004276-49-7	38
4	Octadecane, 9-ethyl-9-heptyl-	380	C27H56	055282-27-4	37
5	1H-Indene, 1-(diphenylmethylene)-	280	C22H16	013245-90-4	20





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\
Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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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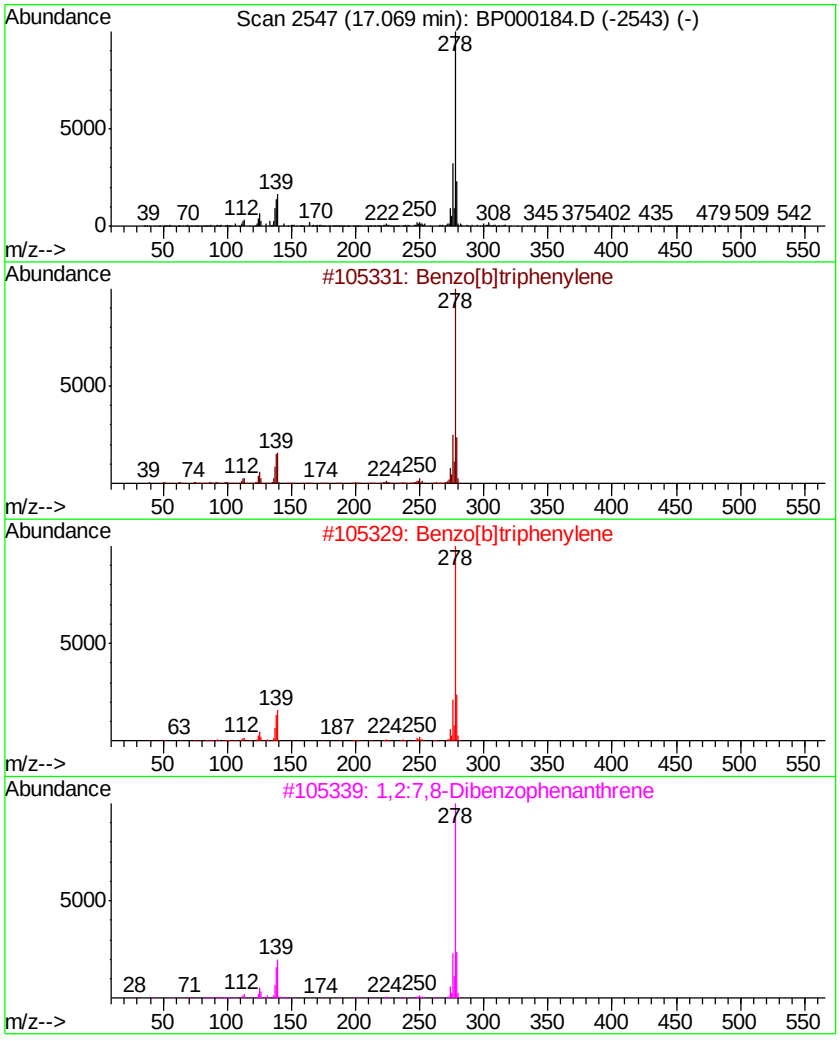
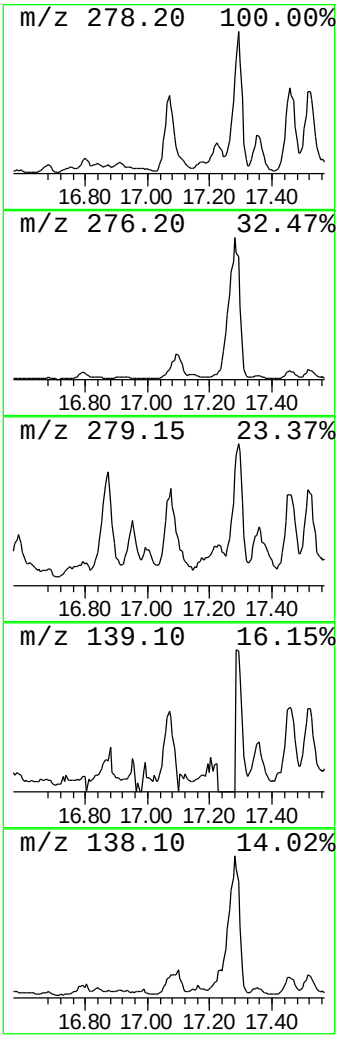
Peak Number 25 Benzo[b]triphenylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.07	7.93 ng/ul	1350570	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	95
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	91
5	Pentaphene	278	C22H14	000222-93-5	91





