

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
 Data File : BM020598.D
 Acq On : 29 May 2019 14:19
 Operator : JU/SJ
 Sample : K3004-01 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CHRT-26835

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % 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_M\METHODS\8270-BM052419.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.158	704	709	718	rBV2	79223	162511	1.22%	0.131%
2	7.628	783	789	802	rBV	120483	255908	1.92%	0.207%
3	7.940	836	842	846	rBV	84984	141030	1.06%	0.114%
4	10.410	1256	1262	1266	rBV	193375	339331	2.55%	0.274%
5	10.463	1266	1271	1283	rVB	368959	687076	5.16%	0.554%
6	12.087	1540	1547	1561	rBV	428611	776851	5.83%	0.627%
7	12.304	1574	1584	1594	rBV	388077	663530	4.98%	0.535%
8	12.898	1680	1685	1692	rBV	172383	279994	2.10%	0.226%
9	13.310	1750	1755	1765	rVB	60808	139170	1.04%	0.112%
10	13.457	1772	1780	1788	rBV4	134419	369531	2.77%	0.298%
11	13.598	1798	1804	1809	rBV	250628	452991	3.40%	0.366%
12	13.657	1809	1814	1823	rVB	160976	280168	2.10%	0.226%
13	13.839	1840	1845	1848	rBV	110427	172345	1.29%	0.139%
14	14.010	1863	1874	1885	rBV2	307169	532720	4.00%	0.430%
15	14.286	1908	1921	1927	rBV3	397275	720442	5.41%	0.581%
16	14.351	1927	1932	1941	rVB	736061	1110532	8.33%	0.896%
17	14.686	1979	1989	1997	rBV	445386	800388	6.01%	0.646%
18	14.757	1997	2001	2011	rVB	85334	148358	1.11%	0.120%
19	14.904	2019	2026	2030	rBV2	82181	153998	1.16%	0.124%
20	15.339	2094	2100	2112	rBV	1120170	1787313	13.41%	1.442%
21	15.633	2145	2150	2156	rVB	153544	238330	1.79%	0.192%
22	15.786	2166	2176	2184	rBV3	316764	769986	5.78%	0.621%
23	16.010	2206	2214	2225	rVB9	47353	136475	1.02%	0.110%
24	16.345	2261	2271	2275	rBV2	208610	438471	3.29%	0.354%
25	16.392	2275	2279	2285	rVB2	100051	156715	1.18%	0.126%
26	16.492	2291	2296	2301	rVB	115783	170112	1.28%	0.137%
27	16.769	2338	2343	2350	rVV3	75565	168961	1.27%	0.136%
28	16.863	2350	2359	2371	rVB	355360	659014	4.94%	0.532%
29	17.045	2384	2390	2392	rBV	512154	751453	5.64%	0.606%
30	17.092	2392	2398	2407	rVV	6906103	9827247	73.74%	7.930%
31	17.180	2407	2413	2422	rVV	1715335	2551083	19.14%	2.059%
32	17.463	2453	2461	2468	rBV	205695	482425	3.62%	0.389%
33	17.557	2474	2477	2484	rBV	133633	202274	1.52%	0.163%
34	17.622	2484	2488	2497	rVB2	112367	225853	1.69%	0.182%

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
 Data File : BM020598.D
 Acq On : 29 May 2019 14:19
 Operator : JU/SJ
 Sample : K3004-01 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CHRT-26835

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % 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_M\METHODS\8270-BM052419.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	17.763	2507	2512	2521	rVB	75864	158930	1.19%	0.128%
36	17.916	2532	2538	2543	rBV	677866	1249696	9.38%	1.008%
37	17.963	2543	2546	2555	rVV	875463	1356163	10.18%	1.094%
38	18.045	2555	2560	2566	rVV	362320	604544	4.54%	0.488%
39	18.116	2566	2572	2575	rVV2	1515175	2551315	19.14%	2.059%
40	18.145	2575	2577	2587	rVB	501130	707563	5.31%	0.571%
41	18.422	2619	2624	2630	rBV	454267	691765	5.19%	0.558%
42	18.716	2670	2674	2678	rBV	121238	141651	1.06%	0.114%
43	18.757	2678	2681	2685	rVB3	105991	140116	1.05%	0.113%
44	18.839	2689	2695	2700	rBV	361921	658602	4.94%	0.531%
45	18.904	2700	2706	2709	rVV3	232841	449893	3.38%	0.363%
46	18.998	2715	2722	2734	rVB5	199061	591358	4.44%	0.477%
47	19.116	2735	2742	2749	rBV	9105253	13327577	100.00%	10.755%
48	19.221	2755	2760	2763	rVV3	313541	501518	3.76%	0.405%
49	19.263	2763	2767	2772	rVB	297931	434812	3.26%	0.351%
50	19.351	2778	2782	2786	rBV	225093	358561	2.69%	0.289%
51	19.451	2793	2799	2800	rBV2	1284860	1869746	14.03%	1.509%
52	19.480	2800	2804	2812	rVV	7524191	11181336	83.90%	9.023%
53	19.545	2812	2815	2822	rVB3	306561	482607	3.62%	0.389%
54	19.674	2829	2837	2842	rBV2	517394	1093186	8.20%	0.882%
55	19.792	2852	2857	2866	rBV2	440263	1097400	8.23%	0.886%
56	19.868	2866	2870	2876	rVV2	116005	229698	1.72%	0.185%
57	19.939	2876	2882	2883	rVV2	344887	544237	4.08%	0.439%
58	19.974	2883	2888	2894	rVB	1389388	2085047	15.64%	1.683%
59	20.074	2900	2905	2909	rBV	1567480	2049073	15.37%	1.654%
60	20.127	2909	2914	2918	rVV2	620019	1094520	8.21%	0.883%
61	20.163	2918	2920	2924	rVV	135155	172357	1.29%	0.139%
62	20.210	2925	2928	2934	rVV2	93884	149298	1.12%	0.120%
63	20.268	2934	2938	2942	rVV	335630	442864	3.32%	0.357%
64	20.315	2942	2946	2958	rVB2	442028	837441	6.28%	0.676%
65	20.410	2958	2962	2965	rBV2	77141	134755	1.01%	0.109%
66	20.563	2984	2988	2991	rBV2	133795	186034	1.40%	0.150%
67	20.592	2991	2993	2998	rVB	122305	145015	1.09%	0.117%
68	20.680	3004	3008	3012	rBV	211932	381562	2.86%	0.308%
69	20.886	3040	3043	3046	rBV	439995	594568	4.46%	0.480%
70	20.921	3046	3049	3053	rVV	629522	915694	6.87%	0.739%
71	20.962	3053	3056	3071	rVB3	509927	1219361	9.15%	0.984%

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
 Data File : BM020598.D
 Acq On : 29 May 2019 14:19
 Operator : JU/SJ
 Sample : K3004-01 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CHRT-26835

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % 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_M\METHODS\8270-BM052419.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	21.127	3077	3084	3090	rBV2	192695	510549	3.83%	0.412%
73	21.233	3094	3102	3107	rVV2	4606076	8339627	62.57%	6.730%
74	21.286	3107	3111	3120	rVB	3512921	4905225	36.81%	3.958%
75	21.398	3125	3130	3136	rVV	873440	1247398	9.36%	1.007%
76	21.457	3136	3140	3147	rVV4	285858	511752	3.84%	0.413%
77	21.515	3147	3150	3153	rVV	127566	176450	1.32%	0.142%
78	21.562	3153	3158	3162	rVB2	234322	469884	3.53%	0.379%
79	21.733	3183	3187	3190	rBV2	239814	372088	2.79%	0.300%
80	21.786	3190	3196	3201	rVV	694139	1380998	10.36%	1.114%
81	21.839	3202	3205	3210	rVB	292426	413088	3.10%	0.333%
82	21.939	3219	3222	3226	rVV3	317249	423281	3.18%	0.342%
83	21.986	3226	3230	3232	rVV	351367	492108	3.69%	0.397%
84	22.015	3232	3235	3241	rVV2	519109	749693	5.63%	0.605%
85	22.080	3241	3246	3256	rVB4	240528	564799	4.24%	0.456%
86	22.557	3323	3327	3336	rVB3	194589	356443	2.67%	0.288%
87	22.809	3363	3370	3374	rBV	2550950	5942578	44.59%	4.796%
88	22.968	3392	3397	3408	rVB	623234	1088807	8.17%	0.879%
89	23.109	3416	3421	3428	rBV2	138785	434138	3.26%	0.350%
90	23.280	3444	3450	3460	rVB	1603521	3150924	23.64%	2.543%
91	23.380	3460	3467	3477	rBV	2728099	5255504	39.43%	4.241%
92	23.474	3478	3483	3486	rVV	512824	939405	7.05%	0.758%
93	23.521	3487	3491	3499	rVB	738365	1404701	10.54%	1.134%
94	24.327	3624	3628	3641	rVB	241239	618421	4.64%	0.499%
95	25.727	3856	3866	3877	rVB	1244622	3504016	26.29%	2.828%
96	26.415	3974	3983	4000	rVB2	903902	3085264	23.15%	2.490%

