

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
 Data File : BN005311.D
 Acq On : 26 Apr 2019 09:21
 Operator : JU/SJ
 Sample : K2456-16DL 10X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GAHN6DL

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 0.1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.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	7.593	774	783	793	rBV	1883371	3024557	24.20%	2.037%
2	8.293	896	902	910	rVB	133752	227599	1.82%	0.153%
3	9.981	1185	1189	1199	rVB	127819	232573	1.86%	0.157%
4	10.357	1242	1253	1269	rBV	2674550	4616332	36.93%	3.109%
5	12.022	1528	1536	1545	rVB	594597	972939	7.78%	0.655%
6	12.246	1562	1574	1589	rVB	1643556	2655494	21.24%	1.788%
7	13.069	1706	1714	1720	rBV2	191222	317542	2.54%	0.214%
8	13.381	1759	1767	1769	rBV	787953	1166330	9.33%	0.785%
9	13.546	1787	1795	1800	rVV	1258910	2200994	17.61%	1.482%
10	13.598	1800	1804	1808	rVV	805118	1118642	8.95%	0.753%
11	13.646	1808	1812	1814	rVV	309344	437903	3.50%	0.295%
12	13.681	1814	1818	1824	rVV2	487886	818433	6.55%	0.551%
13	13.781	1830	1835	1839	rVV	616831	944380	7.55%	0.636%
14	13.946	1852	1863	1876	rBV2	1688550	3056528	24.45%	2.058%
15	14.157	1894	1899	1902	rBV	176925	244933	1.96%	0.165%
16	14.228	1902	1911	1918	rVV2	3948962	5939942	47.52%	4.000%
17	14.287	1918	1921	1925	rVV2	232943	317170	2.54%	0.214%
18	14.445	1942	1948	1956	rVB3	189017	428966	3.43%	0.289%
19	14.634	1970	1980	1988	rBV2	326116	704067	5.63%	0.474%
20	14.710	1988	1993	1998	rVB	405861	563049	4.50%	0.379%
21	14.845	2008	2016	2022	rBV3	412870	1025395	8.20%	0.691%
22	14.904	2023	2026	2029	rVV	186492	239654	1.92%	0.161%
23	15.104	2056	2060	2066	rVB3	475733	674926	5.40%	0.455%
24	15.228	2076	2081	2085	rVV3	772970	1240764	9.93%	0.836%
25	15.281	2085	2090	2101	rVV2	940998	1903695	15.23%	1.282%
26	15.410	2108	2112	2121	rVV2	349955	664786	5.32%	0.448%
27	15.498	2121	2127	2135	rVB5	146380	399731	3.20%	0.269%
28	15.575	2135	2140	2152	rBV5	172963	423675	3.39%	0.285%
29	15.740	2163	2168	2174	rVB4	141004	278868	2.23%	0.188%
30	15.975	2201	2208	2212	rBV3	233613	482249	3.86%	0.325%
31	16.287	2255	2261	2266	rVV2	393613	866896	6.93%	0.584%
32	16.340	2266	2270	2276	rVV2	371979	602690	4.82%	0.406%
33	16.439	2283	2287	2293	rVB2	299581	492499	3.94%	0.332%
34	16.557	2304	2307	2312	rVV4	203779	333056	2.66%	0.224%

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35	16.639	2317	2321	2328	rVB4	163626	310712	2.49%	0.209%
36	16.716	2328	2334	2340	rBV6	98044	222223	1.78%	0.150%
37	16.981	2373	2379	2383	rBV2	4947867	7127031	57.01%	4.800%
38	17.022	2383	2386	2392	rVV	3558313	4939797	39.52%	3.327%
39	17.081	2392	2396	2398	rVV	424420	600132	4.80%	0.404%
40	17.116	2398	2402	2407	rVB	617113	868563	6.95%	0.585%
41	17.181	2407	2413	2418	rBV4	214422	445115	3.56%	0.300%
42	17.510	2465	2469	2473	rBV	489110	595661	4.77%	0.401%
43	17.563	2474	2478	2489	rVB2	275459	466851	3.73%	0.314%
44	17.681	2495	2498	2509	rVB2	223151	607465	4.86%	0.409%
45	17.781	2511	2515	2523	rBV3	157159	355621	2.84%	0.240%
46	17.863	2523	2529	2533	rBV	1216815	1807282	14.46%	1.217%
47	17.910	2533	2537	2545	rVB	1724492	2402979	19.22%	1.618%
48	17.986	2546	2550	2555	rBV	261337	370428	2.96%	0.249%
49	18.051	2555	2561	2565	rBV3	2662961	4454543	35.64%	3.000%
50	18.092	2565	2568	2573	rVB	903456	1212467	9.70%	0.817%
51	18.186	2579	2584	2587	rBV	200433	309909	2.48%	0.209%
52	18.334	2605	2609	2611	rVV2	154837	232423	1.86%	0.157%
53	18.369	2611	2615	2619	rVV	1142066	1577518	12.62%	1.062%
54	18.404	2619	2621	2628	rVB4	238279	367253	2.94%	0.247%
55	18.498	2633	2637	2643	rBV4	120775	266178	2.13%	0.179%
56	18.622	2654	2658	2662	rVV2	336837	508164	4.07%	0.342%
57	18.669	2662	2666	2670	rVB	351495	452996	3.62%	0.305%
58	18.710	2670	2673	2677	rVB	305084	384643	3.08%	0.259%
59	18.792	2682	2687	2692	rBV2	982404	1609971	12.88%	1.084%
60	18.857	2692	2698	2701	rBV2	725390	1283565	10.27%	0.864%
61	18.886	2701	2703	2706	rVB	465055	445701	3.57%	0.300%
62	18.933	2706	2711	2719	rBV2	861579	1772044	14.18%	1.193%
63	19.057	2727	2732	2738	rVB	4821956	6885355	55.08%	4.637%
64	19.128	2739	2744	2747	rVV	527465	728358	5.83%	0.491%
65	19.163	2747	2750	2754	rVV2	333322	525682	4.21%	0.354%
66	19.210	2754	2758	2762	rVV	1414172	1898050	15.18%	1.278%
67	19.263	2762	2767	2771	rVB4	188604	281821	2.25%	0.190%
68	19.328	2771	2778	2784	rBV2	305592	610574	4.88%	0.411%
69	19.422	2785	2794	2803	rBV	7740323	12500426	100.00%	8.419%
70	19.504	2806	2808	2814	rVB2	246425	365822	2.93%	0.246%
71	19.757	2846	2851	2862	rBV2	940381	1905244	15.24%	1.283%

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72	19.839	2862	2865	2869	rVV5	174771	291840	2.33%	0.197%
73	19.898	2869	2875	2877	rVV4	881000	1773848	14.19%	1.195%
74	19.928	2877	2880	2885	rVB	1451922	1895836	15.17%	1.277%
75	20.028	2893	2897	2903	rBV	851294	1139260	9.11%	0.767%
76	20.086	2903	2907	2911	rVV	1316201	1686751	13.49%	1.136%
77	20.228	2927	2931	2935	rVV	957639	1281567	10.25%	0.863%
78	20.275	2935	2939	2944	rVB	1132057	1505697	12.05%	1.014%
79	20.533	2979	2983	2985	rBV3	187217	275239	2.20%	0.185%
80	20.680	3005	3008	3016	rVB	523109	948868	7.59%	0.639%
81	20.839	3028	3035	3040	rBV6	325065	983709	7.87%	0.662%
82	20.892	3040	3044	3047	rVV	862803	1086572	8.69%	0.732%
83	20.927	3047	3050	3053	rVV	416588	561107	4.49%	0.378%
84	20.980	3057	3059	3067	rVB	411478	645724	5.17%	0.435%
85	21.210	3091	3098	3102	rBV2	6889321	12258015	98.06%	8.255%
86	21.251	3102	3105	3111	rVB	2422828	3352218	26.82%	2.258%
87	21.416	3130	3133	3139	rVB	658861	813254	6.51%	0.548%
88	21.710	3180	3183	3186	rBV	270784	308788	2.47%	0.208%
89	21.763	3186	3192	3196	rVV	948319	1443670	11.55%	0.972%
90	21.816	3197	3201	3207	rVB3	563289	903328	7.23%	0.608%
91	21.957	3221	3225	3227	rBV2	399716	535082	4.28%	0.360%
92	21.986	3227	3230	3235	rVB	554057	743091	5.94%	0.500%
93	22.063	3240	3243	3248	rVB	222515	286439	2.29%	0.193%
94	22.763	3356	3362	3366	rBV2	1013446	2438587	19.51%	1.642%
95	22.927	3386	3390	3398	rVB	384321	686365	5.49%	0.462%
96	23.221	3436	3440	3445	rBV	574541	931123	7.45%	0.627%
97	23.274	3445	3449	3452	rBV2	215900	346000	2.77%	0.233%
98	23.316	3452	3456	3460	rBV	772802	1188181	9.51%	0.800%
99	23.416	3466	3473	3479	rBV	3460291	6410557	51.28%	4.317%
100	23.980	3566	3569	3575	rVB	283502	448166	3.59%	0.302%

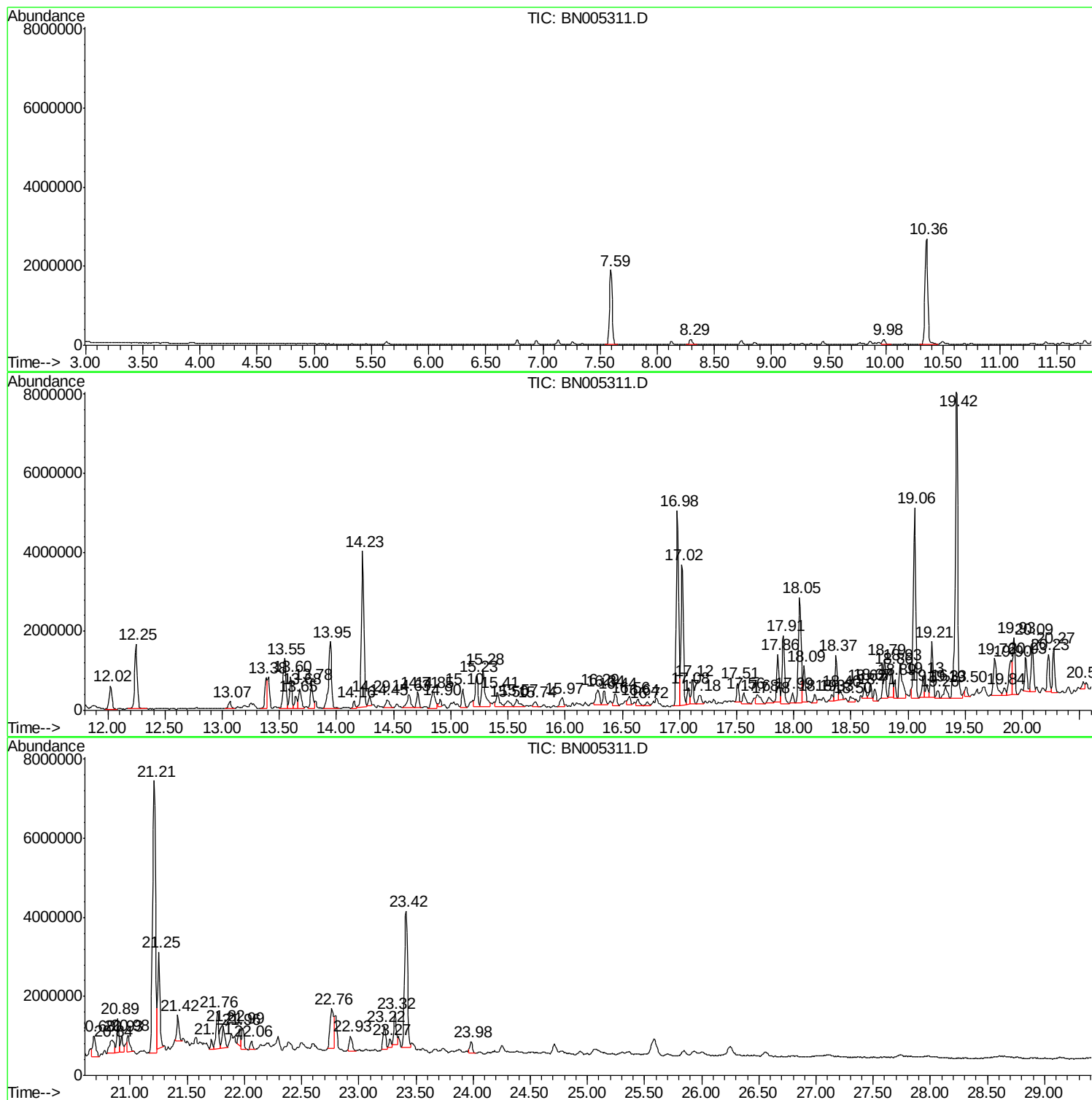
Sum of corrected areas: 148484706

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Instrument :
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ClientSampleId :
GAHN6DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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



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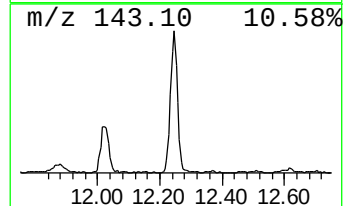
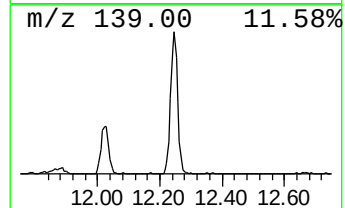
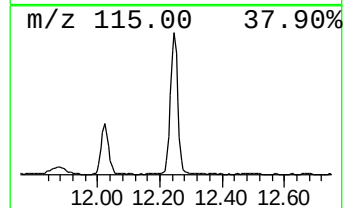
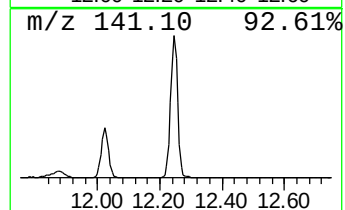
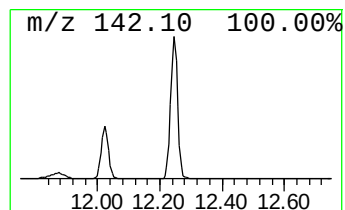
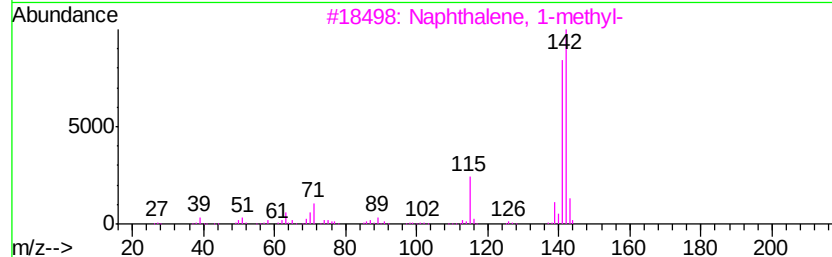
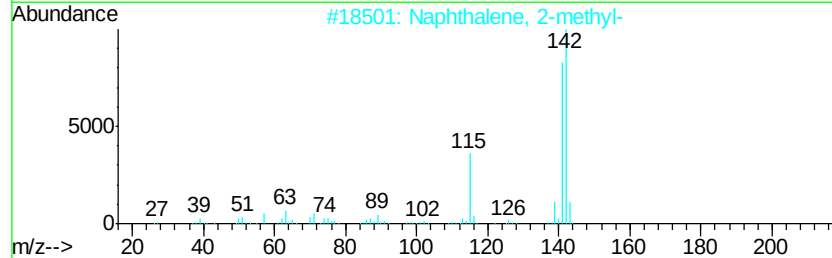
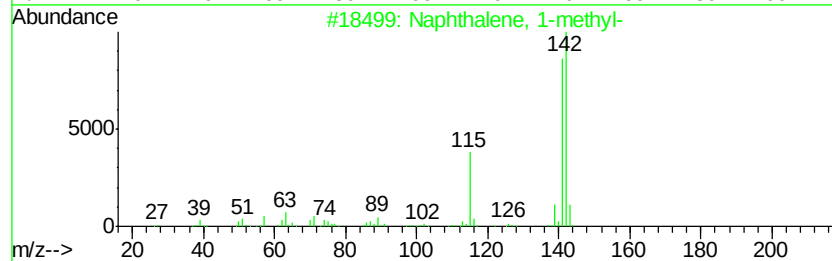
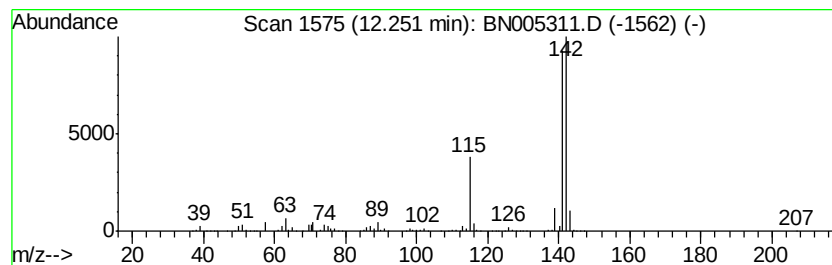
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	11.50 ng/ul	2655490	Naphthalene-d8	10.36

