LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.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	5.644	426	435	445	rBV	352194	590839	5.60%	0.463%
2	7.254	699	709	718	rBV	378087	698420	6.62%	0.548%
3	7.636	767	774	781	rBV	371918	644644	6.11%	0.506%
4	8.112	849	855	864	rVB	182306	322636	3.06%	0.253%
5	8.435	903	910	916	rBV	289097	491344	4.66%	0.385%
6	9.287	1047	1055	1065	rBV	242010	461393	4.37%	0.362%
7	10.932	1328	1335	1339	rBV	234534	411739	3.90%	0.323%
8	10.985	1339	1344	1351	rVB	617527	1068092	10.12%	0.838%
9	12.577	1608	1615	1622	rBV	411744	674230	6.39%	0.529%
10	12.794	1643	1652	1661	rVB	361465	614878	5.83%	0.482%
11	13.364	1742	1749	1756	rVB	587160	912367	8.65%	0.716%
12	13.899	1833	1840	1841	rBV2	152094	207086	1.96%	0.162%
13	14.058	1861	1867	1872	rBV2	276978	497686	4.72%	0.390%
14	14.110	1872	1876	1884	rVV	177584	297509	2.82%	0.233%
15	14.298	1899	1908	1911	rVV	130159	226156	2.14%	0.177%
16	14.463	1931	1936	1945	rVB3	116378	198603	1.88%	0.156%
17	14.739	1979	1983	1989	rVV2	349594	567957	5.38%	0.445%
18	14.804	1989	1994	2001	rVB	865709	1366588	12.95%	1.072%
19	15.139	2039	2051	2057	rVV	657748	1160328	11.00%	0.910%
20	15.203	2057	2062	2070	rVB	113509	172826	1.64%	0.136%
21	15.344	2078	2086	2091	rBV3	108408	210355	1.99%	0.165%
22	15.785	2154	2161	2171	rVV	1278612	2055557	19.48%	1.612%
23	15.908	2178	2182	2184	rVV	129114	208565	1.98%	0.164%
24	15.944	2184	2188	2192	rVV2	197779	322517	3.06%	0.253%
25	16.073	2206	2210	2217	rVB	264951	416526	3.95%	0.327%
26	16.226	2222	2236	2243	rBV3	743814	1401751	13.29%	1.099%
27	16.784	2320	2331	2335	rBV2	311962	654224	6.20%	0.513%
28	16.831	2335	2339	2344	rVB2	137590	207170	1.96%	0.162%
29	16.931	2350	2356	2361	rVB2	142123	249780	2.37%	0.196%
30	17.001	2361	2368	2372	rBV4	132590	304173	2.88%	0.239%
31	17.201	2397	2402	2414	rVV6	153292	400370	3.79%	0.314%
32	17.307	2414	2420	2428	rVB	454046	719225	6.82%	0.564%
33	17.489	2445	2451	2454	rBV2	447823	771245	7.31%	0.605%
34	17.542	2454	2460	2466	rVV	5780787	9934312	94.16%	7.791%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	17.624	2466	2474	2480	rVV	2075975	3284466	31.13%	2.576%
36	17.677	2480	2483	2488	rVV2	171729	282627	2.68%	0.222%
37	17.894	2511	2520	2525	rBV	724271	1237238	11.73%	0.970%
38	18.000	2533	2538	2542	rBV2	153386	238316	2.26%	0.187%
39	18.065	2545	2549	2556	rVB2	138291	230672	2.19%	0.181%
40	18.212	2569	2574	2582	rVB	108259	230016	2.18%	0.180%
41	18.358	2589	2599	2603	rBV	963132	1589165	15.06%	1.246%
42	18.411	2603	2608	2614	rVB	1269619	1873806	17.76%	1.470%
43	18.488	2615	2621	2626	rBV	554719	880907	8.35%	0.691%
44	18.558	2626	2633	2637	rBV3	1482344	2928399	27.76%	2.297%
45	18.852	2678	2683	2688	rVV	699635	977821	9.27%	0.767%
46	18.905	2688	2692	2697	rVV	203948	302769	2.87%	0.237%
47	19.093	2716	2724	2728	rBV4	200362	356604	3.38%	0.280%
48	19.140	2728	2732	2736	rBV	185459	234002	2.22%	0.184%
49	19.181	2736	2739	2743	rVB2	182712	225213	2.13%	0.177%
50	19.263	2747	2753	2757	rBV	439318	834046	7.91%	0.654%
51	19.334	2761	2765	2767	rVB3	134018	174495	1.65%	0.137%
52	19.422	2773	2780	2792	rVB5	195350	636981	6.04%	0.500%
53	19.551	2792	2802	2806	rBV	5927436	10550606	100.00%	8.274%
54	19.586	2806	2808	2812	rVV	178511	279870	2.65%	0.219%
55	19.627	2812	2815	2819	rVV2	254542	357067	3.38%	0.280%
56	19.680	2820	2824	2827	rVV	138820	201393	1.91%	0.158%
57	19.774	2835	2840	2850	rVB2	283959	707950	6.71%	0.555%
58	19.868	2850	2856	2858	rBV2	1422941	2395997	22.71%	1.879%
59	19.910	2858	2863	2868	rVV	5267042	8982953	85.14%	7.045%
60	19.957	2868	2871	2878	rVB	462841	656892	6.23%	0.515%
61	20.080	2886	2892	2896	rBV2	1246033	1905195	18.06%	1.494%
62	20.139	2896	2902	2907	rVB	294088	539950	5.12%	0.423%
63	20.209	2908	2914	2921	rBV2	566393	1420954	13.47%	1.114%
64	20.274	2921	2925	2931	rBV	217114	347864	3.30%	0.273%
65	20.344	2931	2937	2939	rBV2	414437	824409	7.81%	0.647%
66	20.385	2939	2944	2949	rVB	1610787	2354998	22.32%	1.847%
67	20.485	2955	2961	2964	rBV	1558909	2214826	20.99%	1.737%
68	20.544	2964	2971	2974	rVV2	718665	1524616	14.45%	1.196%
69	20.573	2974	2976	2980	rVV	312187	397838	3.77%	0.312%
70	20.615	2980	2983	2988	rVB2	171521	256254	2.43%	0.201%
71	20.679	2990	2994	2998	rVV	406177	567003	5.37%	0.445%

LSC Area Percent Report

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Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.726	2998	3002	3012	rVB	519090	833892	7.90%	0.654%
73	20.973	3041	3044	3046	rBV3	133833	172037	1.63%	0.135%
74	21.096	3061	3065	3070	rBV	245561	462428	4.38%	0.363%
75	21.149	3070	3074	3081	rVB	320057	550829	5.22%	0.432%
76	21.337	3098	3106	3110	rBV	570129	1171913	11.11%	0.919%
77	21.378	3110	3113	3118	rVB	597352	903291	8.56%	0.708%
78	21.431	3118	3122	3127	rBV2	556857	923845	8.76%	0.725%
79	21.760	3167	3178	3184	rBV3	3381616	7735335	73.32%	6.066%
80	21.825	3184	3189	3195	rVB	2724102	4629063	43.87%	3.630%
81	21.978	3210	3215	3222	rBV	597548	1017301	9.64%	0.798%
82	22.048	3223	3227	3231	rVV3	142877	228500	2.17%	0.179%
83	22.119	3237	3239	3244	rVB	265321	361625	3.43%	0.284%
84	22.189	3245	3251	3258	rBV3	414290	877488	8.32%	0.688%
85	22.430	3287	3292	3297	rBV4	211198	425550	4.03%	0.334%
86	22.512	3298	3306	3314	rVV	590229	1558456	14.77%	1.222%
87	22.589	3314	3319	3325	rVB	302573	594123	5.63%	0.466%
88	22.736	3340	3344	3350	rVB2	266231	510449	4.84%	0.400%
89	22.800	3350	3355	3359	rVV2	278993	529660	5.02%	0.415%
90	22.847	3359	3363	3371	rVB3	376090	832483	7.89%	0.653%
91	22.935	3373	3378	3385	rBV3	220384	488062	4.63%	0.383%
92	23.223	3422	3427	3429	rBV5	119971	215786	2.05%	0.169%
93	24.058	3558	3569	3575	rBV2	1518396	5303737	50.27%	4.159%
94	24.310	3605	3612	3620	rVB	382273	899055	8.52%	0.705%
95	24.804	3687	3696	3711	rVB	886498	2833872	26.86%	2.222%
96	24.968	3713	3724	3733	rVV	1537067	4345751	41.19%	3.408%
97	25.115	3742	3749	3755	rBV	223525	637770	6.04%	0.500%
98	25.192	3756	3762	3774	rVB2	422520	1382798	13.11%	1.084%
99	28.958	4390	4403	4427	rVB3	565386	3007202	28.50%	2.358%
100	30.168	4595	4609	4626	rVB	339719	1635299	15.50%	1.282%

Sum of corrected areas: 127512869

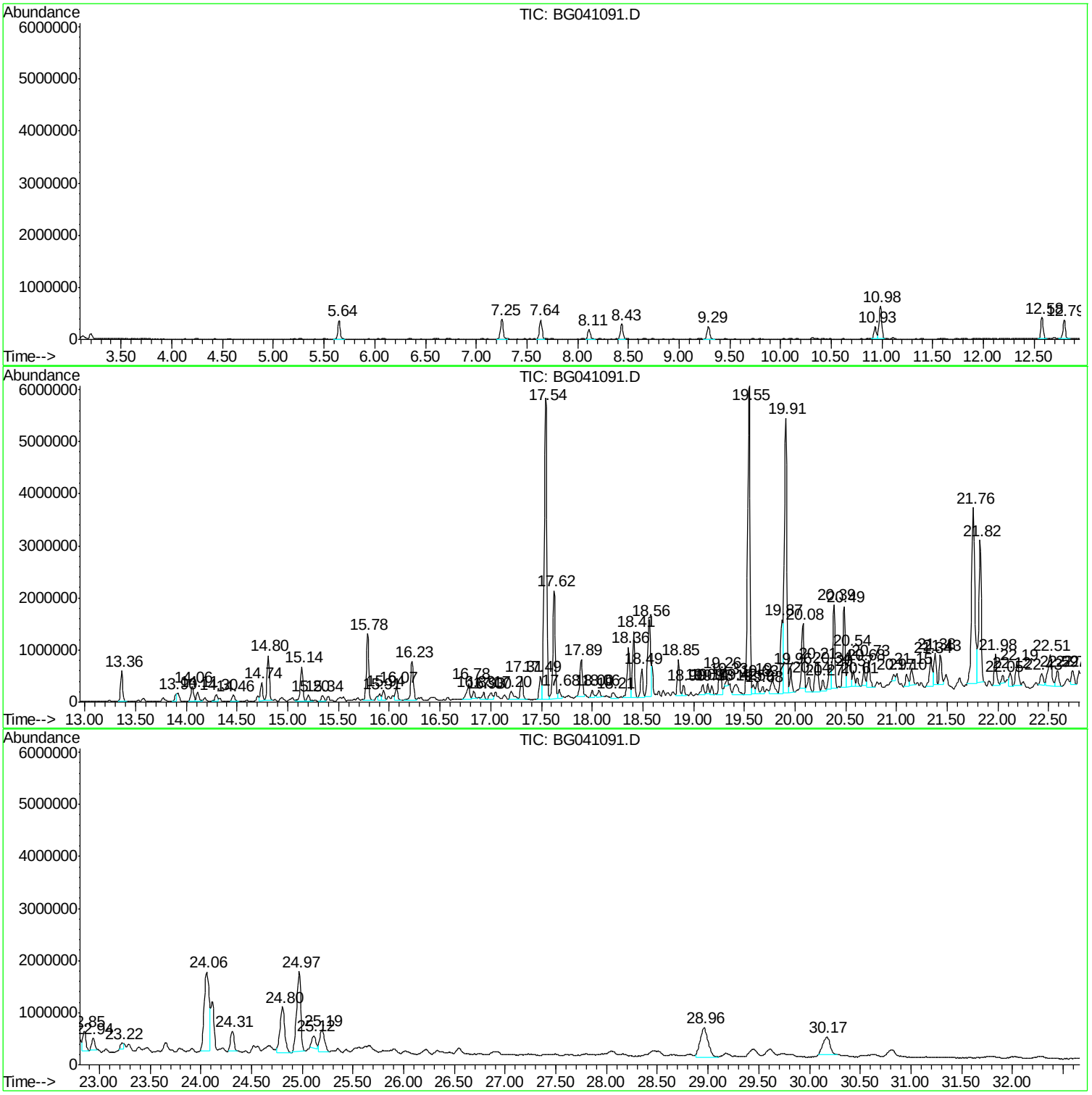
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
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Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