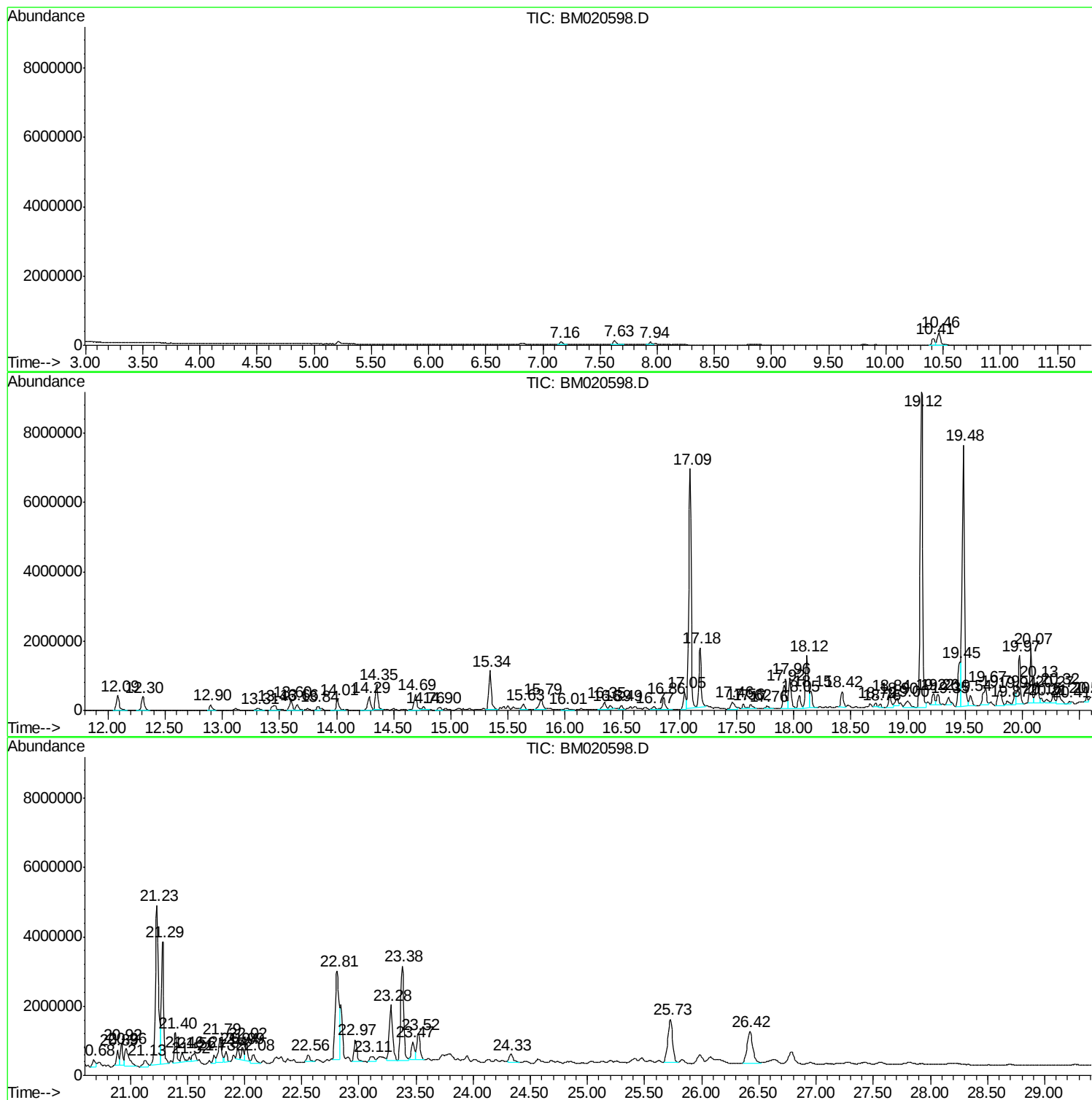
Sum of corrected areas: 123919590

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

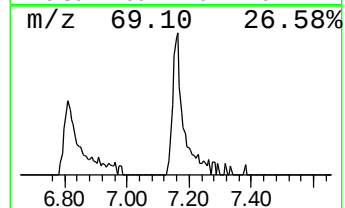
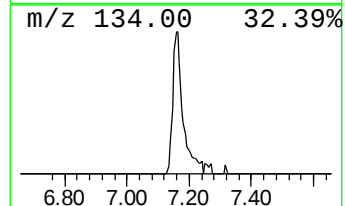
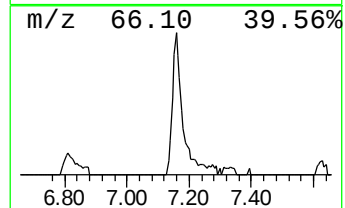
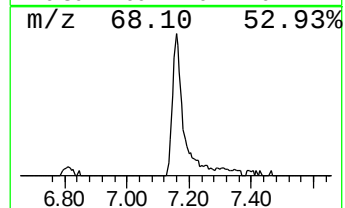
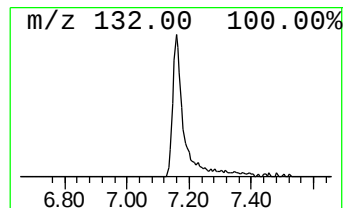
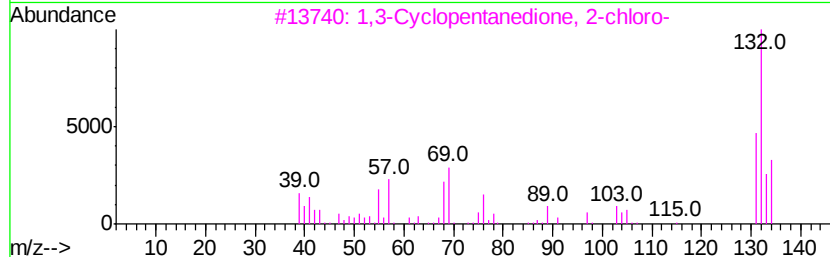
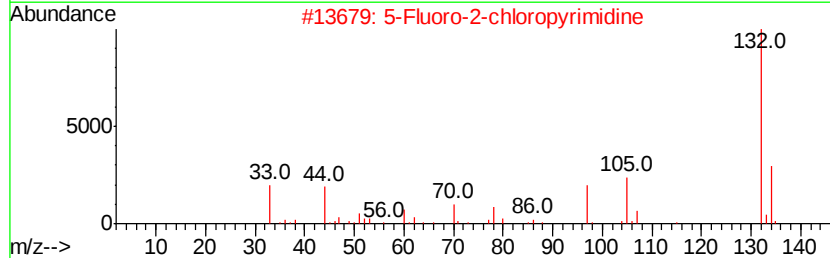
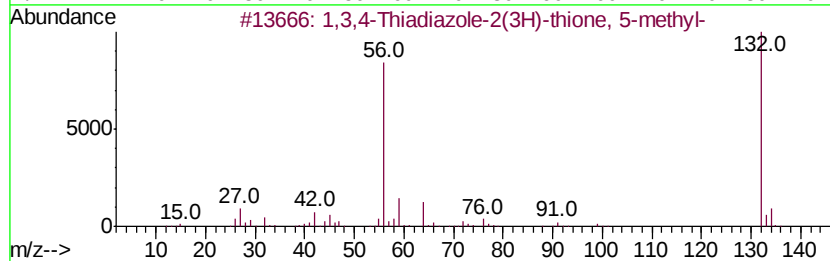
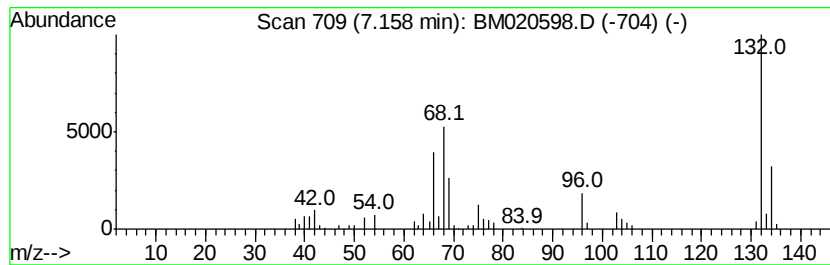
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown7.16 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.16	12.70 ng	162511	1,4-Dichlorobenzene-d4	7.63

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,3,4-Thiadiazole-2(3H)-thione, ...	132	C3H4N2S2	029490-19-5	14
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	14
3		1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	10
4		1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10
5		5-Aminoindole	132	C8H8N2	005192-03-0	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

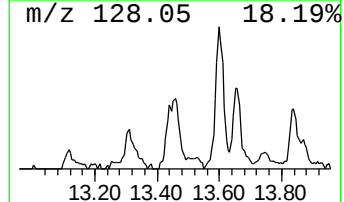
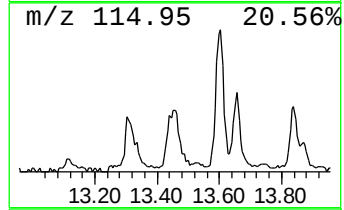
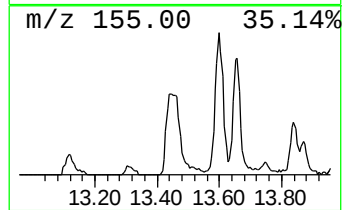
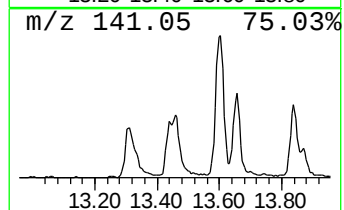
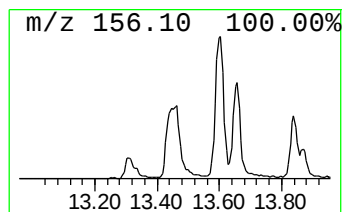
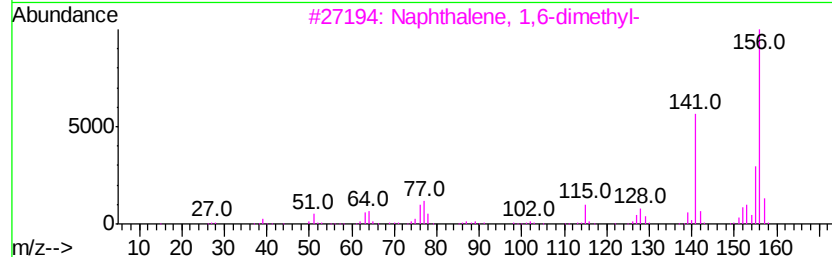
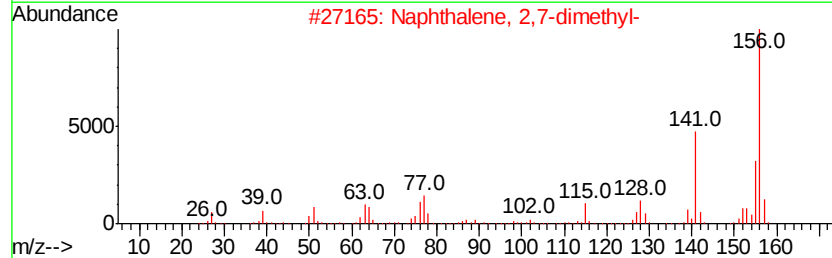
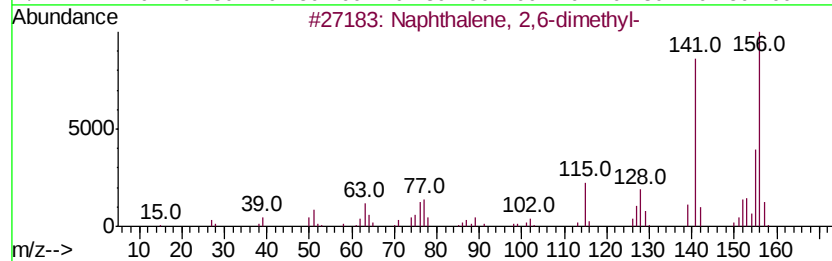
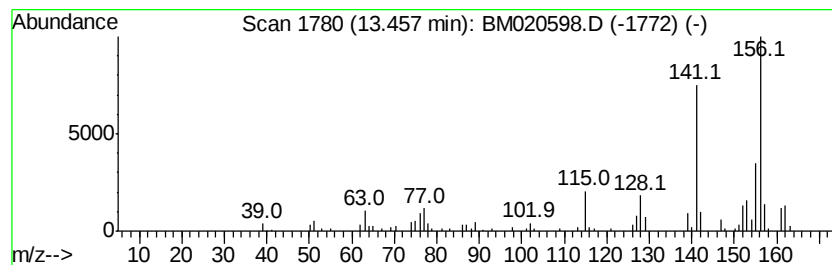
Instrument :
BNA_M
ClientSampleId :
CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.46	10.26 ng	369531	Acenaphthene-d10	14.29
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 97
2		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 96
3		Naphthalene, 1,6-dimethyl-	156 C12H12	000575-43-9 95
4		Naphthalene, 1,8-dimethyl-	156 C12H12	000569-41-5 95
5		Naphthalene, 1,4-dimethyl-	156 C12H12	000571-58-4 95



