LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

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-BG041520.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	5.546	412	418	425	rBV	69228	124448	6.42%	0.570%
2	5.975	483	491	498	rBV6	8907	20737	1.07%	0.095%
3	7.144	683	690	696	rBV	74706	144719	7.47%	0.663%
4	7.638	767	774	780	rBV5	12111	31145	1.61%	0.143%
5	7.972	824	831	842	rBV	275403	513092	26.48%	2.352%
6	8.301	879	887	900	rBV2	73408	143653	7.41%	0.658%
7	9.136	1016	1029	1039	rBV	51989	106556	5.50%	0.488%
8	10.786	1300	1310	1316	rBV	400512	745710	38.49%	3.418%
9	10.833	1316	1318	1327	rVB	18525	28405	1.47%	0.130%
10	11.303	1389	1398	1401	rBV3	12997	25324	1.31%	0.116%
11	12.443	1587	1592	1598	rVB3	21396	35500	1.83%	0.163%
12	12.666	1623	1630	1638	rBV2	23736	44803	2.31%	0.205%
13	13.242	1720	1728	1735	rBV	175709	292863	15.12%	1.342%
14	13.782	1813	1820	1822	rBV3	35094	64857	3.35%	0.297%
15	13.941	1841	1847	1853	rBV2	62711	110638	5.71%	0.507%
16	13.994	1853	1856	1861	rVV2	27985	40298	2.08%	0.185%
17	14.064	1861	1868	1874	rVV4	43330	88428	4.56%	0.405%
18	14.176	1882	1887	1891	rBV3	36779	59713	3.08%	0.274%
19	14.340	1907	1915	1919	rBV2	41847	83651	4.32%	0.383%
20	14.464	1931	1936	1940	rVB5	22288	36428	1.88%	0.167%
21	14.528	1942	1947	1951	rBV7	15319	25369	1.31%	0.116%
22	14.616	1953	1962	1969	rBV	646318	1094064	56.47%	5.015%
23	14.681	1969	1973	1977	rBV2	22403	31585	1.63%	0.145%
24	14.834	1993	1999	2008	rBV3	35697	90071	4.65%	0.413%
25	14.916	2008	2013	2015	rBV5	15602	26151	1.35%	0.120%
26	15.022	2023	2031	2037	rBV2	67170	125980	6.50%	0.577%
27	15.098	2039	2044	2049	rVB	63432	94096	4.86%	0.431%
28	15.157	2050	2054	2061	rVB10	12590	24296	1.25%	0.111%
29	15.239	2061	2068	2073	rBV3	64019	146403	7.56%	0.671%
30	15.292	2073	2077	2082	rVB2	46995	70664	3.65%	0.324%
31	15.415	2090	2098	2100	rBV5	39779	90824	4.69%	0.416%
32	15.574	2123	2125	2130	rVB5	24723	35967	1.86%	0.165%
33	15.662	2136	2140	2145	rBV3	42493	68630	3.54%	0.315%
34	15.715	2145	2149	2153	rVB4	17361	25069	1.29%	0.115%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