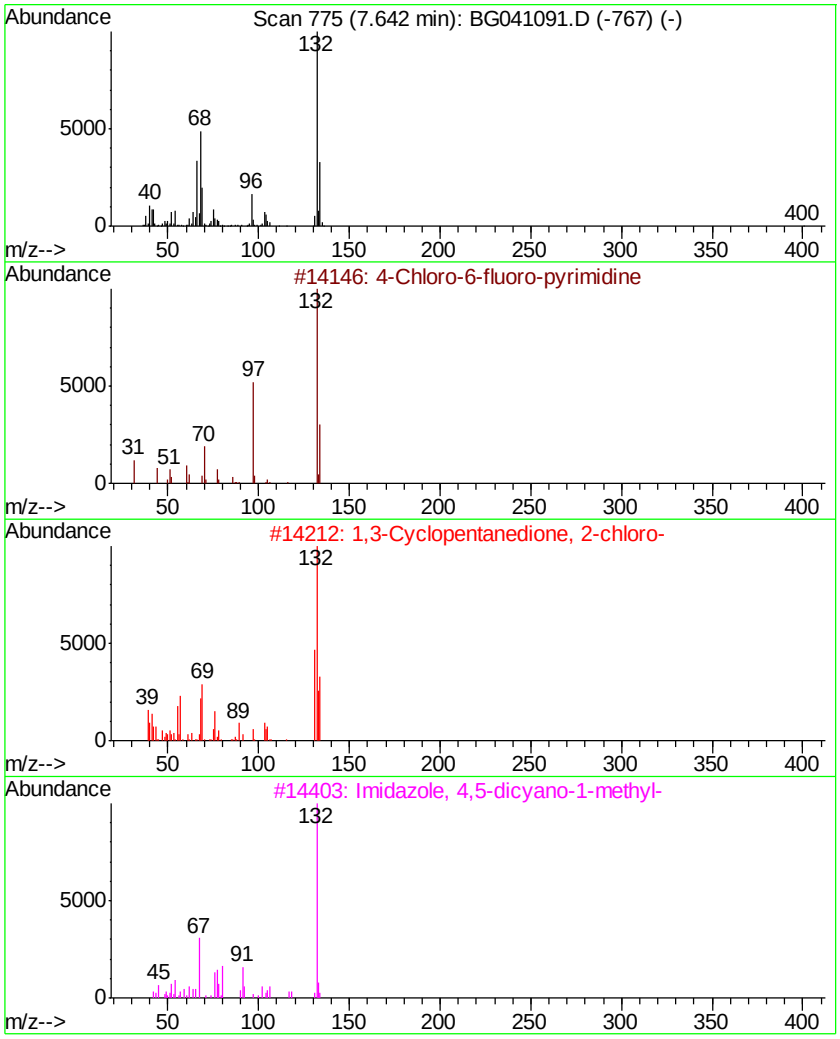
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

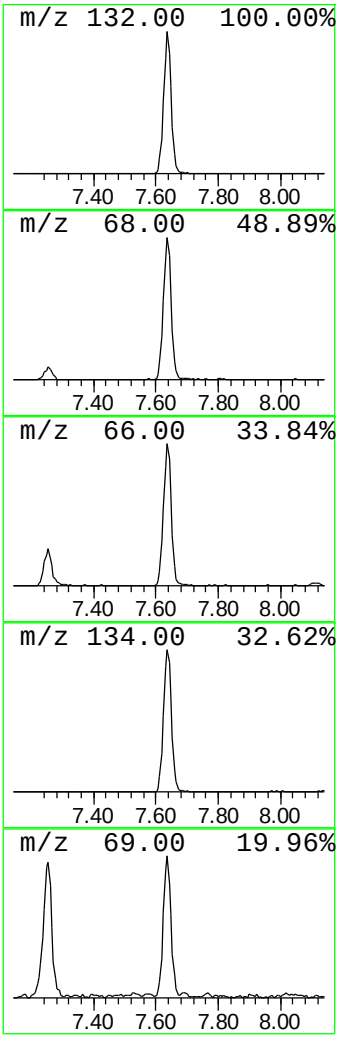
****

Peak Number 1 unknown7.64 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.64	39.96 ng	644644	1,4-Dichlorobenzene-d4	8.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
2	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	25
3	Imidazole, 4,5-dicyano-1-methyl-	132	C6H4N4	019485-35-9	25
4	5-Aminoindole	132	C8H8N2	005192-03-0	22
5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

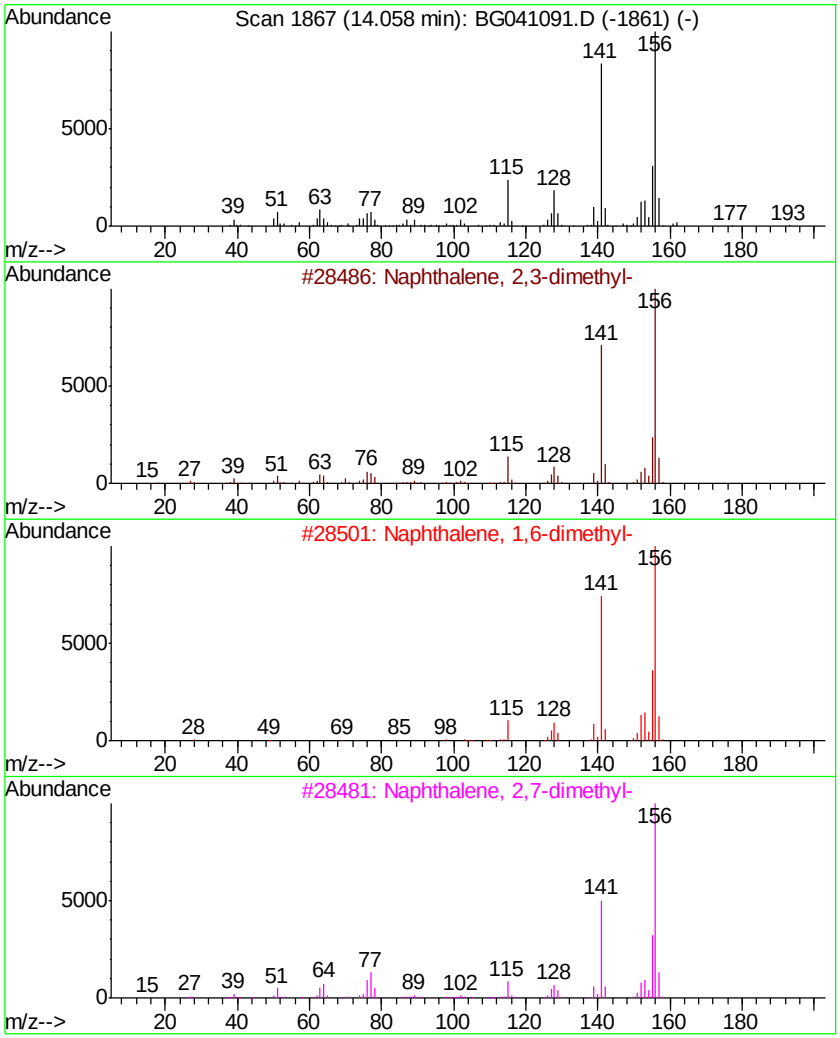
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

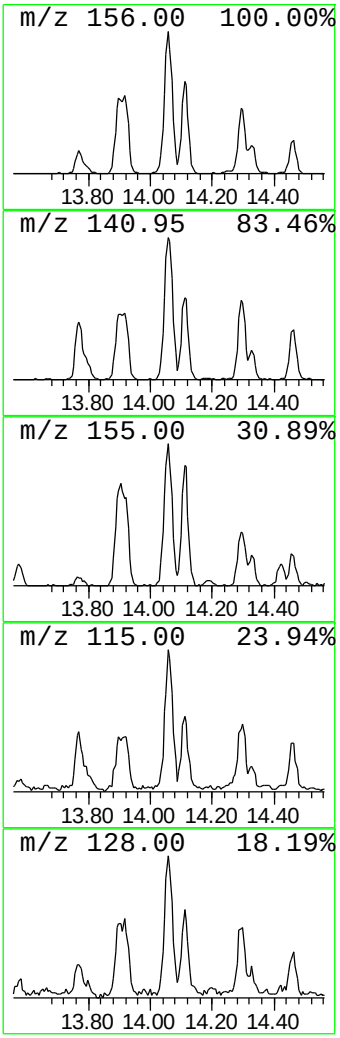
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.06	17.53 ng	497686	Acenaphthene-d10	14.74

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	95
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	94
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

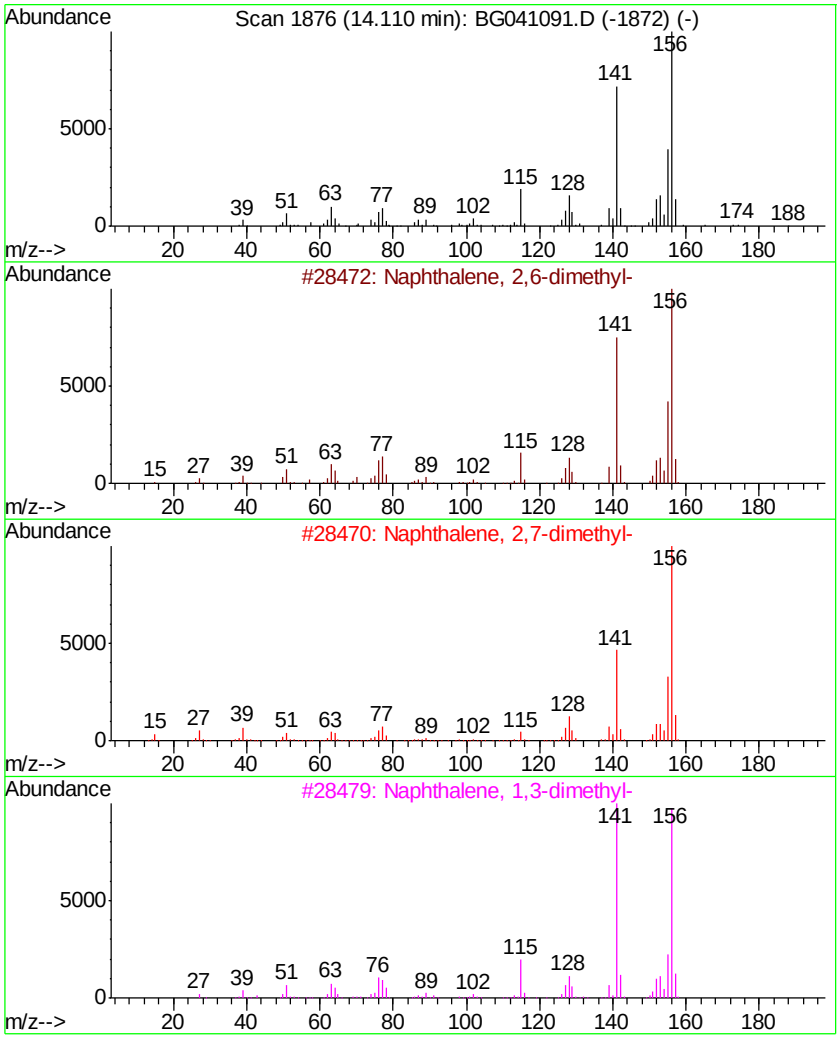
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