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

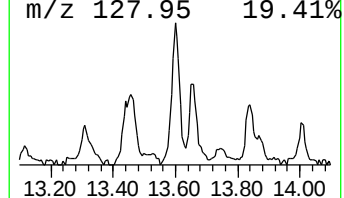
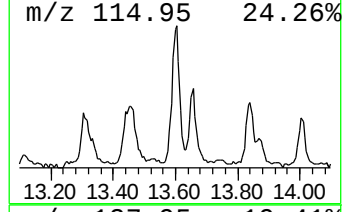
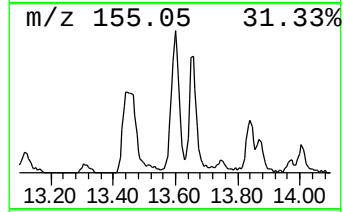
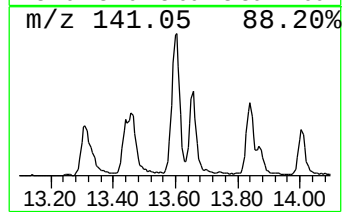
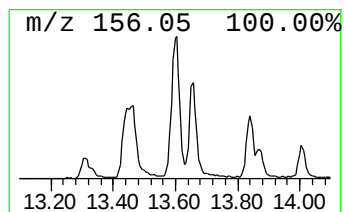
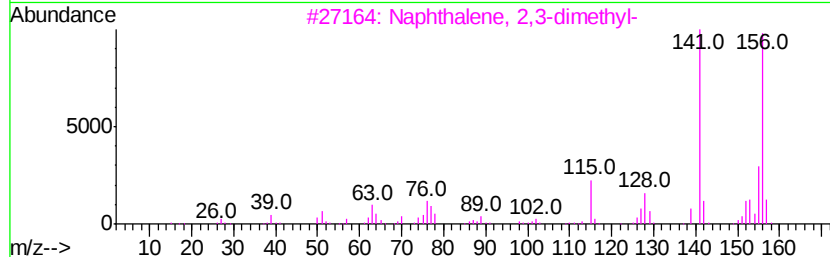
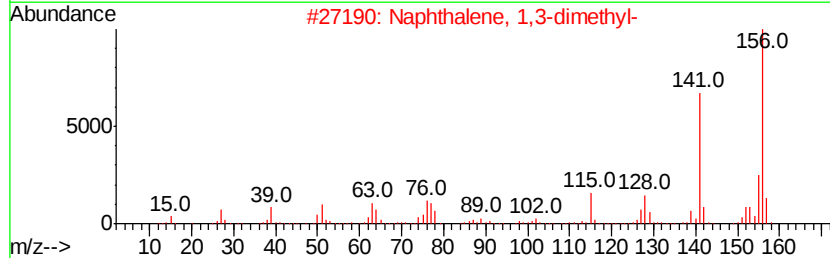
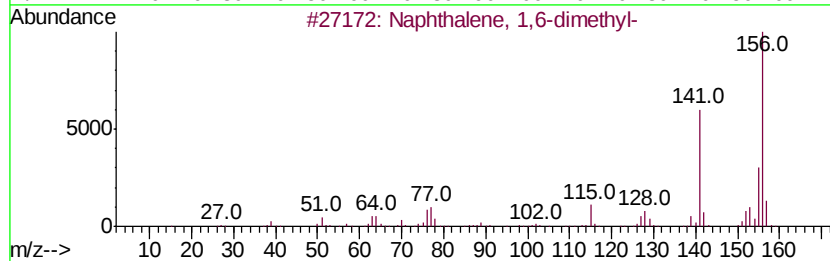
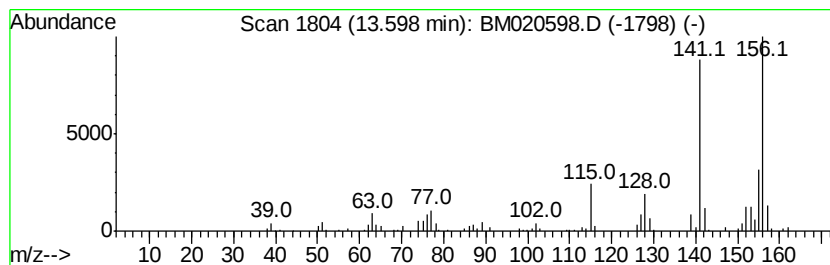
Instrument :
BNA_M
ClientSampleId :
CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Naphthalene, 1,6-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.60	12.58 ng	452991	Acenaphthene-d10	14.29
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 1,6-dimethyl-	156 C12H12	000575-43-9 97
2		Naphthalene, 1,3-dimethyl-	156 C12H12	000575-41-7 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, 1,4-dimethyl-	156 C12H12	000571-58-4 96



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

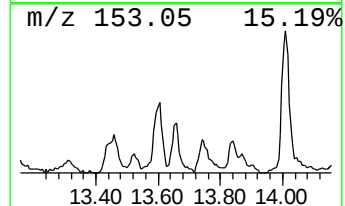
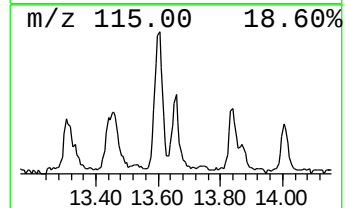
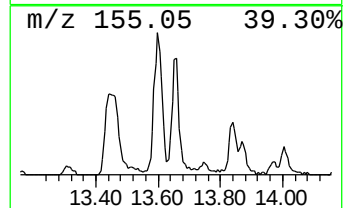
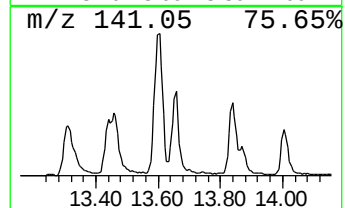
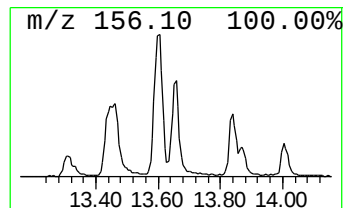
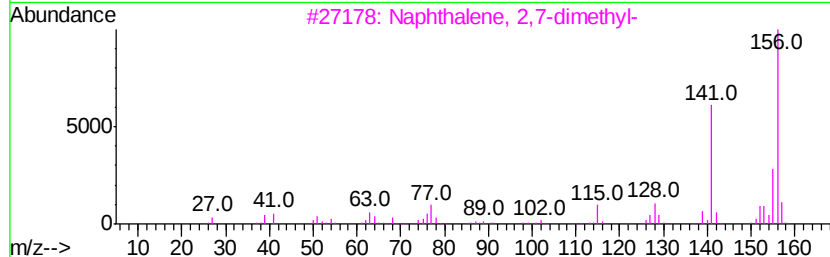
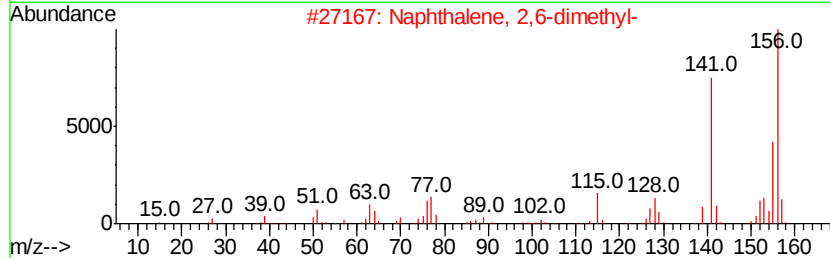
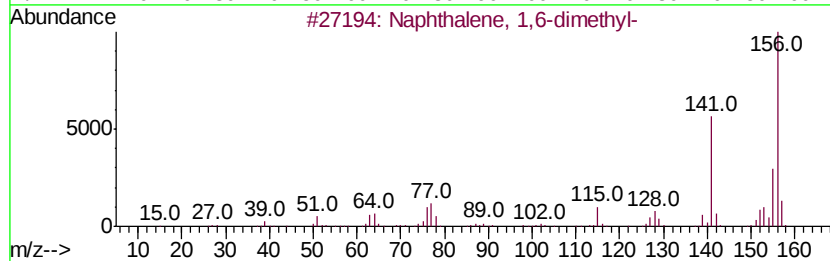
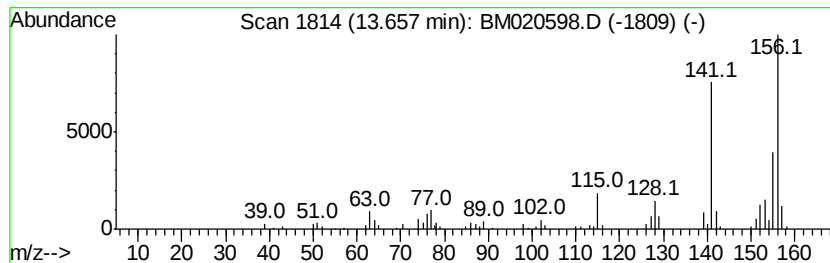
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphthalene, 2,7-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.66	7.78 ng	280168	Acenaphthene-d10	14.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3		Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
4		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

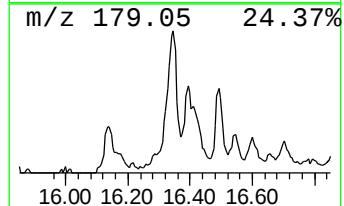
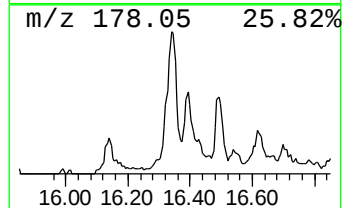
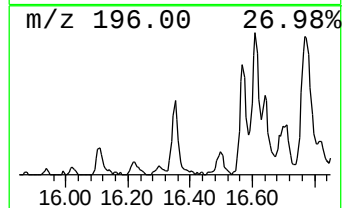
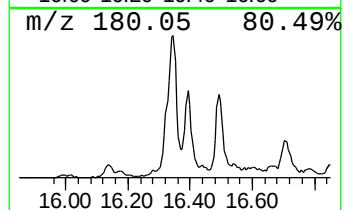
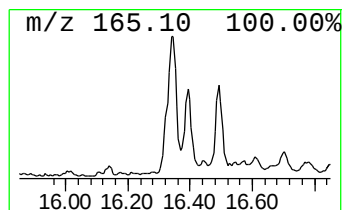
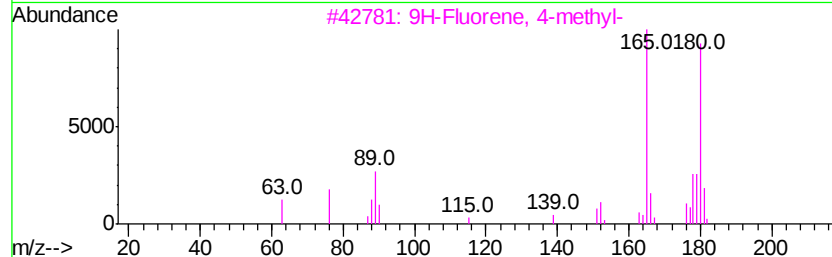
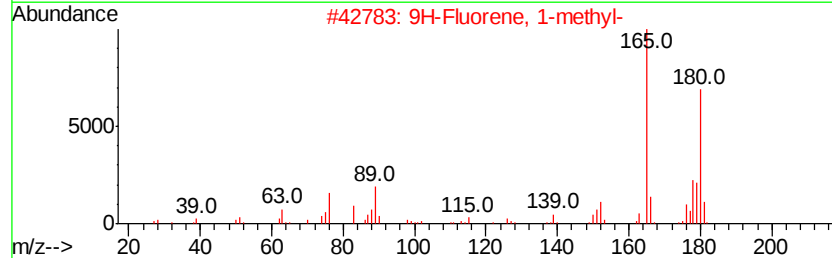
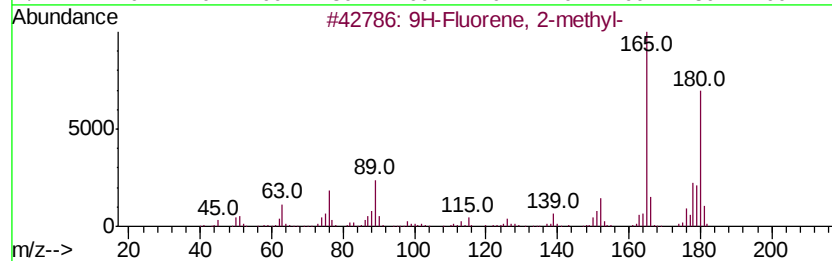
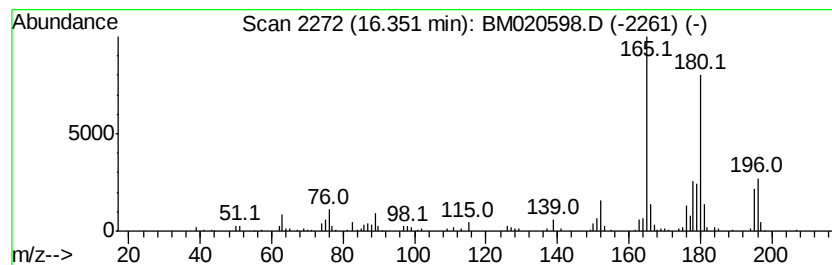
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 9H-Fluorene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.35	11.67 ng	438471	Phenanthrene-d10	17.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2		9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3		9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	90
4		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	89
5		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

