LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090716\
Data File : BM007453.D
Acq On : 07 Sep 2016 23:42
Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.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	5.457	483	488	496	rBV	77722	141950	1.49%	0.099%
2	5.822	544	550	560	rVB	125606	209396	2.20%	0.147%
3	6.963	735	744	759	rBV	866835	1666333	17.51%	1.168%
4	7.128	765	772	778	rBV	613858	926715	9.74%	0.649%
5	7.328	800	806	814	rVB	854382	1381642	14.52%	0.968%
6	7.792	875	885	894	rBV	1055027	1818541	19.11%	1.274%
7	8.492	998	1004	1012	rVV	1072461	1791216	18.82%	1.255%
8	8.945	1074	1081	1087	rVV	838597	1457548	15.32%	1.021%
9	9.663	1195	1203	1214	rBV	776375	1385241	14.56%	0.971%
10	10.198	1288	1294	1303	rVB	1233502	2137771	22.46%	1.498%
11	10.575	1348	1358	1363	rBV	1629620	3056966	32.12%	2.142%
12	10.628	1363	1367	1374	rVB	466183	773861	8.13%	0.542%
13	10.722	1374	1383	1393	rBV2	305016	690572	7.26%	0.484%
14	11.592	1526	1531	1537	rBV	169403	266558	2.80%	0.187%
15	11.992	1594	1599	1608	rBV	171001	256817	2.70%	0.180%
16	12.239	1634	1641	1648	rVB	597542	1033746	10.86%	0.724%
17	12.457	1672	1678	1686	rBV	427520	696069	7.31%	0.488%
18	12.692	1710	1718	1726	rBV5	60633	155642	1.64%	0.109%
19	12.951	1759	1762	1768	rVB	126005	180175	1.89%	0.126%
20	13.245	1805	1812	1819	rBV2	386748	700444	7.36%	0.491%
21	13.316	1819	1824	1835	rVB6	81862	207323	2.18%	0.145%
22	13.580	1864	1869	1871	rBV	179881	288597	3.03%	0.202%
23	13.739	1891	1896	1901	rVV	369532	666804	7.01%	0.467%
24	13.798	1901	1906	1908	rVV	344331	555892	5.84%	0.390%
25	13.833	1908	1912	1916	rVV	2527731	3476614	36.53%	2.437%
26	13.880	1916	1920	1928	rVB	1555370	2340215	24.59%	1.640%
27	13.980	1933	1937	1940	rVV	224810	342714	3.60%	0.240%
28	14.116	1954	1960	1973	rVB	2669001	4395124	46.18%	3.080%
29	14.316	1990	1994	2003	rVB	353400	470533	4.94%	0.330%
30	14.427	2003	2013	2019	rBV2	2649233	4652843	48.89%	3.261%
31	14.510	2024	2027	2031	rVB2	123126	171139	1.80%	0.120%
32	14.633	2041	2048	2056	rBV	953832	1671669	17.57%	1.172%
33	14.721	2056	2063	2068	rVV4	108086	210814	2.22%	0.148%
34	14.821	2075	2080	2087	rVB	841433	1305314	13.72%	0.915%

LSC Area Percent Report

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Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Title : SVOA CALIBRATION

35	14.898	2087	2093	2097	rVV	169437	249595	2.62%	0.175%
36	14.939	2097	2100	2109	rVB7	84177	165950	1.74%	0.116%
37	15.039	2113	2117	2122	rVV2	160571	254505	2.67%	0.178%
38	15.092	2122	2126	2131	rVB	177734	228412	2.40%	0.160%
39	15.210	2140	2146	2150	rBV4	236414	397113	4.17%	0.278%
40	15.268	2153	2156	2162	rVB	475217	608224	6.39%	0.426%
41	15.351	2164	2170	2173	rBV4	93676	185031	1.94%	0.130%
42	15.416	2174	2181	2186	rVV	3473633	5224901	54.90%	3.662%
43	15.463	2186	2189	2193	rVB2	258452	327541	3.44%	0.230%
44	15.510	2193	2197	2198	rBV2	120409	147626	1.55%	0.103%
45	15.545	2198	2203	2209	rVB	1099265	1486378	15.62%	1.042%
46	15.680	2220	2226	2233	rVB4	229306	489883	5.15%	0.343%
47	15.768	2234	2241	2247	rVB	386107	673601	7.08%	0.472%
48	15.915	2258	2266	2273	rVB	368932	895881	9.41%	0.628%
49	16.004	2274	2281	2288	rVB2	174627	407809	4.29%	0.286%
50	16.080	2288	2294	2298	rBV8	66147	156180	1.64%	0.109%
51	16.133	2298	2303	2305	rBV	723975	1063226	11.17%	0.745%
52	16.480	2359	2362	2366	rVB4	115449	163460	1.72%	0.115%
53	16.633	2384	2388	2392	rVB3	105716	148759	1.56%	0.104%
54	16.704	2395	2400	2404	rBV2	294988	556982	5.85%	0.390%
55	16.745	2404	2407	2410	rVB2	141324	190259	2.00%	0.133%
56	16.827	2416	2421	2427	rBV	923435	1386026	14.56%	0.971%
57	16.927	2429	2438	2444	rVV2	1428736	2653690	27.88%	1.860%
58	16.986	2444	2448	2457	rVB4	334014	708391	7.44%	0.496%
59	17.168	2473	2479	2483	rBV2	3612823	5498405	57.78%	3.853%
60	17.210	2483	2486	2491	rVB	2390727	3236119	34.00%	2.268%
61	17.268	2491	2496	2500	rBV2	3931115	5728555	60.20%	4.015%
62	17.351	2506	2510	2515	rBV3	155365	270225	2.84%	0.189%
63	17.451	2523	2527	2528	rBV3	147965	193430	2.03%	0.136%
64	17.480	2529	2532	2538	rVB2	359267	514971	5.41%	0.361%
65	17.574	2541	2548	2552	rBV	287704	586291	6.16%	0.411%
66	17.657	2559	2562	2566	rVB	555657	598757	6.29%	0.420%
67	17.751	2574	2578	2587	rVB	398838	651604	6.85%	0.457%
68	18.004	2617	2621	2624	rBV	380194	517496	5.44%	0.363%
69	18.062	2624	2631	2633	rVV2	969950	2164919	22.75%	1.517%
70	18.086	2633	2635	2641	rVB	1330279	1772548	18.63%	1.242%
71	18.227	2655	2659	2664	rBV2	603546	908490	9.55%	0.637%

LSC Area Percent Report

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Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Title : SVOA CALIBRATION

72	18.274	2664	2667	2673	rVB	493774	664523	6.98%	0.466%
73	18.351	2676	2680	2684	rBV2	735521	988933	10.39%	0.693%
74	18.398	2684	2688	2691	rVV5	180549	262847	2.76%	0.184%
75	18.433	2691	2694	2699	rVB2	275991	391248	4.11%	0.274%
76	18.545	2708	2713	2717	rBV	936010	1399048	14.70%	0.980%
77	18.586	2717	2720	2731	rVB2	921033	1437376	15.10%	1.007%
78	18.792	2751	2755	2760	rBV4	289864	409472	4.30%	0.287%
79	18.839	2760	2763	2767	rVV	339899	459756	4.83%	0.322%
80	18.880	2767	2770	2773	rVB	400021	459372	4.83%	0.322%
81	18.980	2780	2787	2791	rBV3	919862	2125911	22.34%	1.490%
82	19.056	2796	2800	2804	rVB	357490	431704	4.54%	0.303%
83	19.104	2804	2808	2814	rBV2	709784	1097467	11.53%	0.769%
84	19.227	2824	2829	2835	rVB	3377317	4790240	50.34%	3.357%
85	19.286	2835	2839	2843	rBV	510387	756709	7.95%	0.530%
86	19.327	2843	2846	2851	rVB2	235115	383608	4.03%	0.269%
87	19.562	2881	2886	2889	rBV2	5720938	8443648	88.72%	5.918%
88	19.592	2889	2891	2899	rVB	1964596	2514134	26.42%	1.762%
89	19.662	2899	2903	2909	rVB2	597763	946143	9.94%	0.663%
90	19.903	2940	2944	2947	rBV2	556559	921483	9.68%	0.646%
91	20.039	2964	2967	2970	rBV4	401278	655496	6.89%	0.459%
92	20.386	3023	3026	3029	rBV2	378410	545947	5.74%	0.383%
93	20.592	3058	3061	3065	rBV2	639194	749171	7.87%	0.525%
94	20.833	3098	3102	3108	rBV	1198847	1656238	17.40%	1.161%
95	21.056	3136	3140	3148	rVB3	1288991	2407459	25.30%	1.687%
96	21.350	3184	3190	3194	rBV3	5145964	9516651	100.00%	6.670%
97	22.944	3456	3461	3466	rBV	2355398	4281115	44.99%	3.000%
98	23.427	3539	3543	3547	rBV	1185591	2068139	21.73%	1.449%
99	23.480	3547	3552	3557	rVB2	2756140	4755044	49.97%	3.332%
100	23.627	3571	3577	3583	rVB	2384529	4274451	44.92%	2.996%

Sum of corrected areas: 142687364

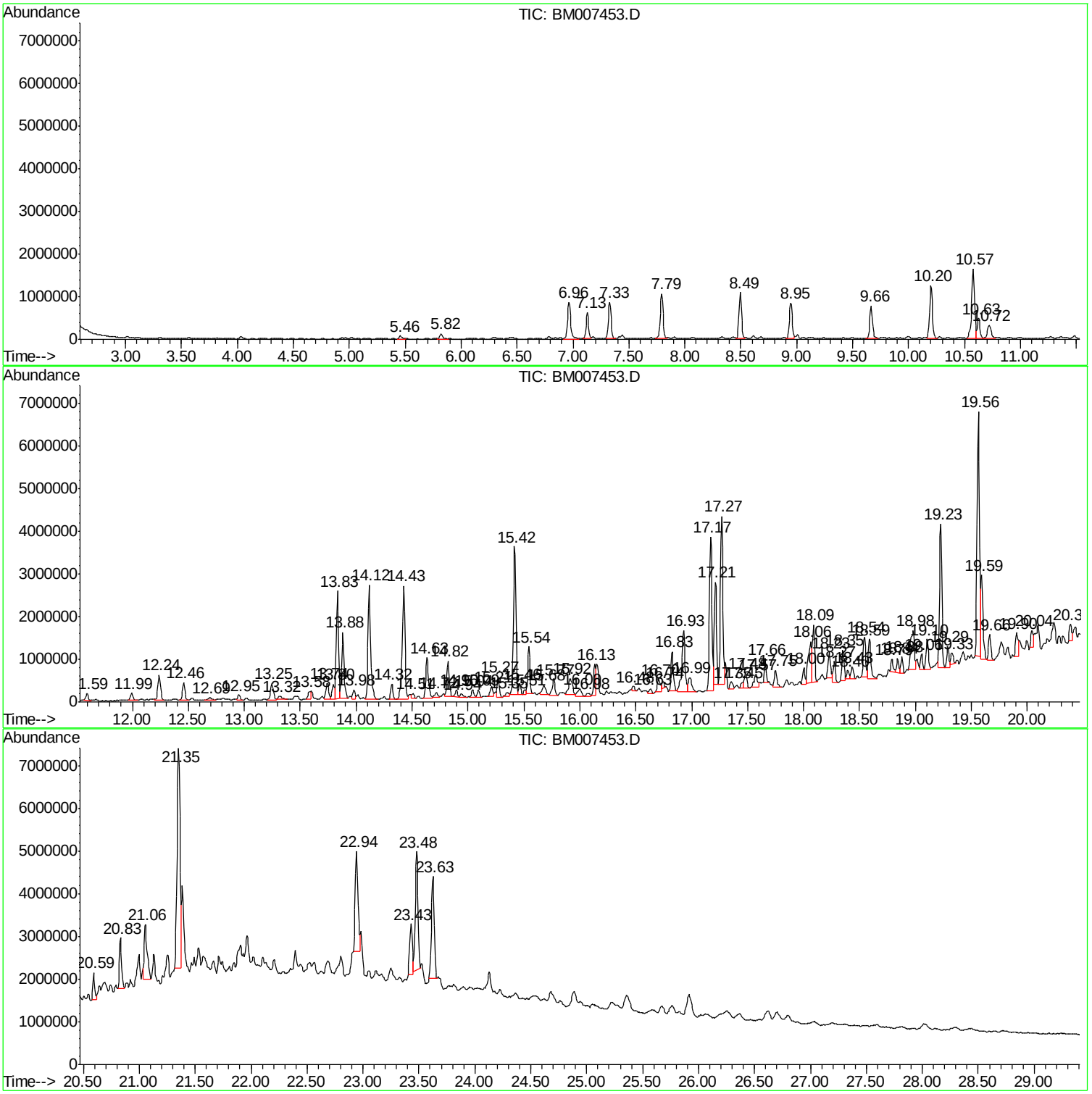
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090716\
Data File : BM007453.D
Acq On : 07 Sep 2016 23:42
Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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



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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

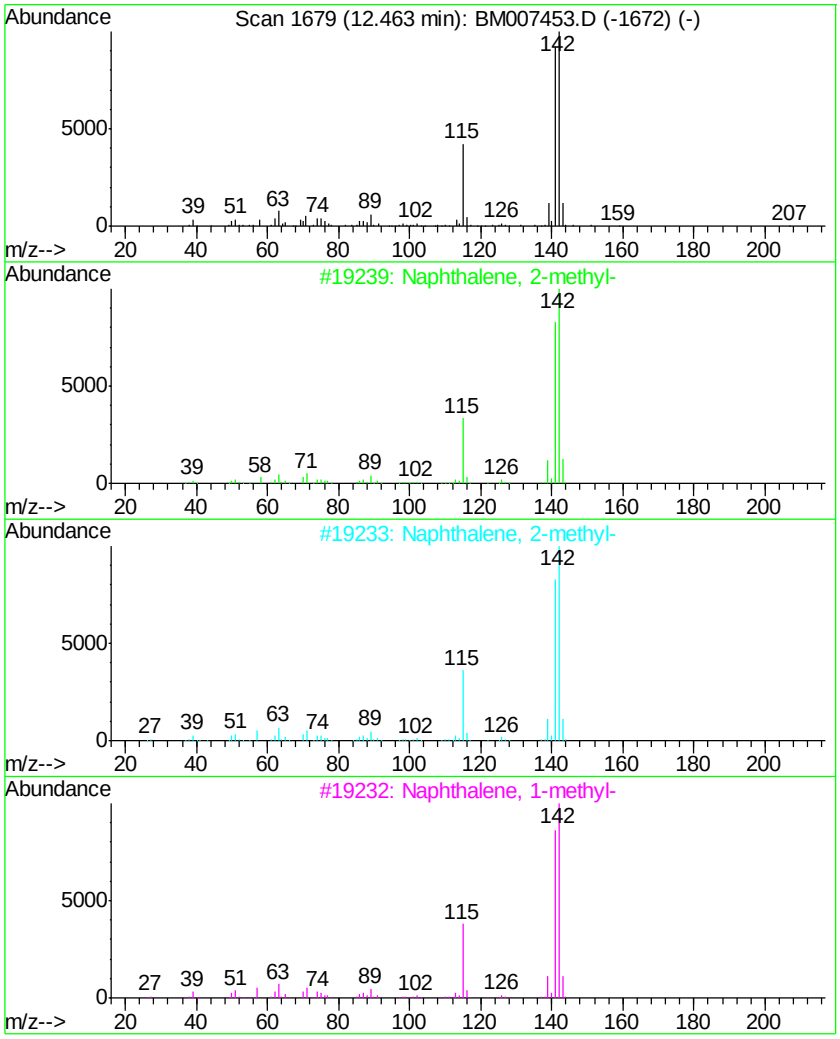
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