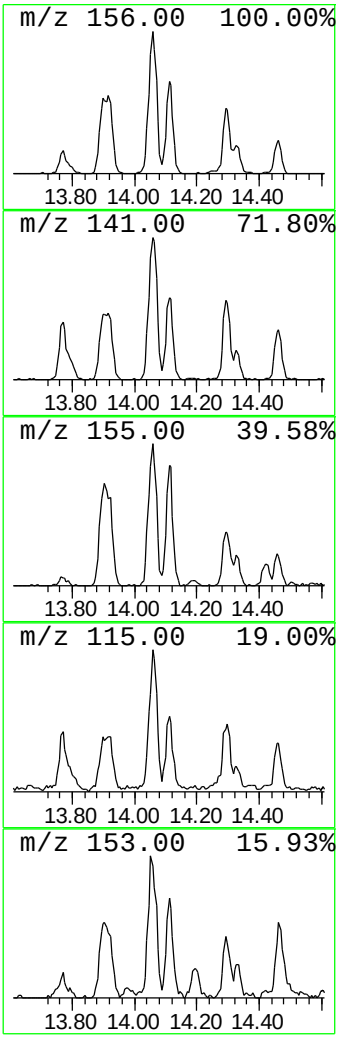
****

Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	10.48 ng	297509	Acenaphthene-d10	14.74

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	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

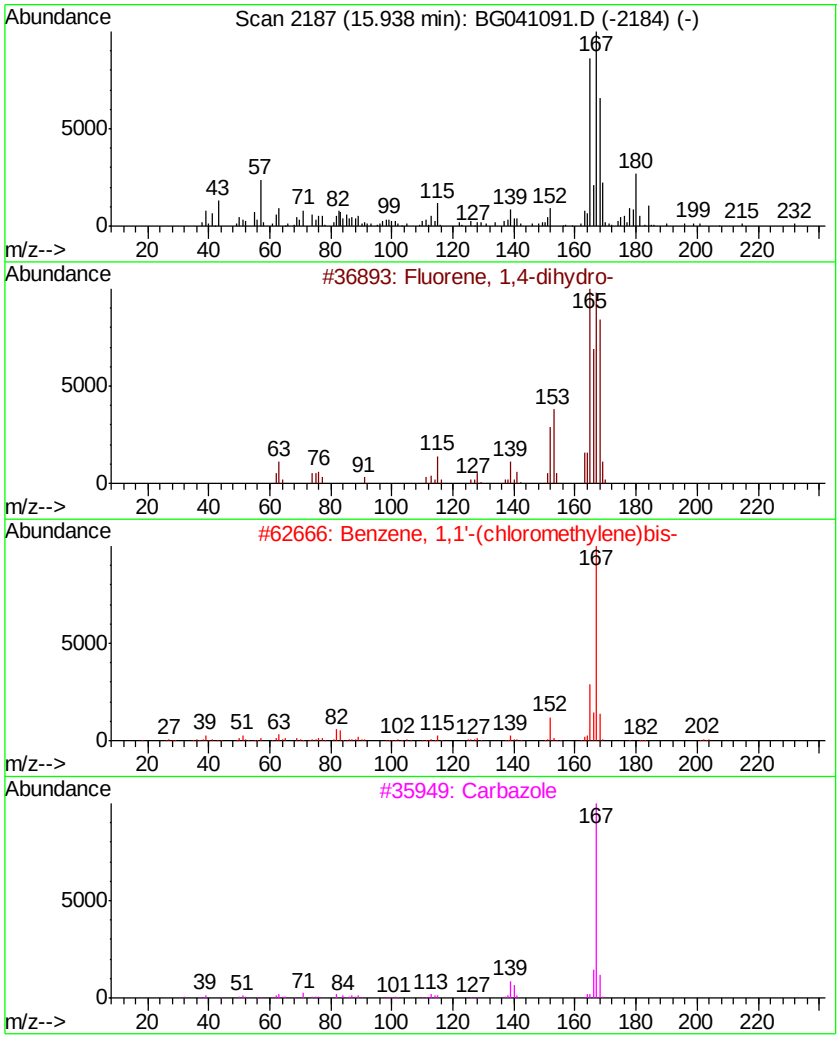
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

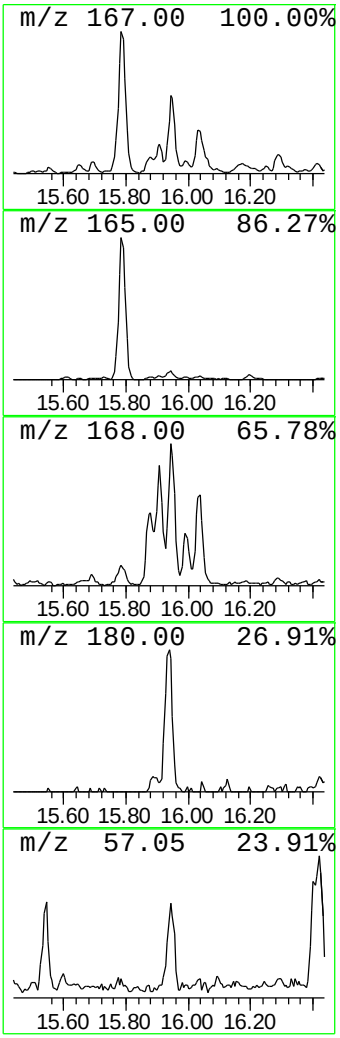
****

Peak Number 5 unknown15.94 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	11.36 ng	322517	Acenaphthene-d10	14.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluorene, 1,4-dihydro-	168	C13H12	041593-21-9	49
2	Benzene, 1,1'-(chloromethylene)bis-	202	C13H11Cl	000090-99-3	47
3	Carbazole	167	C12H9N	000086-74-8	45
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	43
5	Diphenylmethane	168	C13H12	000101-81-5	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

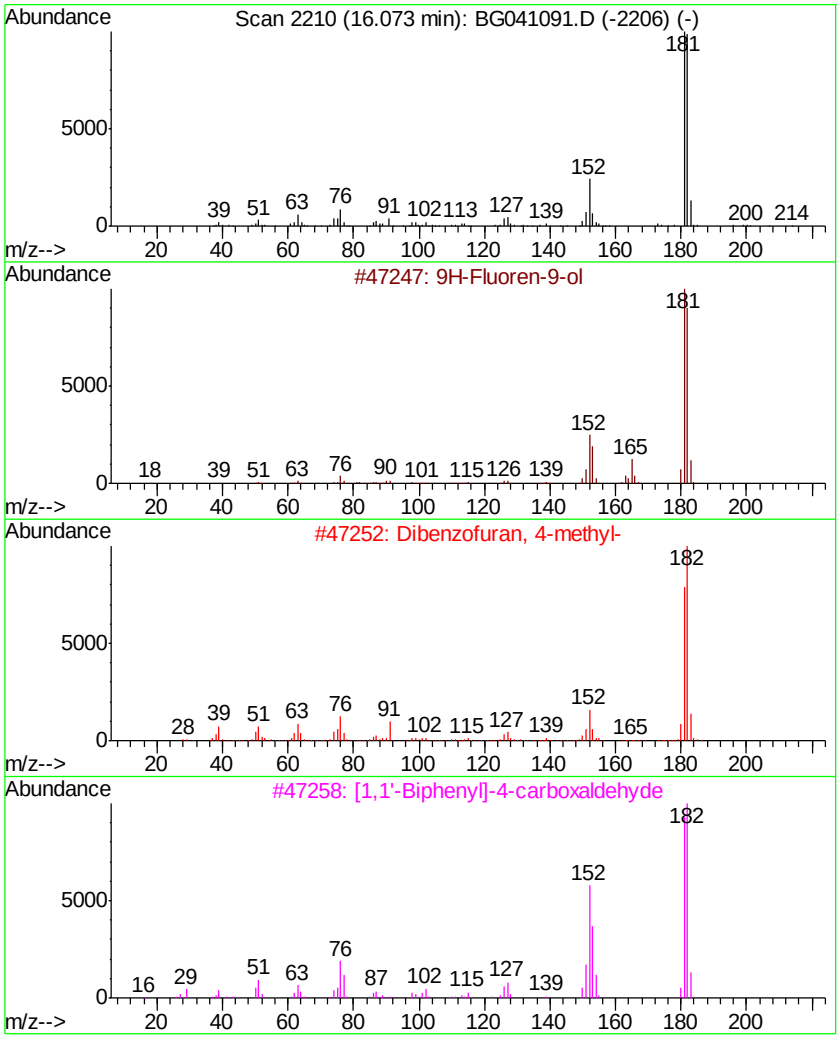
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

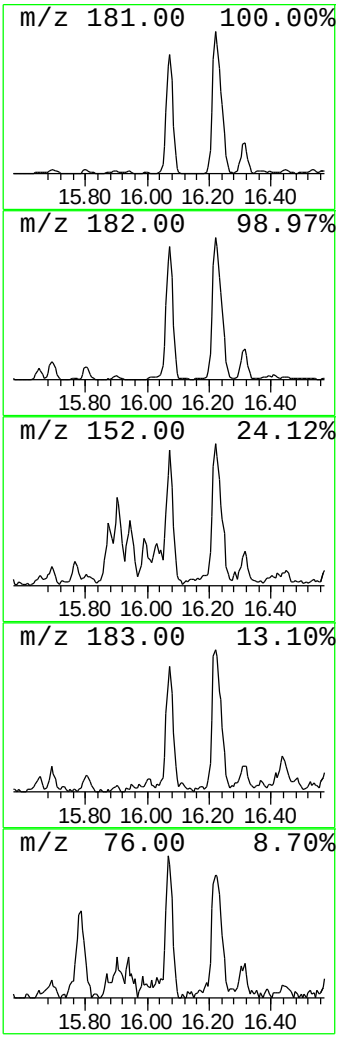
****

Peak Number 6 9H-Fluoren-9-ol Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.07	14.67 ng	416526	Acenaphthene-d10	14.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	90
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	87
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
4	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	72
5	9H-Xanthene	182	C13H10O	000092-83-1	60