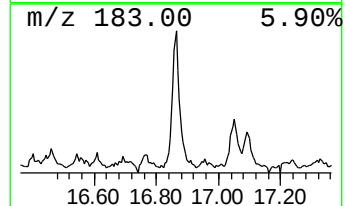
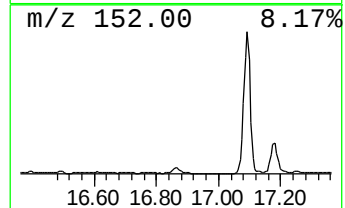
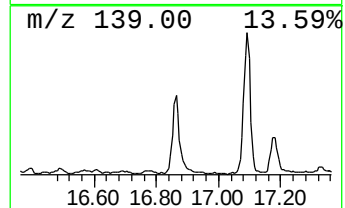
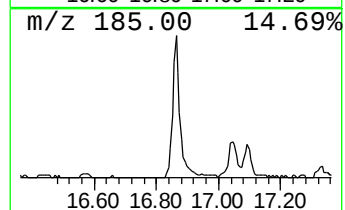
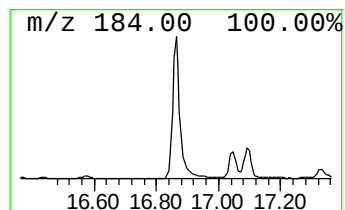
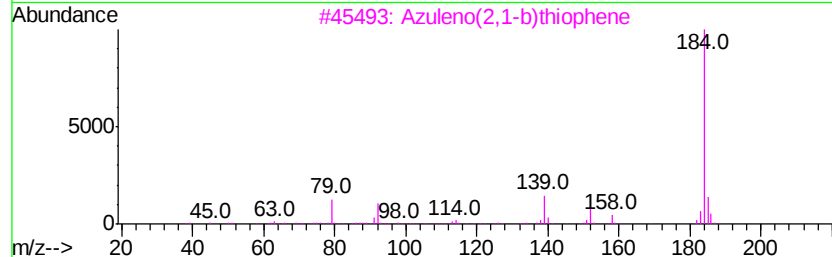
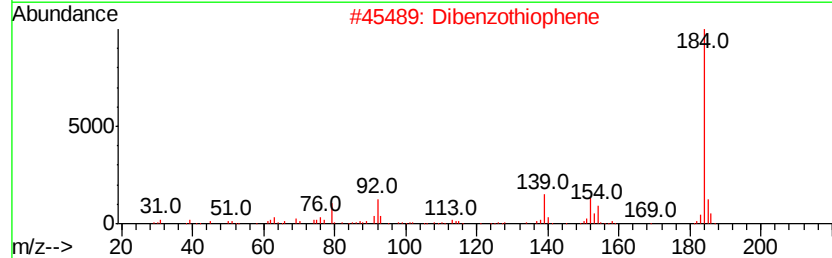
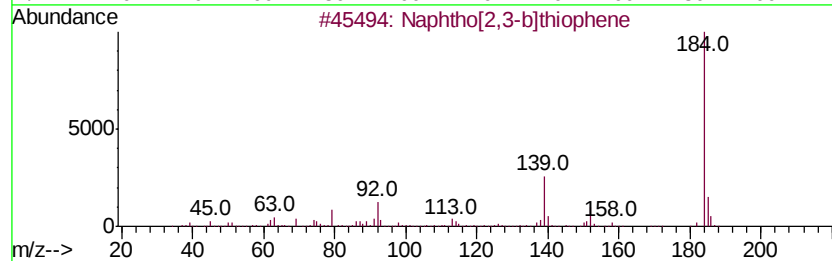
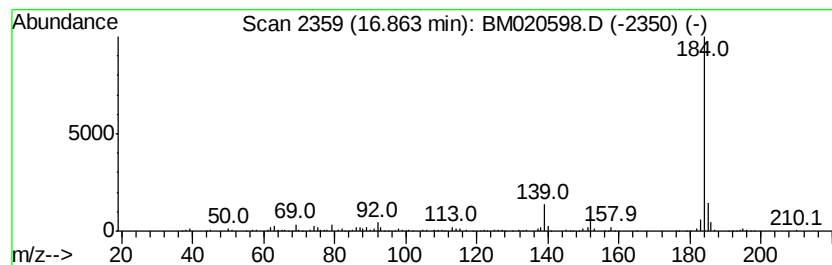
Instrument :
BNA_M
ClientSampleId :
CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Naphtho[2,3-b]thiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD		R.T.
16.86	17.54 ng	659014	Phenanthrene-d10		17.05
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	94
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	80
5	Dibenzothiophene, 5-oxide	200	C12H8OS	001013-23-6	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

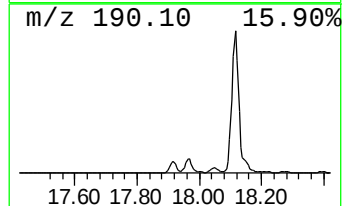
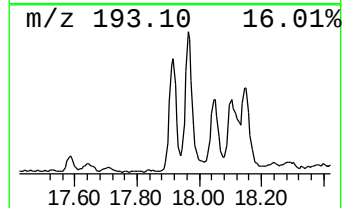
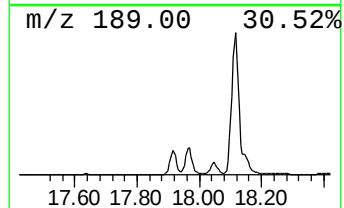
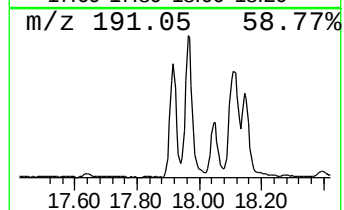
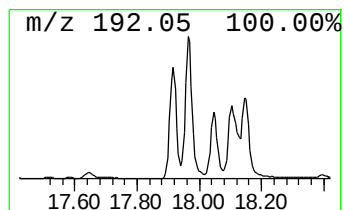
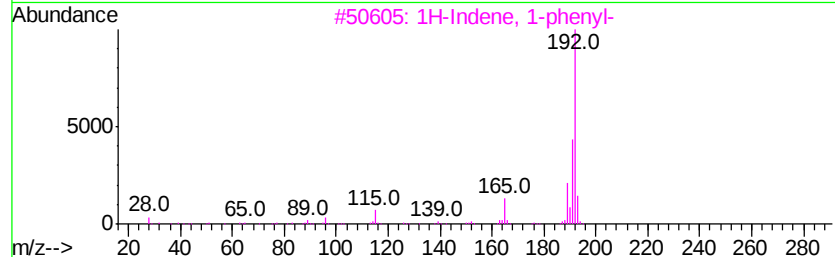
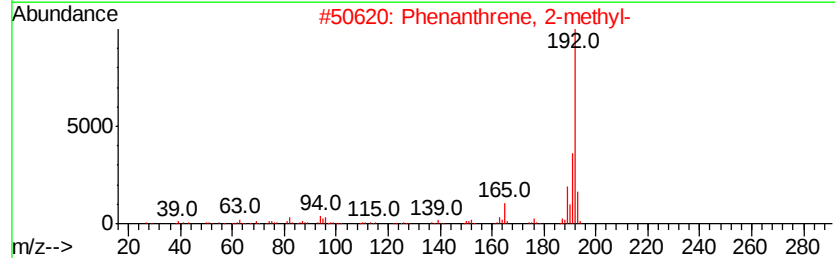
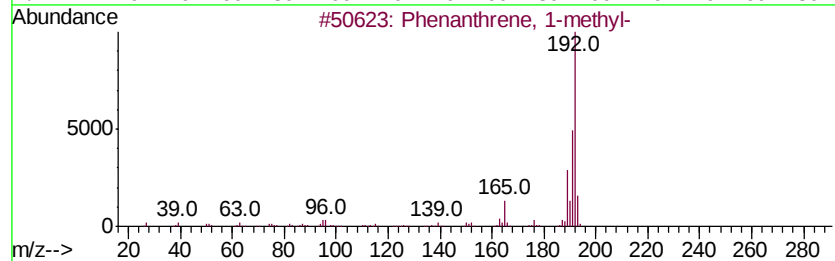
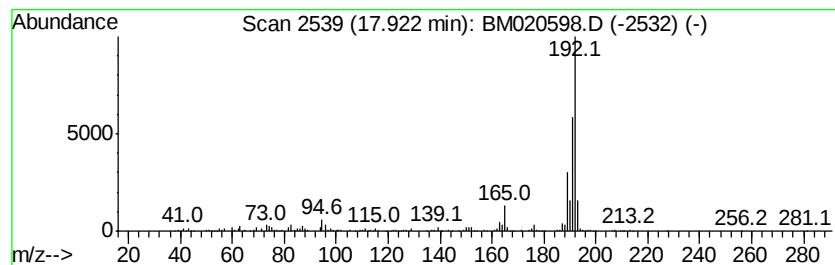
Instrument :
BNA_M
ClientSampleId :
CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.92	33.26 ng	1249700	Phenanthrene-d10	17.05	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94
4	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	94
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