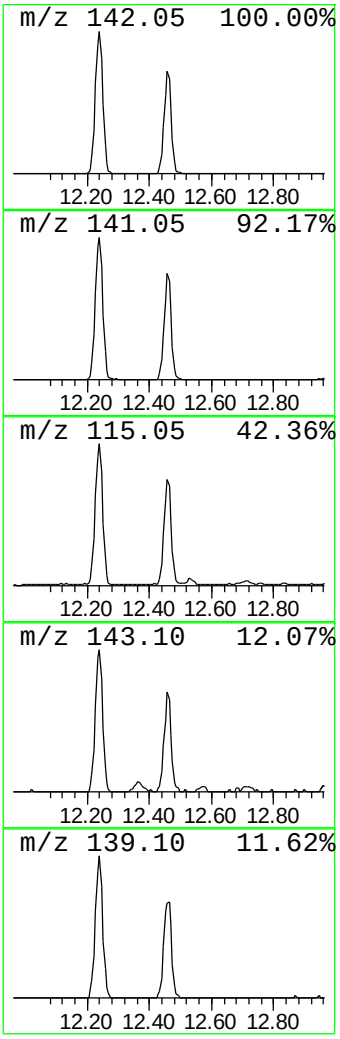
****

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	4.55 ng/ul	696069	Naphthalene-d8	10.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090716\
Data File : BM007453.D
Acq On : 07 Sep 2016 23:42
Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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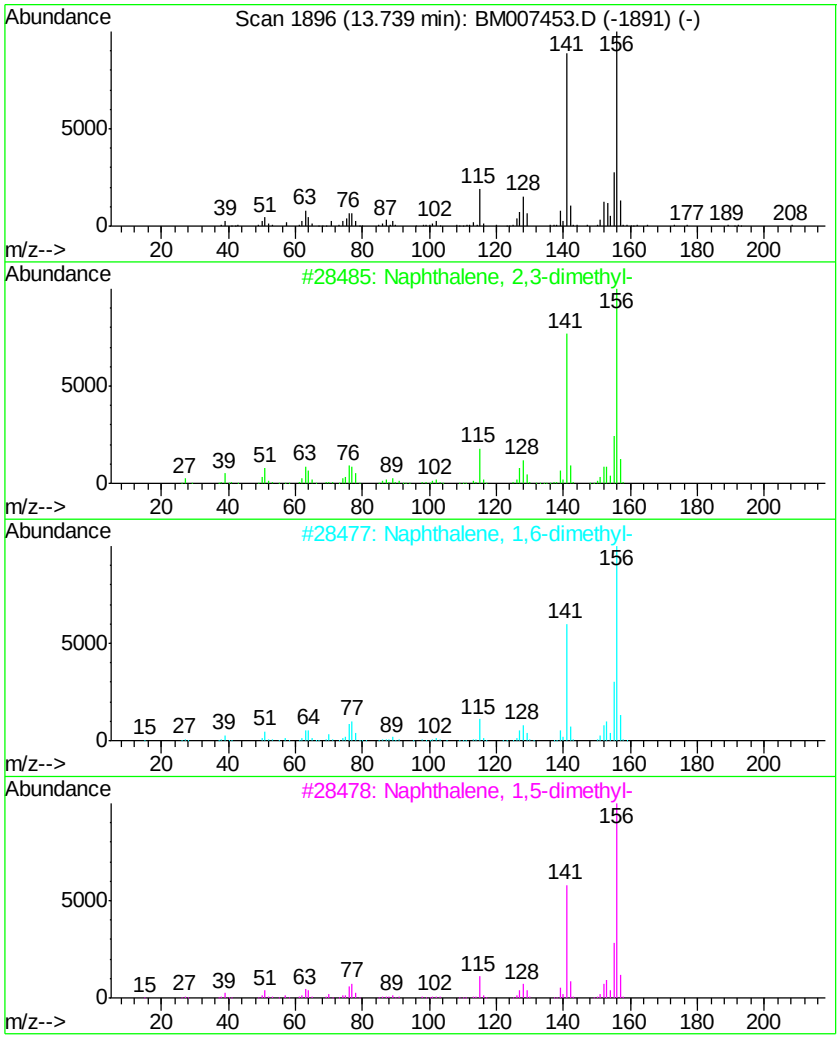
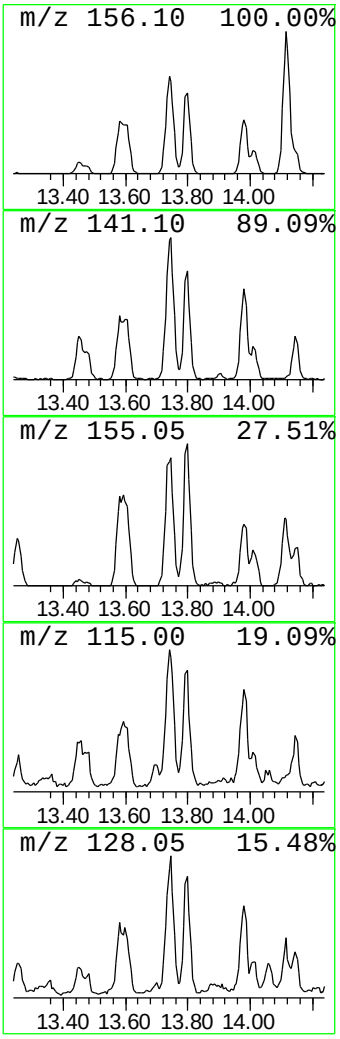
Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.74	2.87 ng/ul	666804	Acenaphthene-d10	14.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97





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Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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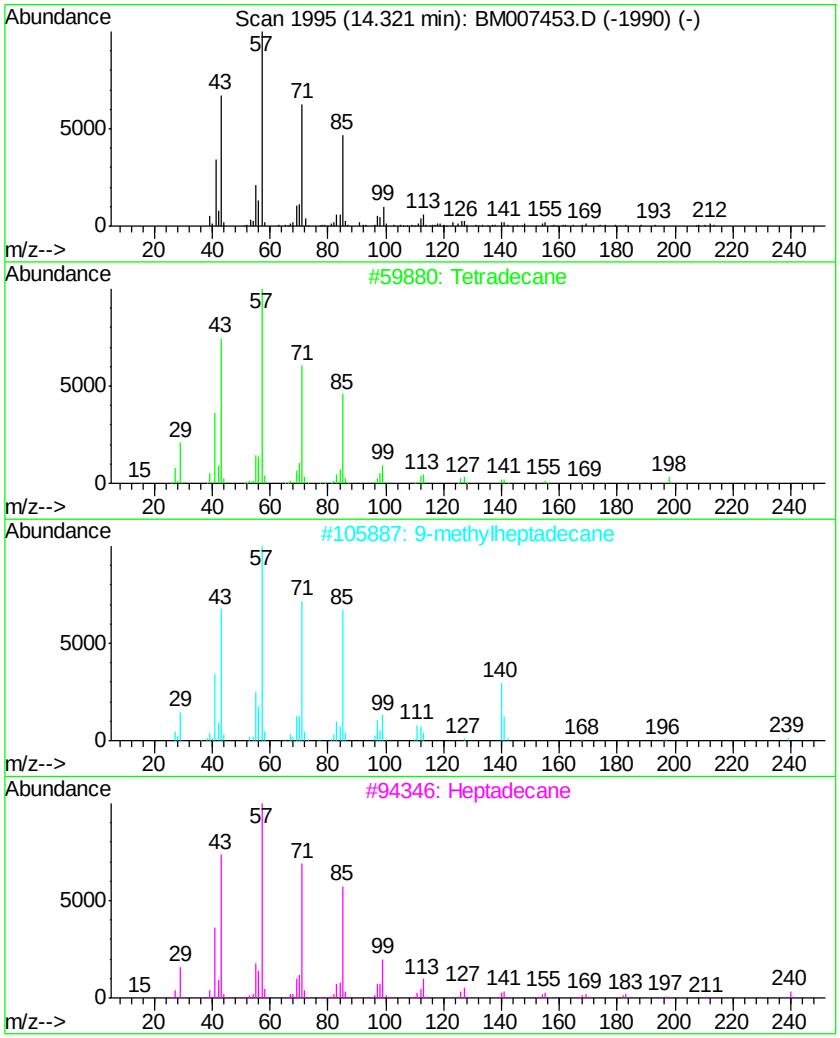
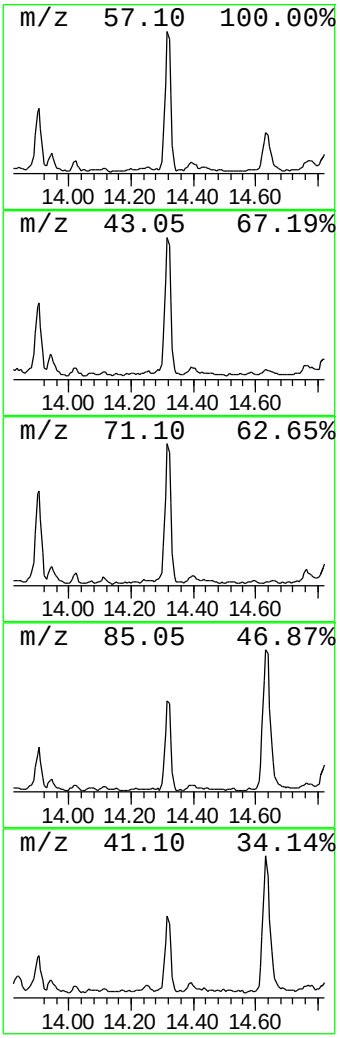
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.32	2.02 ng/ul	470533	Acenaphthene-d10	14.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	91
2	9-methylheptadecane	254	C18H38	026741-18-4	90
3	Heptadecane	240	C17H36	000629-78-7	83
4	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	80
5	Tridecane	184	C13H28	000629-50-5	72





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Acq On : 07 Sep 2016 23:42
Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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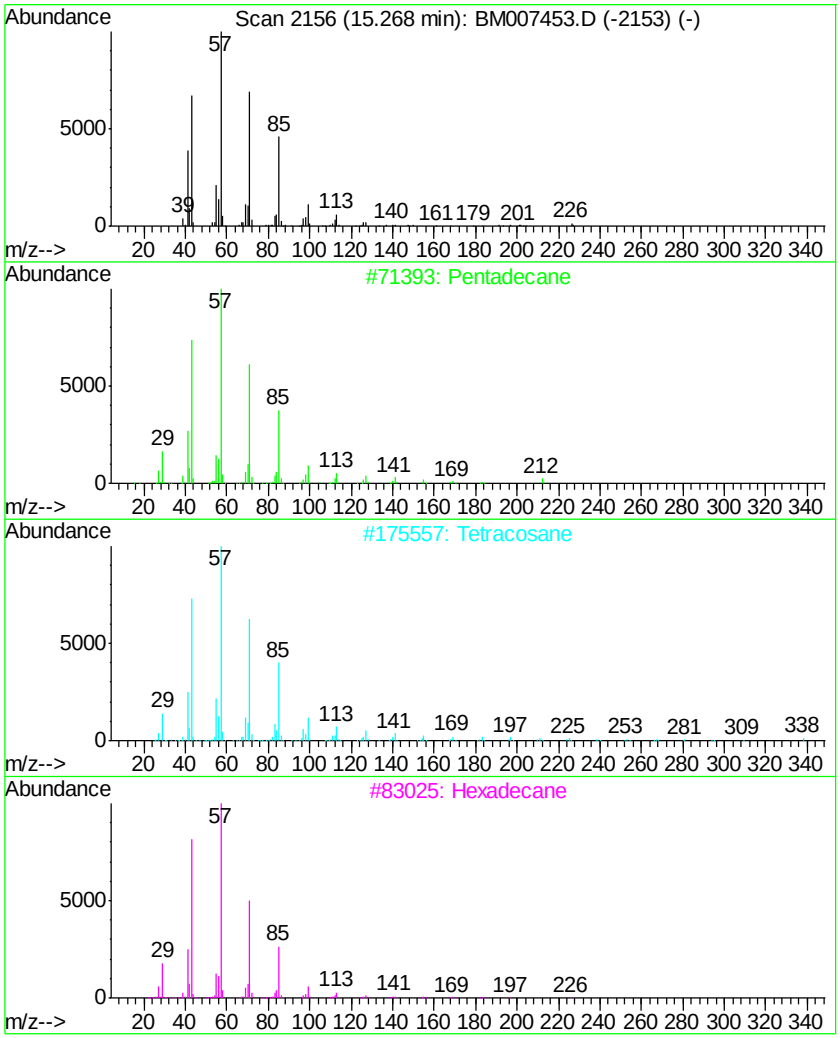
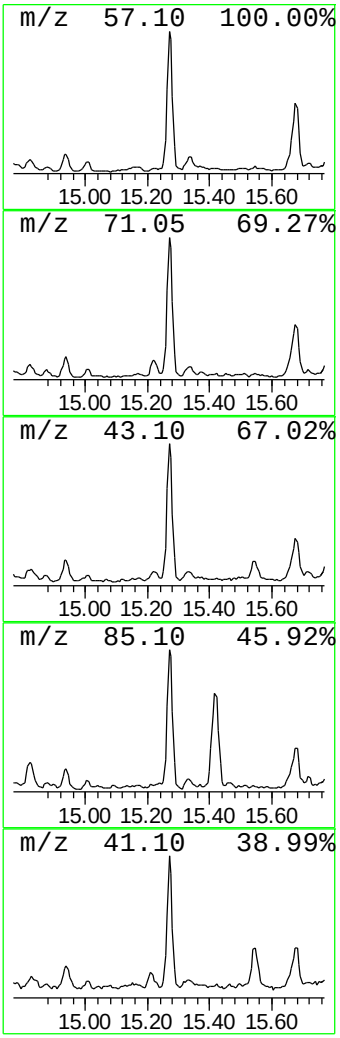
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.27	2.61 ng/ul	608224	Acenaphthene-d10	14.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	90
2	Tetracosane	338	C24H50	000646-31-1	90
3	Hexadecane	226	C16H34	000544-76-3	87
4	Pentadecane	212	C15H32	000629-62-9	86
5	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	86