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Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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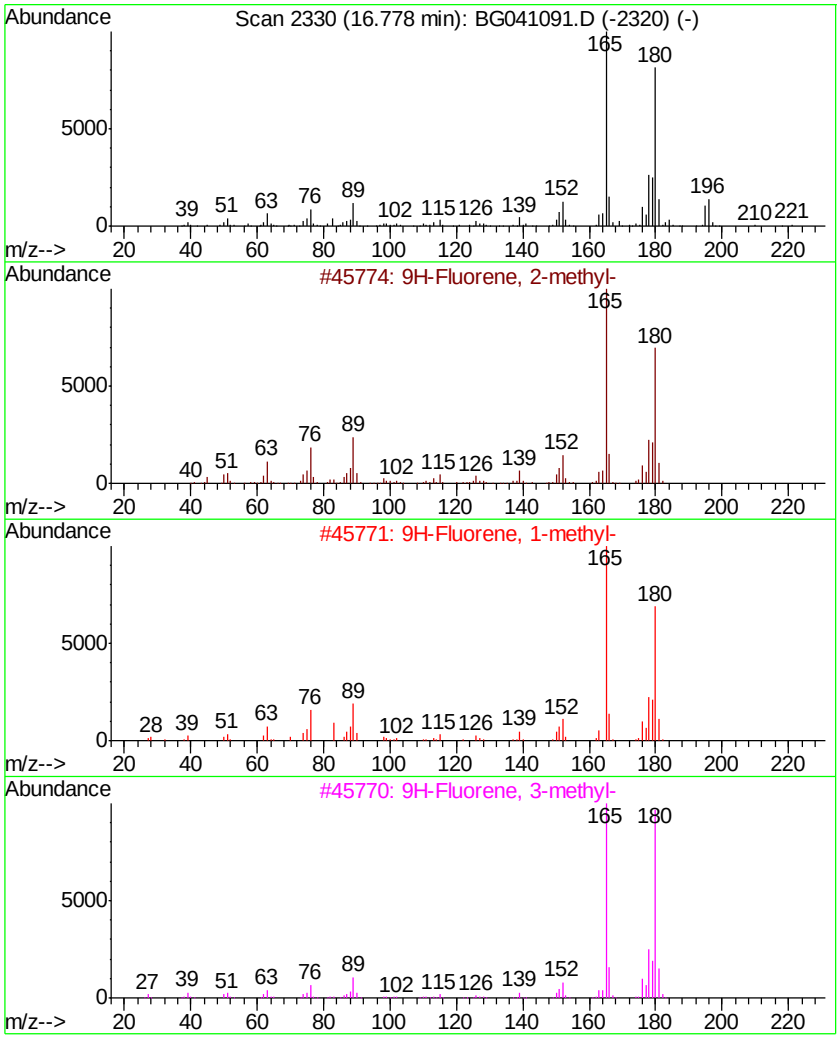
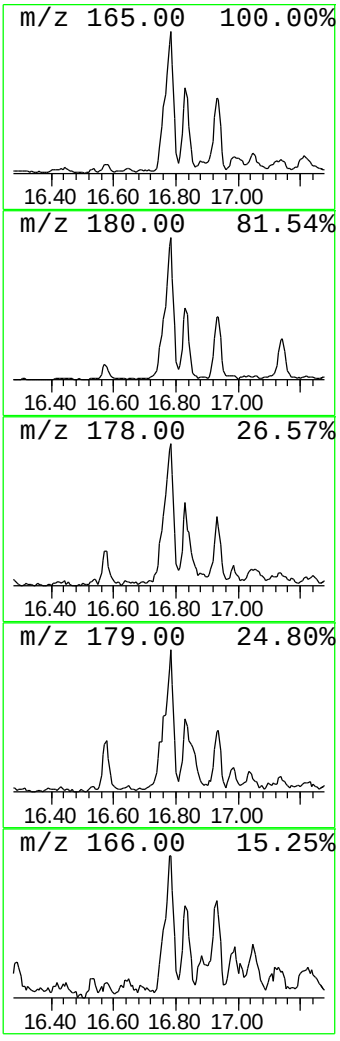
Peak Number 7 9H-Fluorene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.78	16.97 ng	654224	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94
4	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	92
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	89





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Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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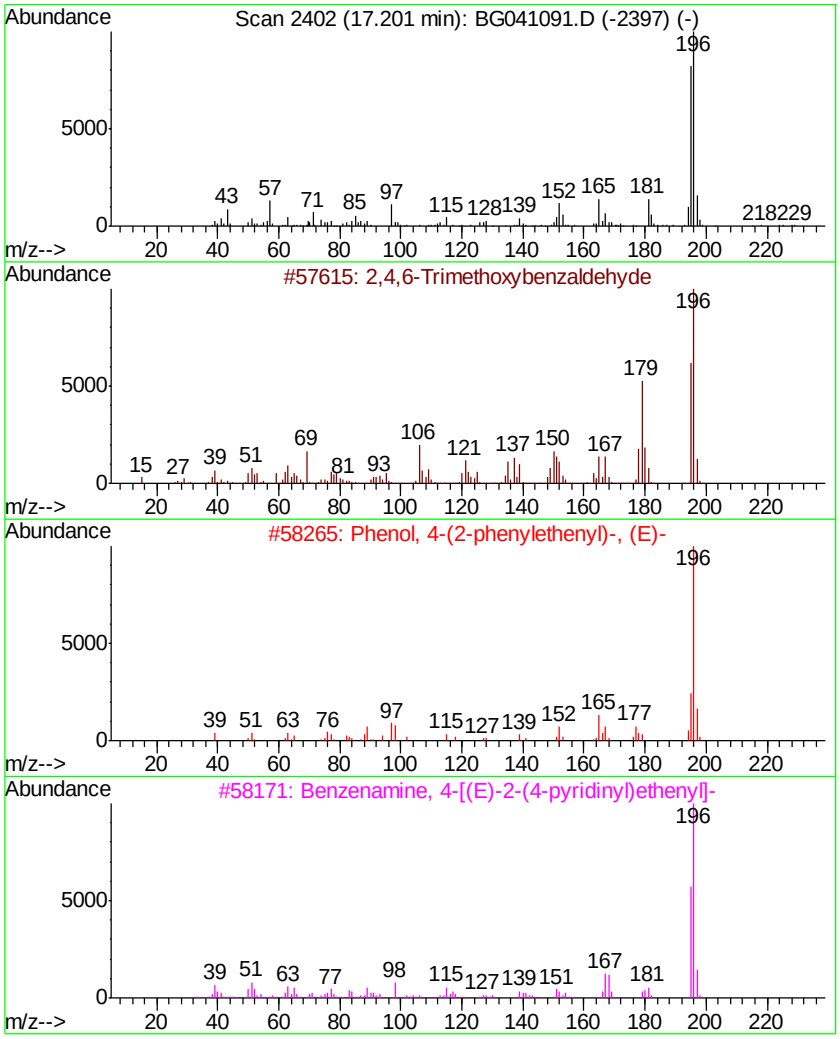
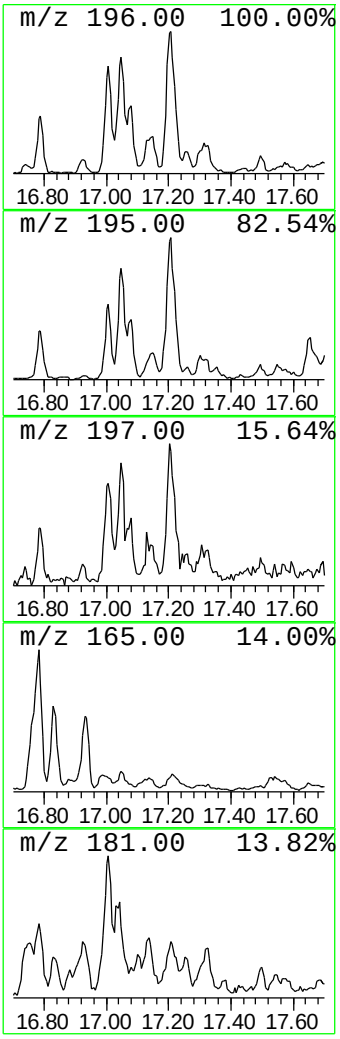
Peak Number 8 2,4,6-Trimethoxybenzaldehyde Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.20	10.38 ng	400370	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	64
2	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	64
3	Benzenamine, 4-[(E)-2-(4-pyridin...	196	C13H12N2	1000351-61-4	59
4	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	50
5	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	49





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Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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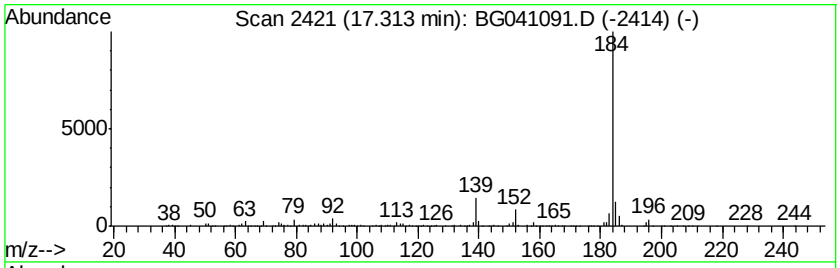
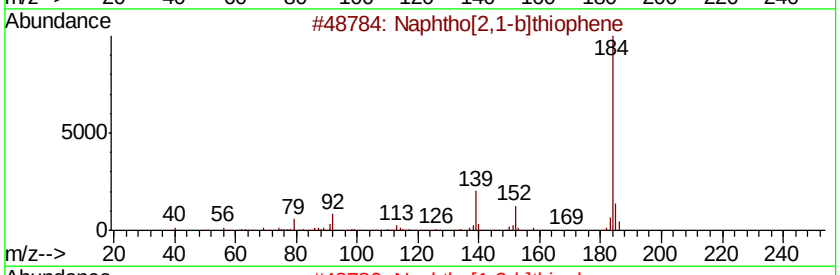
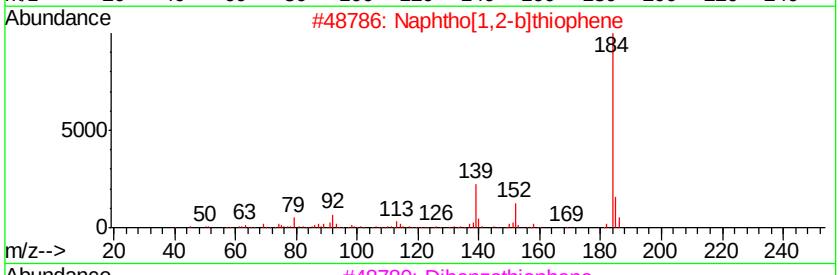
Peak Number 9 Naphtho[2,1-b]thiophene Concentration Rank 12

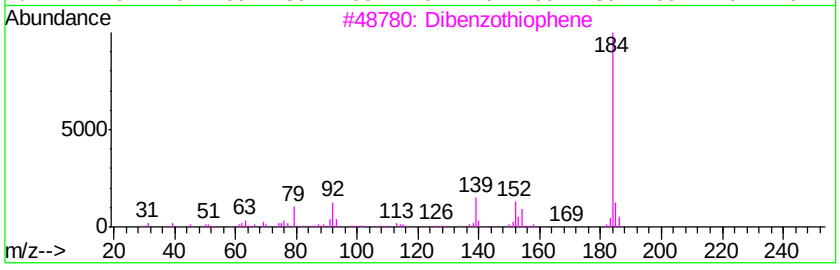
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.31	18.65 ng	719225	Phenanthrene-d10	17.49