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2			Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3			Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
4			Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
5			1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91



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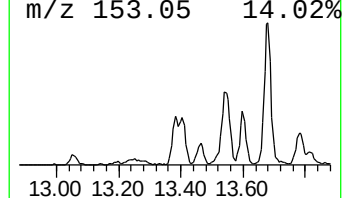
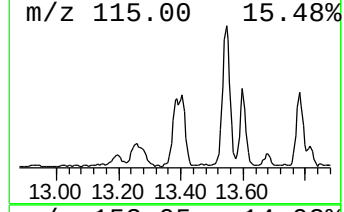
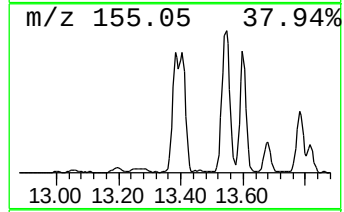
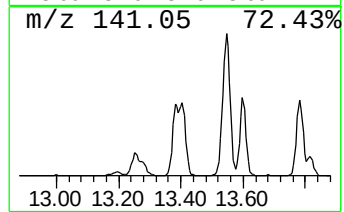
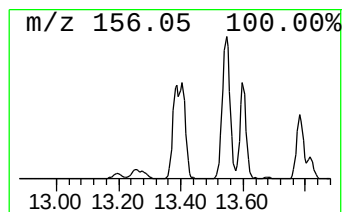
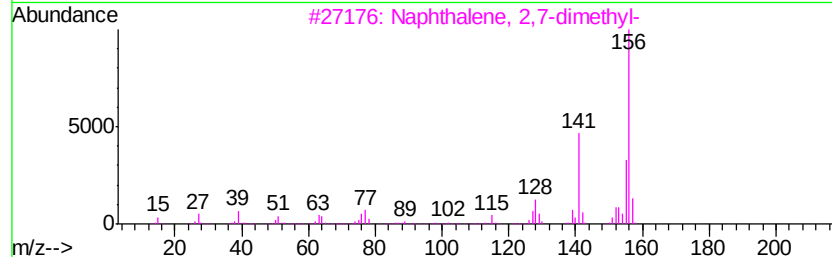
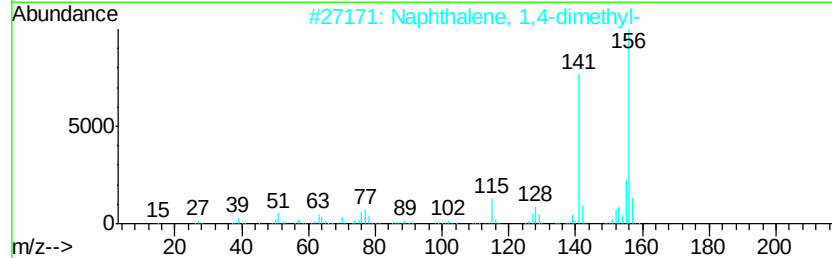
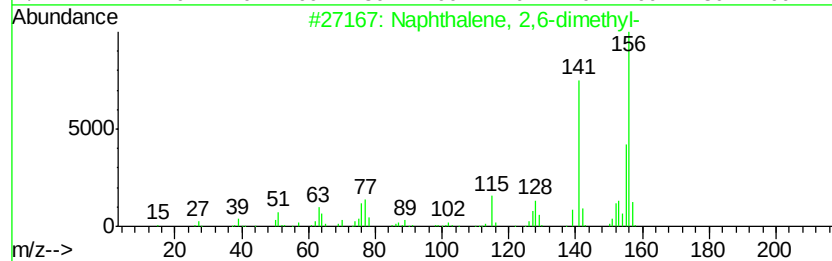
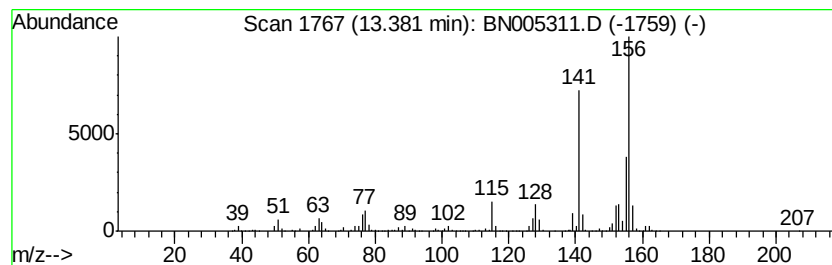
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Naphthalene, 2,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.38	3.93 ng/ul	1166330	Acenaphthene-d10	14.23
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 98
2		Naphthalene, 1,4-dimethyl-	156 C12H12	000571-58-4 97
3		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 97
4		Naphthalene, 1,3-dimethyl-	156 C12H12	000575-41-7 97
5		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 97



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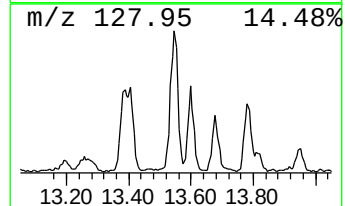
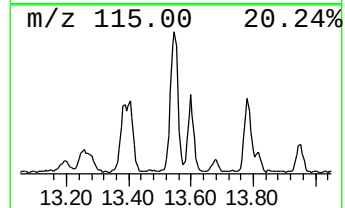
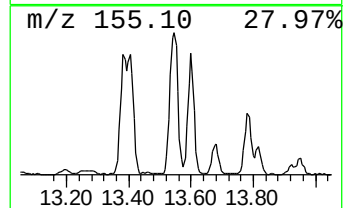
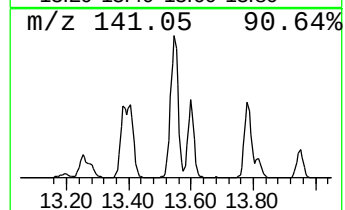
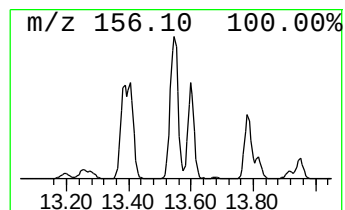
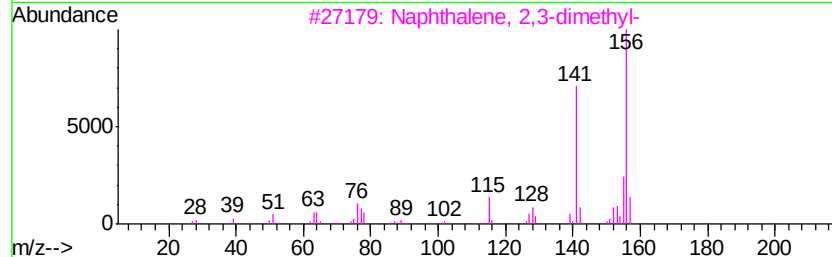
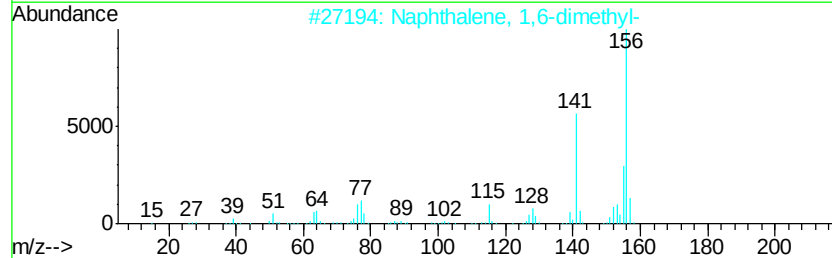
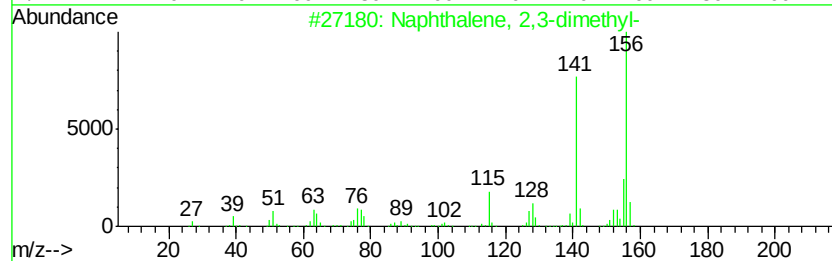
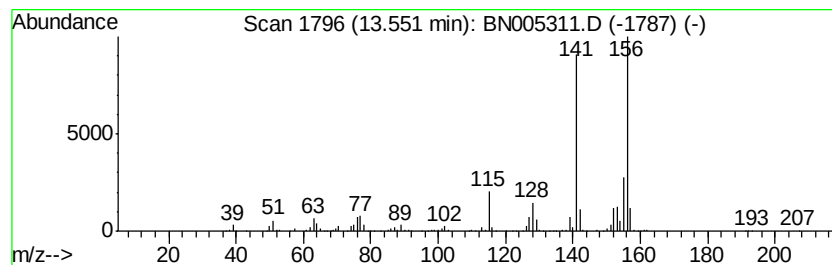
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ClientSampleID :
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Quant Title : SVOA CALIBRATION

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

Peak Number 3 Naphthalene, 1,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.55	7.41 ng/ul	2200990	Acenaphthene-d10	14.23
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, 2,3-dimethyl-	156 C12H12	000581-40-8 97
4		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 97
5		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 96



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GAHN6DL

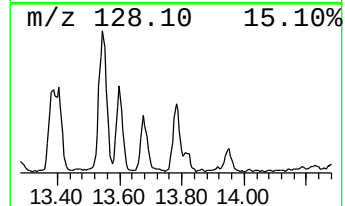
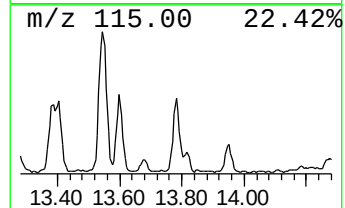
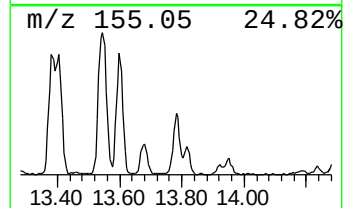
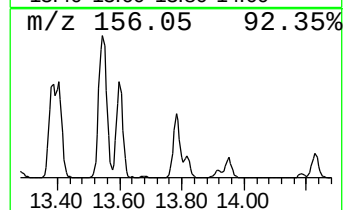
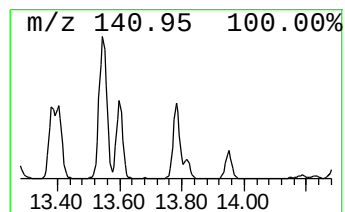
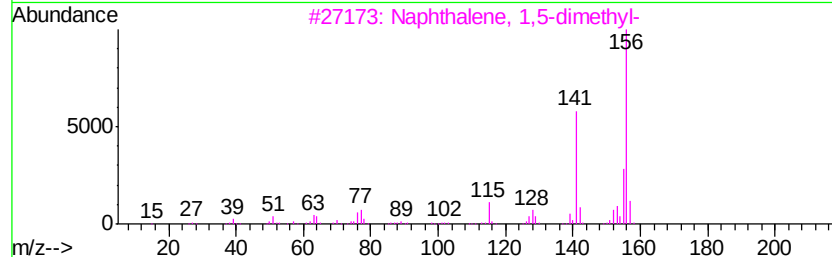
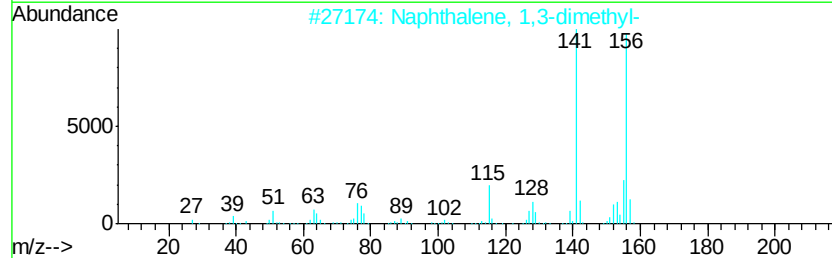
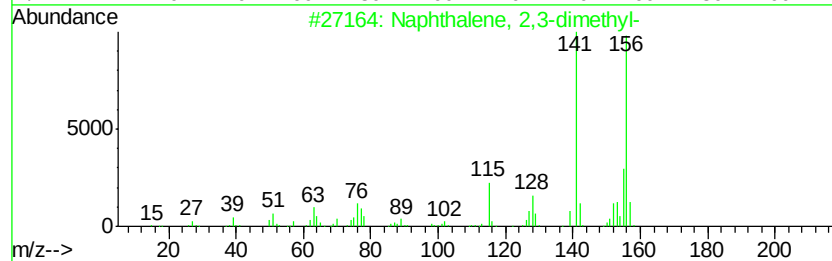
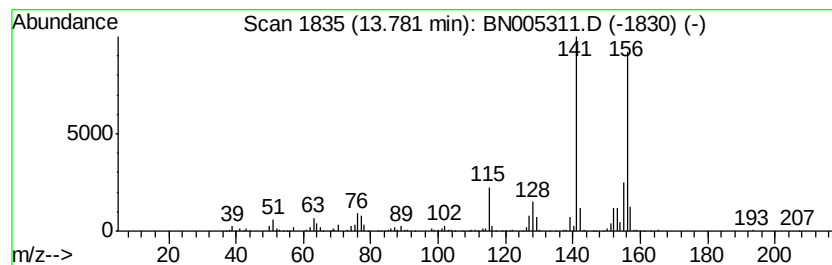
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Quant Title : SVOA CALIBRATION

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

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.78	3.18 ng/ul	944380	Acenaphthene-d10	14.23