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090716\
Data File : BM007453.D
Acq On : 07 Sep 2016 23:42
Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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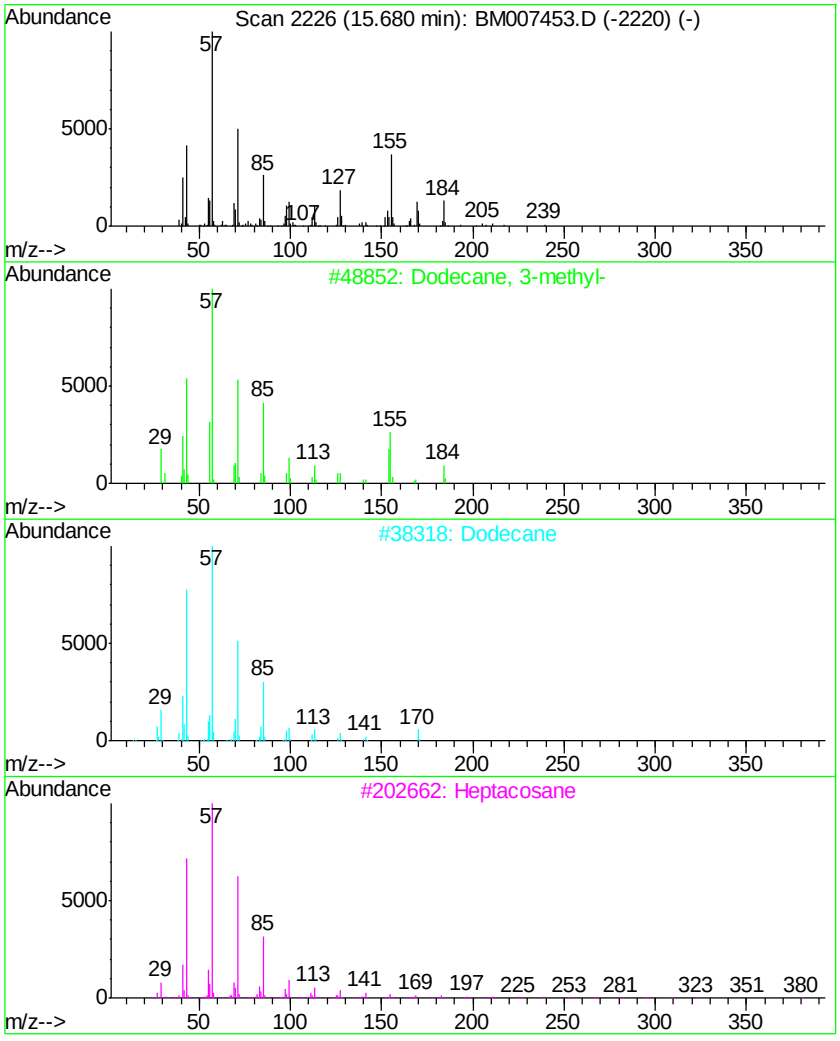
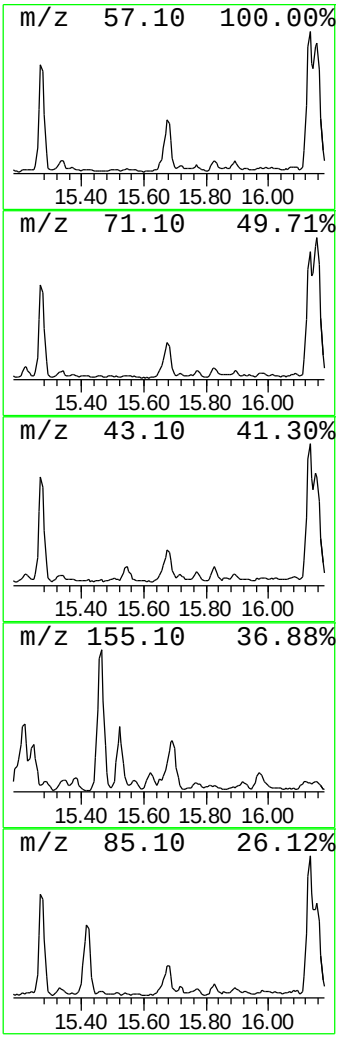
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.68	2.11 ng/ul	489883	Acenaphthene-d10	14.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 3-methyl-	184	C13H28	017312-57-1	81
2	Dodecane	170	C12H26	000112-40-3	58
3	Heptacosane	380	C27H56	000593-49-7	53
4	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	50
5	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	49





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Acq On : 07 Sep 2016 23:42
Operator : UM/SJ
Sample : H4666-14
Misc :
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ClientSampleId : BD3A9

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Quant Title : SVOA CALIBRATION

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

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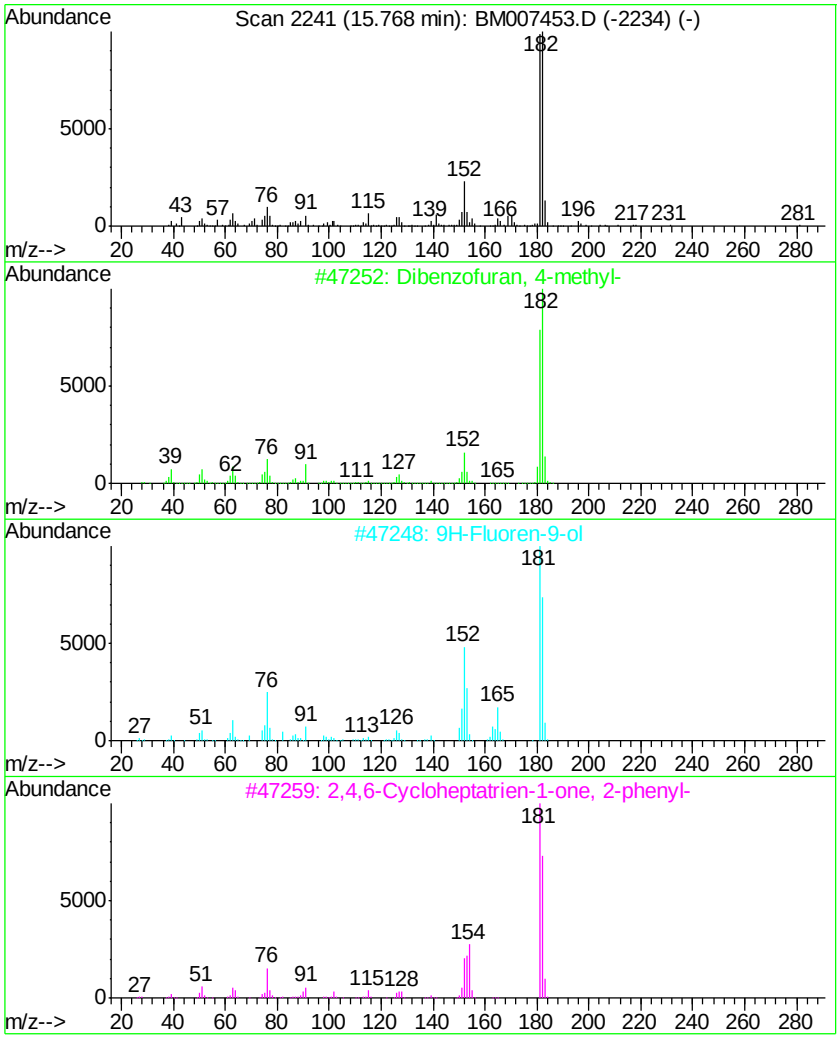
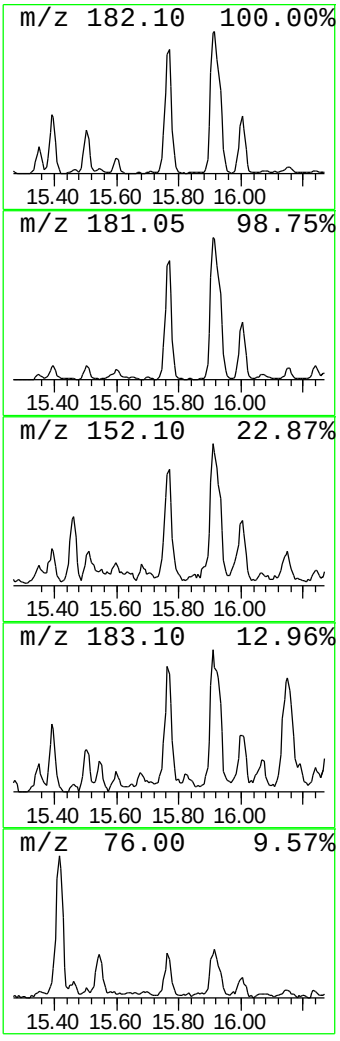
Peak Number 7 Dibenzofuran, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.77	2.90 ng/ul	673601	Acenaphthene-d10	14.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	80
4	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	80
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78





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Instrument : BNA_M
ClientSampleId : BD3A9

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Quant Title : SVOA CALIBRATION

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

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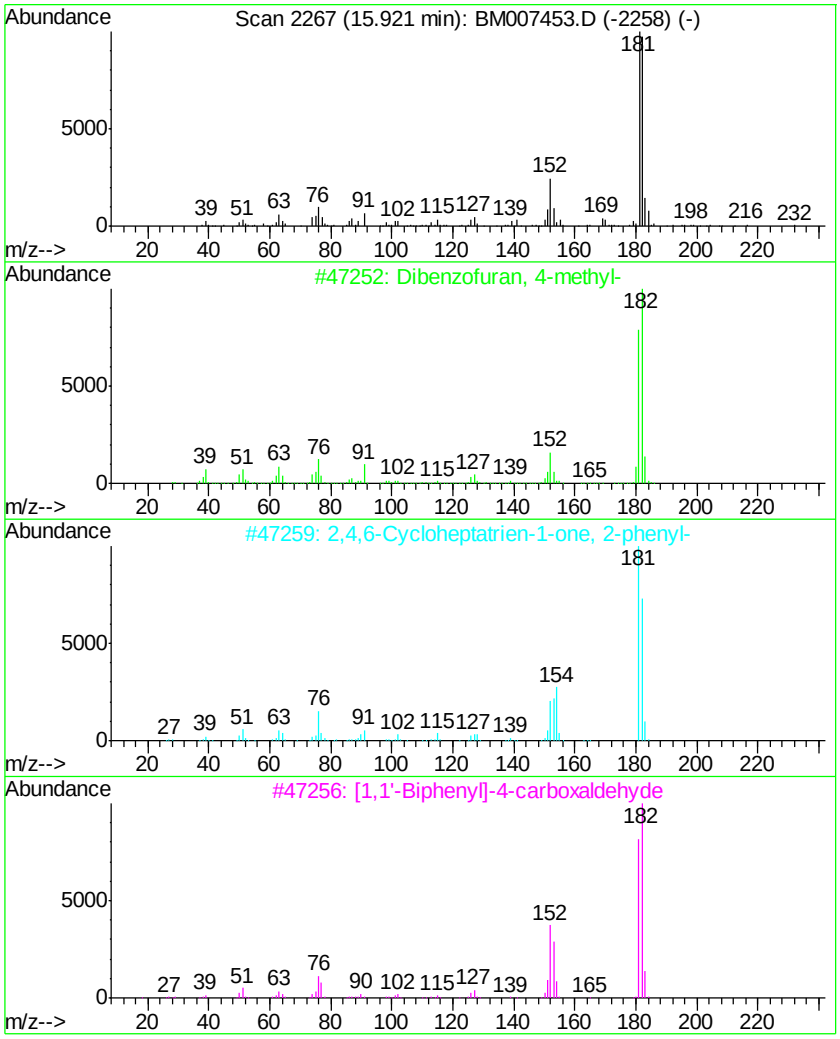
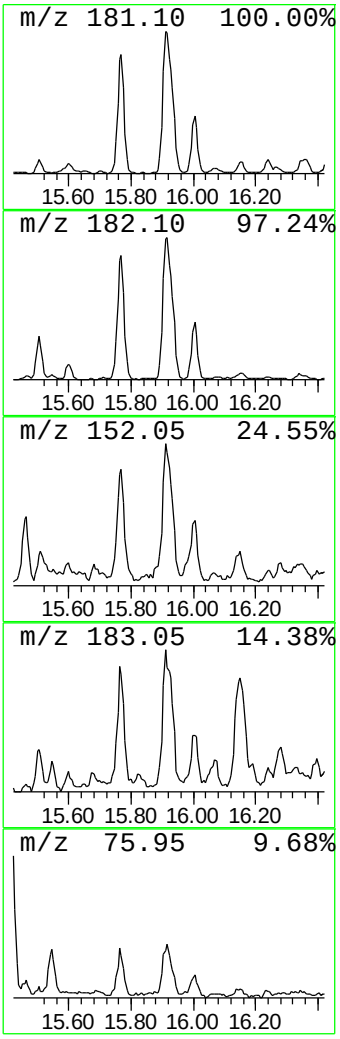
Peak Number 8 2,4,6-Cycloheptatrien-1-one... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.92	3.26 ng/ul	895881	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	87
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
5	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72





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Quant Title : SVOA CALIBRATION

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

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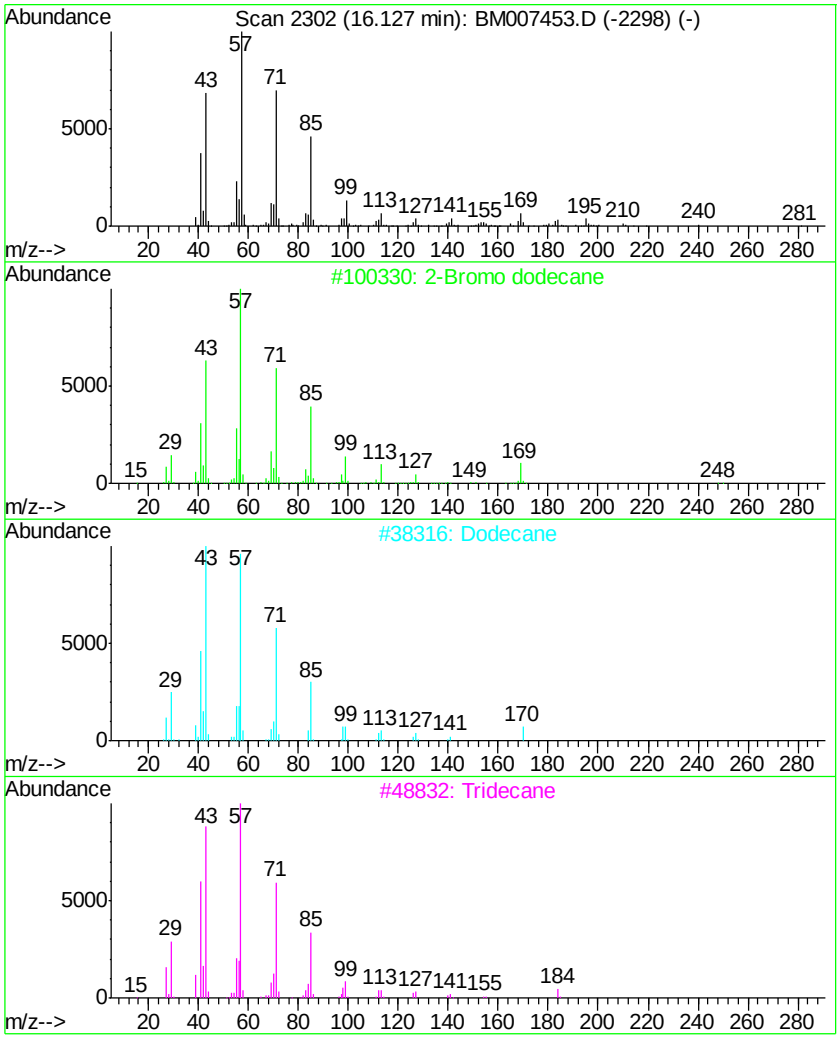
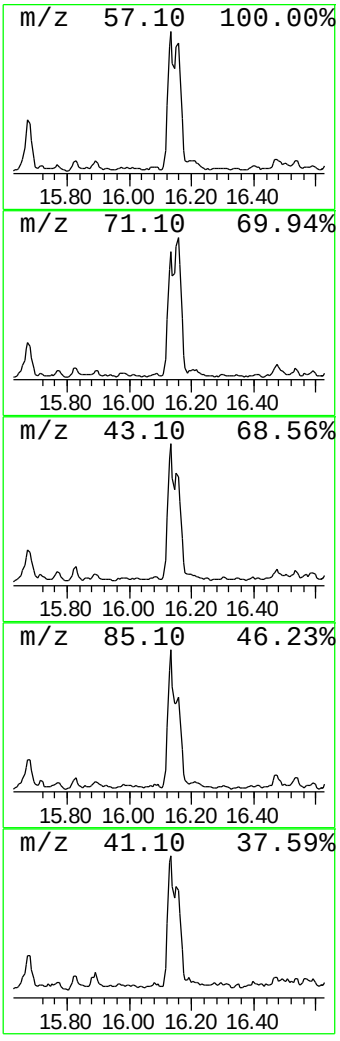
Peak Number 9 2-Bromo dodecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.13	3.87 ng/ul	1063230	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bromo dodecane	248	C12H25Br	013187-99-0	87
2	Dodecane	170	C12H26	000112-40-3	81
3	Tridecane	184	C13H28	000629-50-5	81
4	Tetradecane	198	C14H30	000629-59-4	74
5	Tetradecane	198	C14H30	000629-59-4	74