Library Search Compound Report

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Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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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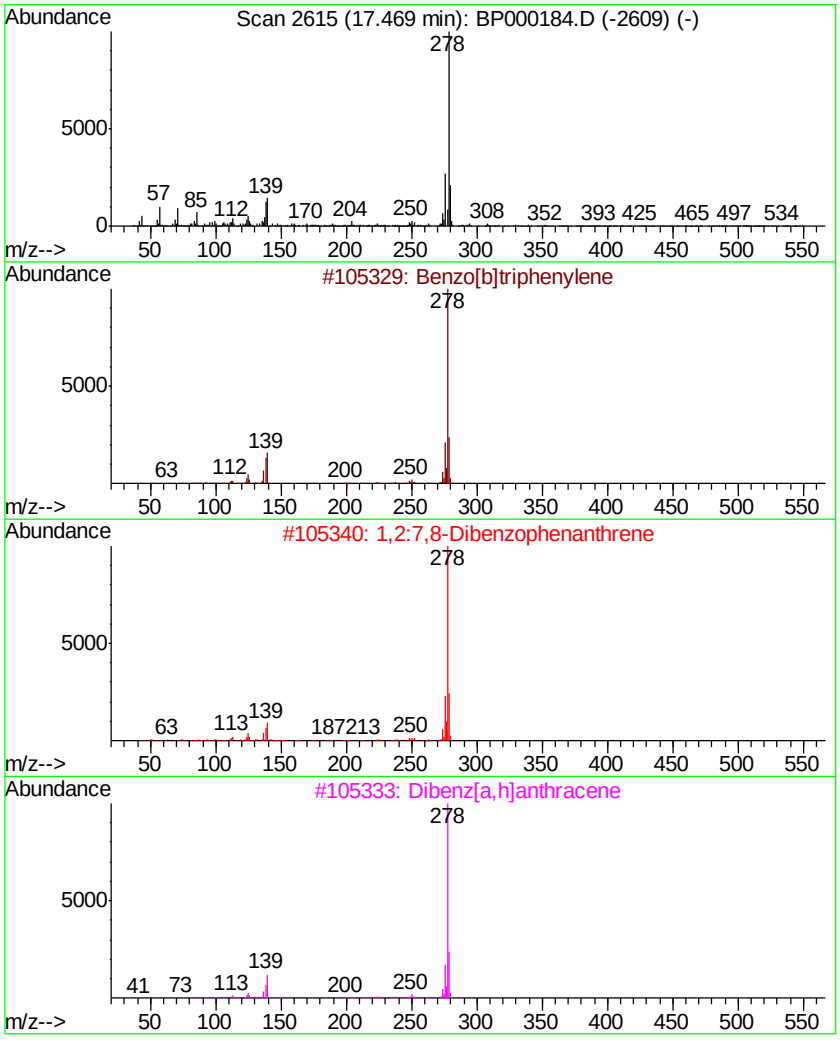
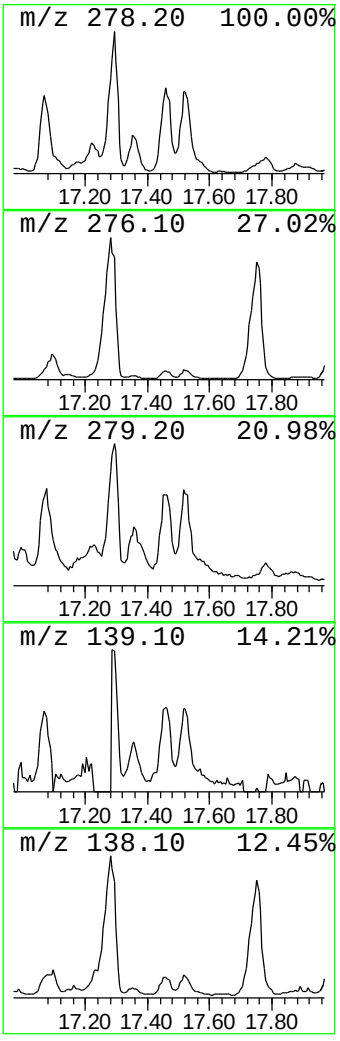
Peak Number 26 1,2:7,8-Dibenzophenanthrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.47	6.27 ng/ul	1068080	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	97
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
4	Benzo[b]chrysene	278	C22H14	000214-17-5	97
5	Pentaphene	278	C22H14	000222-93-5	97