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
3		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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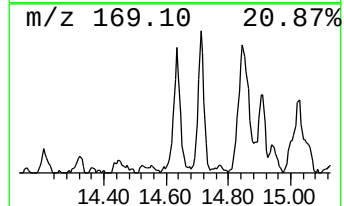
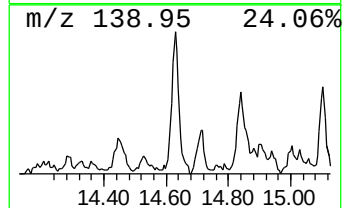
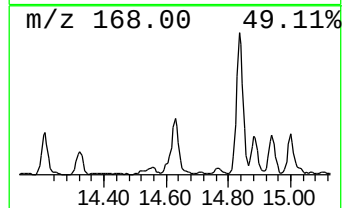
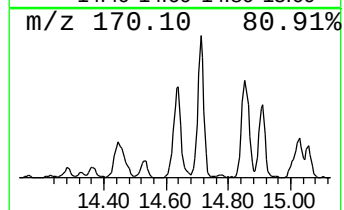
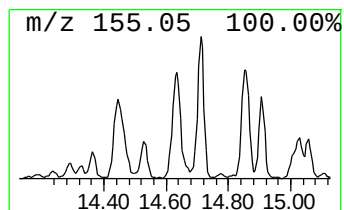
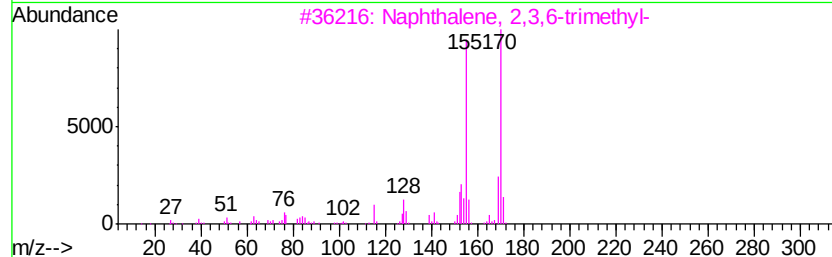
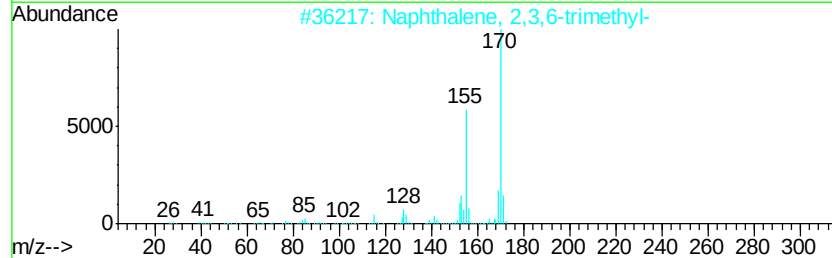
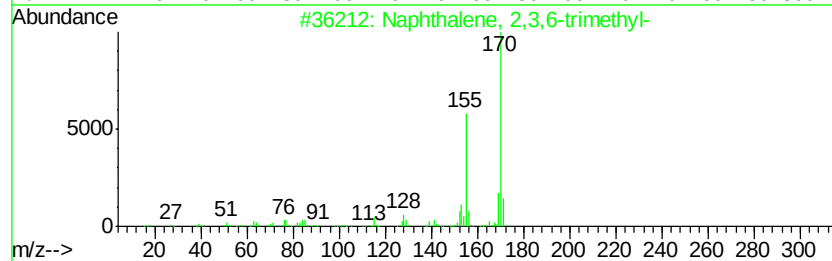
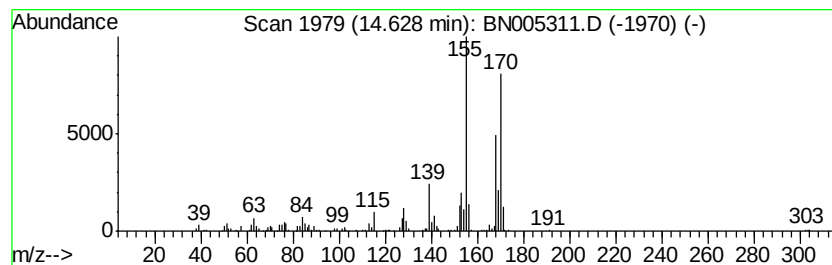
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Quant Title : SVOA CALIBRATION

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

Peak Number 5 Naphthalene, 2,3,6-trimethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.63	2.37 ng/ul	704067	Acenaphthene-d10	14.23

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	95
2		Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	95
3		Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93
4		Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93
5		Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
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Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

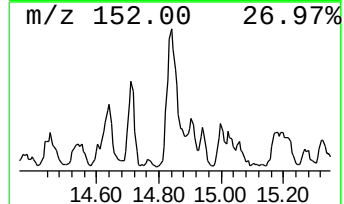
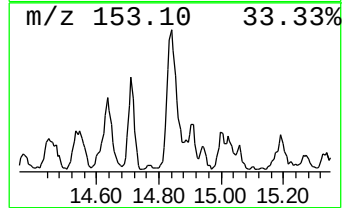
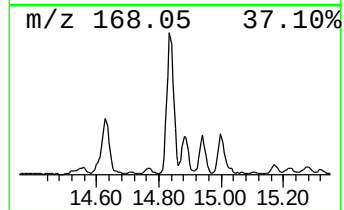
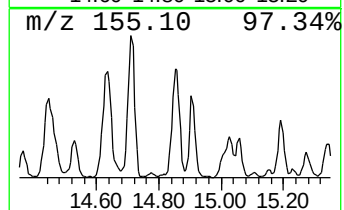
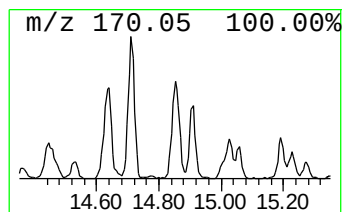
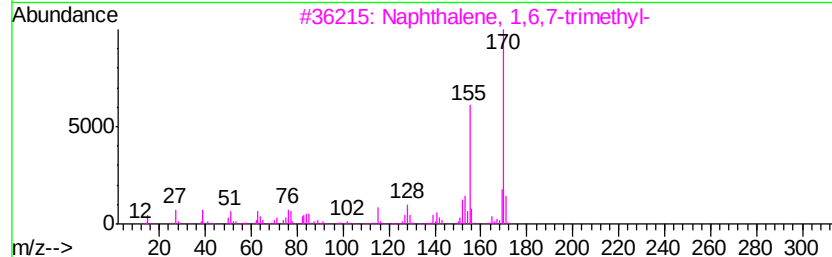
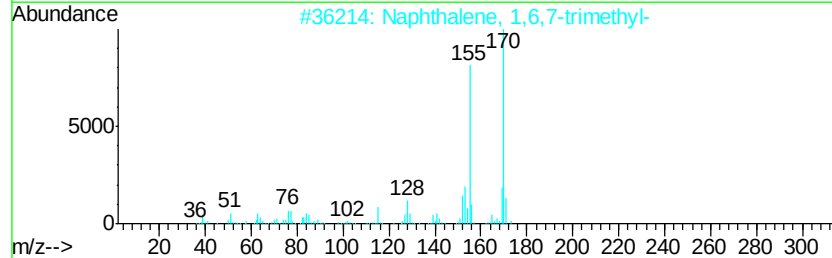
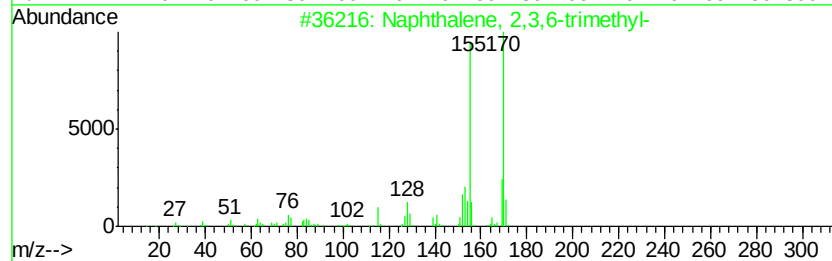
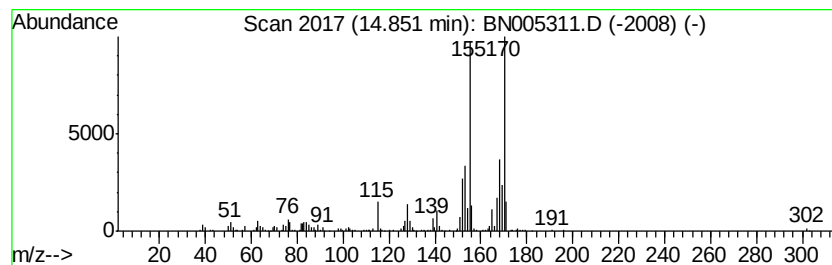
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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

Peak Number 6 Naphthalene, 1,6,7-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.85	3.45 ng/ul	1025400	Acenaphthene-d10	14.23	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	55
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	50
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	46
4	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	45
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	45



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
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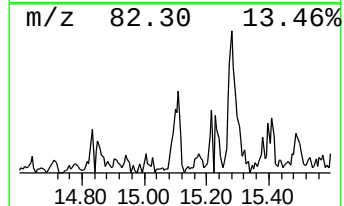
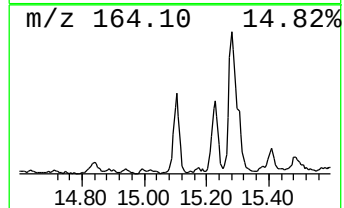
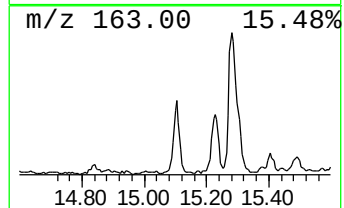
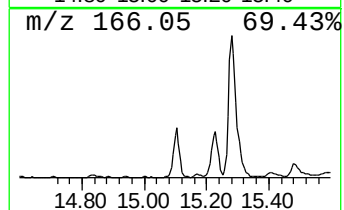
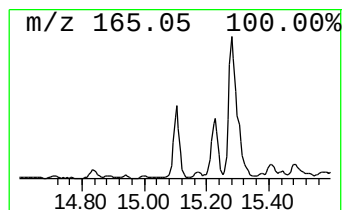
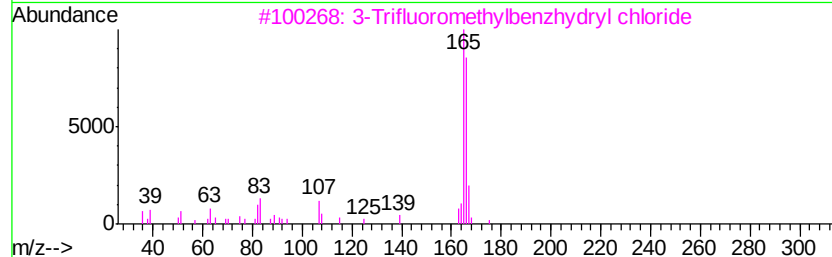
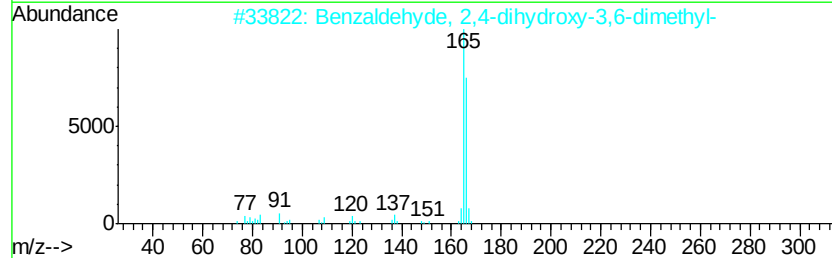
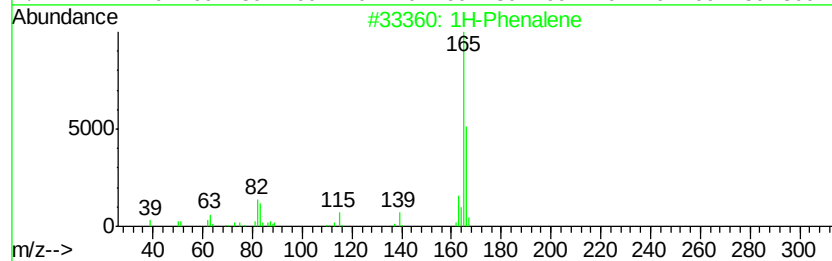
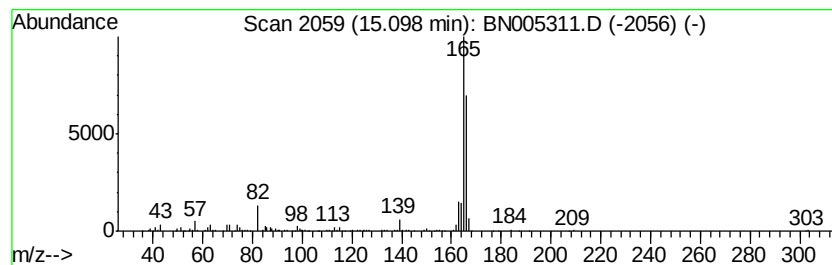
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Quant Title : SVOA CALIBRATION

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

Peak Number 7 1H-Phenalene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	2.27 ng/ul	674926	Acenaphthene-d10	14.23

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Phenalene	166	C13H10	000203-80-5	80
2		Benzaldehyde, 2,4-dihydroxy-3,6-...	166	C9H10O3	034883-14-2	64
3		3-Trifluoromethylbenzhydryl chlo...	270	C14H10ClF3	067240-79-3	56
4		L-Valine, N-[(9H-fluoren-9-ylmet...	339	C20H21N04	068858-20-8	56
5		Fluorene, 9-chloro-	200	C13H9Cl	006630-65-5	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
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Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
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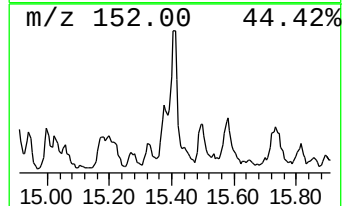
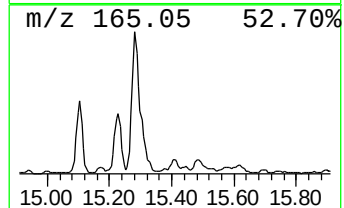
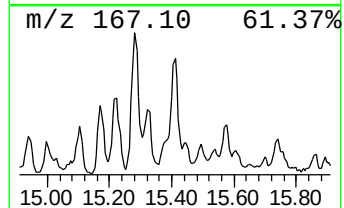
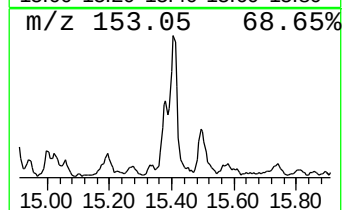
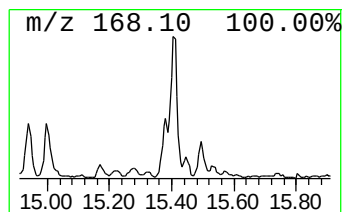
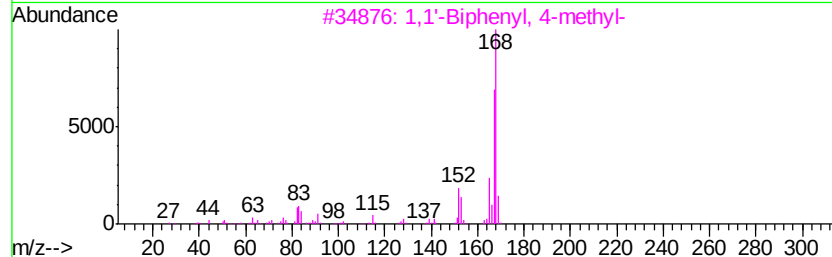
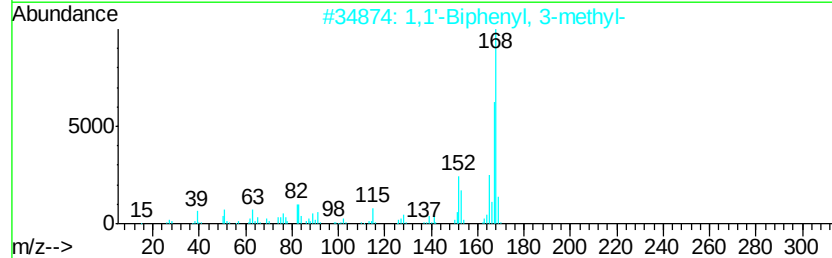
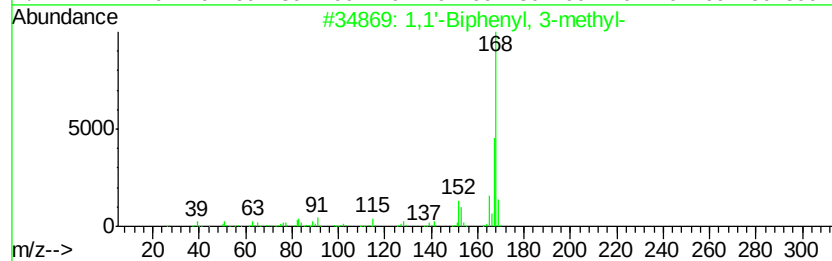
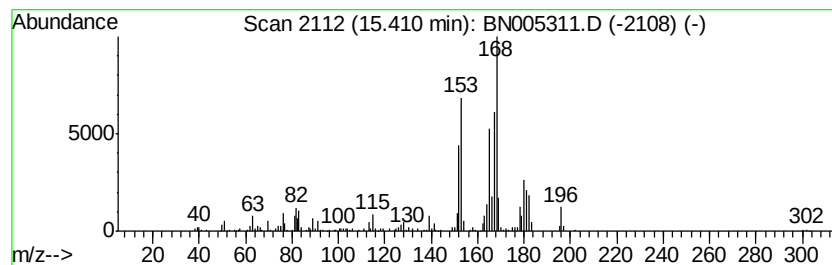
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Quant Title : SVOA CALIBRATION