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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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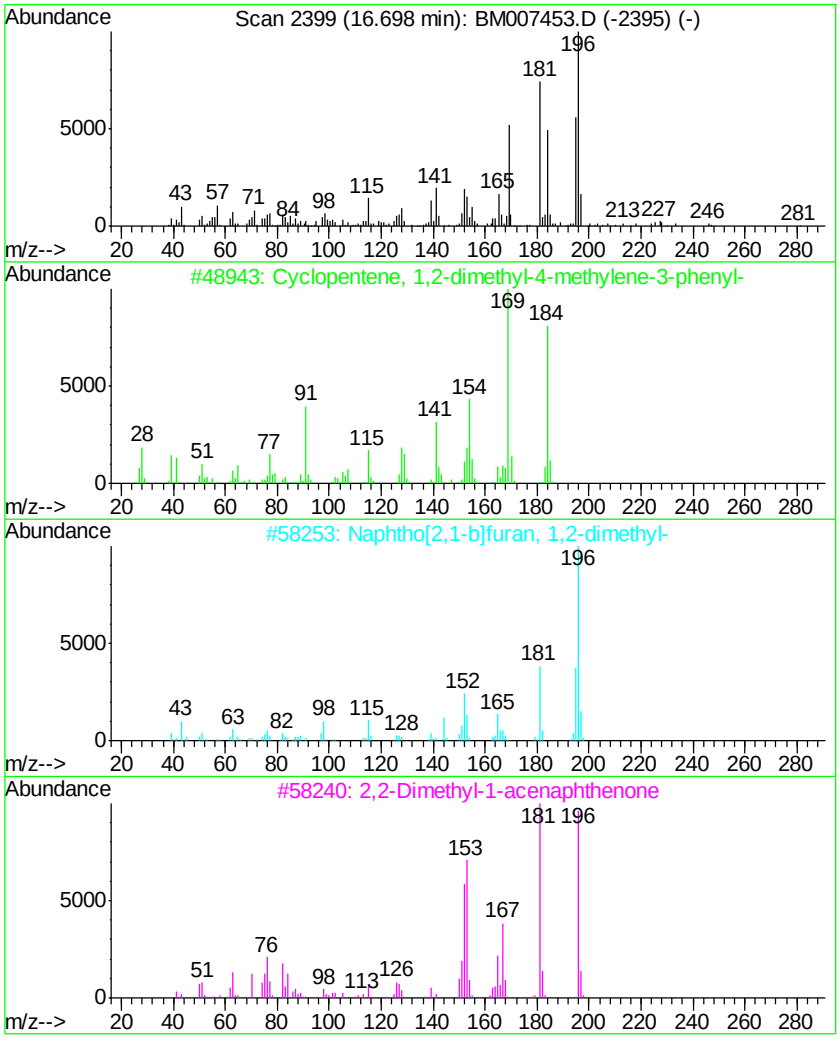
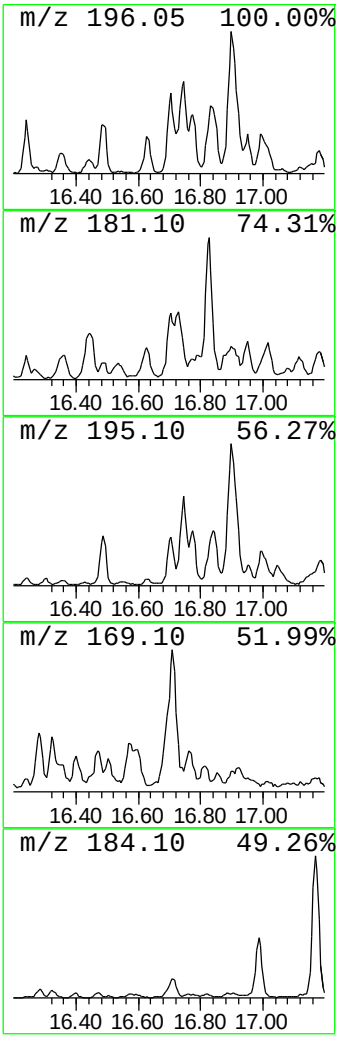
Peak Number 10 Cyclopentene, 1,2-dimethyl-... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	2.03 ng/ul	556982	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	51
2	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	50
3	2,2-Dimethyl-1-acenaphthenone	196	C14H12O	018086-43-6	43
4	Benzene, (4,5,5-trimethyl-1,3-cy...	184	C14H16	033930-85-7	38
5	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	38





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Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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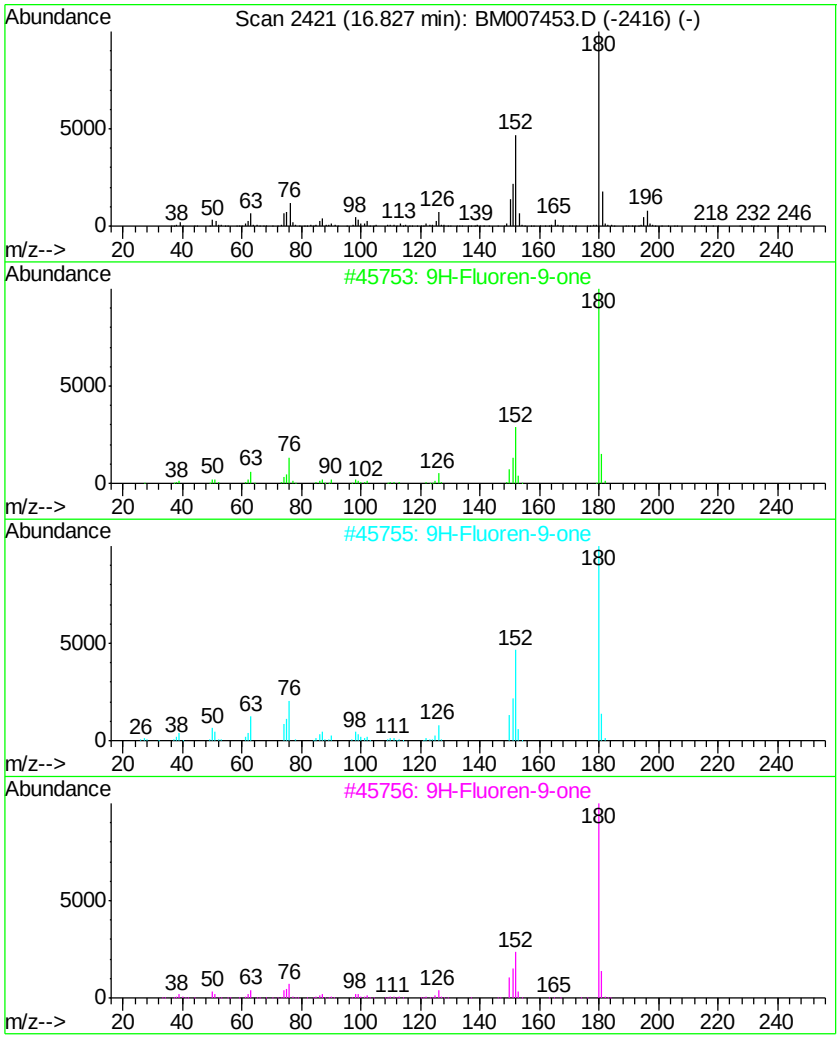
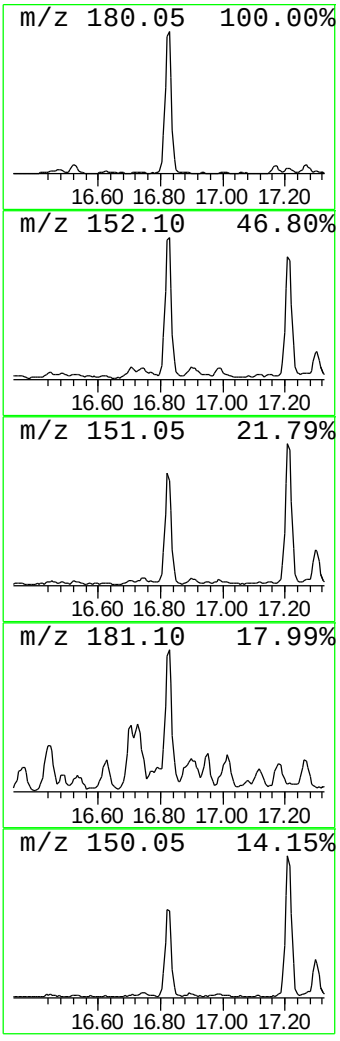
Peak Number 11 9H-Fluoren-9-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.83	5.04 ng/ul	1386030	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	86





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Instrument : BNA_M
ClientSampleId : BD3A9

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Quant Title : SVOA CALIBRATION

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

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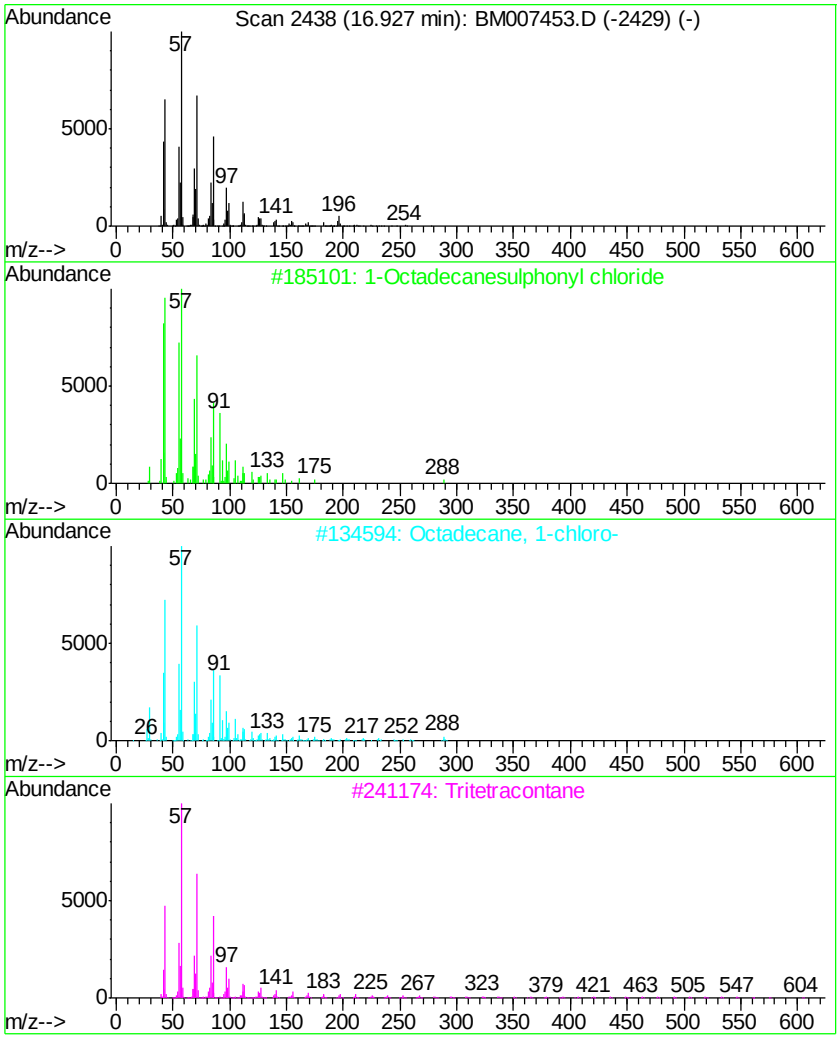
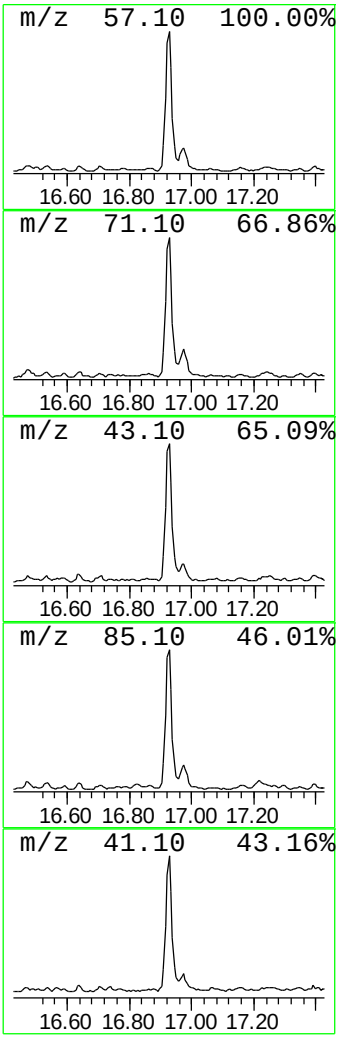
Peak Number 12 1-Octadecanesulphonyl chloride Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.93	9.65 ng/ul	2653690	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Octadecanesulphonyl chloride	352	C18H37ClO2S	1000342-70-4	91
2	Octadecane, 1-chloro-	288	C18H37Cl	003386-33-2	91
3	Tritetracontane	605	C43H88	007098-21-7	90
4	Octadecane, 1-chloro-	288	C18H37Cl	003386-33-2	80
5	1-Decanol, 2-hexyl-	242	C16H34O	002425-77-6	80





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Misc :
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Instrument : BNA_M
ClientSampleId : BD3A9

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Quant Title : SVOA CALIBRATION

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

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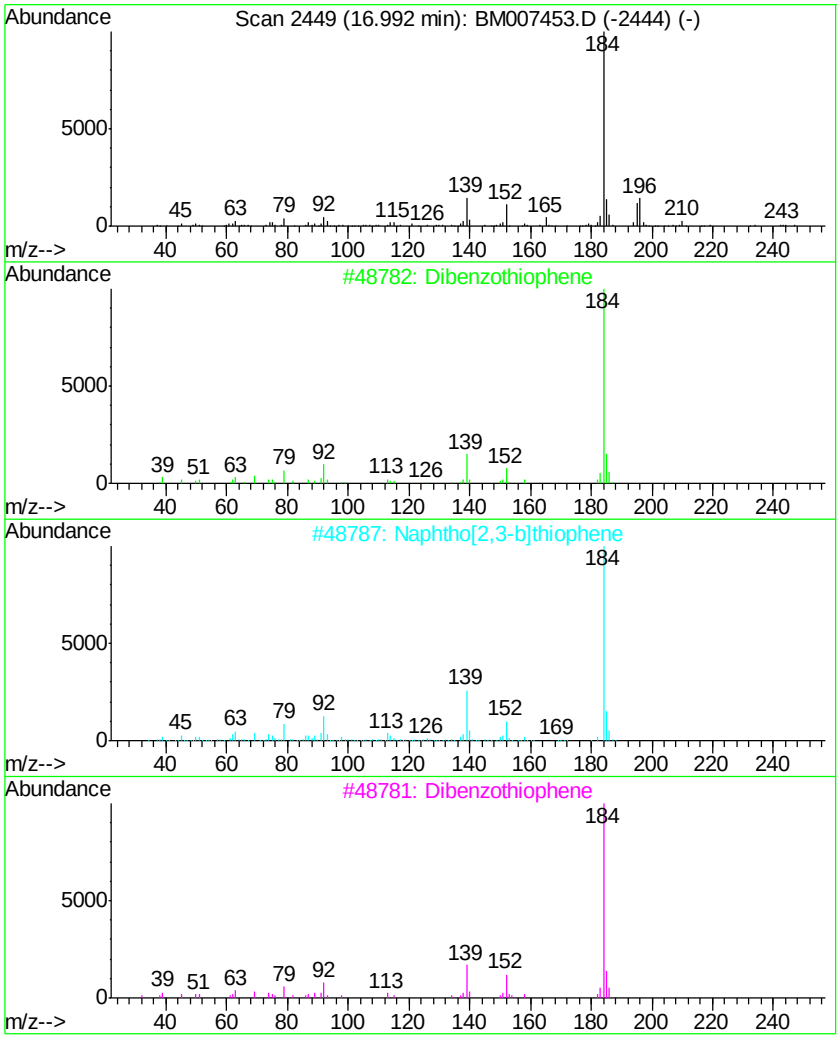
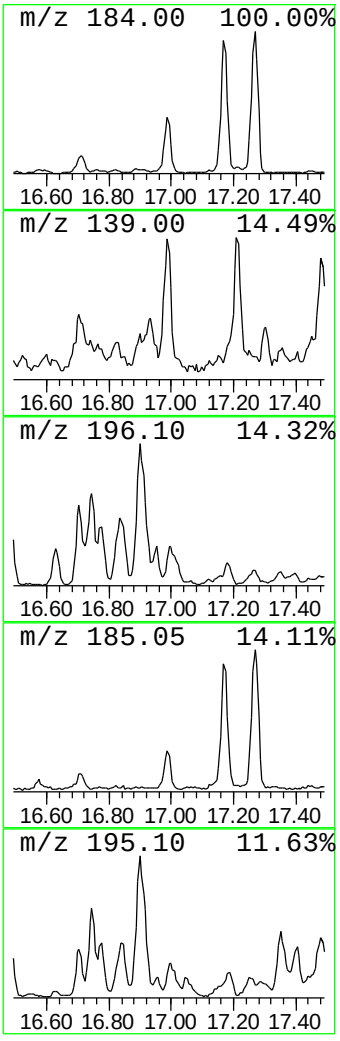
Peak Number 13 Dibenzothiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.99	2.58 ng/ul	708391	Phenanthrene-d10	17.17