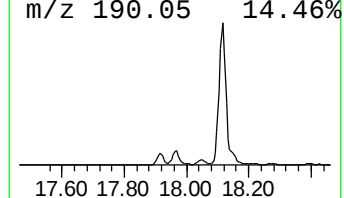
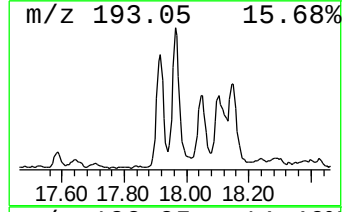
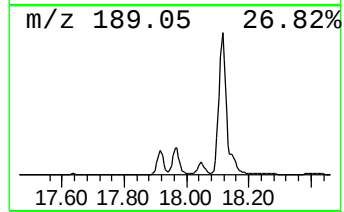
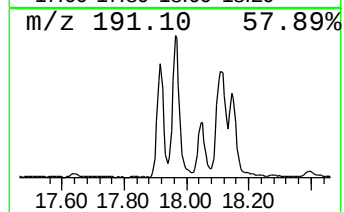
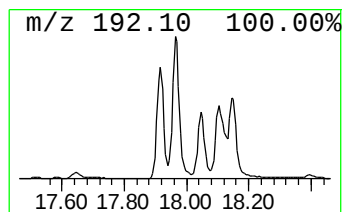
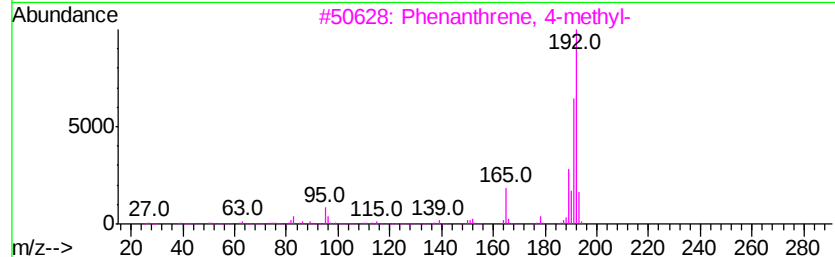
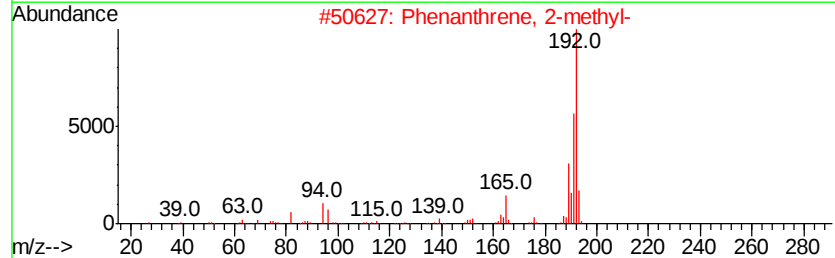
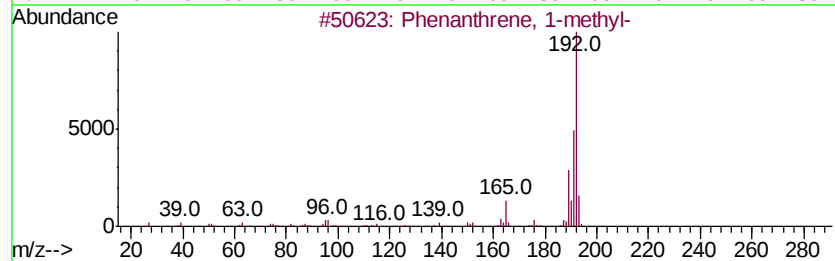
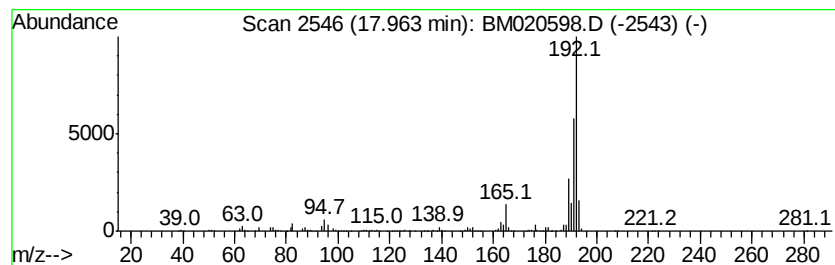
Instrument :
BNA_M
ClientSampleId :
CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.96	36.09 ng	1356160	Phenanthrene-d10	17.05	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
4	1H-Cyclopropa[1,1]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

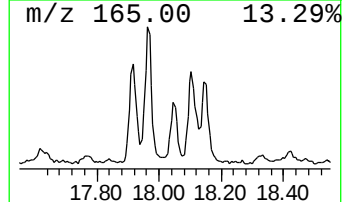
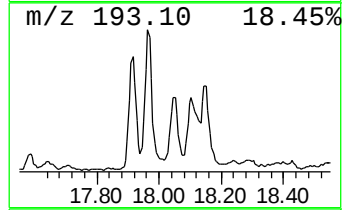
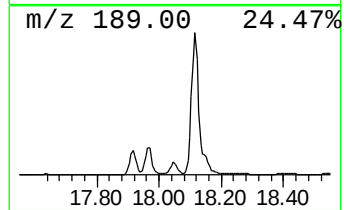
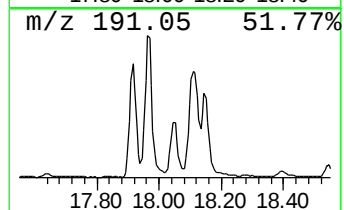
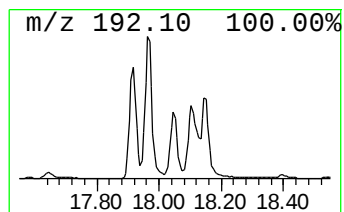
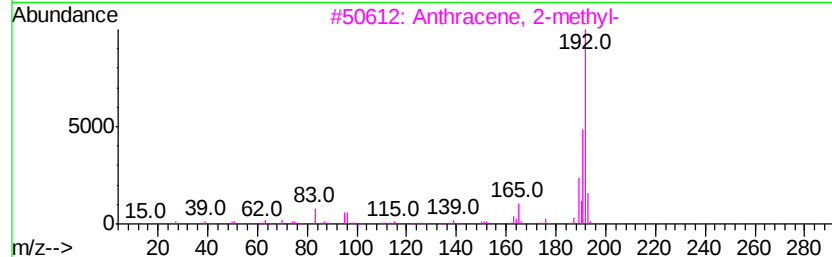
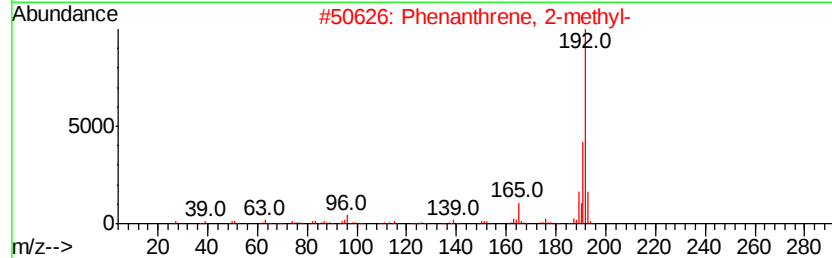
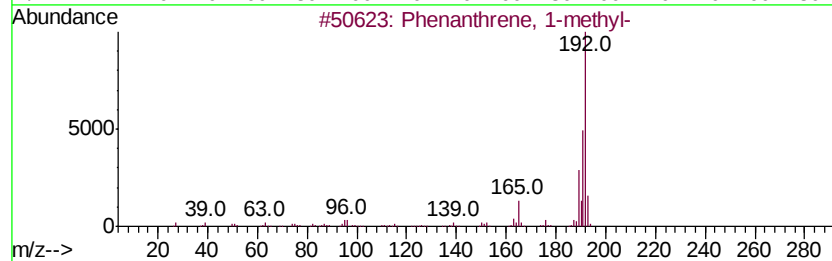
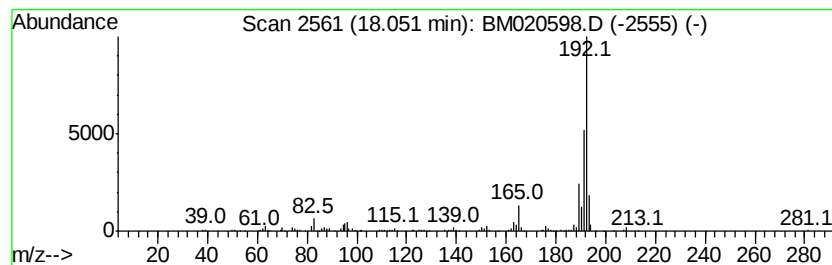
Instrument :
BNA_M
ClientSampleId :
CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Anthracene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.05	16.09 ng	604544	Phenanthrene-d10	17.05	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

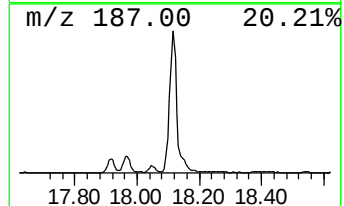
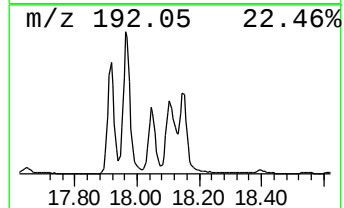
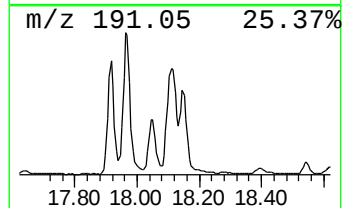
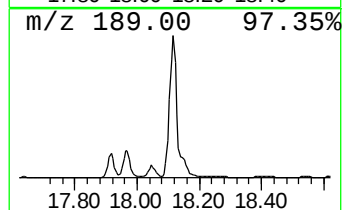
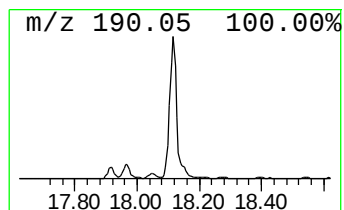
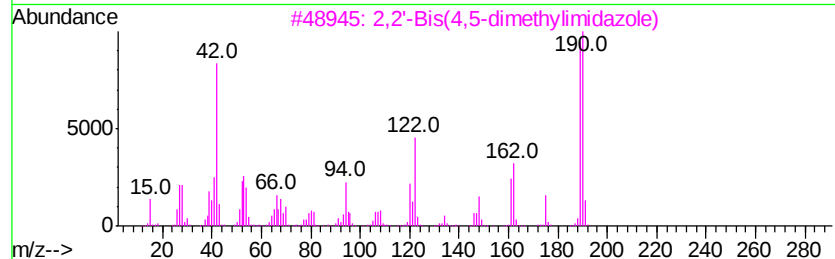
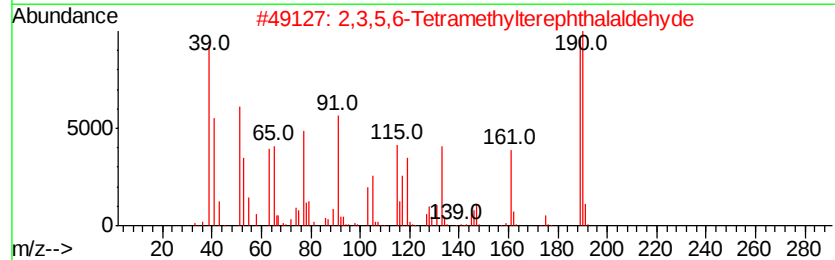
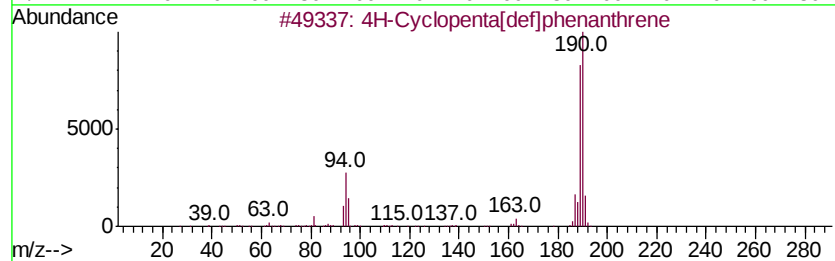
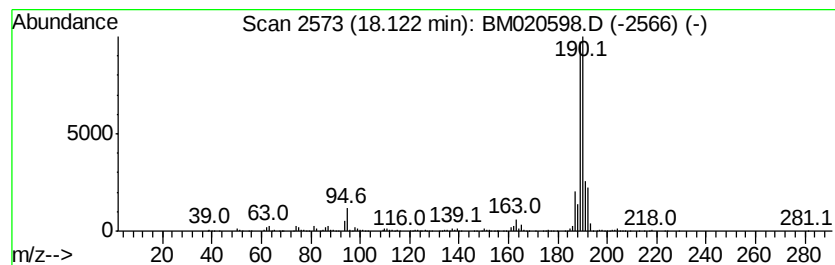
Instrument :
BNA_M
ClientSampleId :
CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.12	67.90 ng	2551320	Phenanthrene-d10	17.05	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	74
2	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40
5	Methyl diselenide	190	C2H6Se2	007101-31-7	27