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

Peak Number 8 unknown-01 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.41	2.24 ng/ul	664786	Acenaphthene-d10	14.23

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	49
2		1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	46
3		1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	46
4		1-Isopropenylnaphthalene	168	C13H12	001855-47-6	46
5		1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	38



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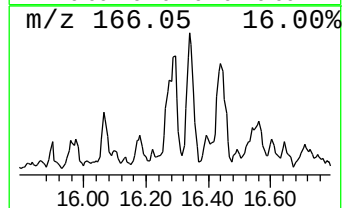
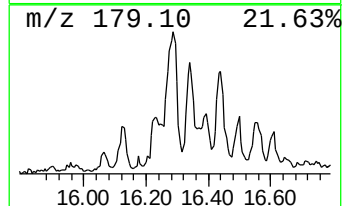
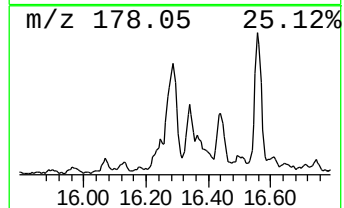
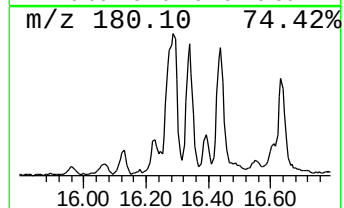
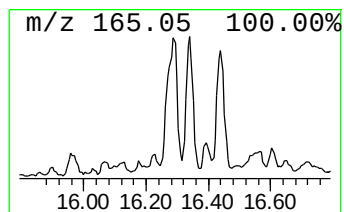
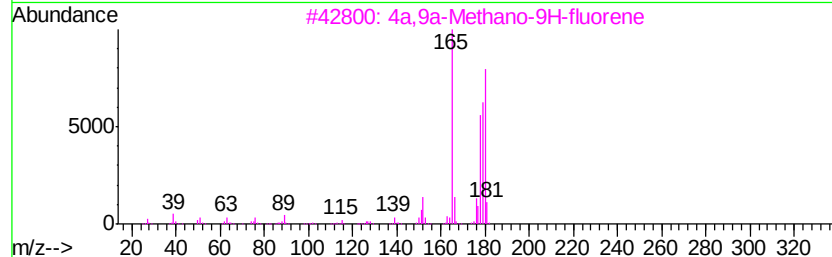
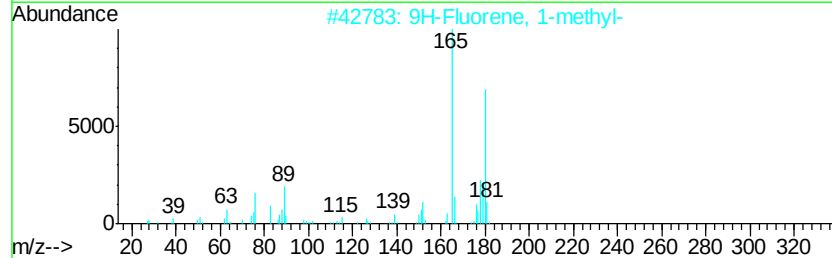
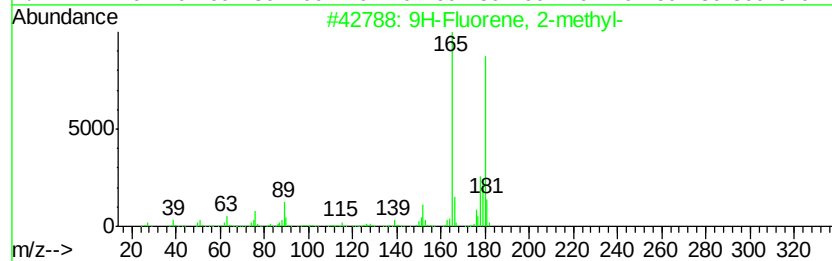
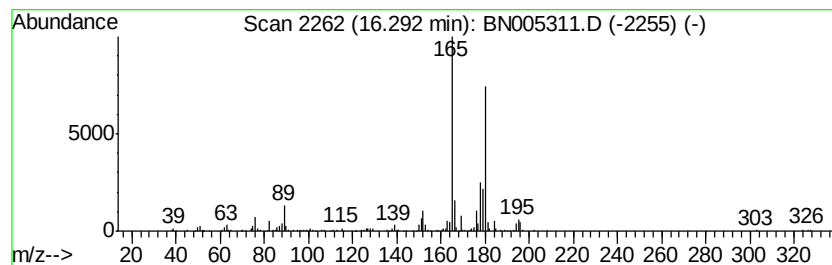
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Quant Title : SVOA CALIBRATION

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

Peak Number 9 9H-Fluorene, 2-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.		
16.29	2.43 ng/ul	866896	Phenanthrene-d10	16.98		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93	
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90	
3	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	86	
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	81	
5	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	81	



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
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Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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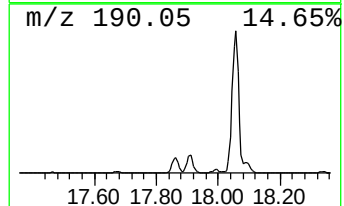
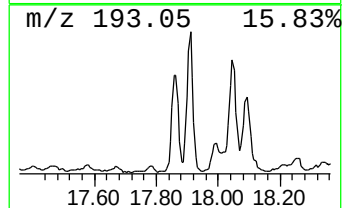
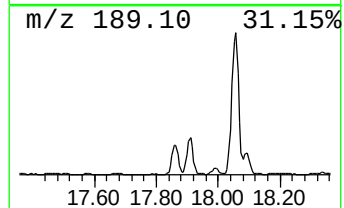
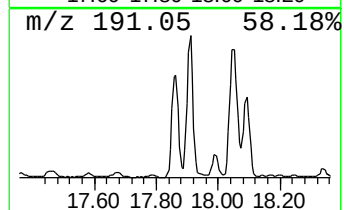
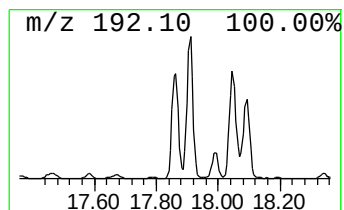
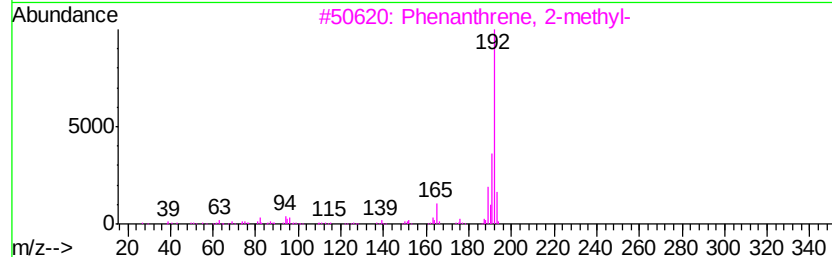
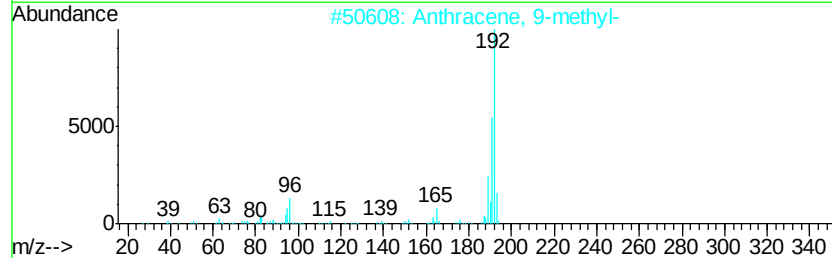
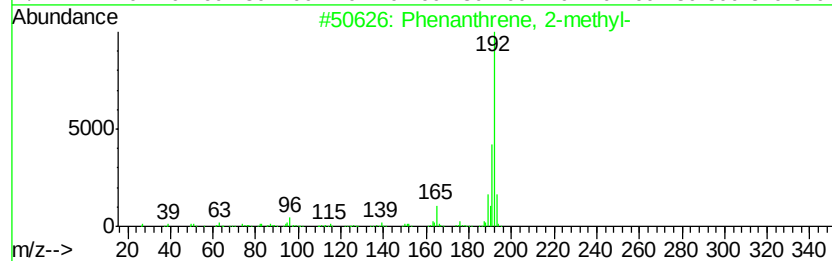
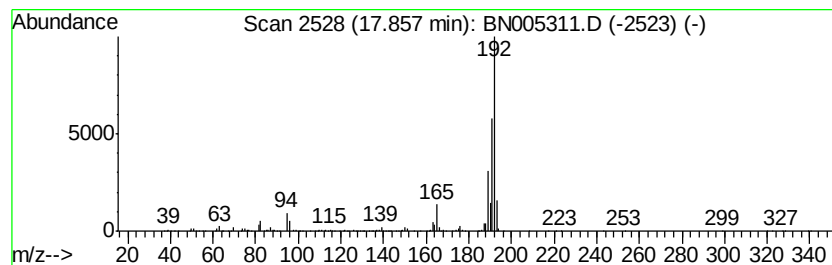
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Quant Title : SVOA CALIBRATION

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

Peak Number 10 Anthracene, 9-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.86	5.07 ng/ul	1807280	Phenanthrene-d10	16.98

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2		Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
3		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5		Anthracene, 2-methyl-	192	C15H12	000613-12-7	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GAHN6DL

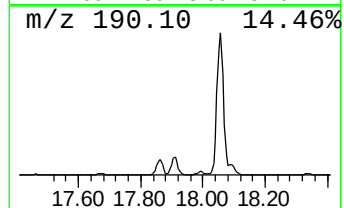
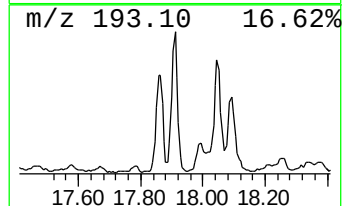
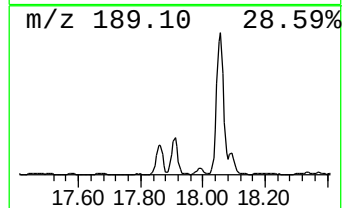
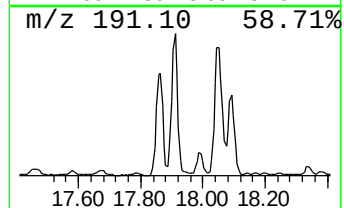
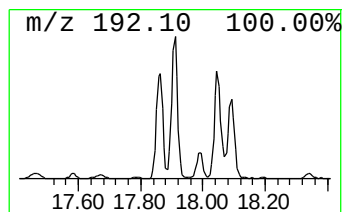
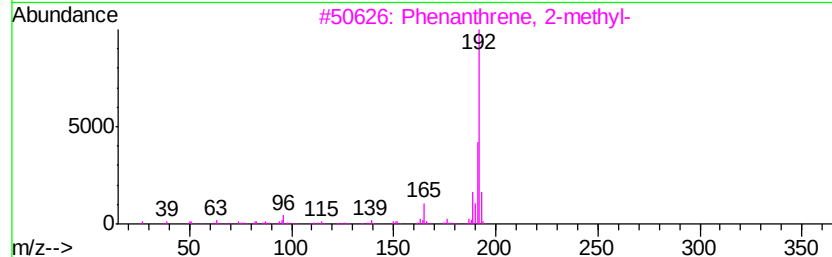
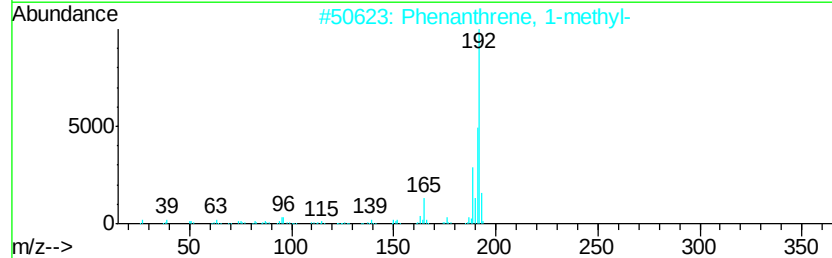
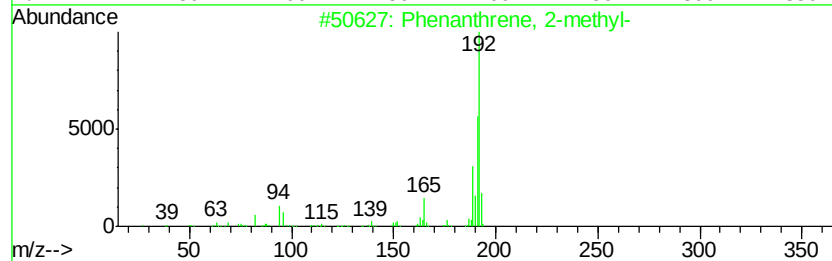
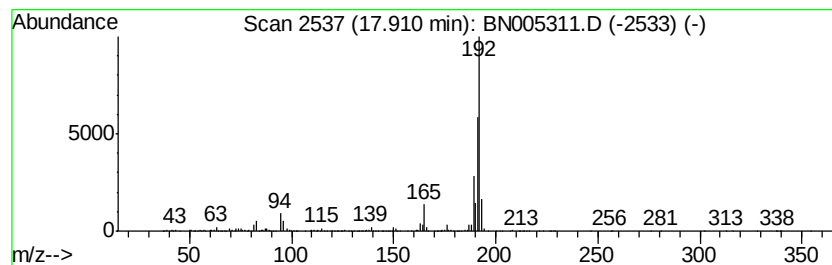
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Quant Title : SVOA CALIBRATION