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	93
3	Dibenzothiophene	184	C12H8S	000132-65-0	93
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	93
5	Dibenzothiophene	184	C12H8S	000132-65-0	90





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Quant Title : SVOA CALIBRATION

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

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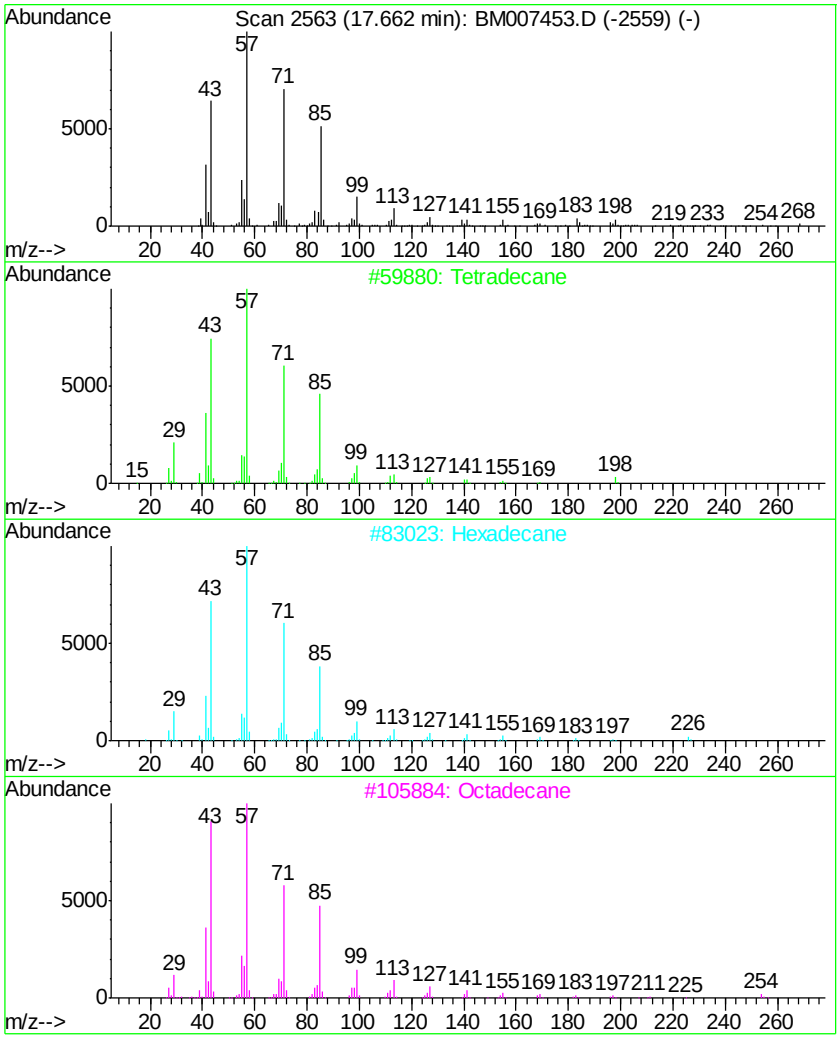
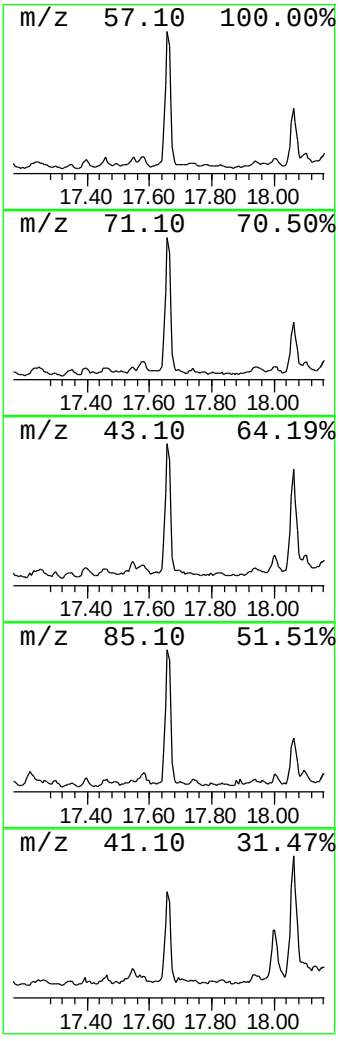
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.66	2.18 ng/ul	598757	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	95
2	Hexadecane	226	C16H34	000544-76-3	91
3	Octadecane	254	C18H38	000593-45-3	91
4	Octacosane	394	C28H58	000630-02-4	91
5	Tridecane, 7-propyl-	226	C16H34	055045-09-5	90





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Quant Title : SVOA CALIBRATION

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

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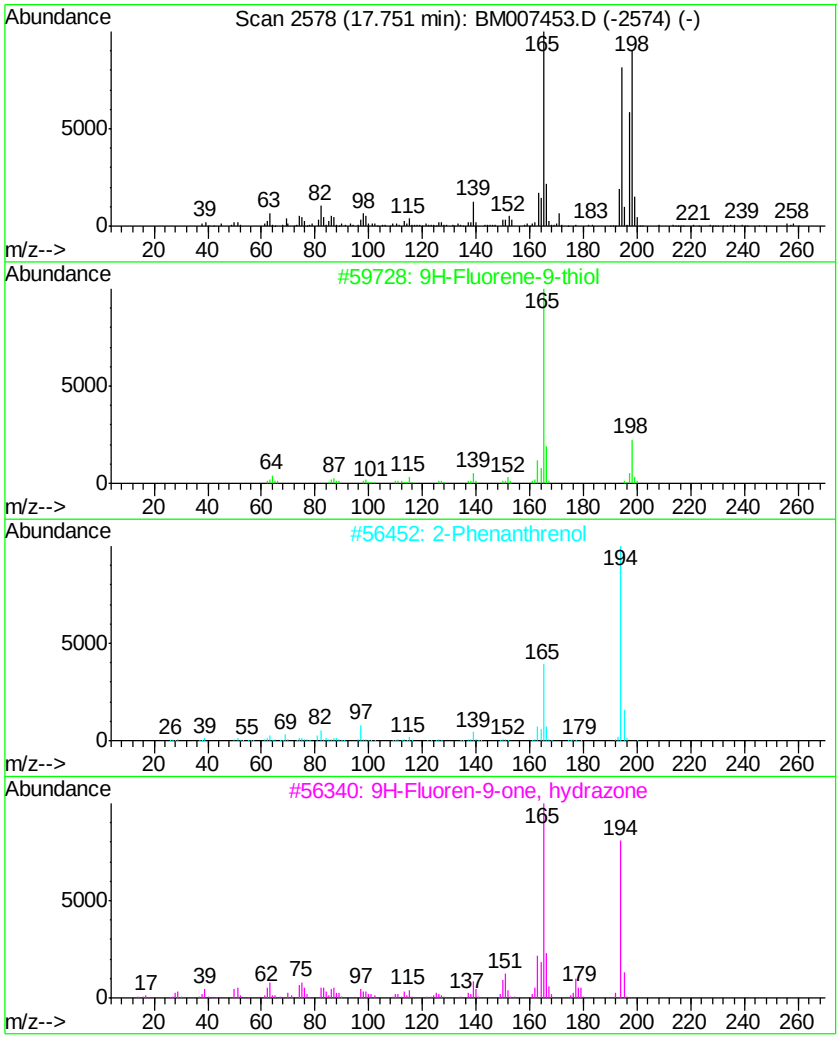
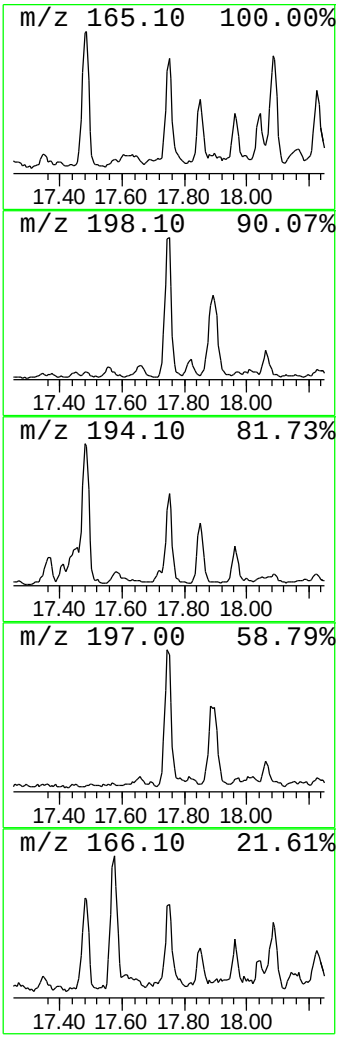
Peak Number 15 9H-Fluorene-9-thiol Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.75	2.37 ng/ul	651604	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene-9-thiol	198	C13H10S	019552-08-0	60
2	2-Phenanthrenol	194	C14H10O	000605-55-0	60
3	9H-Fluoren-9-one, hydrazone	194	C13H10N2	013629-22-6	55
4	Anthrone	194	C14H10O	000090-44-8	53
5	Anthrone	194	C14H10O	000090-44-8	53





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Quant Title : SVOA CALIBRATION

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

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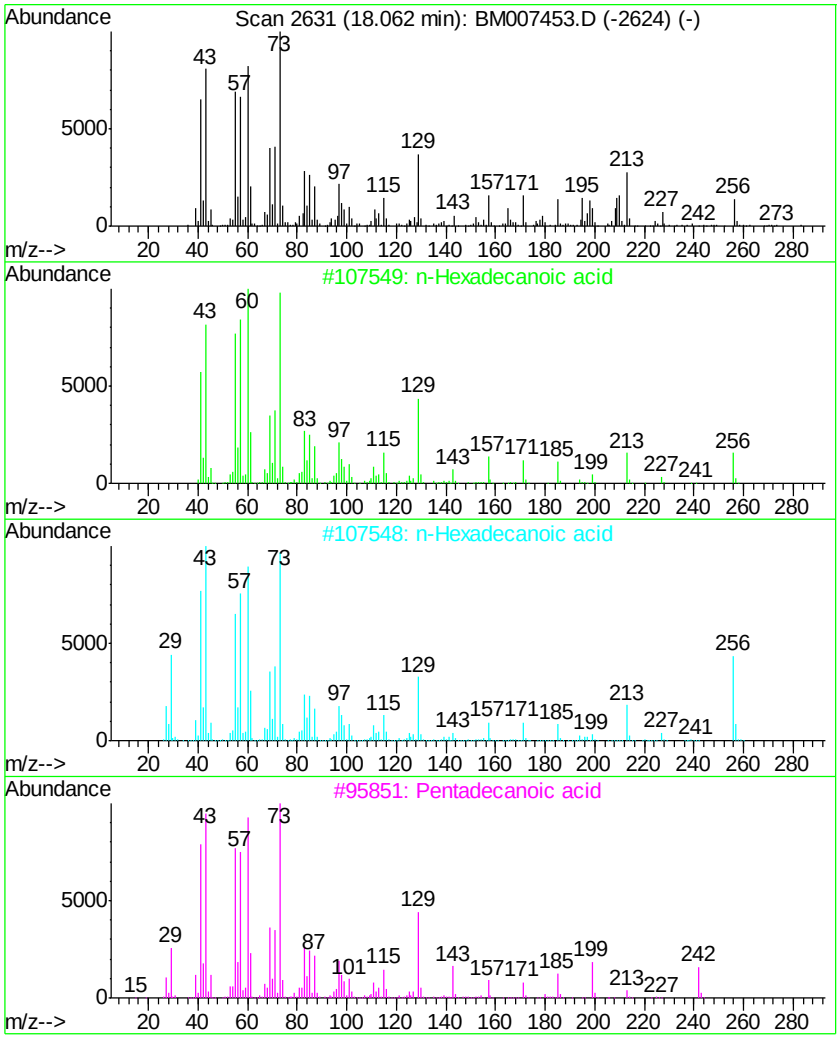
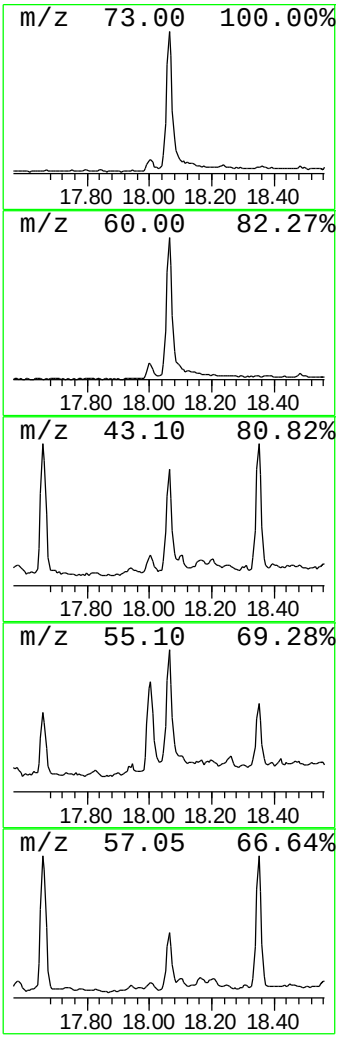
Peak Number 16 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	7.87 ng/ul	2164920	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Tridecanoic acid	214	C13H26O2	000638-53-9	86
5	Tridecanoic acid	214	C13H26O2	000638-53-9	86





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ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

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Quant Title : SVOA CALIBRATION

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

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Peak Number 17 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	6.45 ng/ul	1772550	Phenanthrene-d10	17.17

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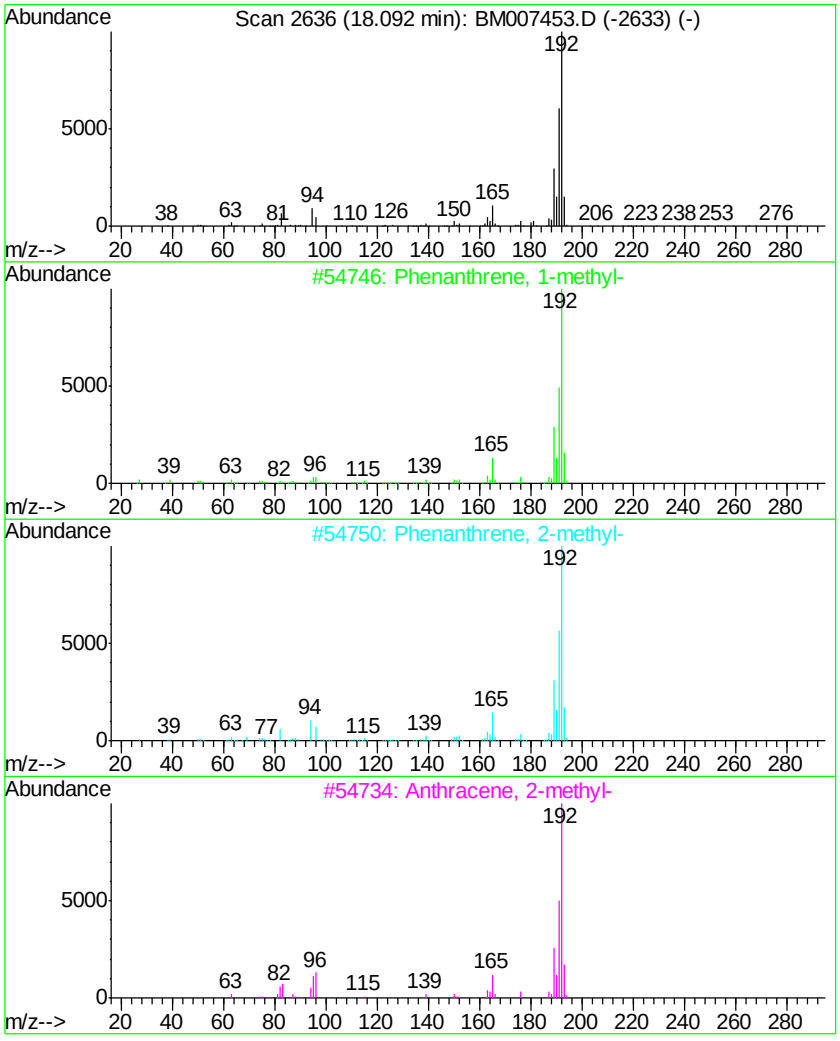