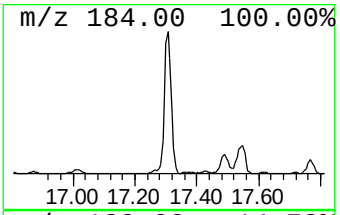
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90

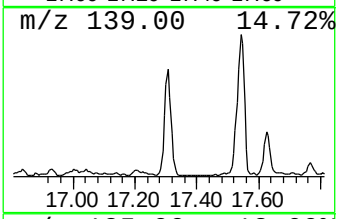


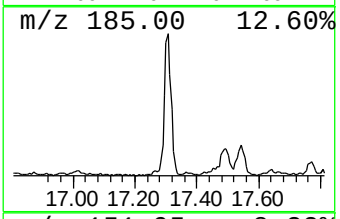


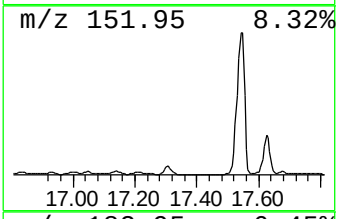


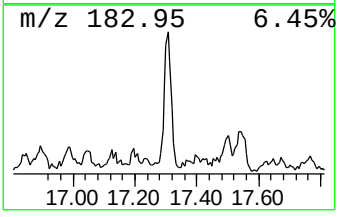












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Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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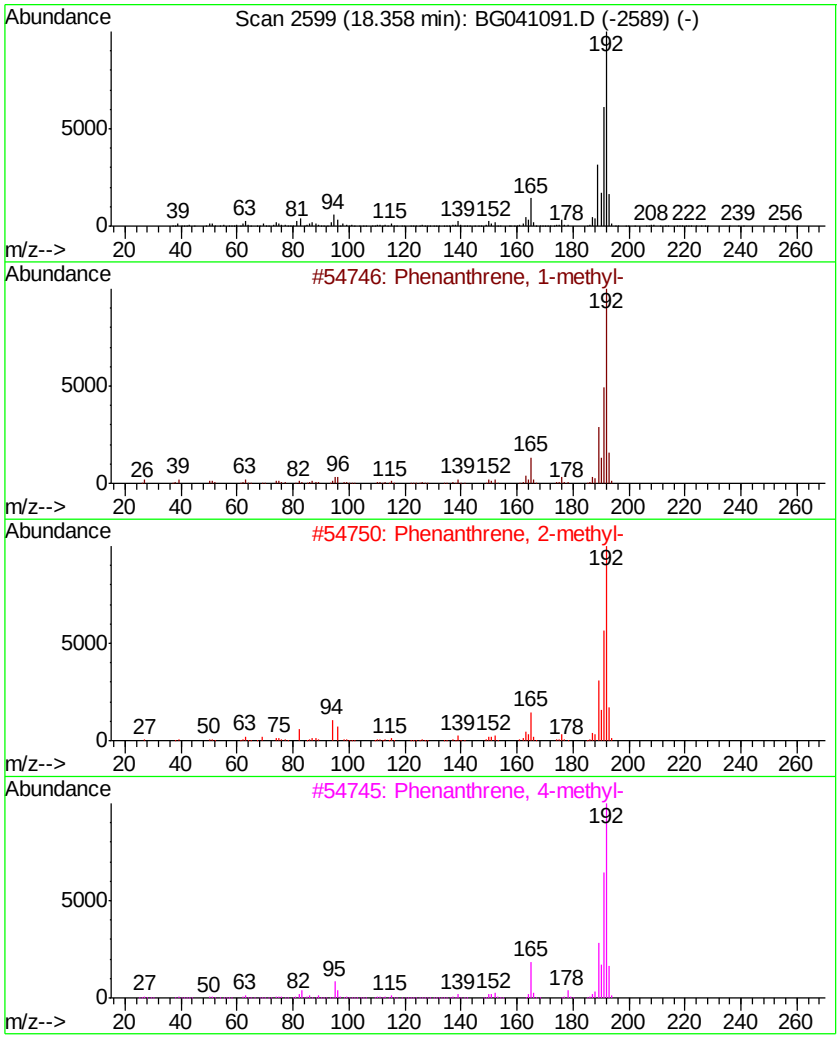
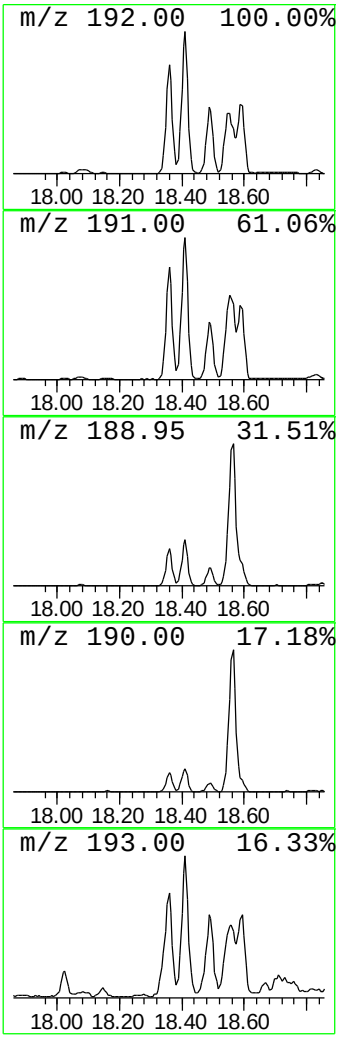
Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.36	41.21 ng	1589170	Phenanthrene-d10	17.49

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-Indene, 1-phenyl-	192	C15H12	001961-96-2	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





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Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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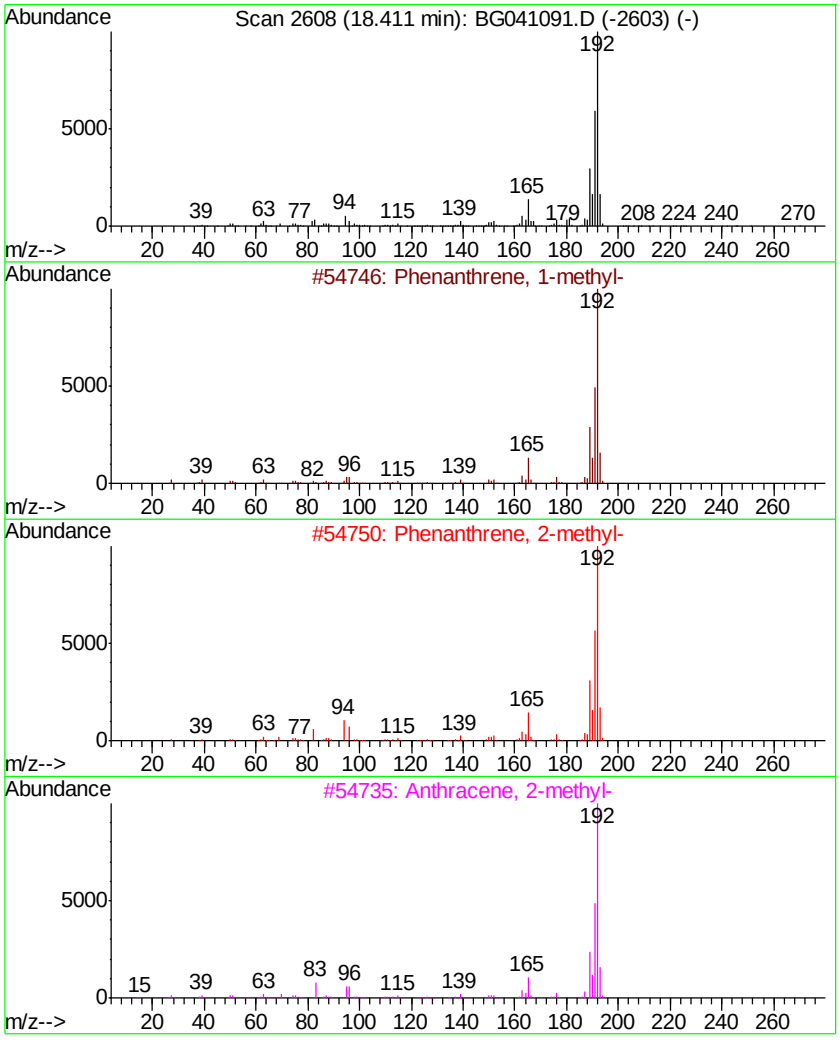
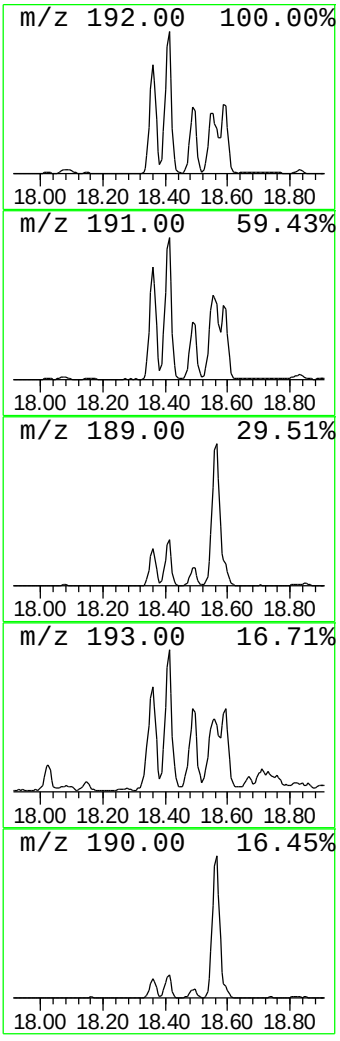
Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.41	48.59 ng	1873810	Phenanthrene-d10	17.49