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

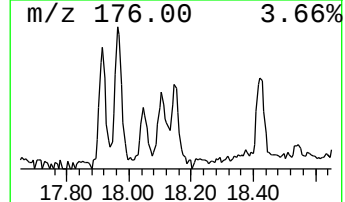
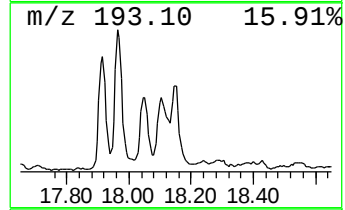
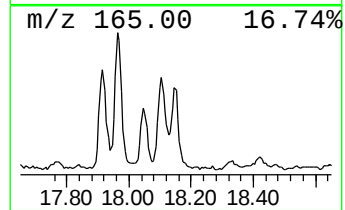
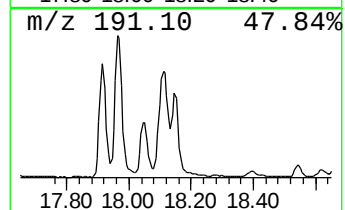
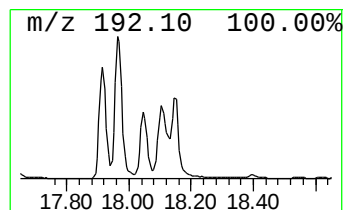
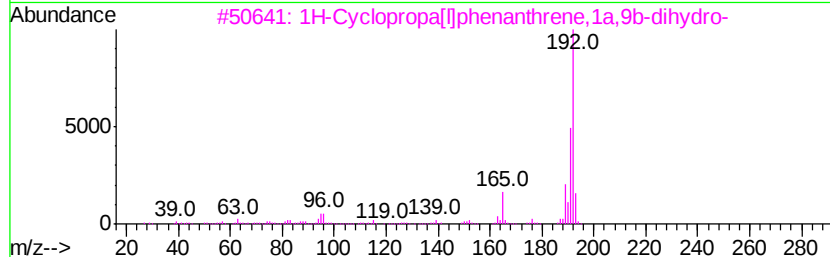
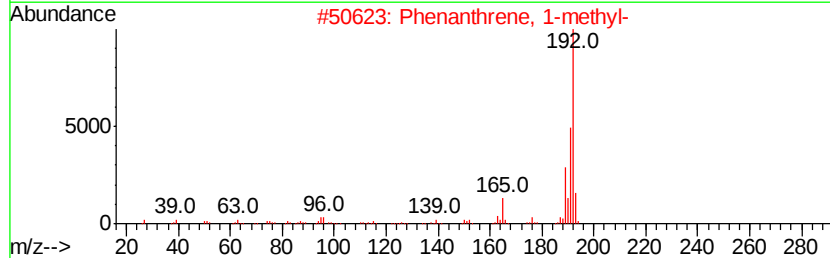
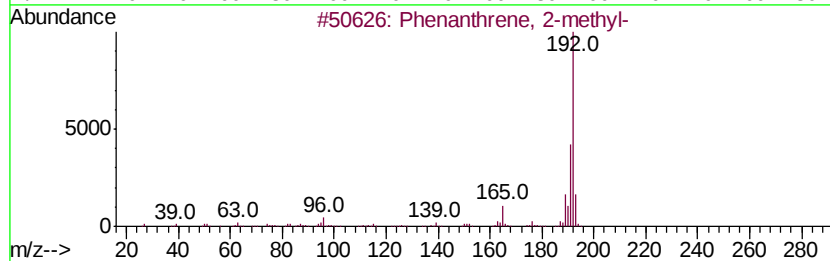
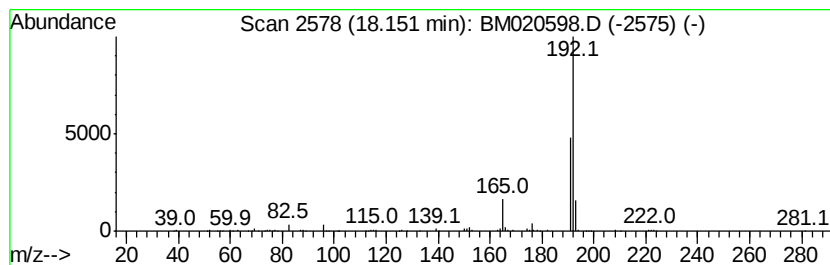
Instrument :
BNA_M
ClientSampleId :
CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 1H-Cyclopropa[l]phenanthren... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.15	18.83 ng	707563	Phenanthrene-d10	17.05	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
3	1H-Cyclopropa[ll]phenanthrene,1a,...	192	C15H12	000949-41-7	91
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

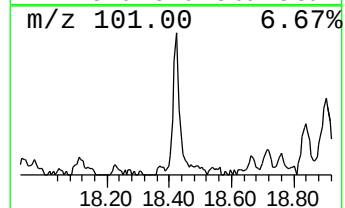
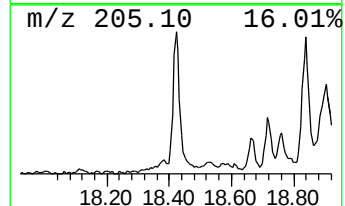
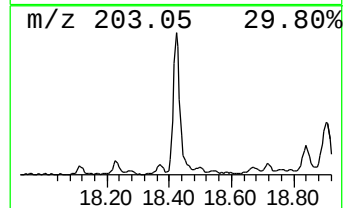
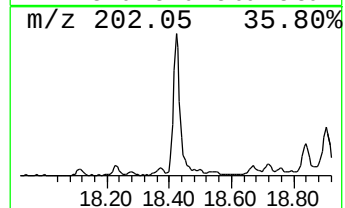
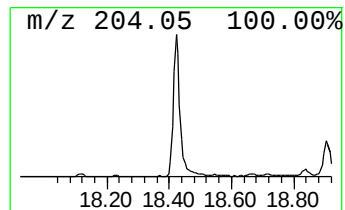
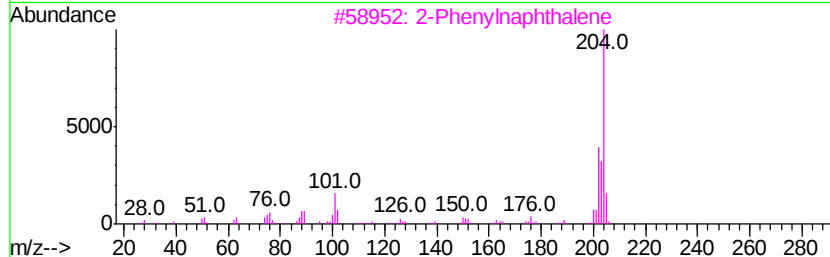
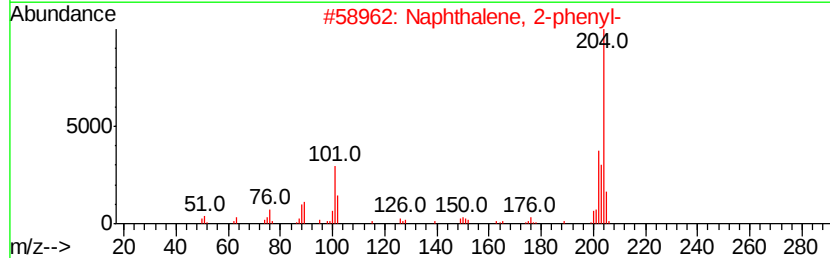
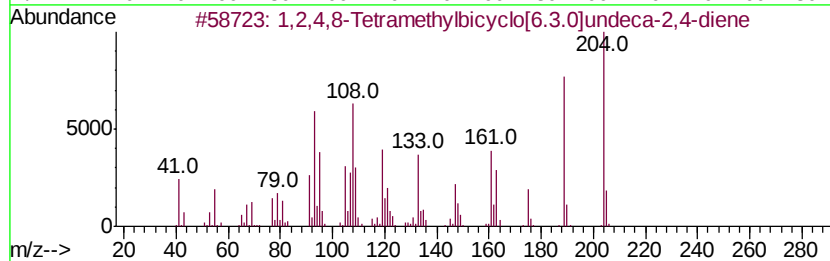
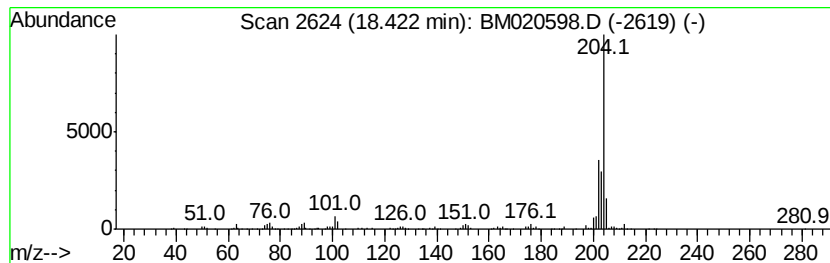
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 1,2,4,8-Tetramethylbicyclo[...] Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.42	18.41 ng	691765	Phenanthrene-d10	17.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	86
2		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
3		2-Phenylnaphthalene	204	C16H12	035465-71-5	81
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8-tetraene	204	C16H12	006572-60-7	74
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