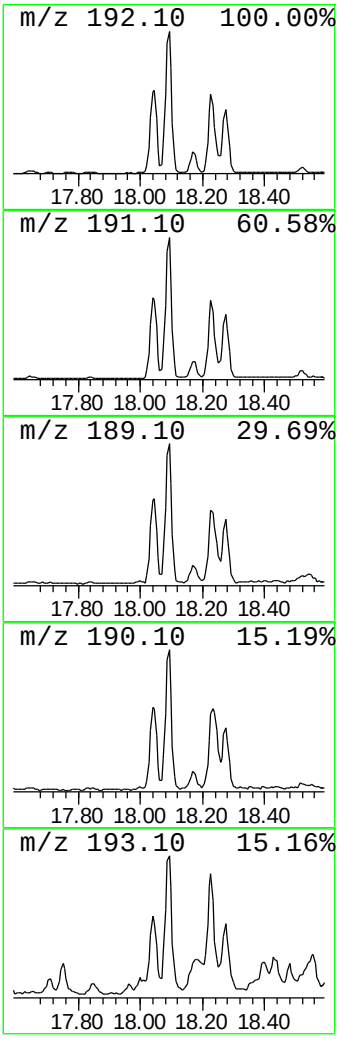

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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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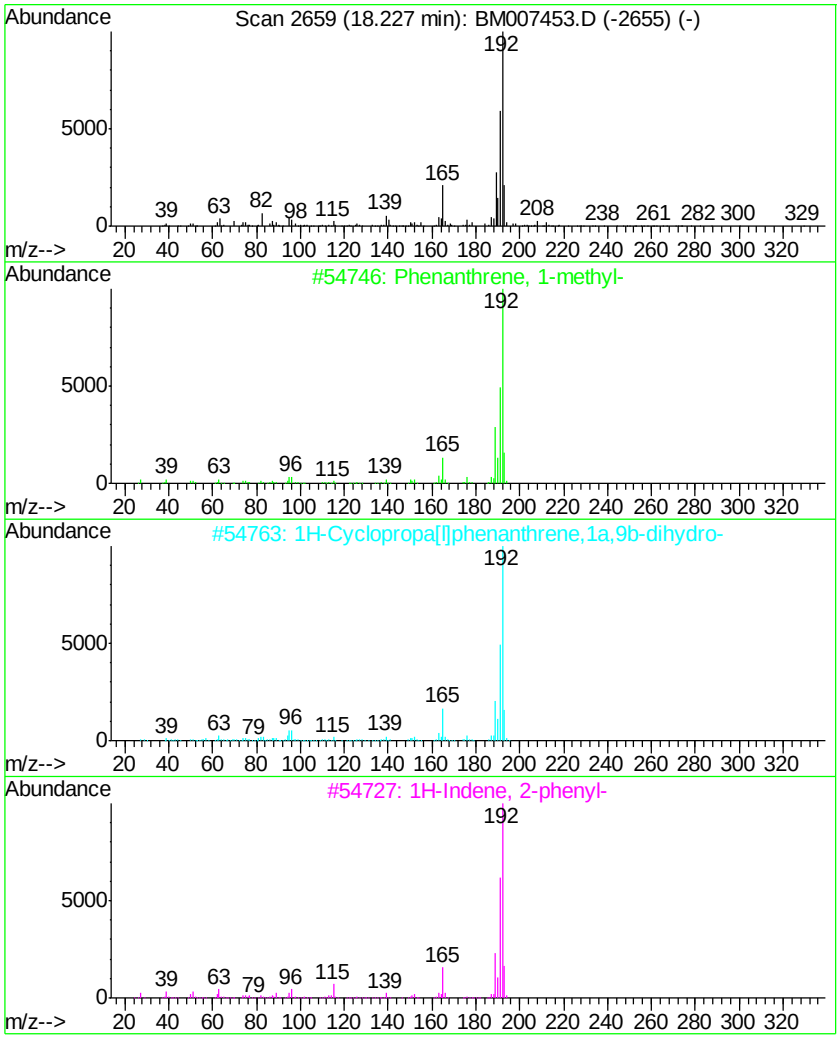
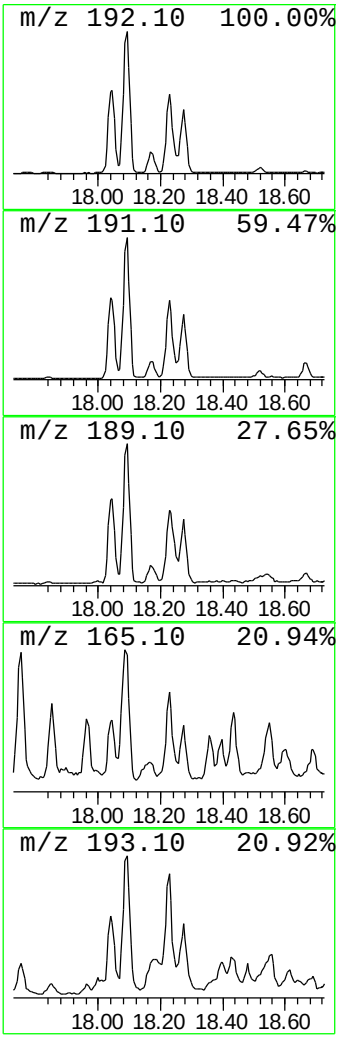
Peak Number 18 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.23	3.30 ng/ul	908490	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





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Data File : BM007453.D
Acq On : 07 Sep 2016 23:42
Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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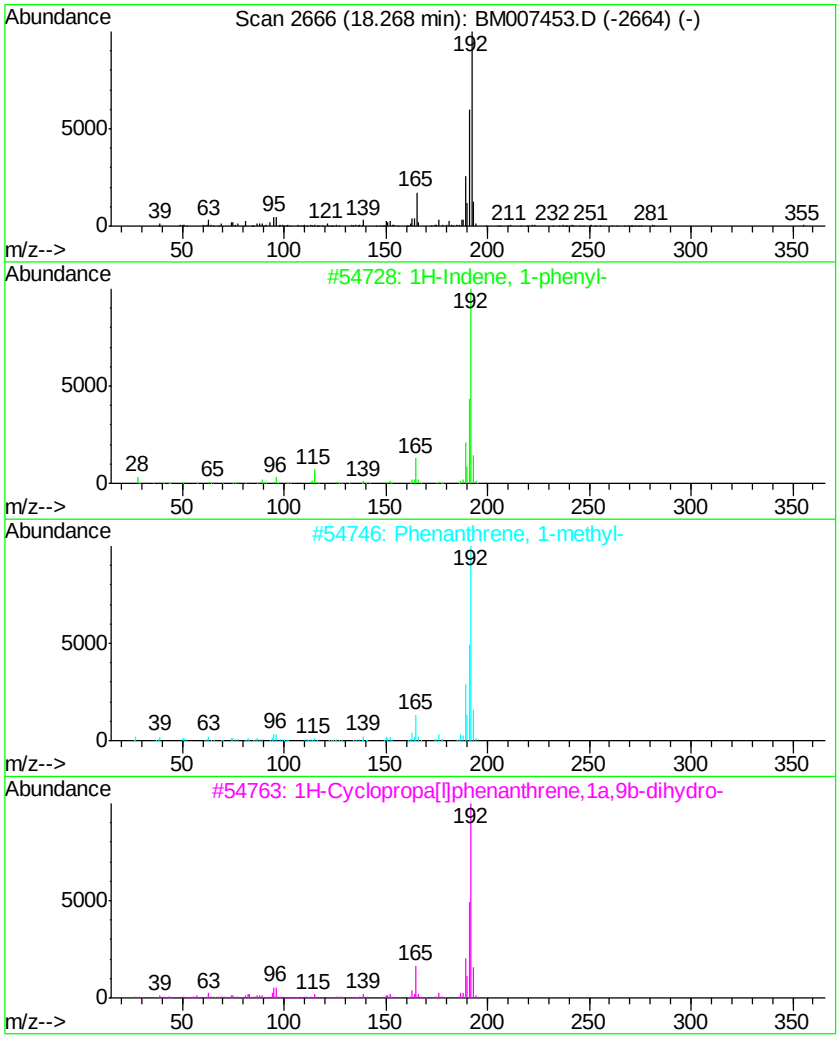
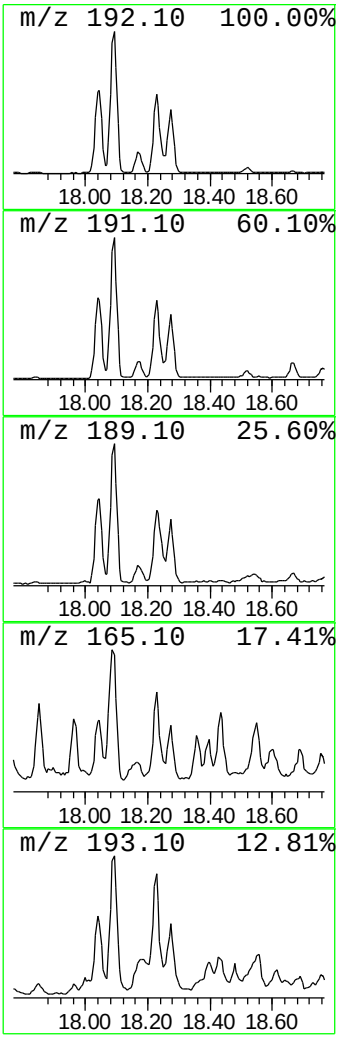
Peak Number 19 1H-Indene, 1-phenyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.27	2.42 ng/ul	664523	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	91





Library Search Compound Report

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Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

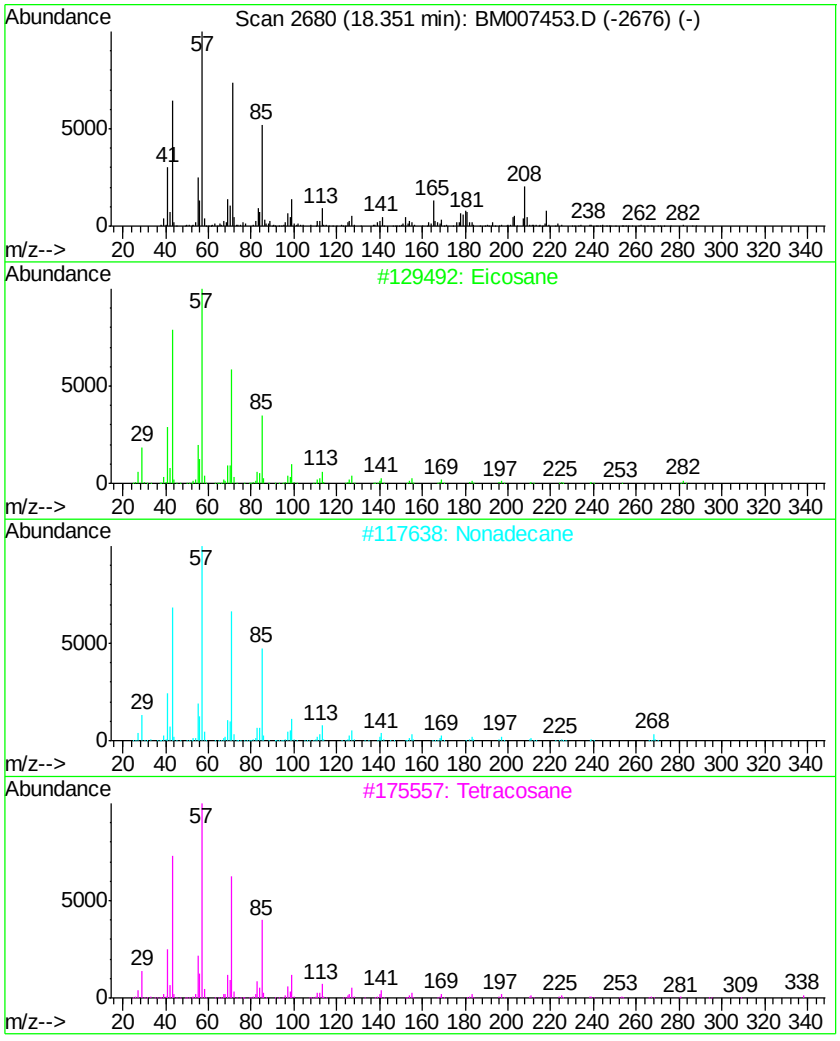
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

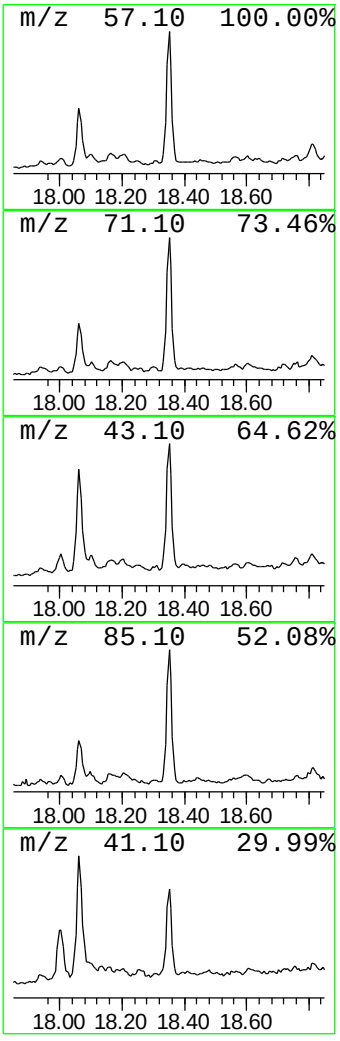
****

Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.35	3.60 ng/ul	988933	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	89
2	Nonadecane	268	C19H40	000629-92-5	68
3	Tetracosane	338	C24H50	000646-31-1	68
4	Heneicosane	296	C21H44	000629-94-7	68
5	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	68





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Sample : H4666-14
Misc :
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Instrument : BNA_M
ClientSampleId : BD3A9

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Quant Title : SVOA CALIBRATION