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	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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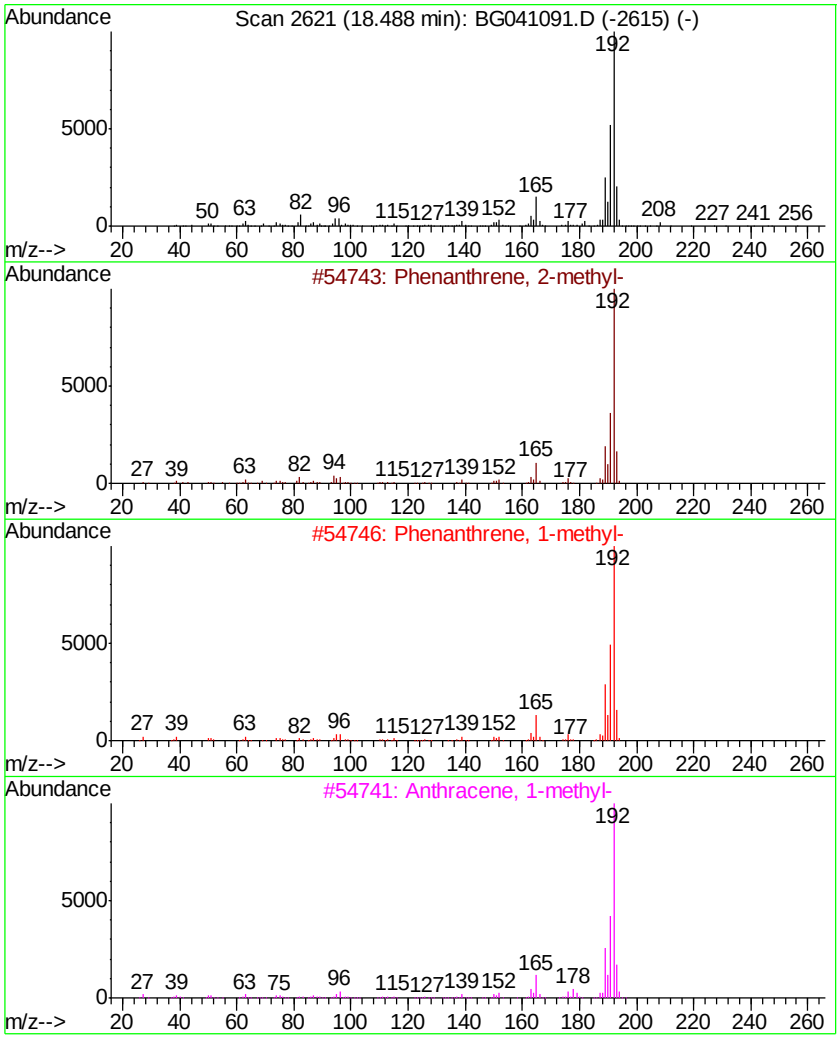
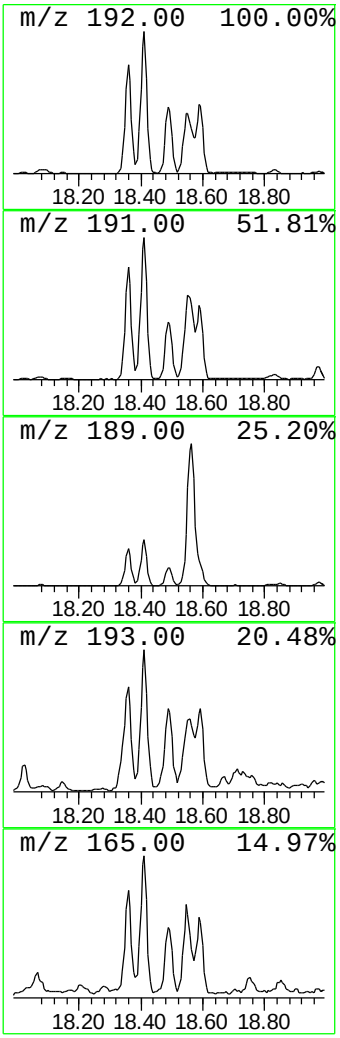
Peak Number 12 Anthracene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	22.84 ng	880907	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93





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Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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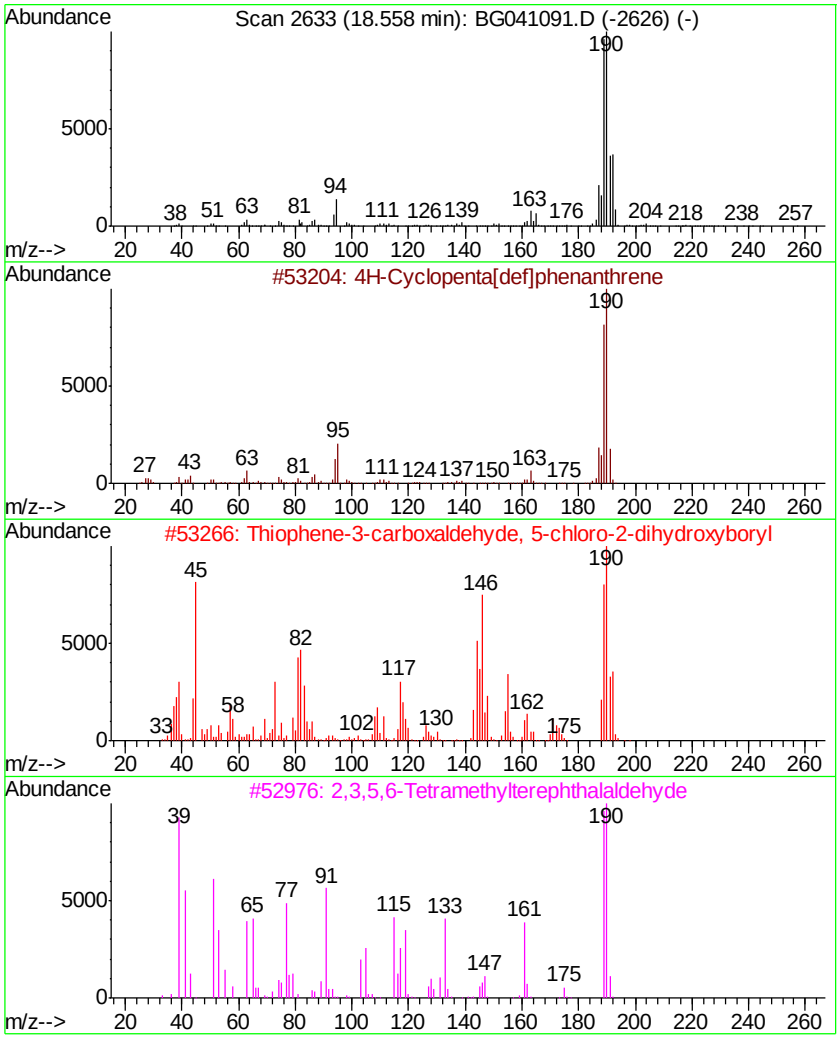
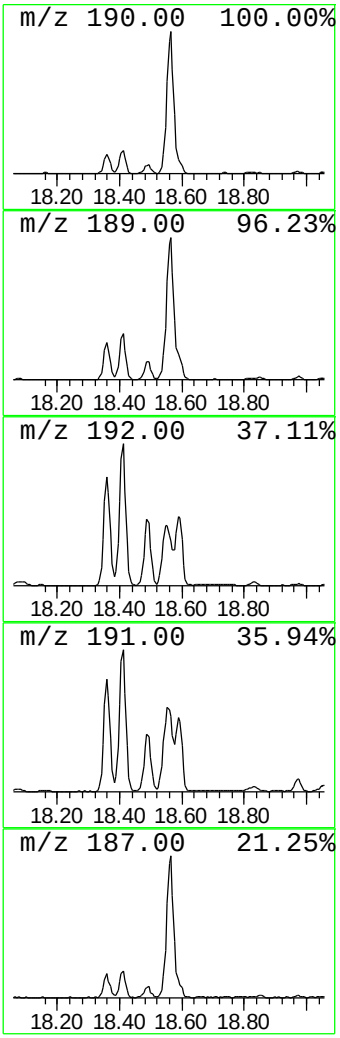
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	75.94 ng	2928400	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	89
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	Methyl diselenide	190	C2H6Se2	007101-31-7	38
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	33





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Sample : K3136-01 2X
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ClientSampleId : FESB-24(6.5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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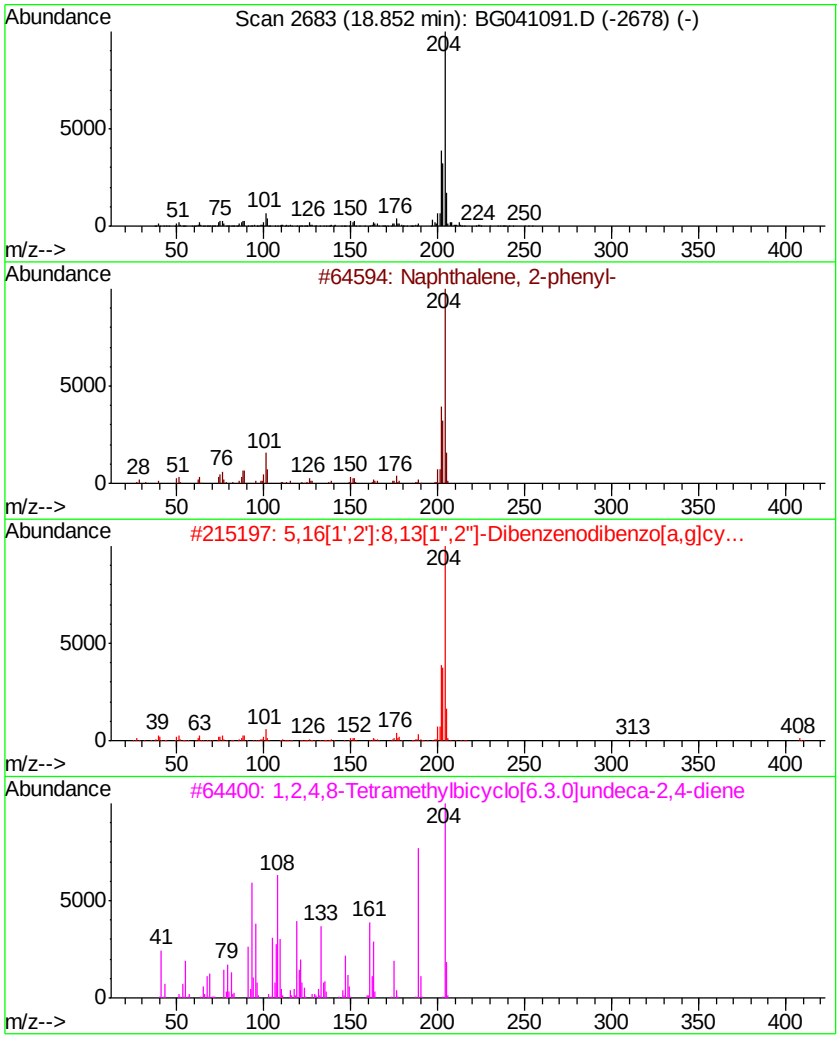
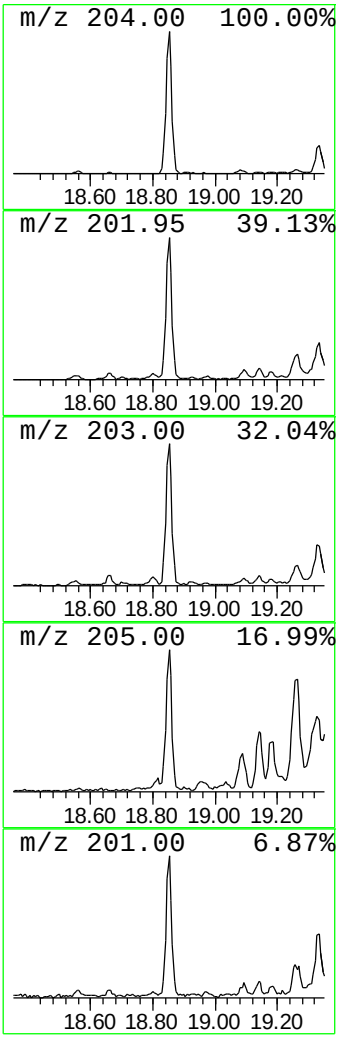
Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	25.36 ng	977821	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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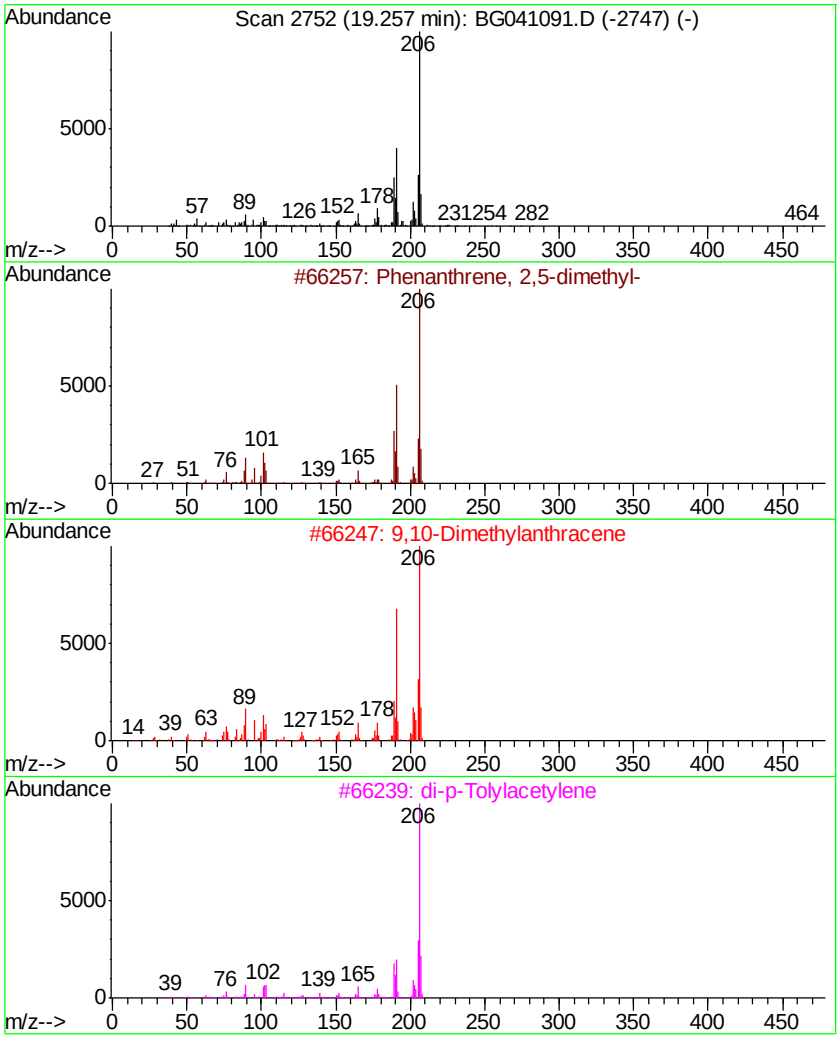
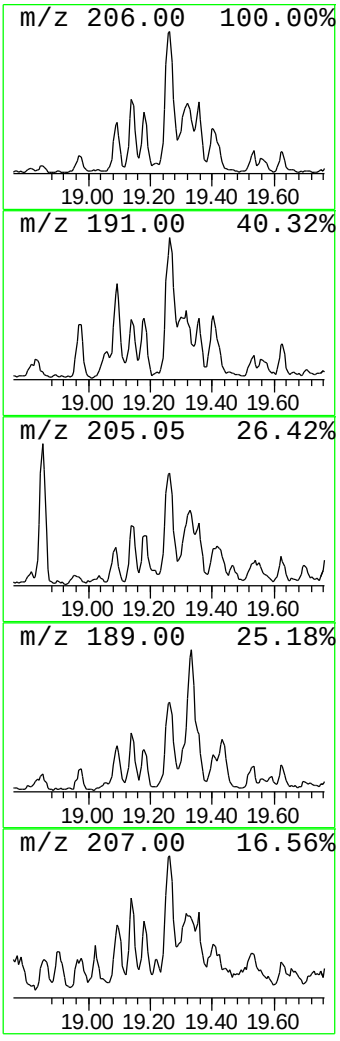
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.26	21.63 ng	834046	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90