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

Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.91	6.74 ng/ul	2402980	Phenanthrene-d10	16.98

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3			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	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
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Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

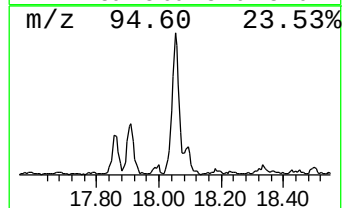
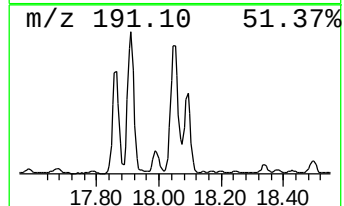
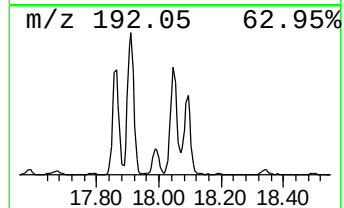
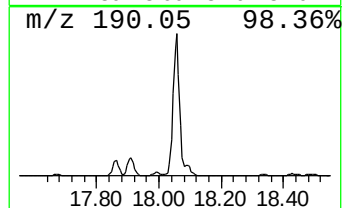
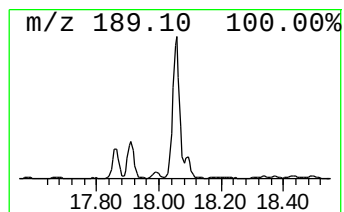
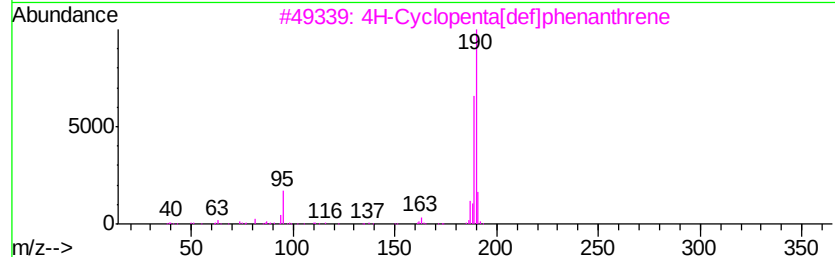
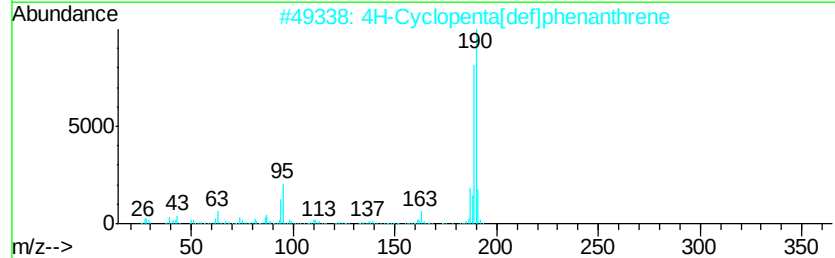
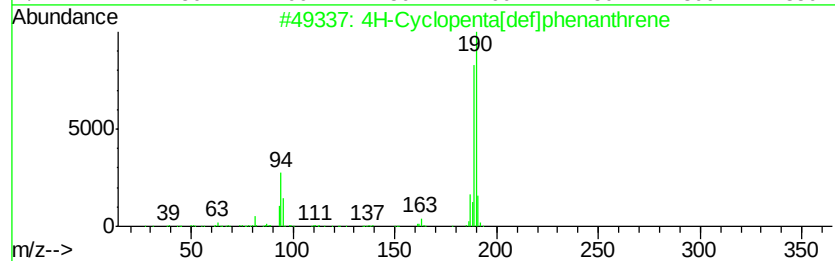
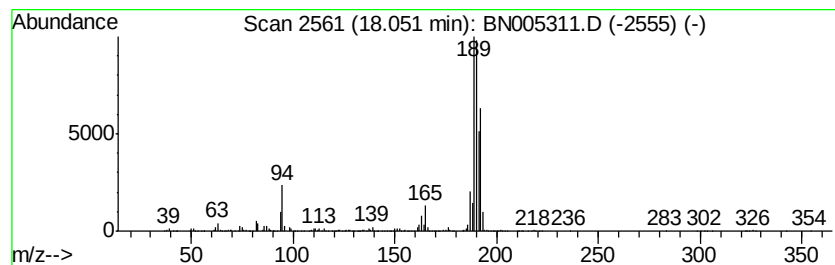
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Quant Title : SVOA CALIBRATION

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

Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.05	12.50 ng/ul	4454540	Phenanthrene-d10	16.98	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
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Sample : K2456-16DL 10X
Misc :
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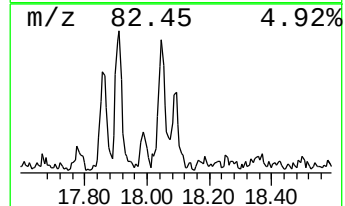
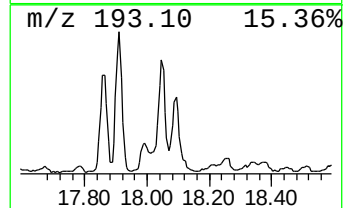
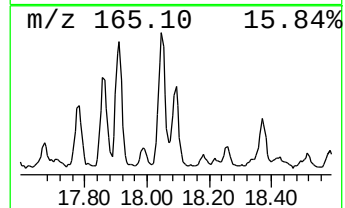
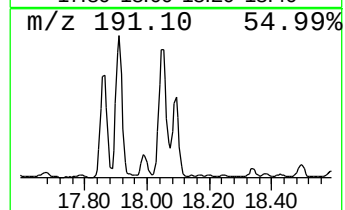
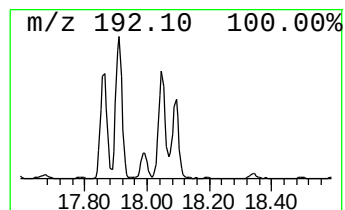
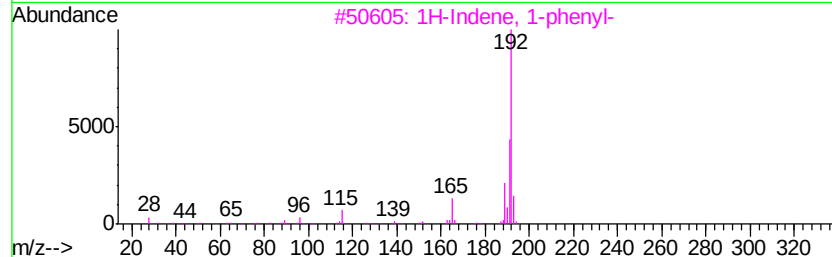
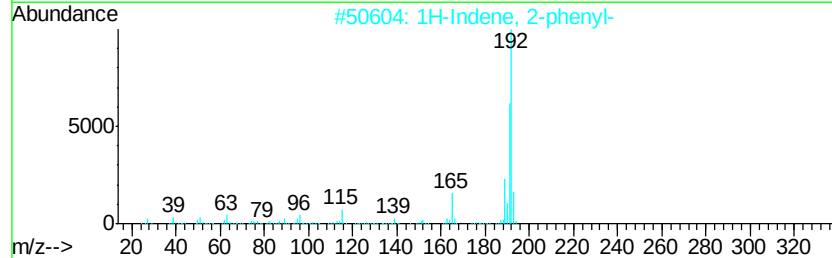
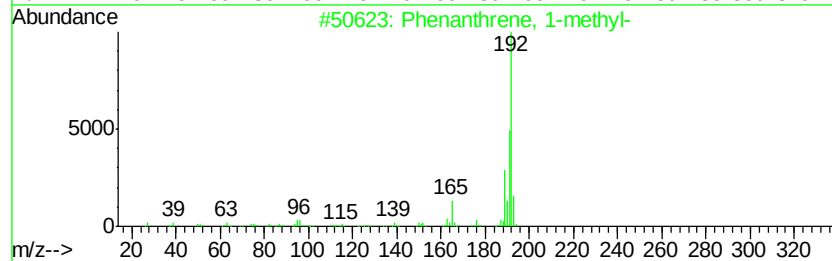
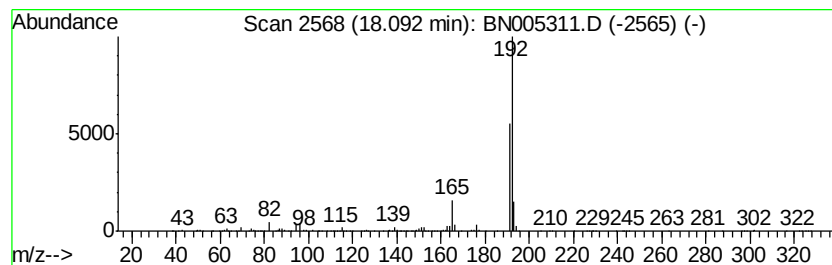
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Quant Title : SVOA CALIBRATION

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

Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	3.40 ng/ul	1212470	Phenanthrene-d10	16.98

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2			1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
3			1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	91
4			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
5			1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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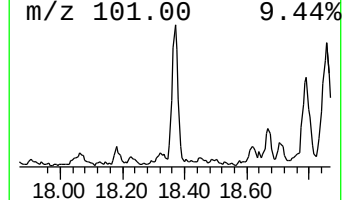
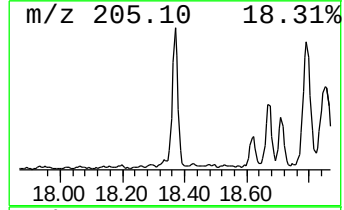
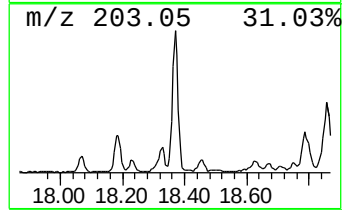
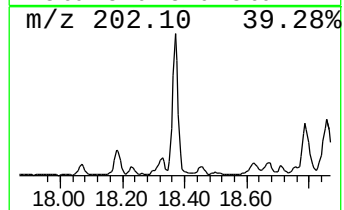
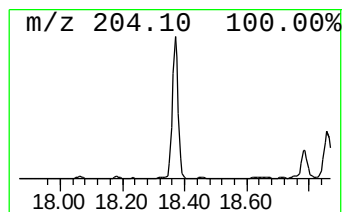
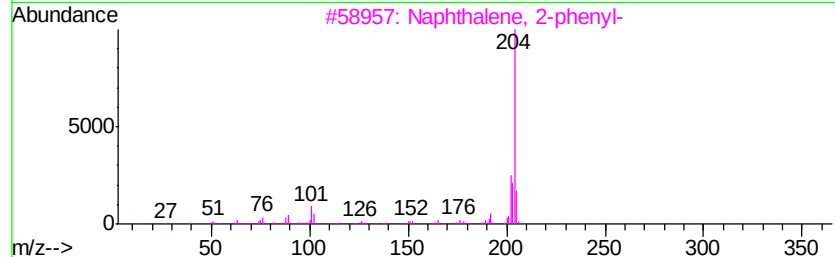
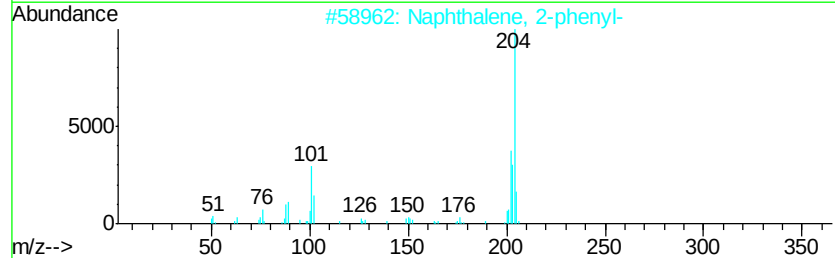
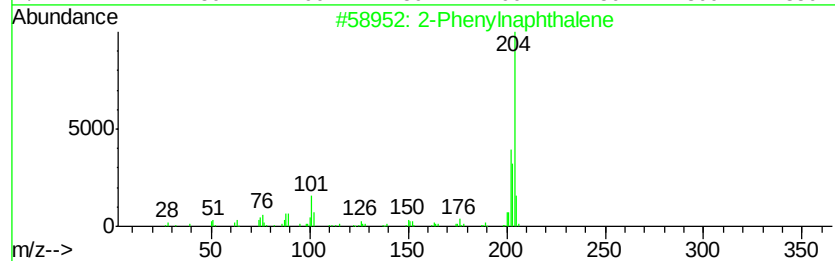
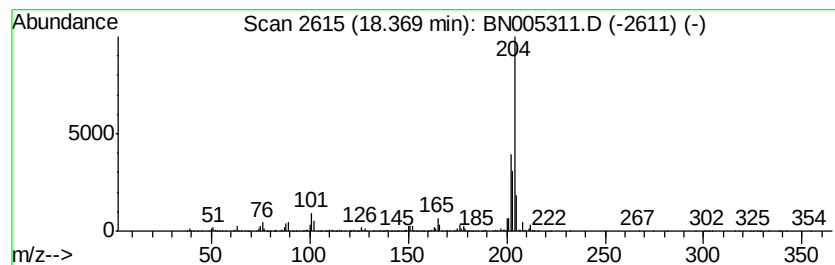
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Quant Title : SVOA CALIBRATION

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

Peak Number 14 2-Phenylnaphthalene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.37	4.43 ng/ul	1577520	Phenanthrene-d10	16.98

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Phenylnaphthalene	204	C16H12	035465-71-5	70
2			Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
3			Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4			Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
5			Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	58