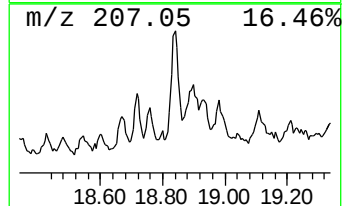
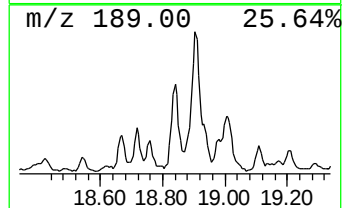
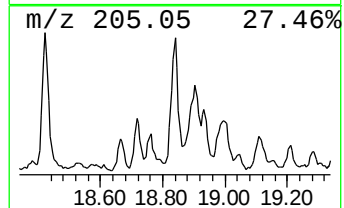
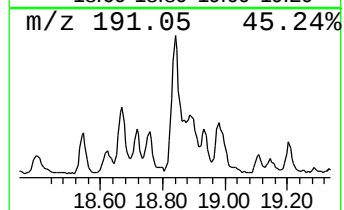
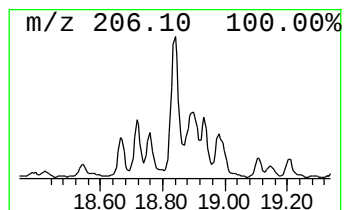
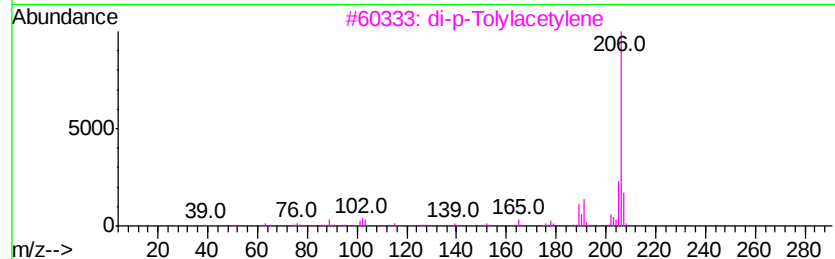
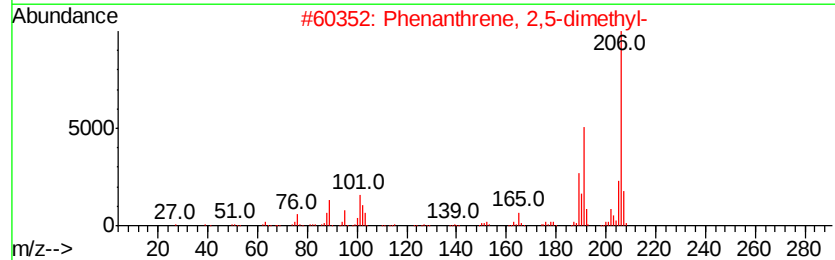
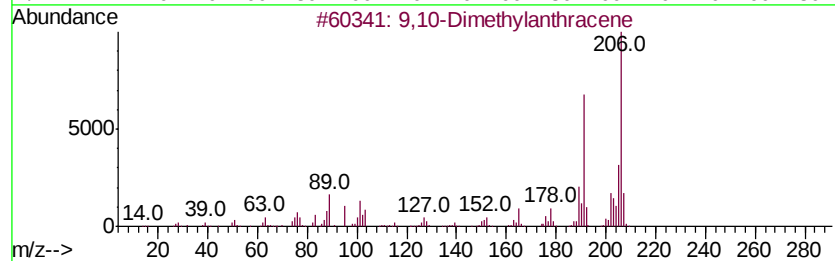
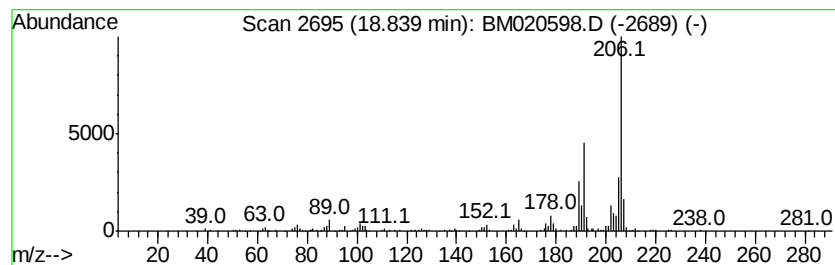
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 9,10-Dimethylantracene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.84	17.53 ng	658602	Phenanthrene-d10	17.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Dimethylantracene	206	C16H14	000781-43-1	96
2		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3		di-p-Tolylacetvlene	206	C16H14	002789-88-0	93
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
5		Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

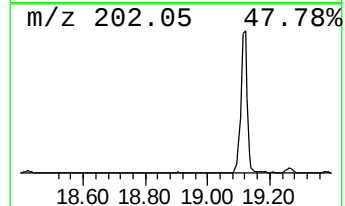
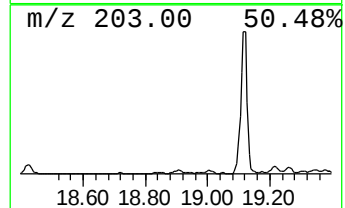
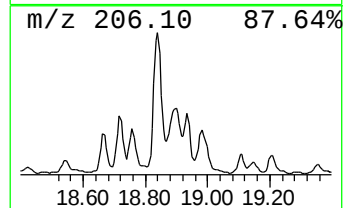
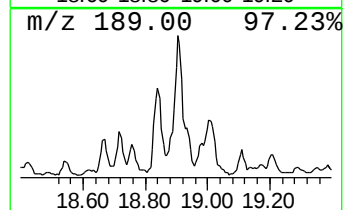
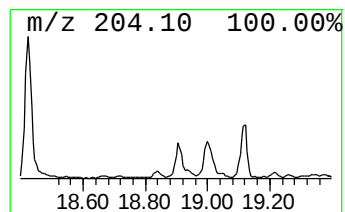
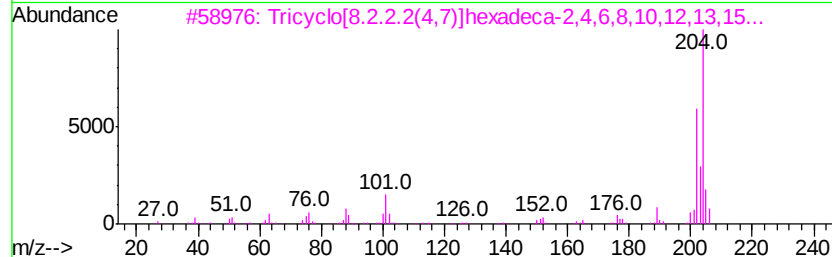
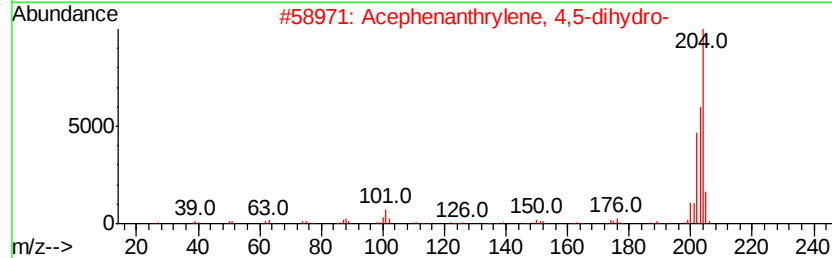
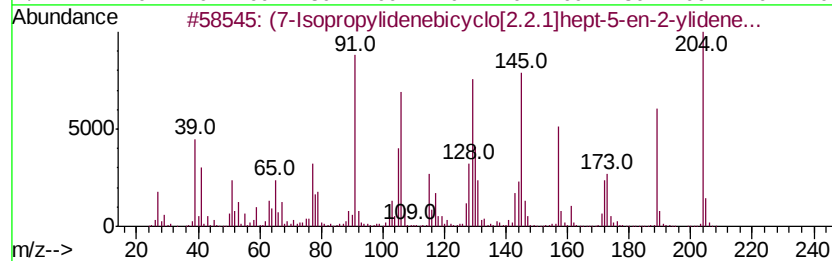
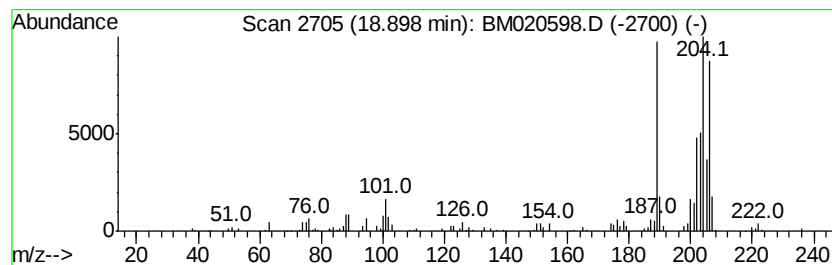
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 unknown18.90 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	11.97 ng	449893	Phenanthrene-d10	17.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(7-Isopropylidenebicyclo[2.2.1]h...	204	C13H16O2	1000211-02-2	38
2		Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	35
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	30
4		[1,1'-Biphenyl]-4-ol, 3-chloro-	204	C12H9ClO	000092-04-6	27
5		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	22



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

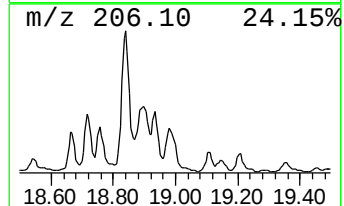
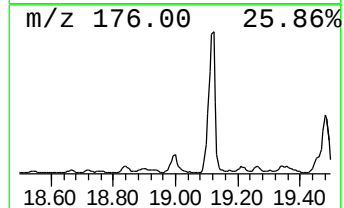
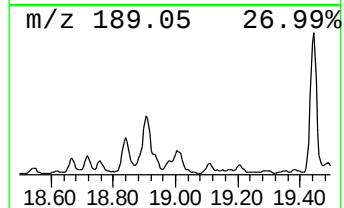
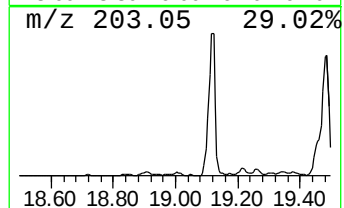
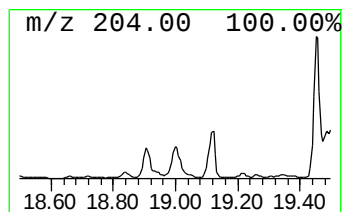
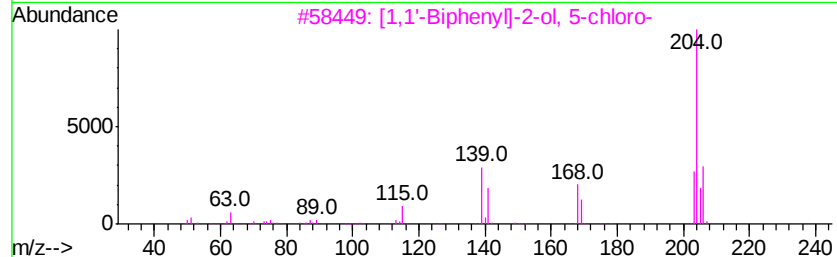
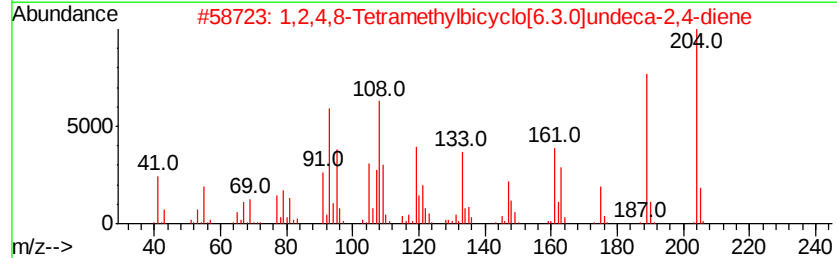
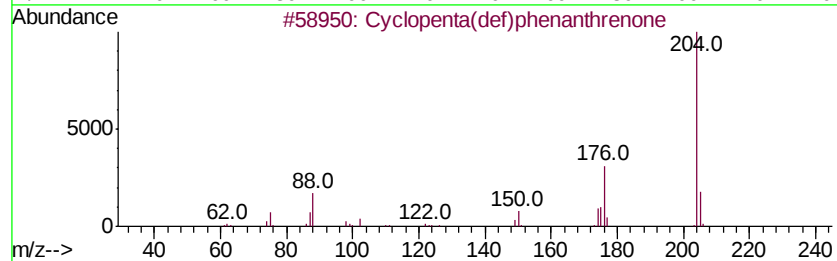
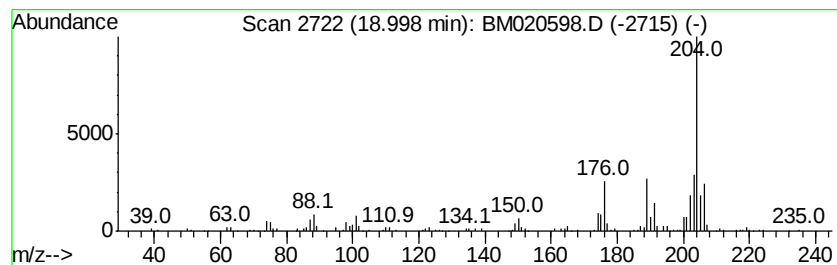
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.00	15.74 ng	591358	Phenanthrene-d10	17.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	78
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undec-2,4-diene	204	C15H24	137235-51-9	50
3		[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	50
4		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	49
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	47