Library Search Compound Report

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Misc :
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ClientSampleId : FESB-24(6.5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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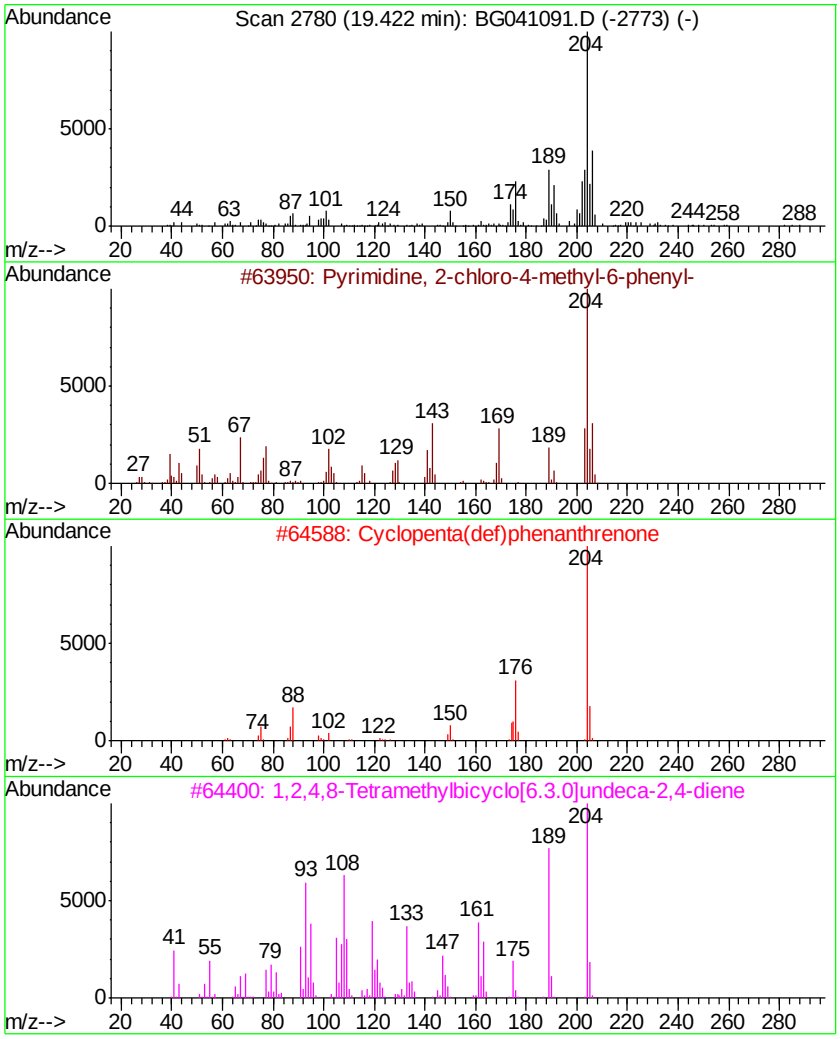
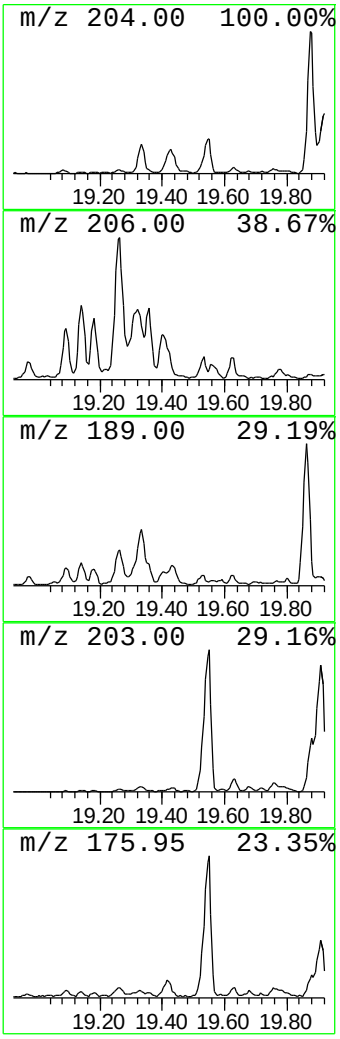
Peak Number 16 Pyrimidine, 2-chloro-4-meth... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.42	16.52 ng	636981	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	50
2	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	46
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	46
4	1,2,4-Triazolo[2,3-c]thieno[3,2-...	204	C9H8N4S	113246-88-1	43
5	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	43





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Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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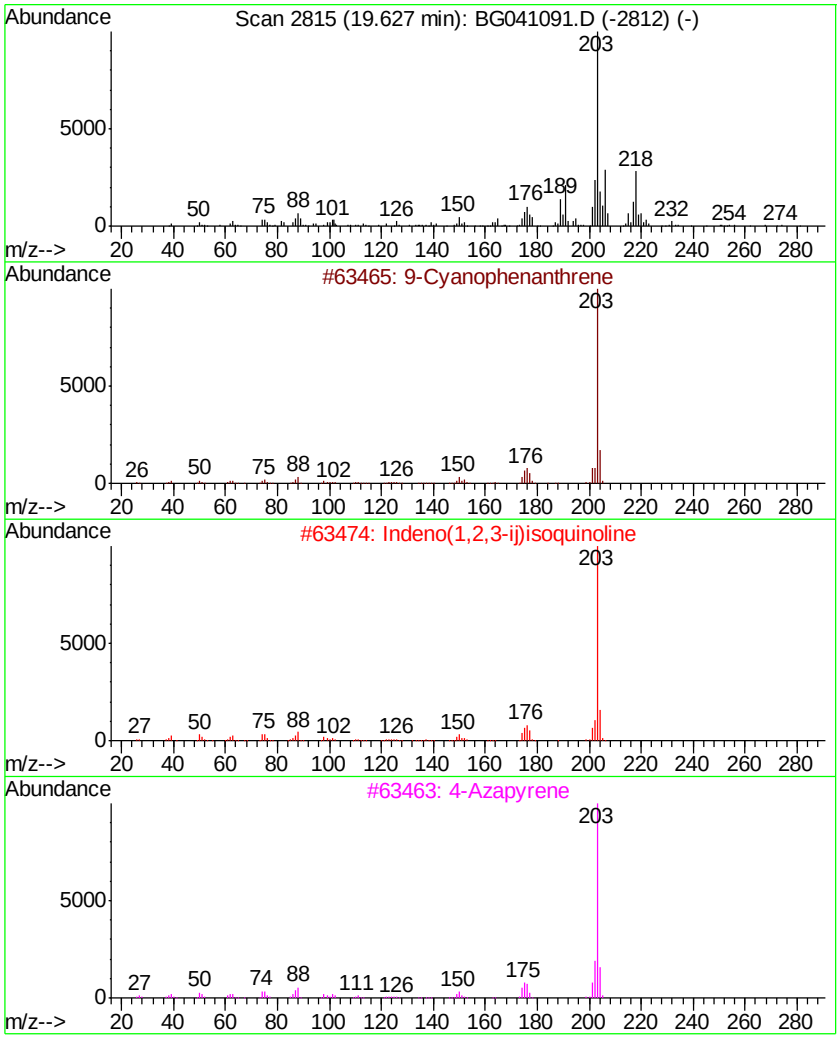
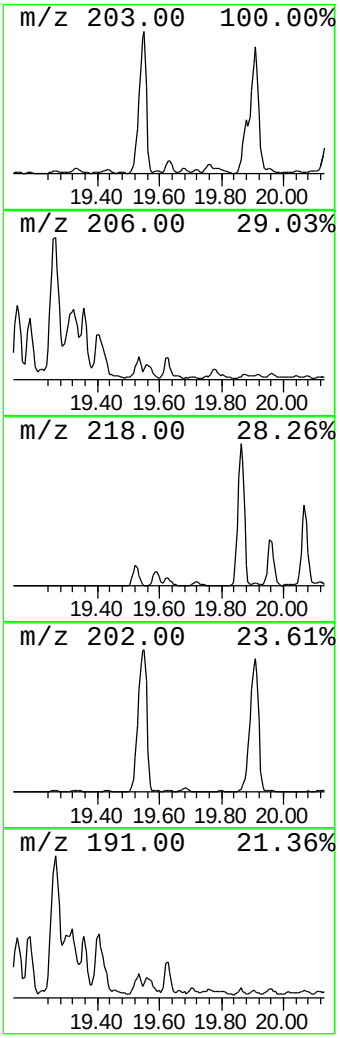
Peak Number 17 9-Cyanophenanthrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.63	9.26 ng	357067	Phenanthrene-d10	17.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Cyanophenanthrene	203	C15H9N	002510-55-6	86
2	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	83
3	4-Azapyrene	203	C15H9N	000194-03-6	70
4	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	62
5	Naphtho(2,1,8-def)quinoline	203	C15H9N	000313-80-4	46