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

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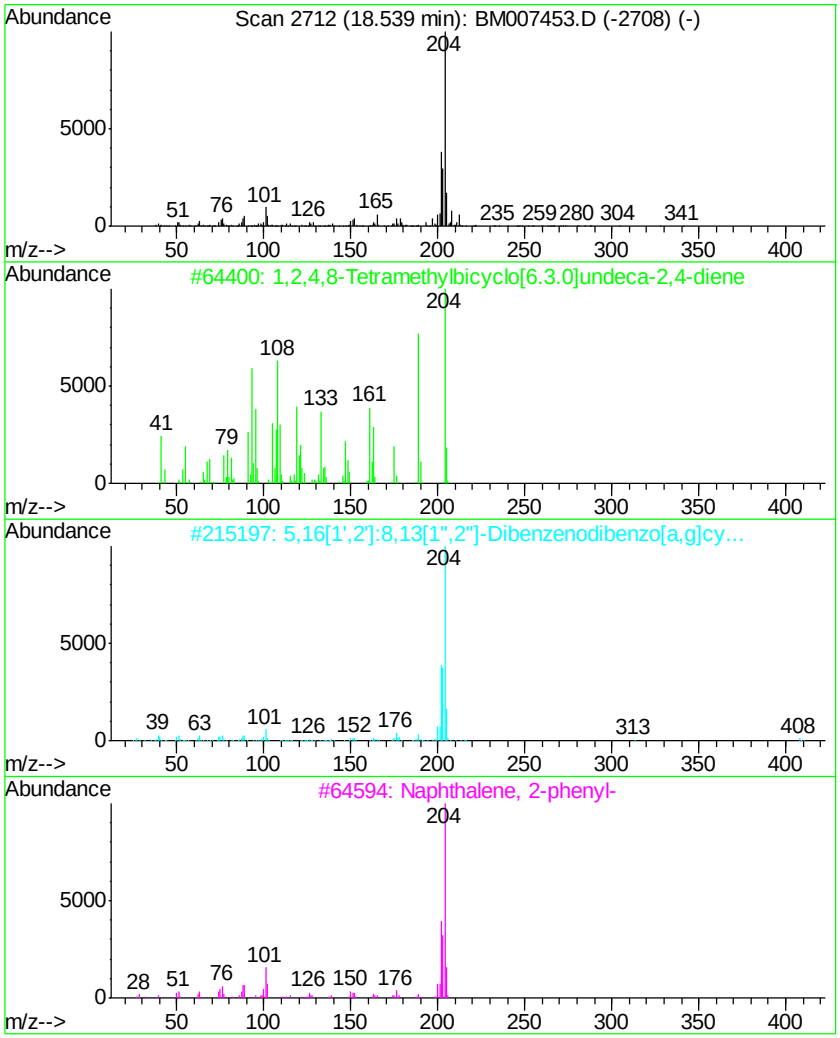
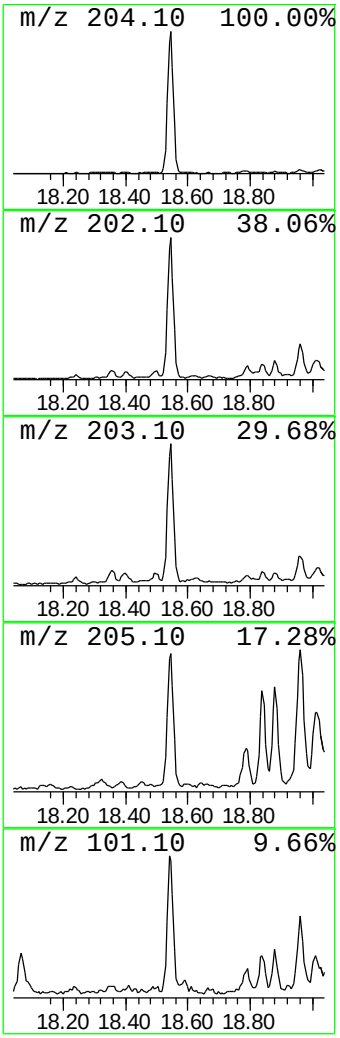
Peak Number 21 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.54	5.09 ng/ul	1399050	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	87
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70





Library Search Compound Report

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Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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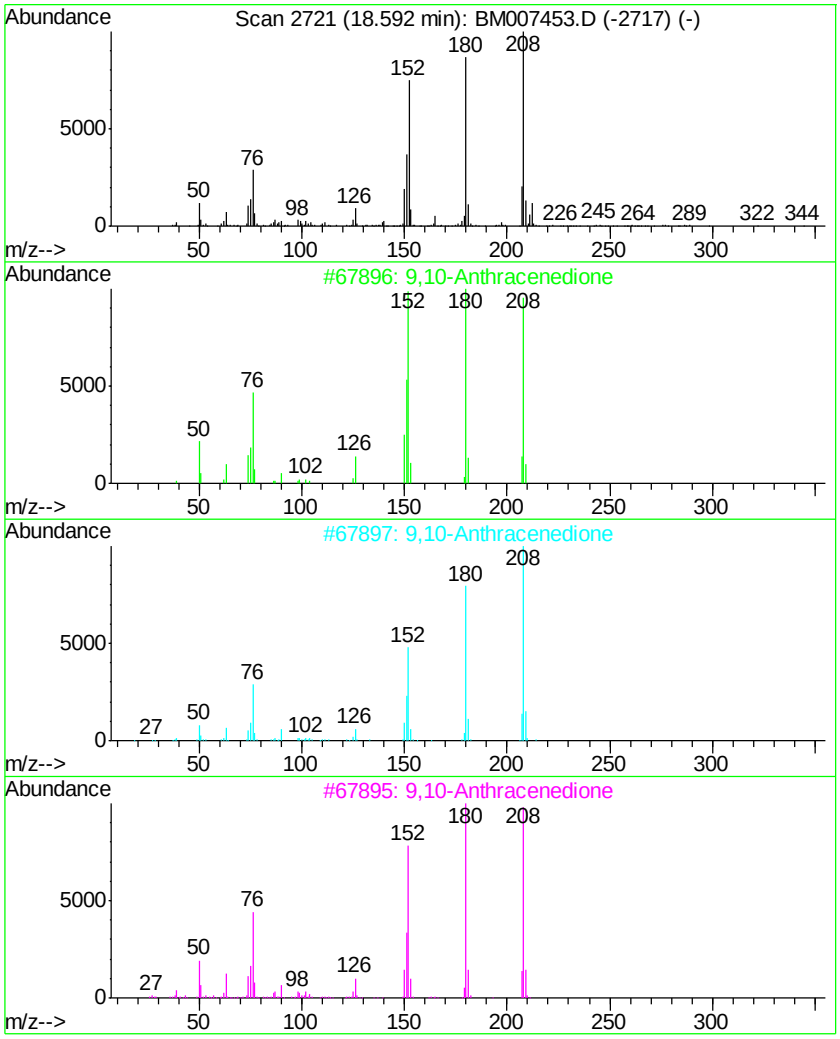
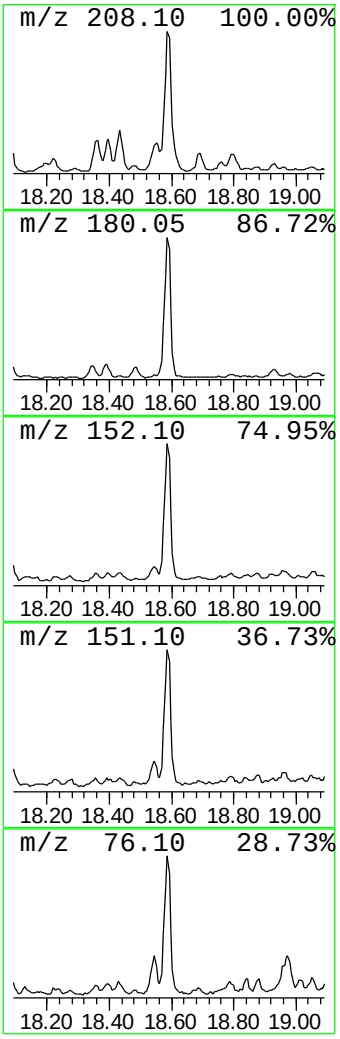
Peak Number 22 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	5.23 ng/ul	1437380	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64





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Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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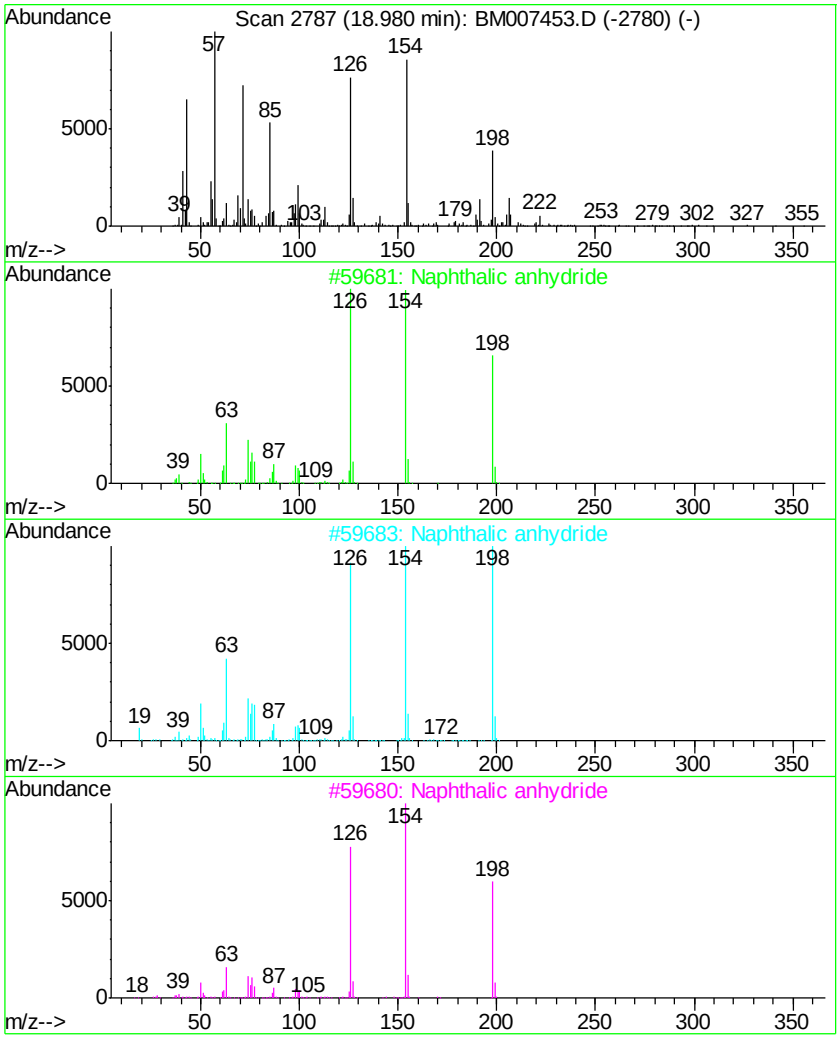
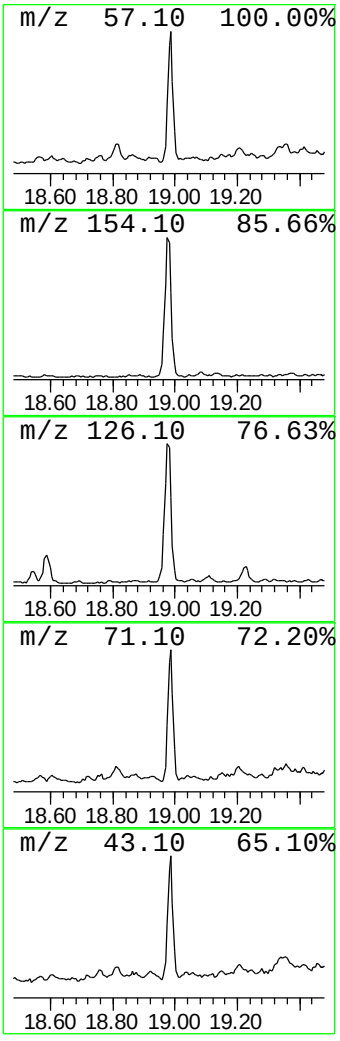
Peak Number 23 Naphthalic anhydride Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.98	7.73 ng/ul	2125910	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalic anhydride	198	C12H6O3	000081-84-5	93
2	Naphthalic anhydride	198	C12H6O3	000081-84-5	91
3	Naphthalic anhydride	198	C12H6O3	000081-84-5	91
4	Naphthalic anhydride	198	C12H6O3	000081-84-5	64
5	Tetradecane	198	C14H30	000629-59-4	62





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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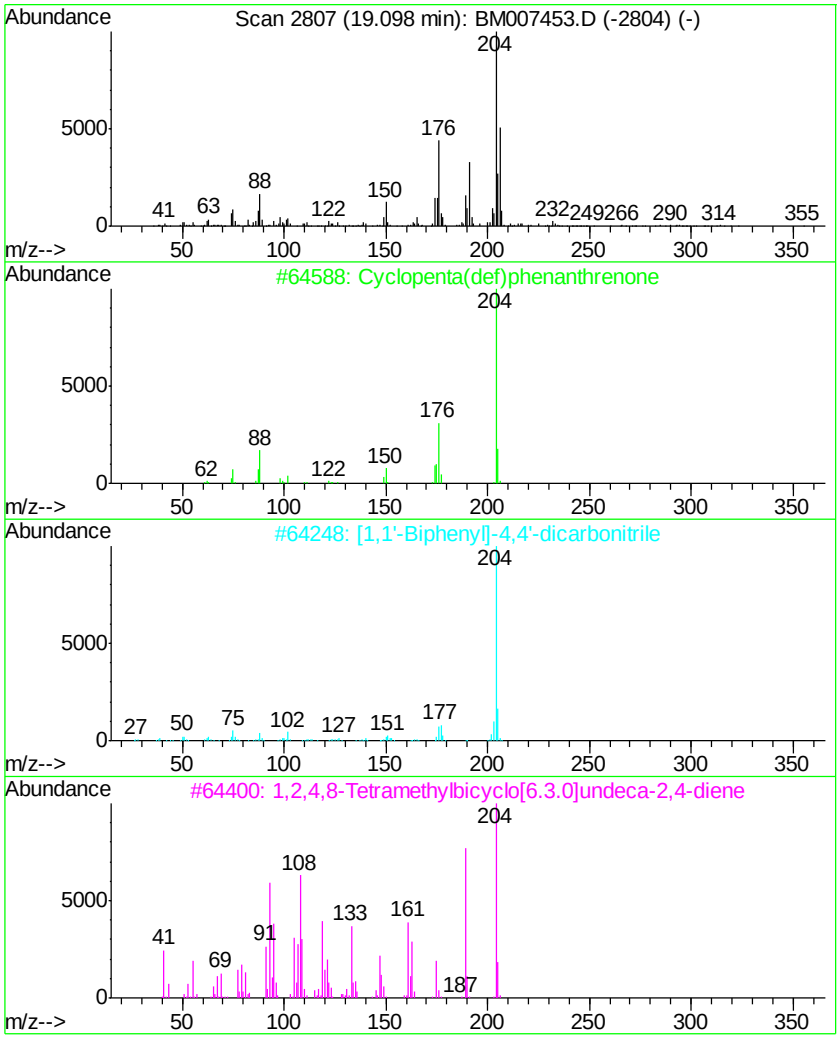
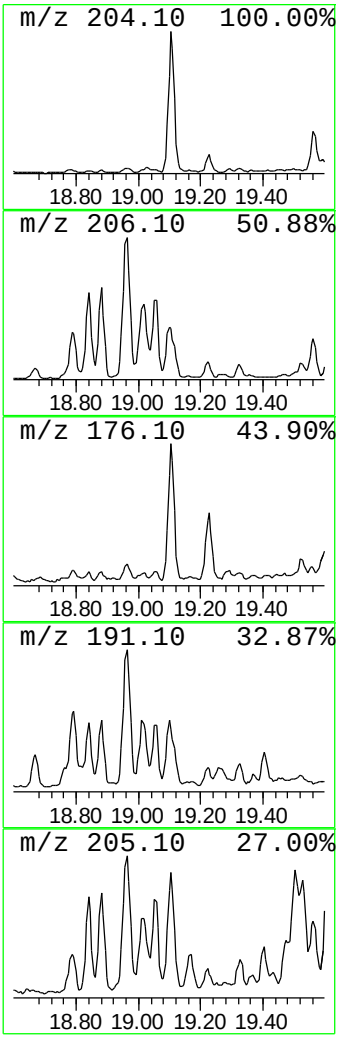
Peak Number 24 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.10	3.99 ng/ul	1097470	Phenanthrene-d10	17.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	49
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
4	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43
5	L-(+)-Rhamnopyranose, tetrakis(t...	452	C18H44O5Si4	1000380-12-9	43