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Data File : BN005311.D
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Misc :
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ClientSampleId :
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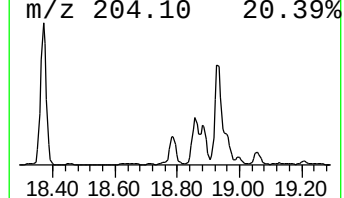
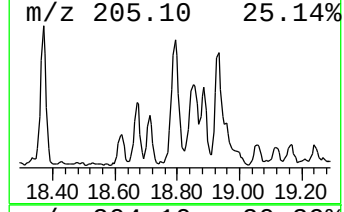
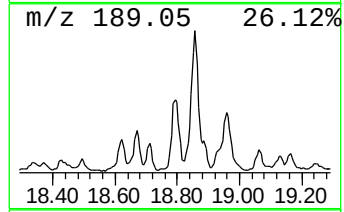
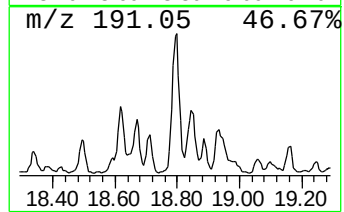
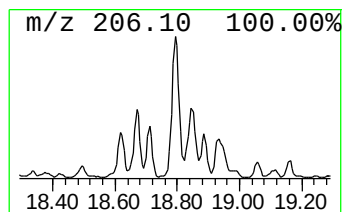
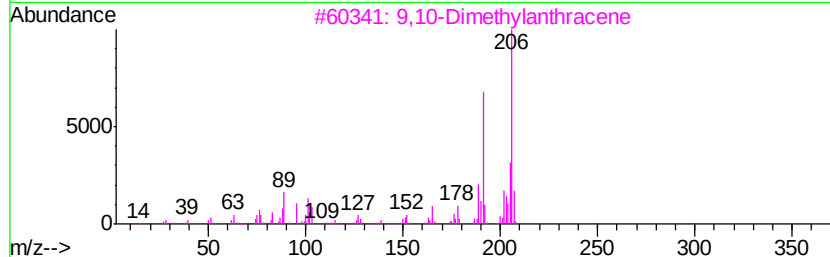
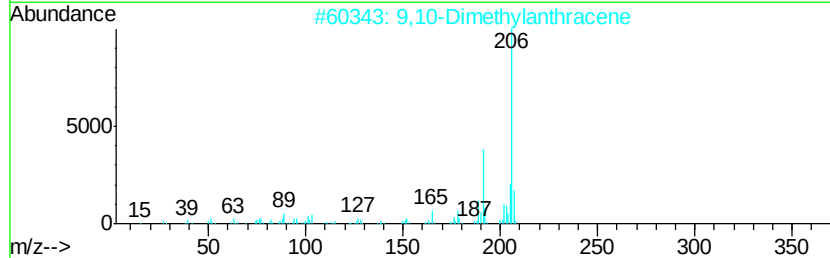
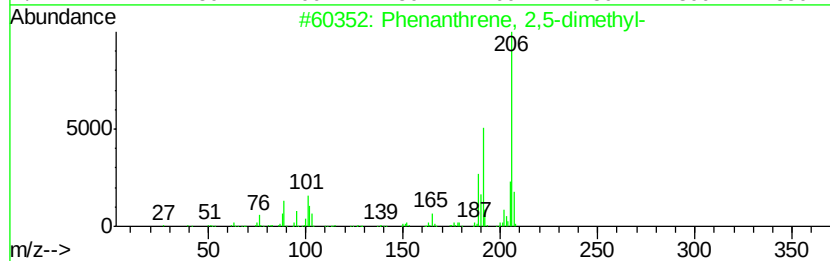
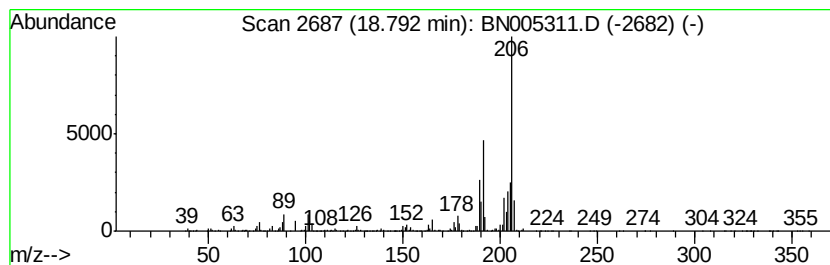
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Quant Title : SVOA CALIBRATION

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

Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.79	4.52 ng/ul	1609970	Phenanthrene-d10	16.98

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
2		9,10-Dimethylantracene	206	C16H14	000781-43-1	90
3		9,10-Dimethylantracene	206	C16H14	000781-43-1	90
4		1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	76
5		di-p-Tolylacetylene	206	C16H14	002789-88-0	74



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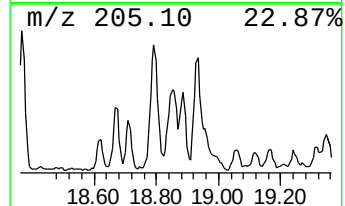
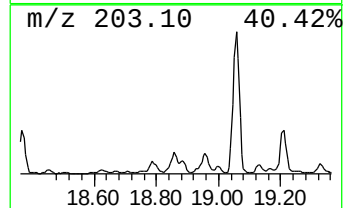
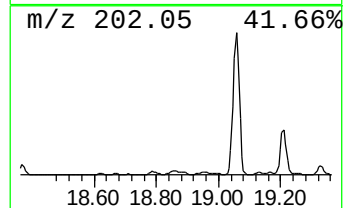
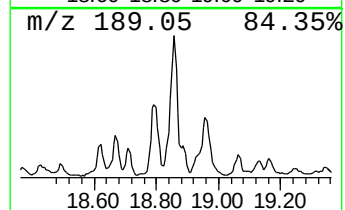
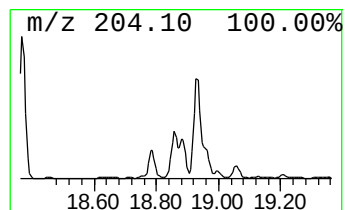
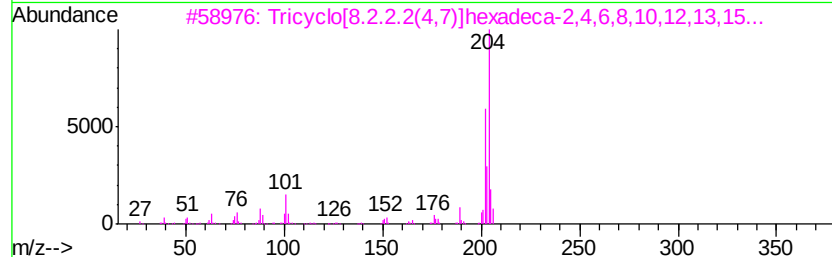
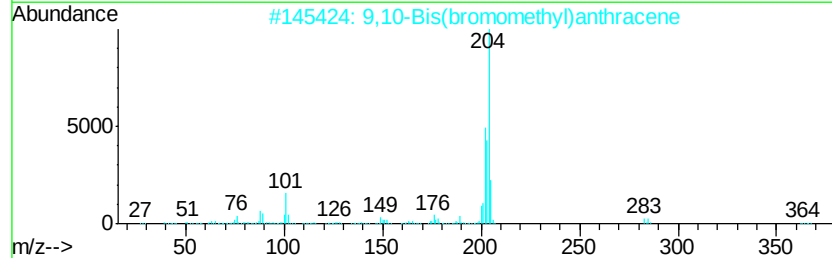
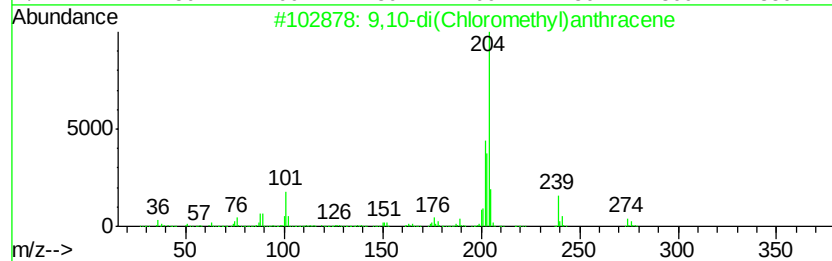
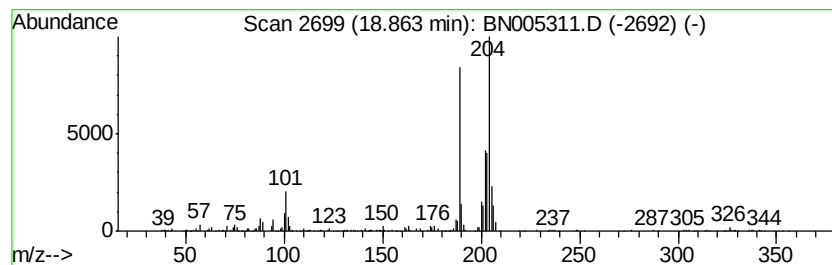
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Quant Title : SVOA CALIBRATION

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

Peak Number 16 unknown-02 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.		
18.86	3.60 ng/ul	1283570	Phenanthrene-d10	16.98		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	47	
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	46	
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	43	
4	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	38	
5	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	38	



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
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Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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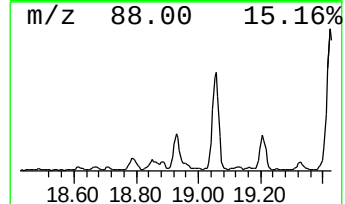
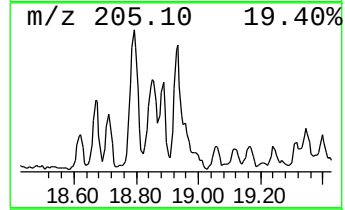
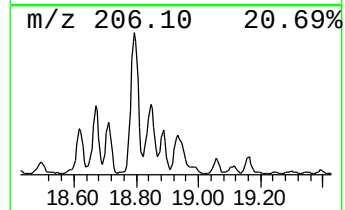
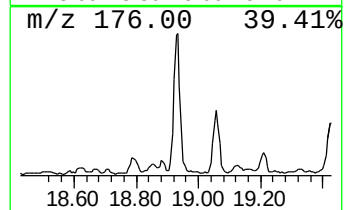
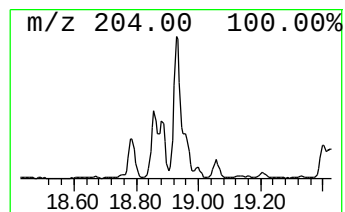
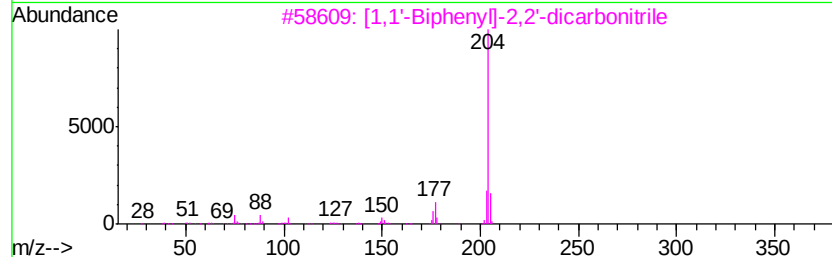
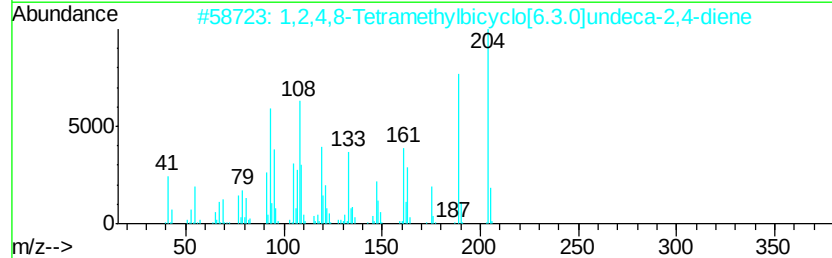
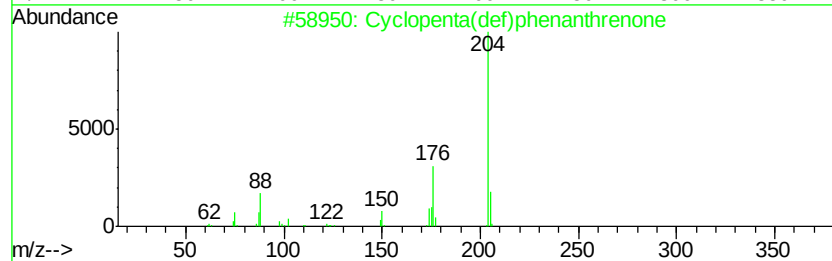
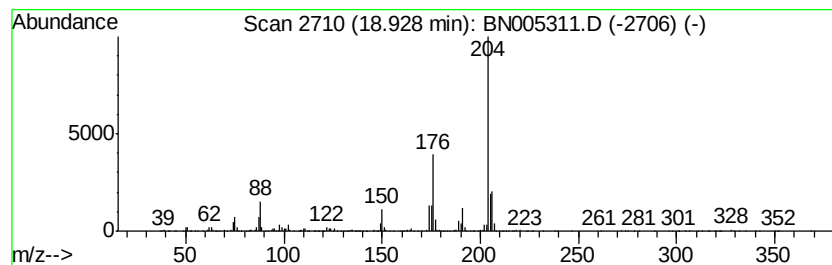
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Quant Title : SVOA CALIBRATION

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

Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	4.97 ng/ul	1772040	Phenanthrene-d10	16.98

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2		1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
3		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
4		[1,1'-Biphenyl]-4-ol, 3-chloro-	204	C12H9ClO	000092-04-6	43
5		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	40



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GAHN6DL

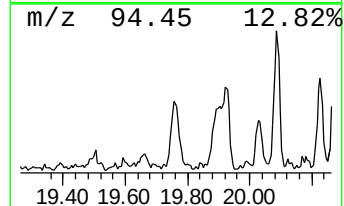
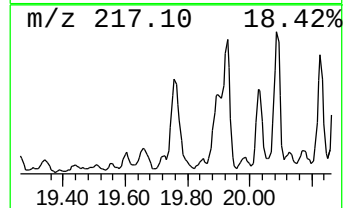
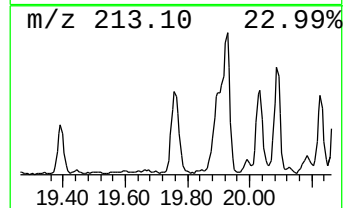
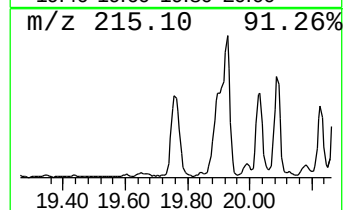
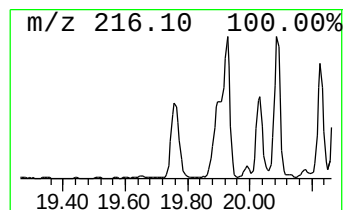
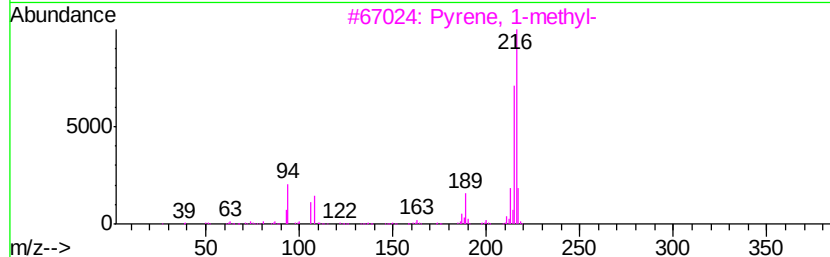
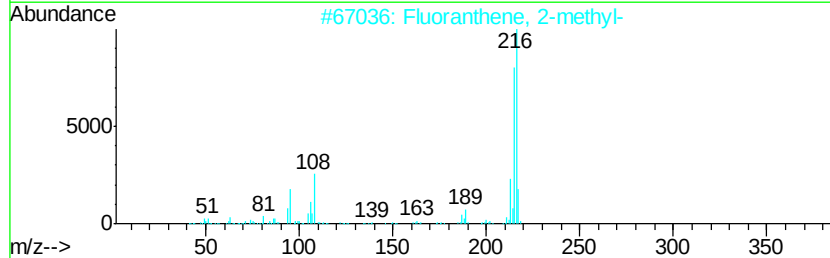
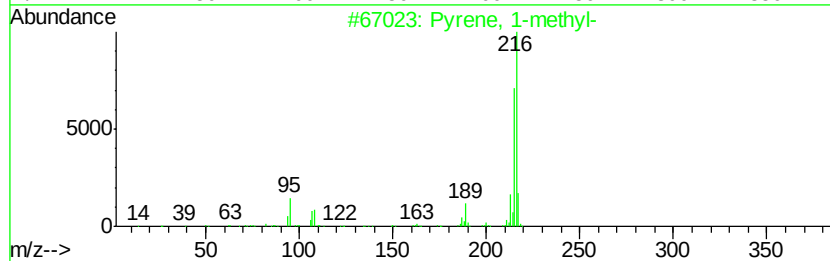
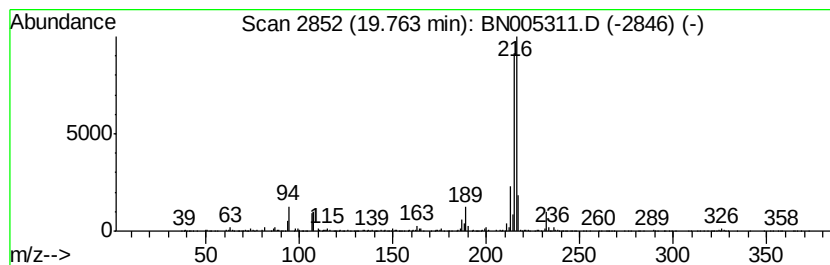
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Quant Title : SVOA CALIBRATION