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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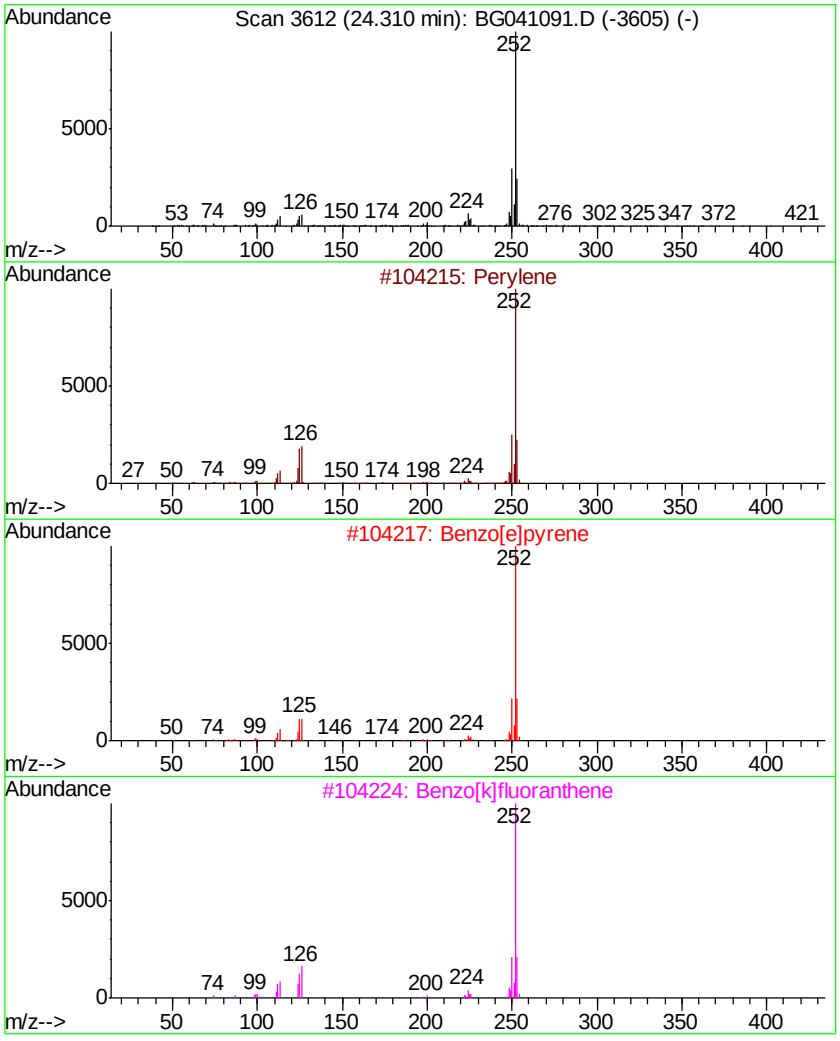
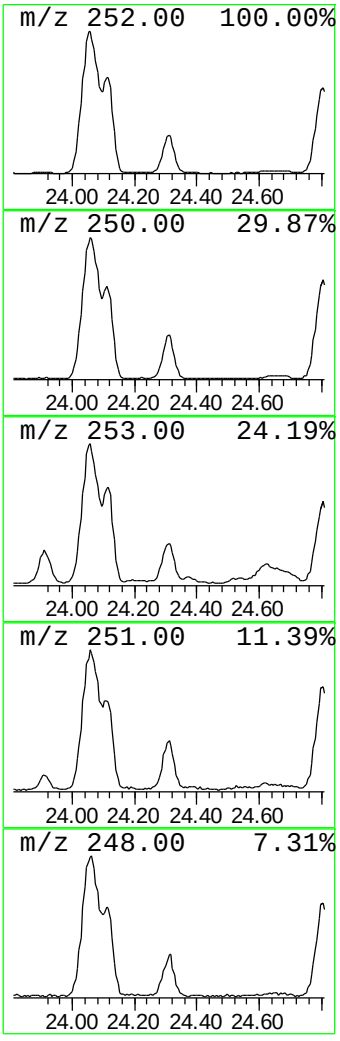
Peak Number 18 Perylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.31	28.19 ng	899055	Perylene-d12	25.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	89
2	Benzo[e]pyrene	252	C20H12	000192-97-2	87
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	81
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	81
5	Benzo[a]pyrene	252	C20H12	000050-32-8	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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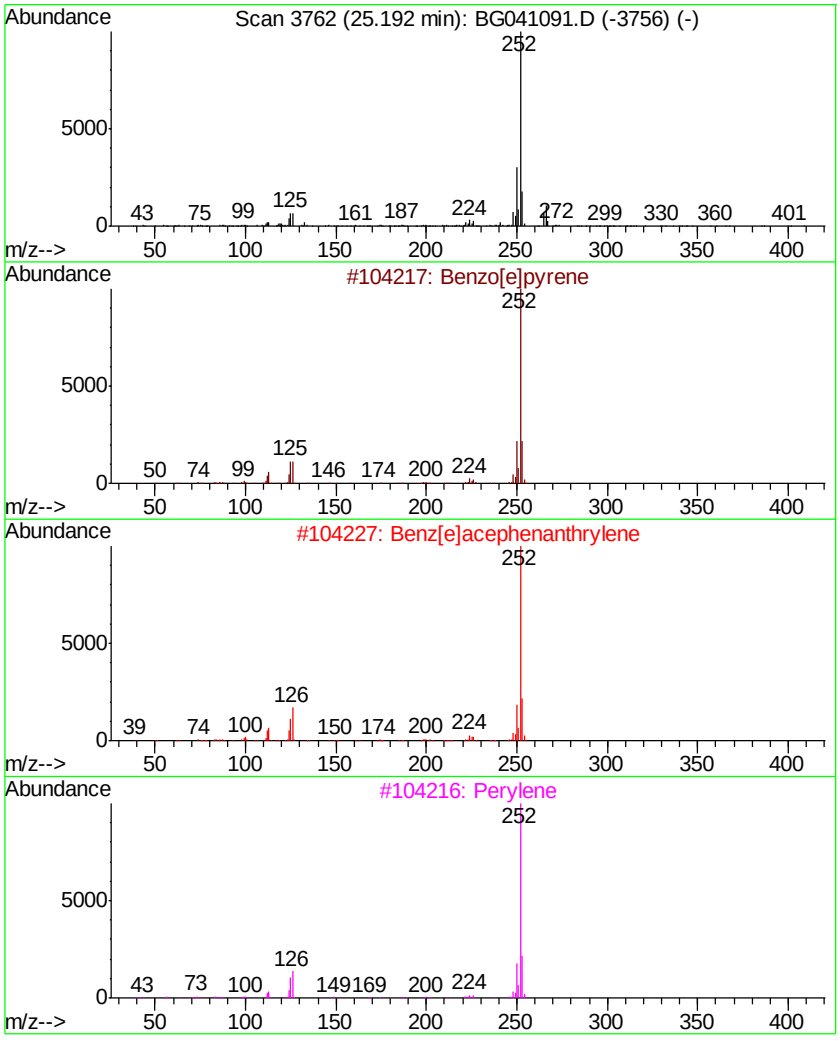
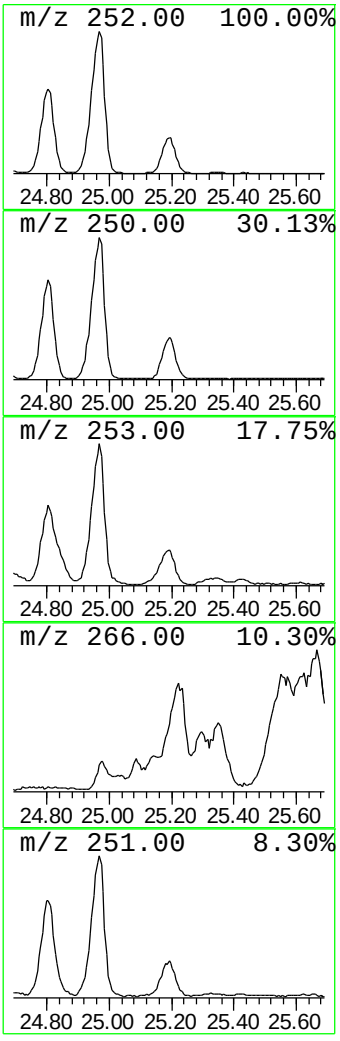
Peak Number 20 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.19	43.36 ng	1382800	Perylene-d12	25.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	95
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	76
3	Perylene	252	C20H12	000198-55-0	70
4	Benzo[a]pyrene	252	C20H12	000050-32-8	64
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG060619\
Data File : BG041091.D
Acq On : 6 Jun 2019 14:58
Operator : HP/JU
Sample : K3136-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : FESB-24(6.5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown7.64	7.64	40.0	ng	644644	1	8.12	322636	20.0
Naphthalene, 2,3-...	14.06	17.5	ng	497686	3	14.74	567957	20.0
Naphthalene, 2,6-...	14.11	10.5	ng	297509	3	14.74	567957	20.0
unknown15.94	15.94	11.4	ng	322517	3	14.74	567957	20.0
9H-Fluoren-9-ol	16.07	14.7	ng	416526	3	14.74	567957	20.0
9H-Fluorene, 2-me...	16.78	17.0	ng	654224	4	17.49	771245	20.0
2,4,6-Trimethoxyb...	17.20	10.4	ng	400370	4	17.49	771245	20.0
Naphtho[2,1-b]thi...	17.31	18.6	ng	719225	4	17.49	771245	20.0
Phenanthrene, 1-m...	18.36	41.2	ng	1589170	4	17.49	771245	20.0
Phenanthrene, 2-m...	18.41	48.6	ng	1873810	4	17.49	771245	20.0
Anthracene, 1-met...	18.49	22.8	ng	880907	4	17.49	771245	20.0
4H-Cyclopenta[def...	18.56	75.9	ng	2928400	4	17.49	771245	20.0
Naphthalene, 2-ph...	18.85	25.4	ng	977821	4	17.49	771245	20.0
Phenanthrene, 2,5...	19.26	21.6	ng	834046	4	17.49	771245	20.0
Pyrimidine, 2-chl...	19.42	16.5	ng	636981	4	17.49	771245	20.0
9-Cyanophenanthrene	19.63	9.3	ng	357067	4	17.49	771245	20.0
Perylene	24.31	28.2	ng	899055	6	25.12	637770	20.0
Benzo[e]pyrene	25.19	43.4	ng	1382800	6	25.12	637770	20.0