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Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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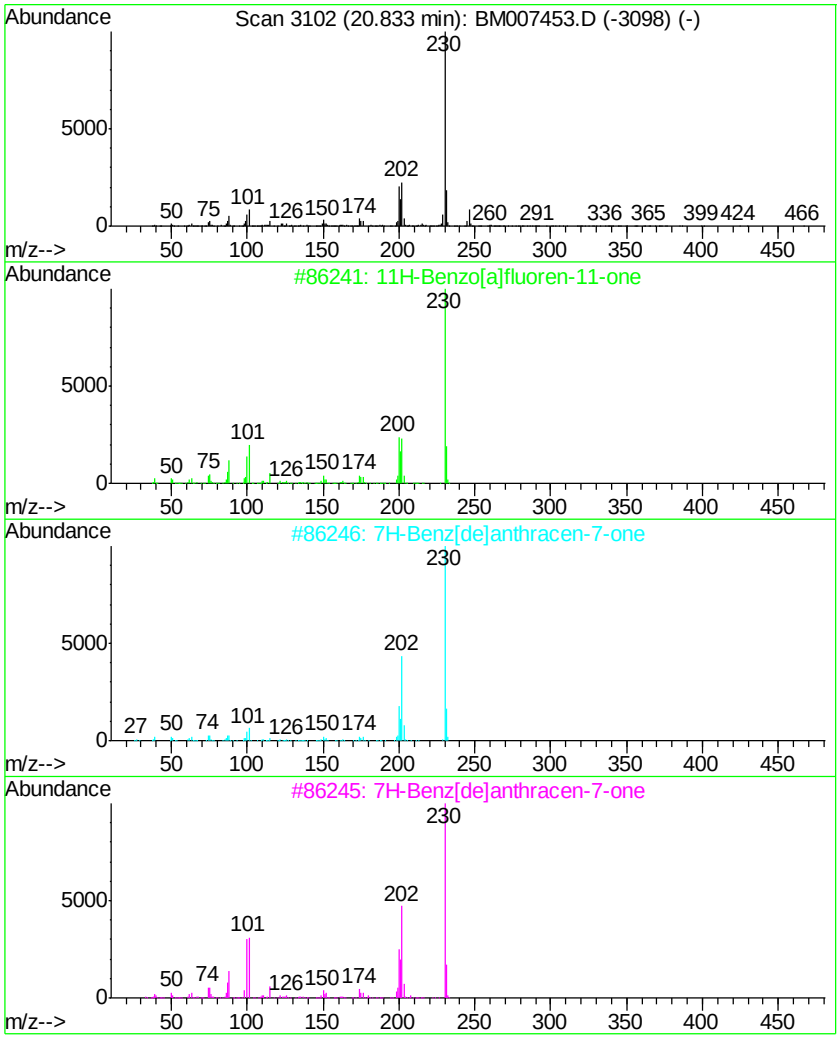
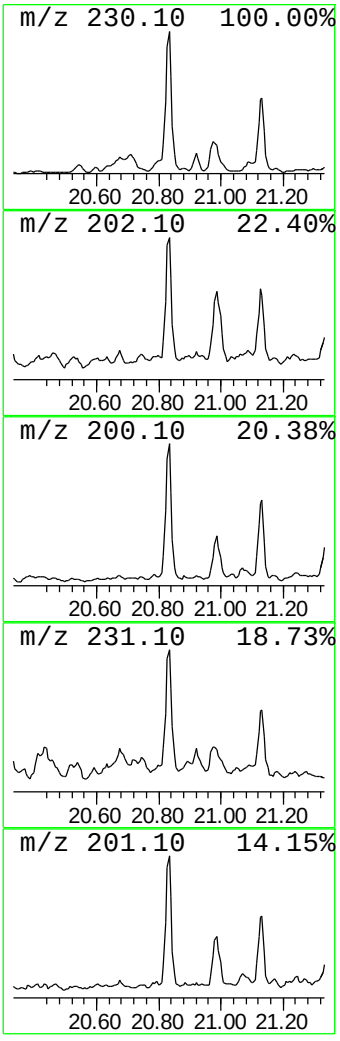
Peak Number 25 11H-Benzo[a]fluoren-11-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.83	3.48 ng/ul	1656240	Chrysene-d12	21.35

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	89
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
4	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	83
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	76





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Misc :
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Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

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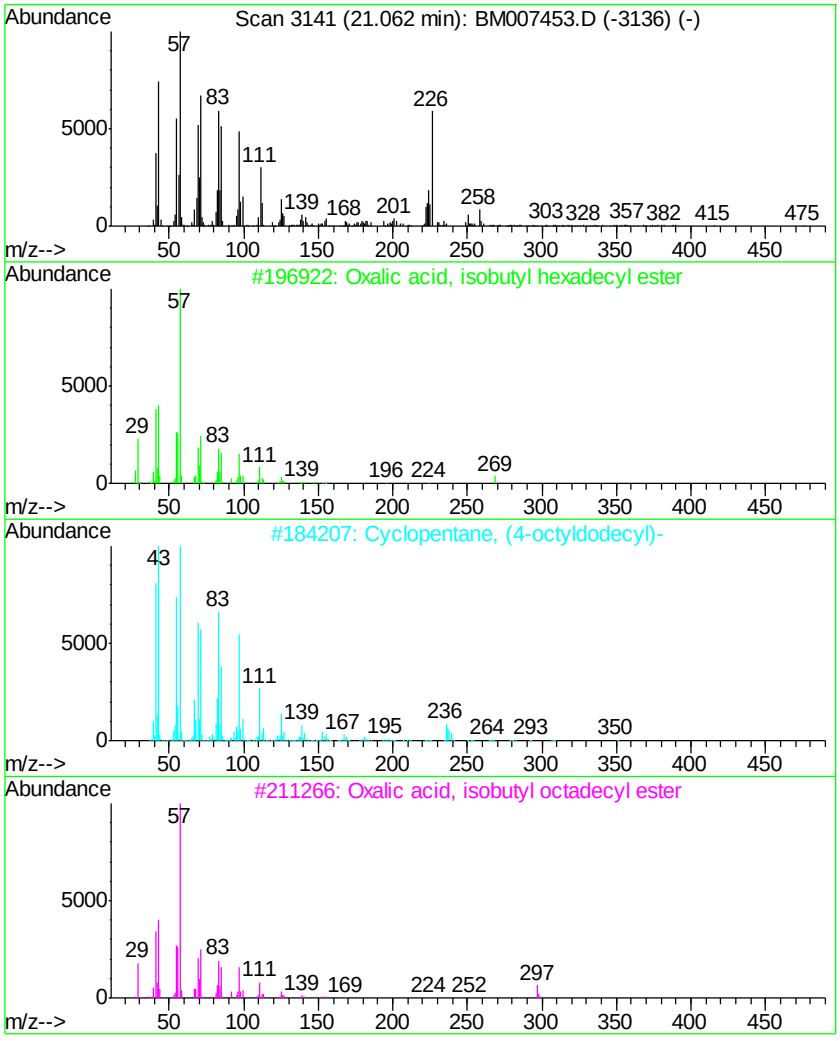
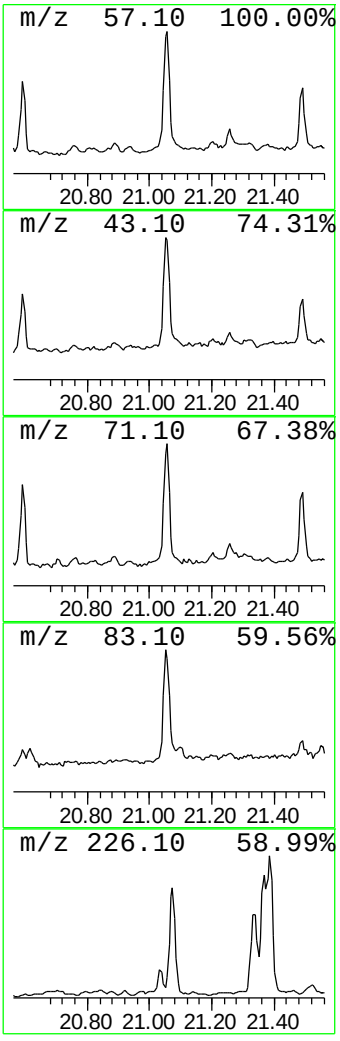
Peak Number 26 Oxalic acid, isobutyl hexad... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.06	5.06 ng/ul	2407460	Chrysene-d12	21.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, isobutyl hexadecyl ...	370	C22H42O4	1000309-38-1	90
2	Cyclopentane, (4-octyldodecyl)-	350	C25H50	005638-09-5	89
3	Oxalic acid, isobutyl octadecyl ...	398	C24H46O4	1000309-38-3	87
4	Cyclohexane, (1-decylundecyl)-	378	C27H54	006703-99-7	86
5	1-Decanol, 2-hexyl-	242	C16H34O	002425-77-6	81





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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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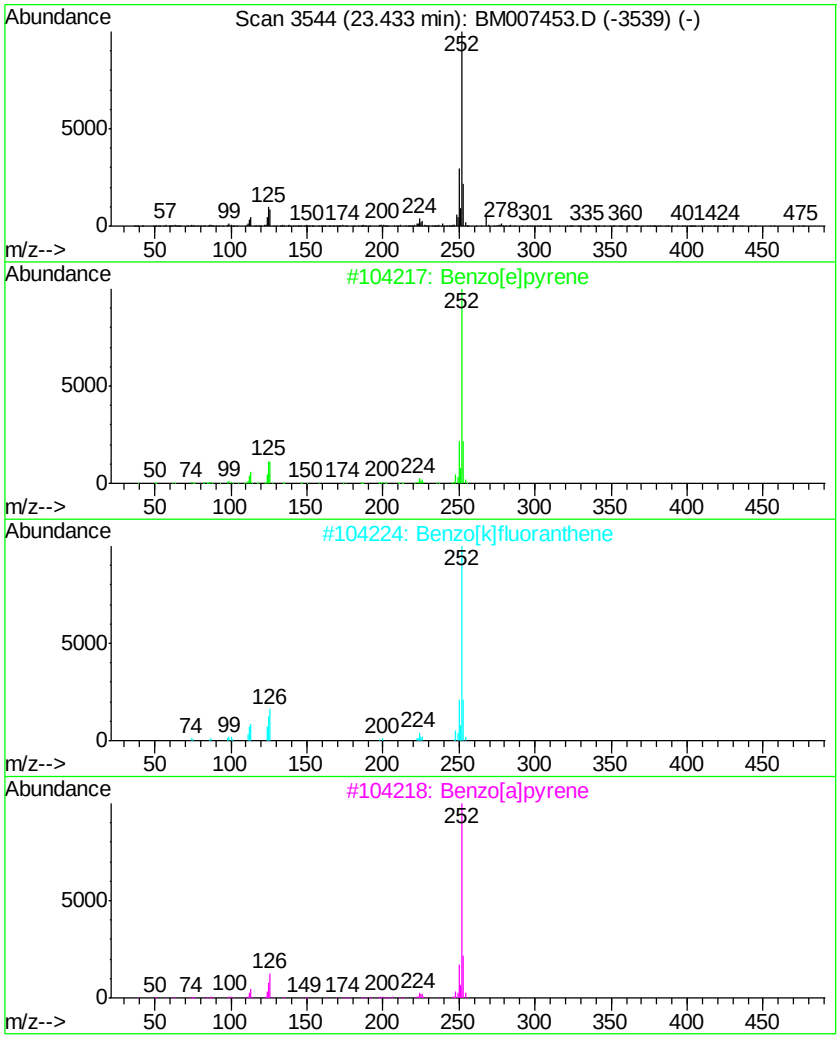
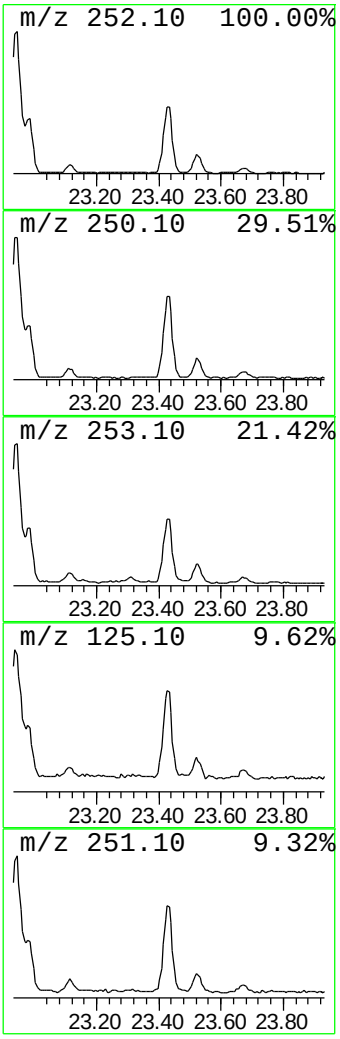
Peak Number 27 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.43	9.68 ng/ul	2068140	Perylene-d12	23.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
5	Perylene	252	C20H12	000198-55-0	90





Tentatively Identified Compound (LSC) summary

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Acq On : 07 Sep 2016 23:42
Operator : UM/SJ
Sample : H4666-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BD3A9

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 1-me...	12.46	4.5	ng/ul	696069	2	10.57	3056970	20.0
Naphthalene, 2,3-...	13.74	2.9	ng/ul	666804	3	14.43	4652840	20.0
(DEL) Alkane: Str...	14.32	2.0	ng/ul	470533	3	14.43	4652840	20.0
(DEL) Alkane: Str...	15.27	2.6	ng/ul	608224	3	14.43	4652840	20.0
(DEL) Alkane: Str...	15.68	2.1	ng/ul	489883	3	14.43	4652840	20.0
Dibenzofuran, 4-m...	15.77	2.9	ng/ul	673601	3	14.43	4652840	20.0
2,4,6-Cycloheptat...	15.92	3.3	ng/ul	895881	4	17.17	5498410	20.0
2-Bromo dodecane	16.13	3.9	ng/ul	1063230	4	17.17	5498410	20.0
Cyclopentene, 1,2...	16.70	2.0	ng/ul	556982	4	17.17	5498410	20.0
9H-Fluoren-9-one	16.83	5.0	ng/ul	1386030	4	17.17	5498410	20.0
1-Octadecanesulph...	16.93	9.7	ng/ul	2653690	4	17.17	5498410	20.0
Dibenzothiophene	16.99	2.6	ng/ul	708391	4	17.17	5498410	20.0
(DEL) Alkane: Str...	17.66	2.2	ng/ul	598757	4	17.17	5498410	20.0
9H-Fluorene-9-thiol	17.75	2.4	ng/ul	651604	4	17.17	5498410	20.0
n-Hexadecanoic acid	18.06	7.9	ng/ul	2164920	4	17.17	5498410	20.0
Phenanthrene, 1-m...	18.09	6.5	ng/ul	1772550	4	17.17	5498410	20.0
1H-Cyclopropa[l]p...	18.23	3.3	ng/ul	908490	4	17.17	5498410	20.0
1H-Indene, 1-phenyl-	18.27	2.4	ng/ul	664523	4	17.17	5498410	20.0
(DEL) Alkane: Str...	18.35	3.6	ng/ul	988933	4	17.17	5498410	20.0
1,2,4,8-Tetrameth...	18.54	5.1	ng/ul	1399050	4	17.17	5498410	20.0
9,10-Anthracenedione	18.59	5.2	ng/ul	1437380	4	17.17	5498410	20.0
Naphthalic anhydride	18.98	7.7	ng/ul	2125910	4	17.17	5498410	20.0
Cyclopenta(def)ph...	19.10	4.0	ng/ul	1097470	4	17.17	5498410	20.0
11H-Benzo[a]fluor...	20.83	3.5	ng/ul	1656240	5	21.35	9516650	20.0
Oxalic acid, isob...	21.06	5.1	ng/ul	2407460	5	21.35	9516650	20.0
Benzo[e]pyrene	23.43	9.7	ng/ul	2068140	6	23.63	4274450	20.0