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP091019\
Data File : BP000184.D
Acq On : 10 Sep 2019 23:03
Operator : HP/JU
Sample : K4633-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D03

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	143.0	ng/ul	18322900	1	6.89	2563370	20.0
Phenanthrene, 2-m...	11.96	3.7	ng/ul	821822	4	11.45	4494280	20.0
Phenanthrene, 1-m...	11.99	10.5	ng/ul	2367130	4	11.45	4494280	20.0
4H-Cyclopenta[def...	12.07	6.8	ng/ul	1537240	4	11.45	4494280	20.0
2-Phenylnaphthalene	12.26	2.5	ng/ul	563696	4	11.45	4494280	20.0
9,10-Anthracenedione	12.28	2.3	ng/ul	521123	4	11.45	4494280	20.0
Phenanthrene, 2,5...	12.52	2.4	ng/ul	535889	4	11.45	4494280	20.0
Fluoranthene, 2-m...	13.25	3.3	ng/ul	2198320	5	14.15	13351000	20.0
11H-Benzo[a]fluorene	13.32	2.3	ng/ul	1560360	5	14.15	13351000	20.0
Pyrene, 1-methyl-	13.36	2.7	ng/ul	1777050	5	14.15	13351000	20.0
11H-Benzo[a]fluor...	13.77	2.4	ng/ul	1570400	5	14.15	13351000	20.0
Benzo[b]naphtho[2...	13.89	3.7	ng/ul	2450690	5	14.15	13351000	20.0
Chrysene, 1-methyl-	14.55	3.4	ng/ul	2272390	5	14.15	13351000	20.0
Chrysene, 6-methyl-	14.67	2.5	ng/ul	1696390	5	14.15	13351000	20.0
Benzo[c]phenanthr...	14.96	2.8	ng/ul	484137	6	15.70	3408200	20.0
(DEL) Alkane: Str...	15.00	13.8	ng/ul	2345990	6	15.70	3408200	20.0
unknown-01	15.07	3.0	ng/ul	507113	6	15.70	3408200	20.0
Dinaphtho[1,2-b:1...	15.45	2.4	ng/ul	410644	6	15.70	3408200	20.0
(DEL) Alkane: Str...	15.80	14.2	ng/ul	2411540	6	15.70	3408200	20.0
Benz[j]aceanthryl...	16.04	2.9	ng/ul	498201	6	15.70	3408200	20.0
Perylene, 3-methyl-	16.08	4.5	ng/ul	774355	6	15.70	3408200	20.0
unknown-02	16.29	12.9	ng/ul	2189080	6	15.70	3408200	20.0
unknown-03	16.84	5.5	ng/ul	931259	6	15.70	3408200	20.0
Benzo[b]triphenylene	17.07	7.9	ng/ul	1350570	6	15.70	3408200	20.0
1,2:7,8-Dibenzoph...	17.47	6.3	ng/ul	1068080	6	15.70	3408200	20.0