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

Peak Number 19 Pyrene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.76	3.11 ng/ul	1905240	Chrysene-d12	21.21

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3			Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
5			Pyrene, 2-methyl-	216	C17H12	003442-78-2	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

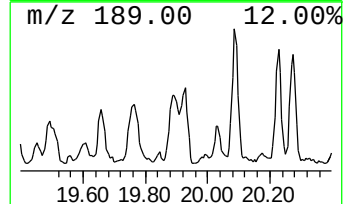
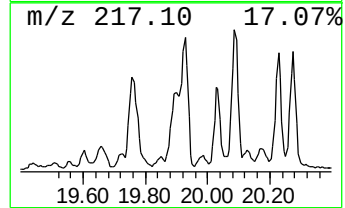
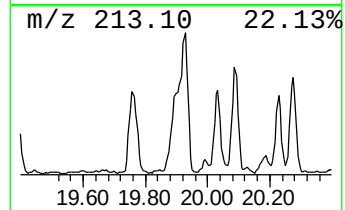
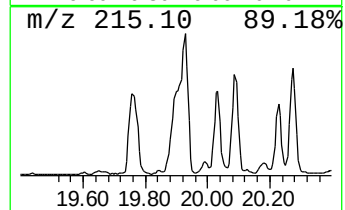
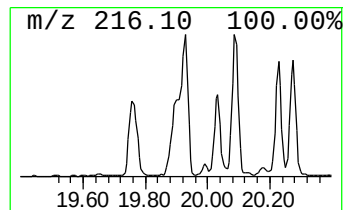
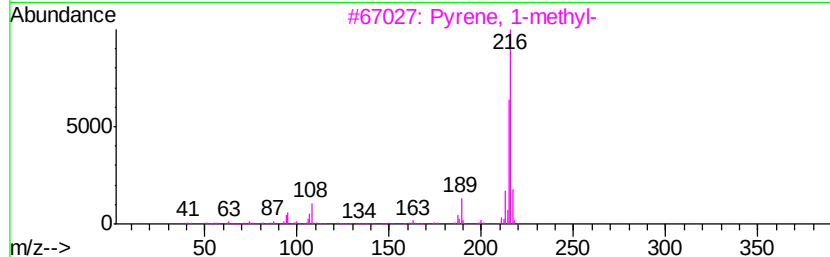
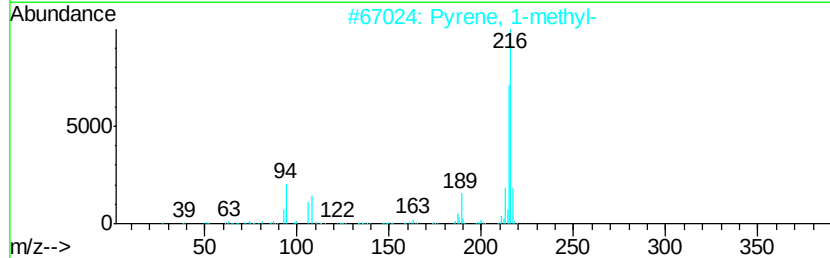
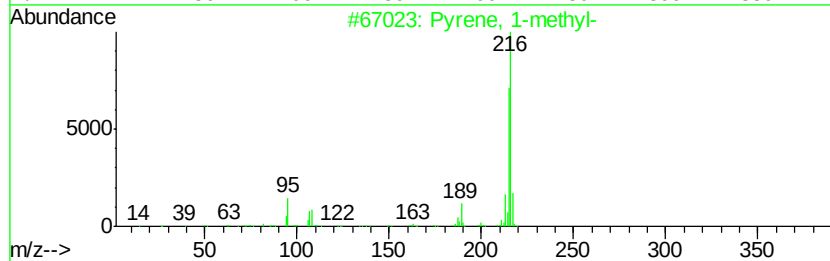
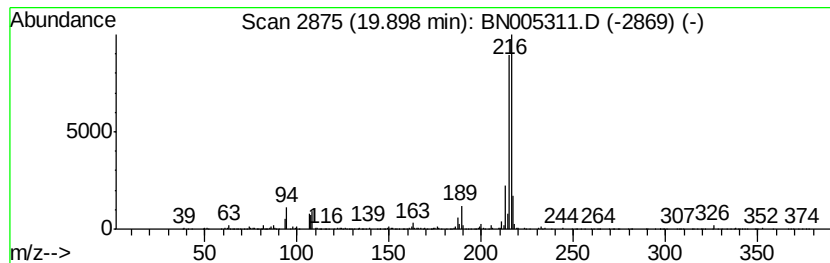
Instrument :
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ClientSampleId :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION

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

Peak Number 20 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.90	2.89 ng/ul	1773850	Chrysene-d12	21.21
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7 97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7 95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7 95
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6 91
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6 90



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

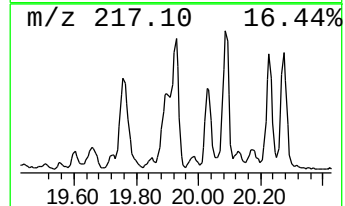
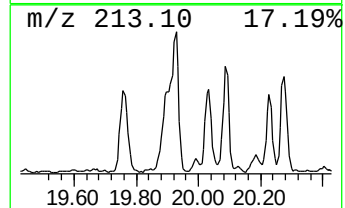
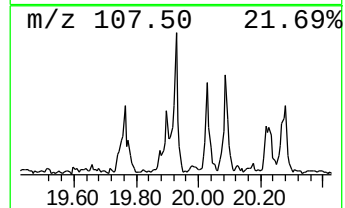
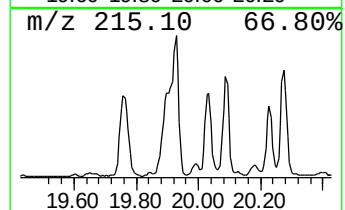
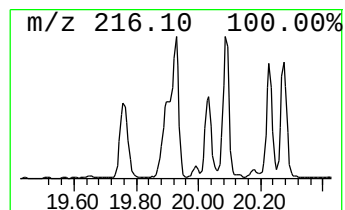
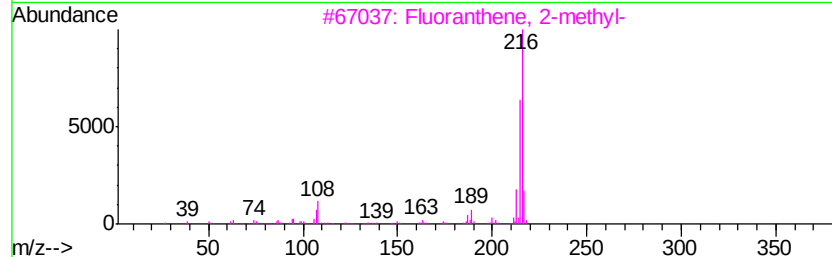
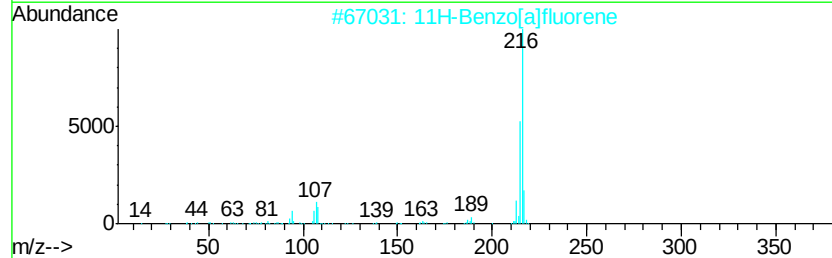
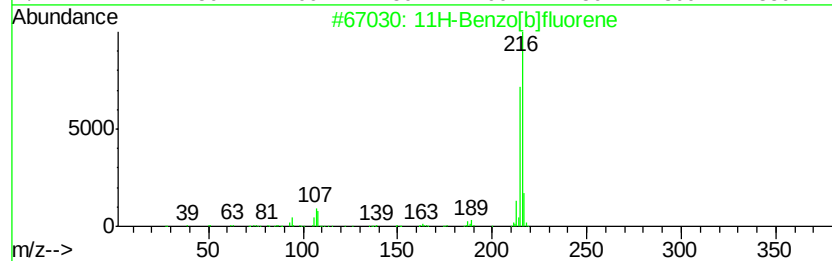
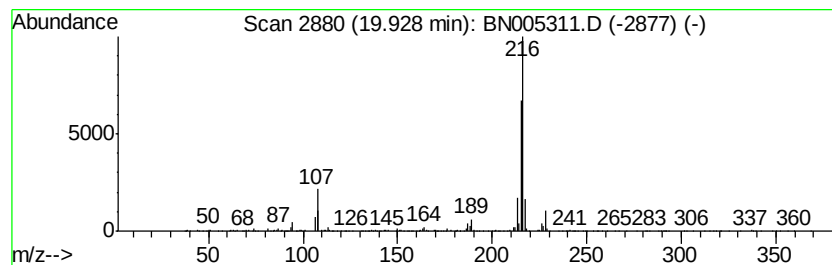
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ClientSampleId :
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Quant Title : SVOA CALIBRATION

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

Peak Number 21 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.93	3.09 ng/ul	1895840	Chrysene-d12	21.21
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		11H-Benzo[b]fluorene	216 C17H12	000243-17-4 95
2		11H-Benzo[a]fluorene	216 C17H12	000238-84-6 87
3		Fluoranthene, 2-methyl-	216 C17H12	033543-31-6 81
4		Pyrene, 4-methyl-	216 C17H12	003353-12-6 76
5		Pyrene, 1-methyl-	216 C17H12	002381-21-7 74



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

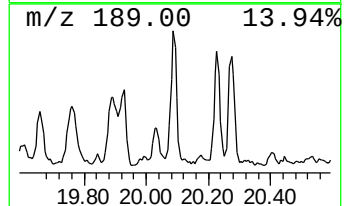
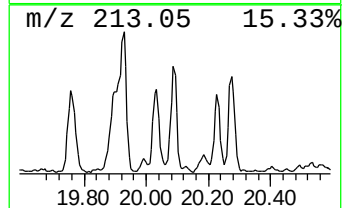
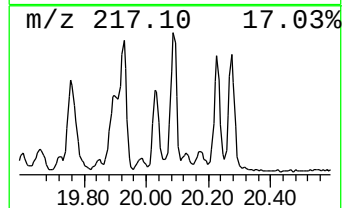
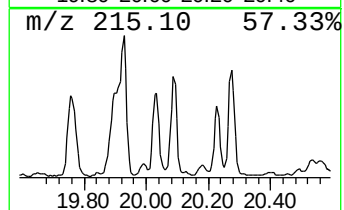
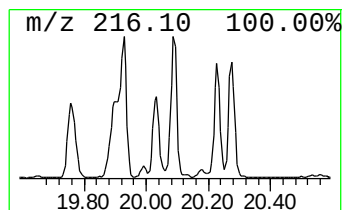
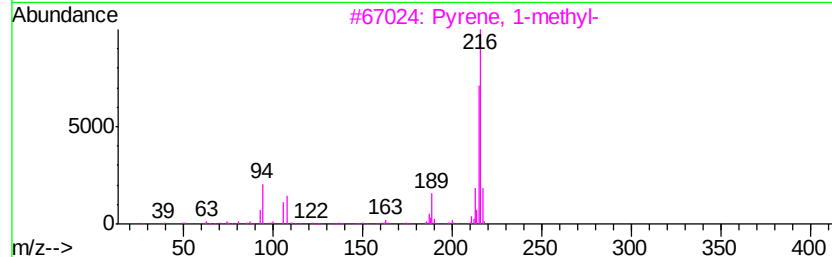
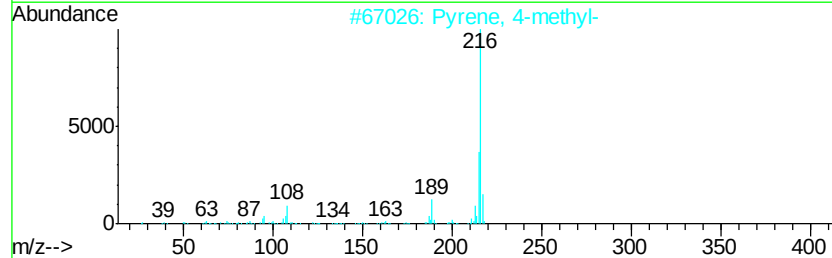
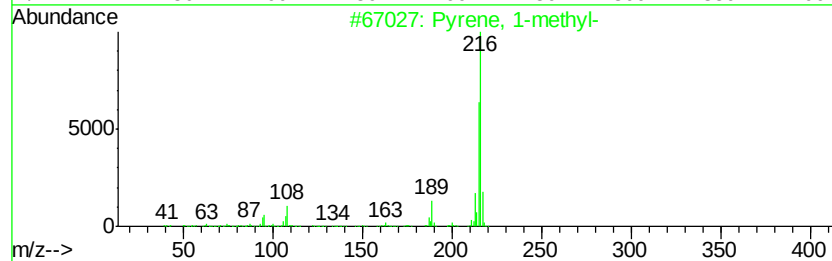
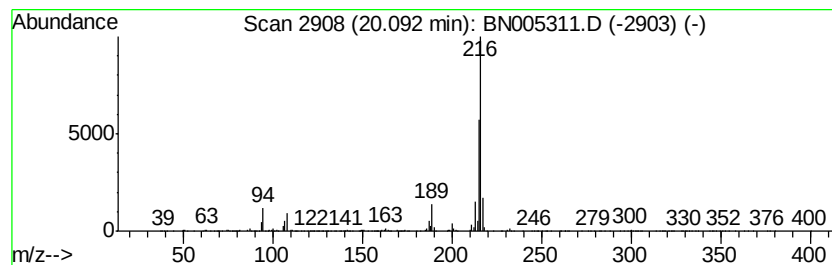
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Quant Title : SVOA CALIBRATION

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

Peak Number 22 Pyrene, 4-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.09	2.75 ng/ul	1686750	Chrysene-d12	21.21
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Pyrene, 1-methyl-	216 C17H12	002381-21-7	97
2	Pyrene, 4-methyl-	216 C17H12	003353-12-6	96
3	Pyrene, 1-methyl-	216 C17H12	002381-21-7	96
4	Pyrene, 1-methyl-	216 C17H12	002381-21-7	96
5	Pyrene, 2-methyl-	216 C17H12	003442-78-2	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