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

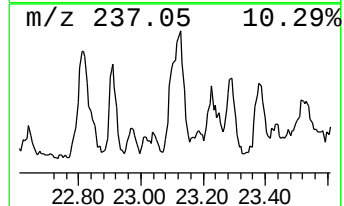
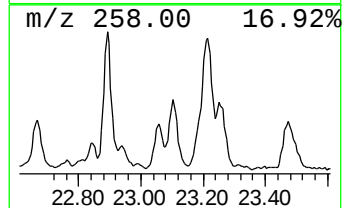
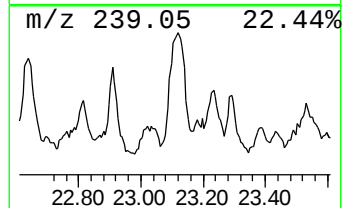
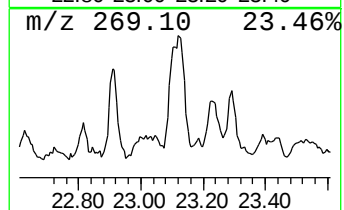
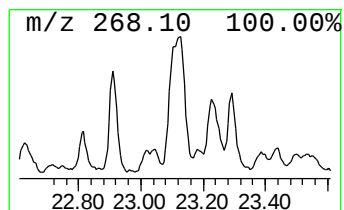
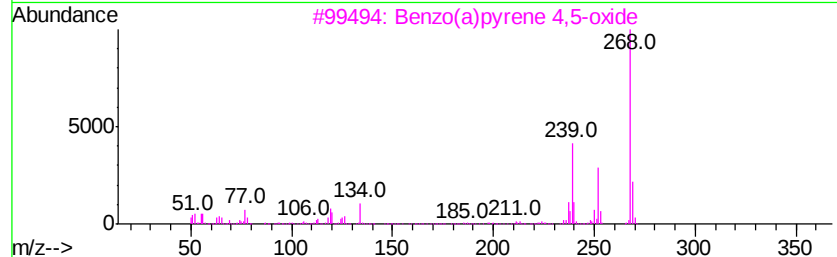
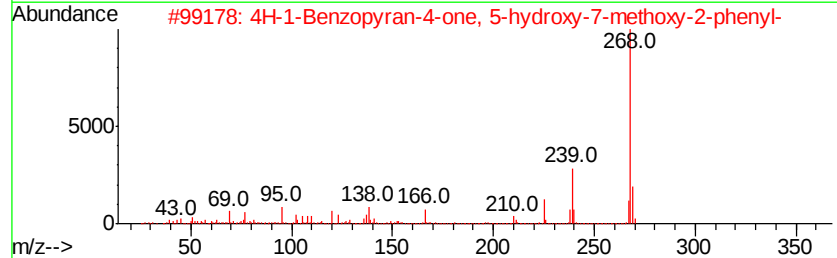
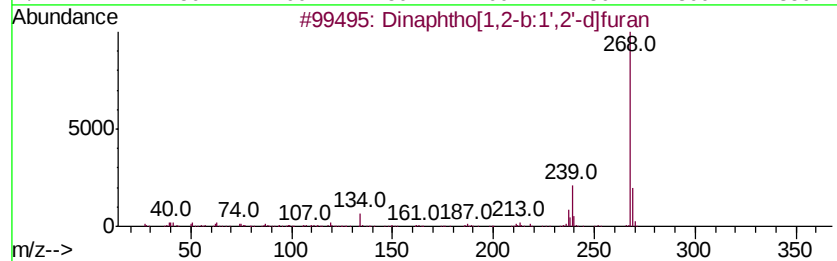
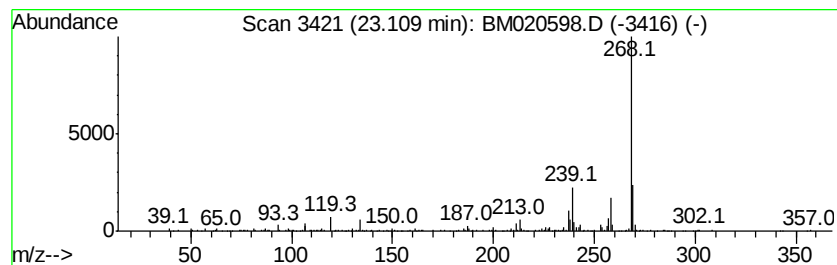
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.11	9.24 ng	434138	Perylene-d12	23.47

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	83
2		4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	64
3		Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	64
4		Phenol, 2,2'-[1,2-ethanedivlbis(...	268	C16H16N2O2	000094-93-9	60
5		9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	59



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
Data File : BM020598.D
Acq On : 29 May 2019 14:19
Operator : JU/SJ
Sample : K3004-01 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CHRT-26835

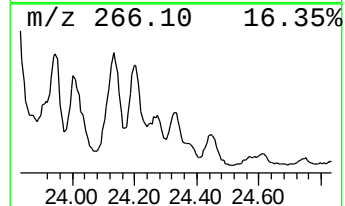
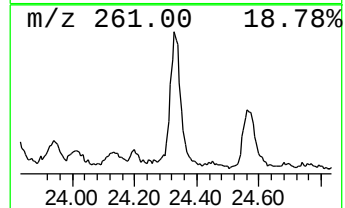
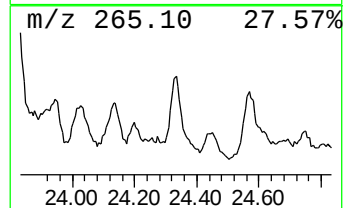
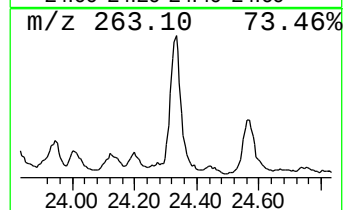
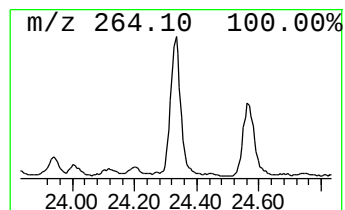
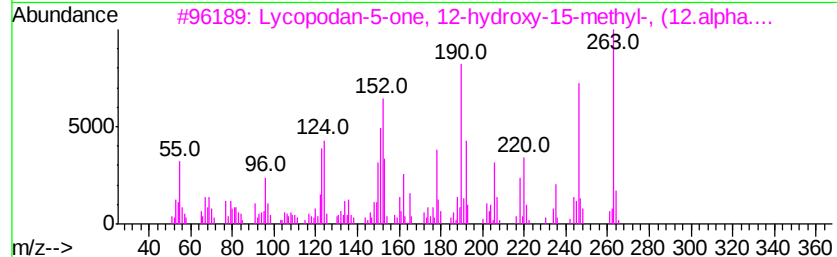
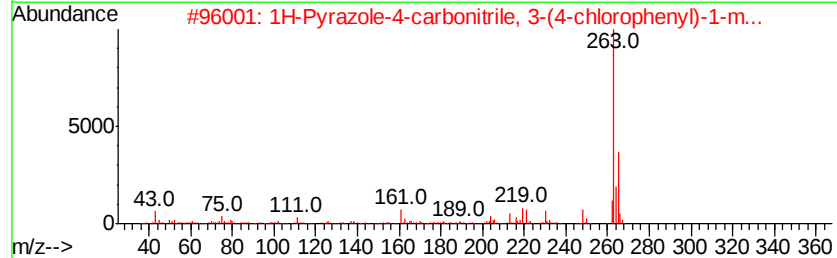
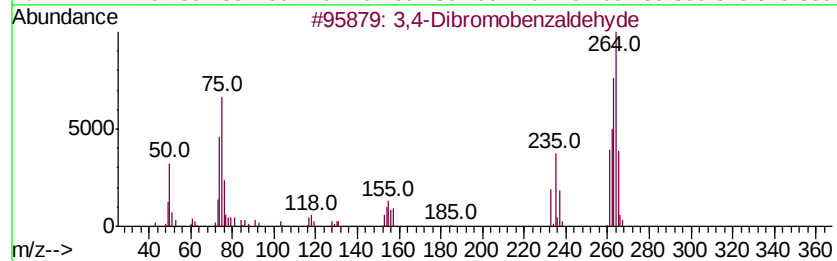
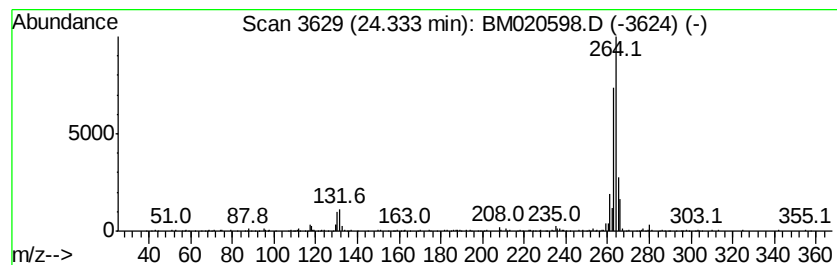
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 3,4-Dibromobenzaldehyde Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.33	13.17 ng	618421	Perylene-d12	23.47

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	72
2		1H-Pyrazole-4-carbonitrile, 3-(4-chlorophenyl)-1-methyl-	263	C12H10ClN3S	068364-67-0	38
3		Lycopodan-5-one, 12-hydroxy-15-methyl-, (12.alpha.)-	263	C16H25NO2	021061-90-5	38
4		5H-Dibenzo[c,f][1,2]diazepine, 3-methyl-	264	C13H10Cl2N2	000955-66-8	38
5		10H-Phenothiazine, 2-chloro-7-methyl-	263	C13H10ClNOS	001730-44-5	35



Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM053019\
 Data File : BM020598.D
 Acq On : 29 May 2019 14:19
 Operator : JU/SJ
 Sample : K3004-01 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CHRT-26835

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM052419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT 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
unknown7.16	7.16	12.7	ng	162511	1	7.63	255908	20.0
Naphthalene, 2,6-...	13.46	10.3	ng	369531	3	14.29	720442	20.0
Naphthalene, 1,6-...	13.60	12.6	ng	452991	3	14.29	720442	20.0
Naphthalene, 2,7-...	13.66	7.8	ng	280168	3	14.29	720442	20.0
9H-Fluorene, 2-me...	16.35	11.7	ng	438471	4	17.05	751453	20.0
Naphtho[2,3-b]thi...	16.86	17.5	ng	659014	4	17.05	751453	20.0
Phenanthrene, 1-m...	17.92	33.3	ng	1249700	4	17.05	751453	20.0
Phenanthrene, 2-m...	17.96	36.1	ng	1356160	4	17.05	751453	20.0
Anthracene, 2-met...	18.05	16.1	ng	604544	4	17.05	751453	20.0
4H-Cyclopenta[def...	18.12	67.9	ng	2551320	4	17.05	751453	20.0
1H-Cyclopropa[l]p...	18.15	18.8	ng	707563	4	17.05	751453	20.0
1,2,4,8-Tetrameth...	18.42	18.4	ng	691765	4	17.05	751453	20.0
9,10-Dimethylanth...	18.84	17.5	ng	658602	4	17.05	751453	20.0
unknown18.90	18.90	12.0	ng	449893	4	17.05	751453	20.0
Cyclopenta(def)ph...	19.00	15.7	ng	591358	4	17.05	751453	20.0
Dinaphtho[1,2-b:1...	23.11	9.2	ng	434138	6	23.47	939405	20.0
3,4-Dibromobenzal...	24.33	13.2	ng	618421	6	23.47	939405	20.0