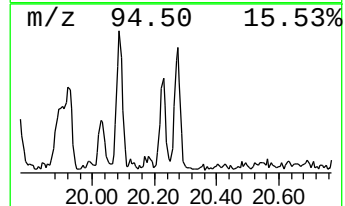
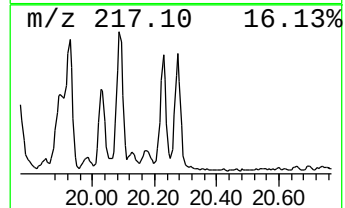
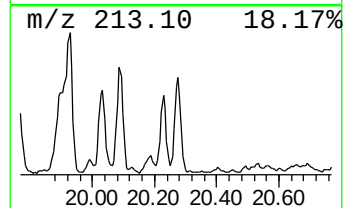
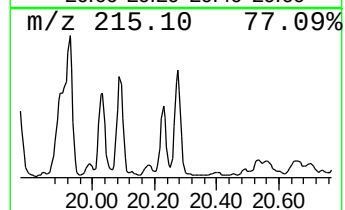
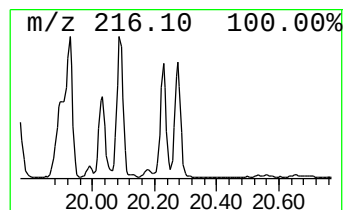
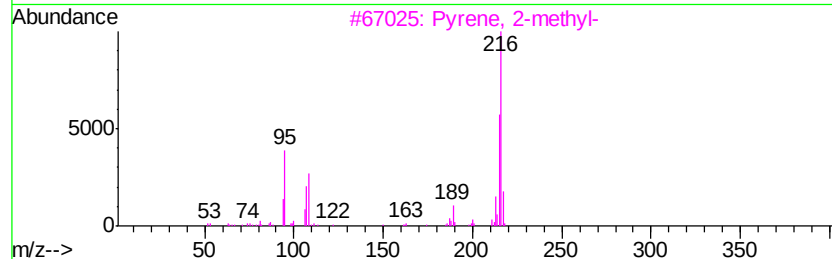
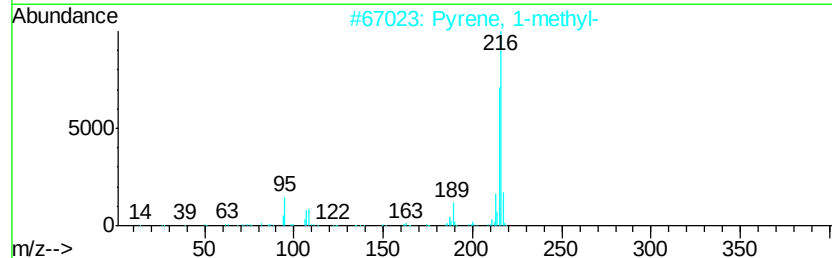
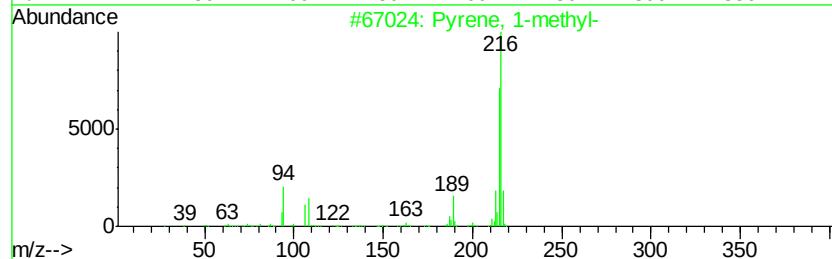
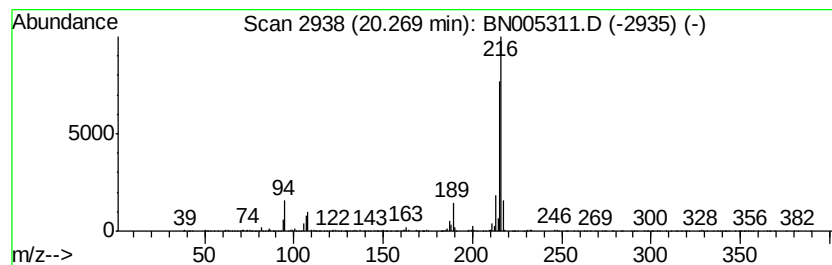
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Quant Title : SVOA CALIBRATION

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

Peak Number 24 11H-Benzo[a]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.27	2.46 ng/ul	1505700	Chrysene-d12	21.21
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 96
3		Pyrene, 2-methyl-	216 C17H12	003442-78-2 94
4		11H-Benzo[a]fluorene	216 C17H12	000238-84-6 94
5		11H-Benzo[b]fluorene	216 C17H12	000243-17-4 94



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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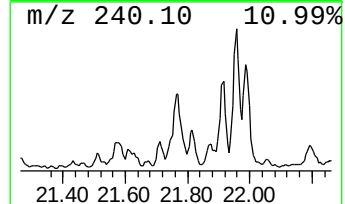
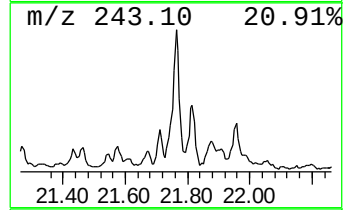
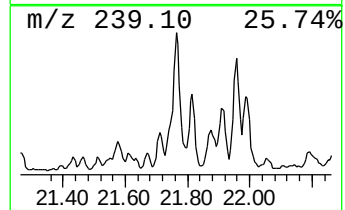
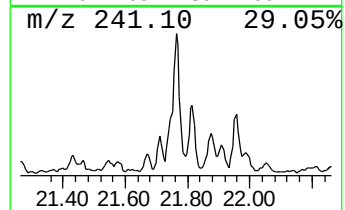
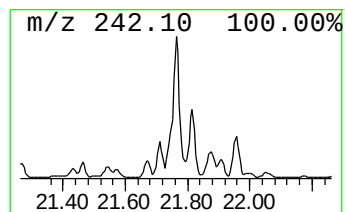
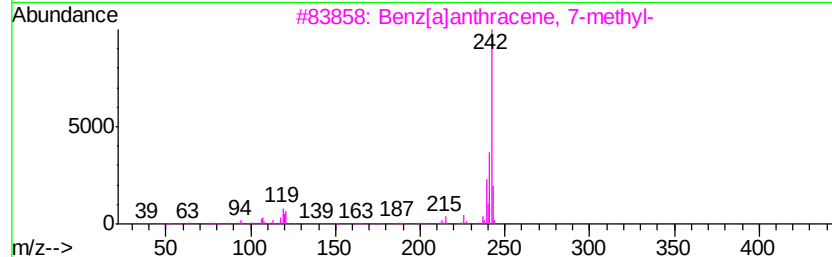
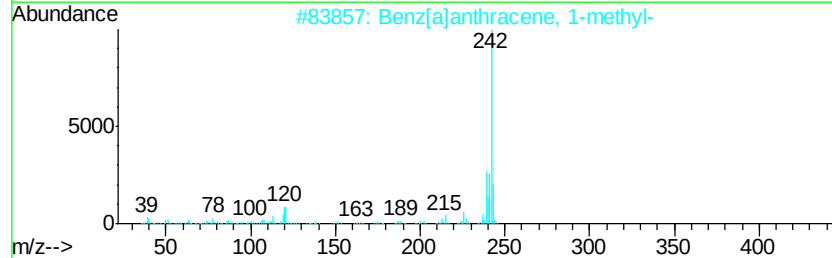
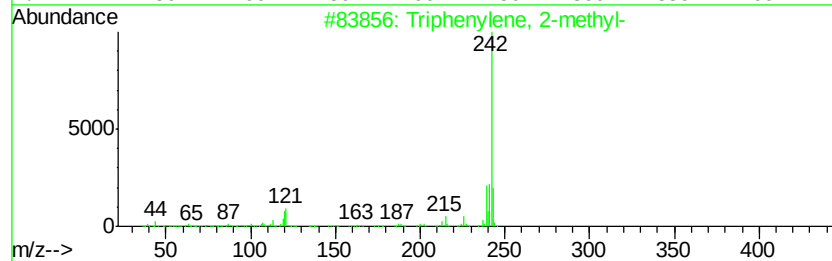
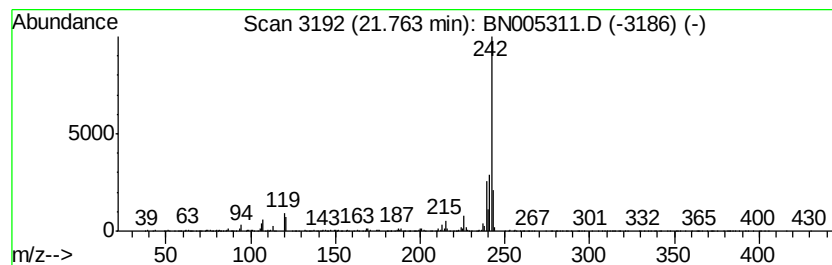
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Quant Title : SVOA CALIBRATION

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

Peak Number 25 Triphenylene, 2-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.76	2.36 ng/ul	1443670	Chrysene-d12	21.21

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
2		Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	96
3		Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
4		Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
5		Chrysene, 2-methyl-	242	C19H14	003351-32-4	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042519\
Data File : BN005311.D
Acq On : 26 Apr 2019 09:21
Operator : JU/SJ
Sample : K2456-16DL 10X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GAHN6DL

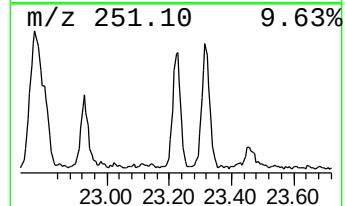
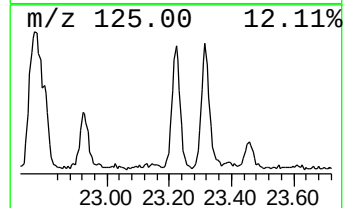
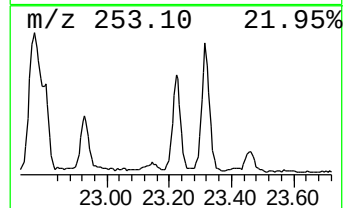
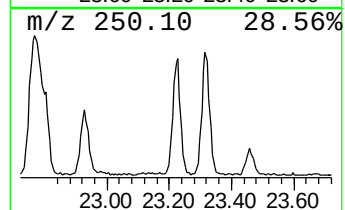
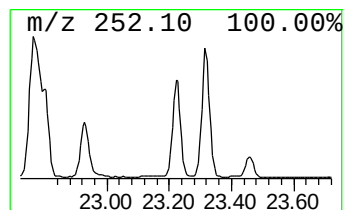
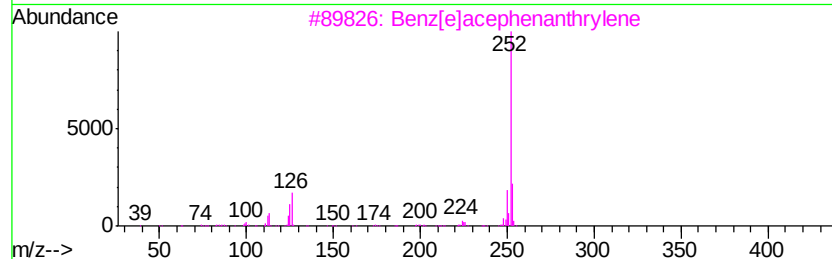
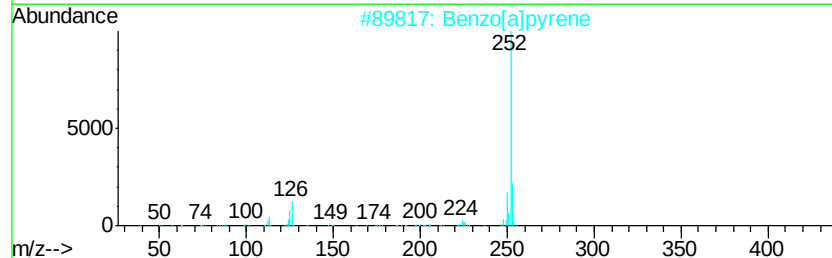
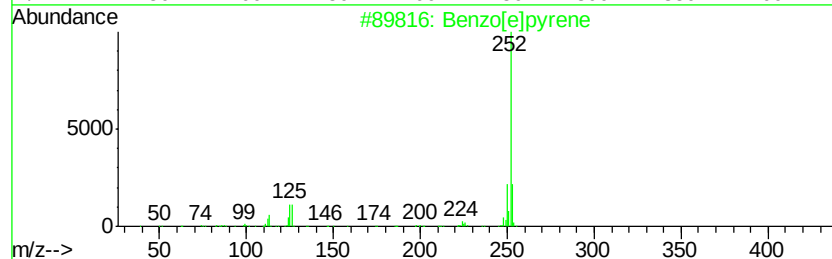
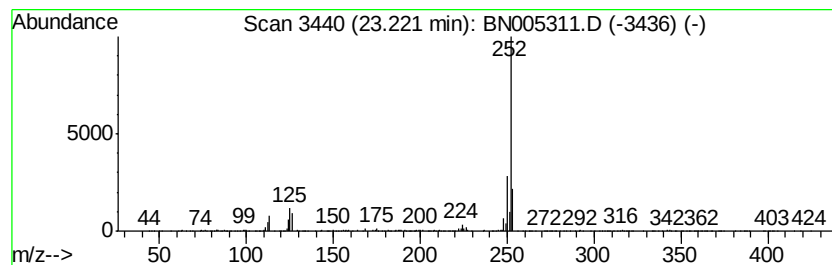
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Quant Title : SVOA CALIBRATION

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

Peak Number 27 Benzo[e]pyrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.22	2.90 ng/ul	931123	Perylene-d12	23.42

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]pyrene	252	C20H12	000192-97-2	98
2			Benzo[a]pyrene	252	C20H12	000050-32-8	96
3			Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4			Perylene	252	C20H12	000198-55-0	93
5			Perylene	252	C20H12	000198-55-0	90



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 Sample : K2456-16DL 10X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GAHN6DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
 Quant Title : SVOA CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Naphthalene, 1-me...	12.25	11.5	ng/ul	2655490	2	10.36	4616330	20.0
Naphthalene, 2,6-...	13.38	3.9	ng/ul	1166330	3	14.23	5939940	20.0
Naphthalene, 1,6-...	13.55	7.4	ng/ul	2200990	3	14.23	5939940	20.0
Naphthalene, 2,3-...	13.78	3.2	ng/ul	944380	3	14.23	5939940	20.0
Naphthalene, 2,3,...	14.63	2.4	ng/ul	704067	3	14.23	5939940	20.0
Naphthalene, 1,6,...	14.85	3.5	ng/ul	1025400	3	14.23	5939940	20.0
1H-Phenalene	15.10	2.3	ng/ul	674926	3	14.23	5939940	20.0
unknown-01	15.41	2.2	ng/ul	664786	3	14.23	5939940	20.0
9H-Fluorene, 2-me...	16.29	2.4	ng/ul	866896	4	16.98	7127030	20.0
Anthracene, 9-met...	17.86	5.1	ng/ul	1807280	4	16.98	7127030	20.0
Phenanthrene, 2-m...	17.91	6.7	ng/ul	2402980	4	16.98	7127030	20.0
4H-Cyclopenta[def...	18.05	12.5	ng/ul	4454540	4	16.98	7127030	20.0
Phenanthrene, 1-m...	18.09	3.4	ng/ul	1212470	4	16.98	7127030	20.0
2-Phenylnaphthalene	18.37	4.4	ng/ul	1577520	4	16.98	7127030	20.0
Phenanthrene, 2,5...	18.79	4.5	ng/ul	1609970	4	16.98	7127030	20.0
unknown-02	18.86	3.6	ng/ul	1283570	4	16.98	7127030	20.0
Cyclopenta(def)ph...	18.93	5.0	ng/ul	1772040	4	16.98	7127030	20.0
Pyrene, 2-methyl-	19.76	3.1	ng/ul	1905240	5	21.21	12258000	20.0
Pyrene, 1-methyl-	19.90	2.9	ng/ul	1773850	5	21.21	12258000	20.0
11H-Benzo[b]fluorene	19.93	3.1	ng/ul	1895840	5	21.21	12258000	20.0
Pyrene, 4-methyl-	20.09	2.8	ng/ul	1686750	5	21.21	12258000	20.0
11H-Benzo[a]fluorene	20.27	2.5	ng/ul	1505700	5	21.21	12258000	20.0
Triphenylene, 2-m...	21.76	2.4	ng/ul	1443670	5	21.21	12258000	20.0
Benzo[e]pyrene	23.22	2.9	ng/ul	931123	6	23.42	6410560	20.0