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-BG041520.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	15.762	2153	2157	2158	rBV4	20486	22883	1.18%	0.105%
36	15.791	2158	2162	2165	rVB4	28823	44398	2.29%	0.204%
37	15.826	2165	2168	2174	rVB7	19268	37023	1.91%	0.170%
38	15.885	2174	2178	2184	rBV6	44365	70943	3.66%	0.325%
39	15.956	2185	2190	2193	rBV5	24070	44995	2.32%	0.206%
40	16.108	2209	2216	2224	rVB3	144065	273853	14.13%	1.255%
41	16.179	2226	2228	2233	rVB5	17311	28297	1.46%	0.130%
42	16.349	2252	2257	2266	rVB3	72604	174709	9.02%	0.801%
43	16.484	2275	2280	2284	rBV2	45348	70782	3.65%	0.324%
44	16.531	2284	2288	2289	rBV4	17583	20230	1.04%	0.093%
45	16.672	2306	2312	2316	rBV4	37534	72404	3.74%	0.332%
46	16.725	2318	2321	2327	rVB3	39639	61709	3.19%	0.283%
47	16.878	2343	2347	2349	rBV5	33343	47494	2.45%	0.218%
48	17.031	2368	2373	2378	rBV7	27919	47332	2.44%	0.217%
49	17.107	2382	2386	2395	rVV9	30006	93983	4.85%	0.431%
50	17.189	2395	2400	2408	rVB2	86458	155035	8.00%	0.711%
51	17.366	2424	2430	2434	rBV	719164	1142480	58.97%	5.237%
52	17.407	2434	2437	2444	rVB	239809	370350	19.12%	1.698%
53	17.501	2450	2453	2458	rVB	63393	91359	4.72%	0.419%
54	17.571	2458	2465	2470	rBV7	52321	138880	7.17%	0.637%
55	17.789	2496	2502	2506	rBV8	39197	96469	4.98%	0.442%
56	17.953	2522	2530	2534	rBV	101408	188065	9.71%	0.862%
57	18.094	2550	2554	2559	rVB	58803	104867	5.41%	0.481%
58	18.247	2575	2580	2584	rBV	198983	315877	16.30%	1.448%
59	18.294	2584	2588	2596	rVB	229669	349802	18.05%	1.603%
60	18.376	2596	2602	2606	rBV3	87692	182227	9.41%	0.835%
61	18.435	2607	2612	2617	rVV2	280564	594003	30.66%	2.723%
62	18.476	2617	2619	2625	rVB	137579	171000	8.83%	0.784%
63	18.640	2644	2647	2651	rVB2	61820	86370	4.46%	0.396%
64	18.740	2660	2664	2668	rBV3	106862	157514	8.13%	0.722%
65	18.799	2668	2674	2681	rVB2	70017	185873	9.59%	0.852%
66	18.869	2683	2686	2688	rBV	26408	31924	1.65%	0.146%
67	18.963	2698	2702	2703	rBV3	65173	80848	4.17%	0.371%
68	18.987	2703	2706	2711	rVB	103622	144610	7.46%	0.663%
69	19.040	2711	2715	2718	rBV2	124874	161999	8.36%	0.743%
70	19.075	2718	2721	2726	rVB2	111607	158676	8.19%	0.727%
71	19.163	2730	2736	2740	rBV	324823	537446	27.74%	2.464%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

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-BG041520.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	19.222	2740	2746	2749	rVV3	103078	195214	10.08%	0.895%
73	19.298	2755	2759	2766	rBV3	116500	269828	13.93%	1.237%
74	19.422	2775	2780	2786	rBV	570772	821539	42.40%	3.766%
75	19.486	2787	2791	2794	rBV	80366	115993	5.99%	0.532%
76	19.662	2818	2821	2825	rBV3	79330	107227	5.53%	0.492%
77	19.698	2825	2827	2832	rVB2	73449	82038	4.23%	0.376%
78	19.780	2834	2841	2850	rVV	1135317	1937458	100.00%	8.881%
79	19.862	2850	2855	2861	rVB2	163798	262603	13.55%	1.204%
80	19.980	2871	2875	2879	rVB	263494	304318	15.71%	1.395%
81	20.109	2892	2897	2907	rVB4	157896	384995	19.87%	1.765%
82	20.273	2917	2925	2933	rVB	200109	476817	24.61%	2.186%
83	20.373	2940	2942	2946	rVB	99885	112605	5.81%	0.516%
84	20.432	2948	2952	2957	rVV	285448	403579	20.83%	1.850%
85	20.573	2972	2976	2980	rBV	286249	387644	20.01%	1.777%
86	20.620	2980	2984	2987	rVB	224498	306879	15.84%	1.407%
87	21.630	3148	3156	3161	rBV3	744589	1761509	90.92%	8.075%
88	21.677	3161	3164	3172	rVB	316442	505214	26.08%	2.316%
89	23.798	3521	3525	3533	rVB2	93439	243766	12.58%	1.117%
90	24.509	3641	3646	3655	rVB	157087	384691	19.86%	1.763%
91	24.650	3664	3670	3680	rVB	198854	518064	26.74%	2.375%
92	24.803	3688	3696	3705	rBV3	349930	986858	50.94%	4.524%

Sum of corrected areas: 21815685

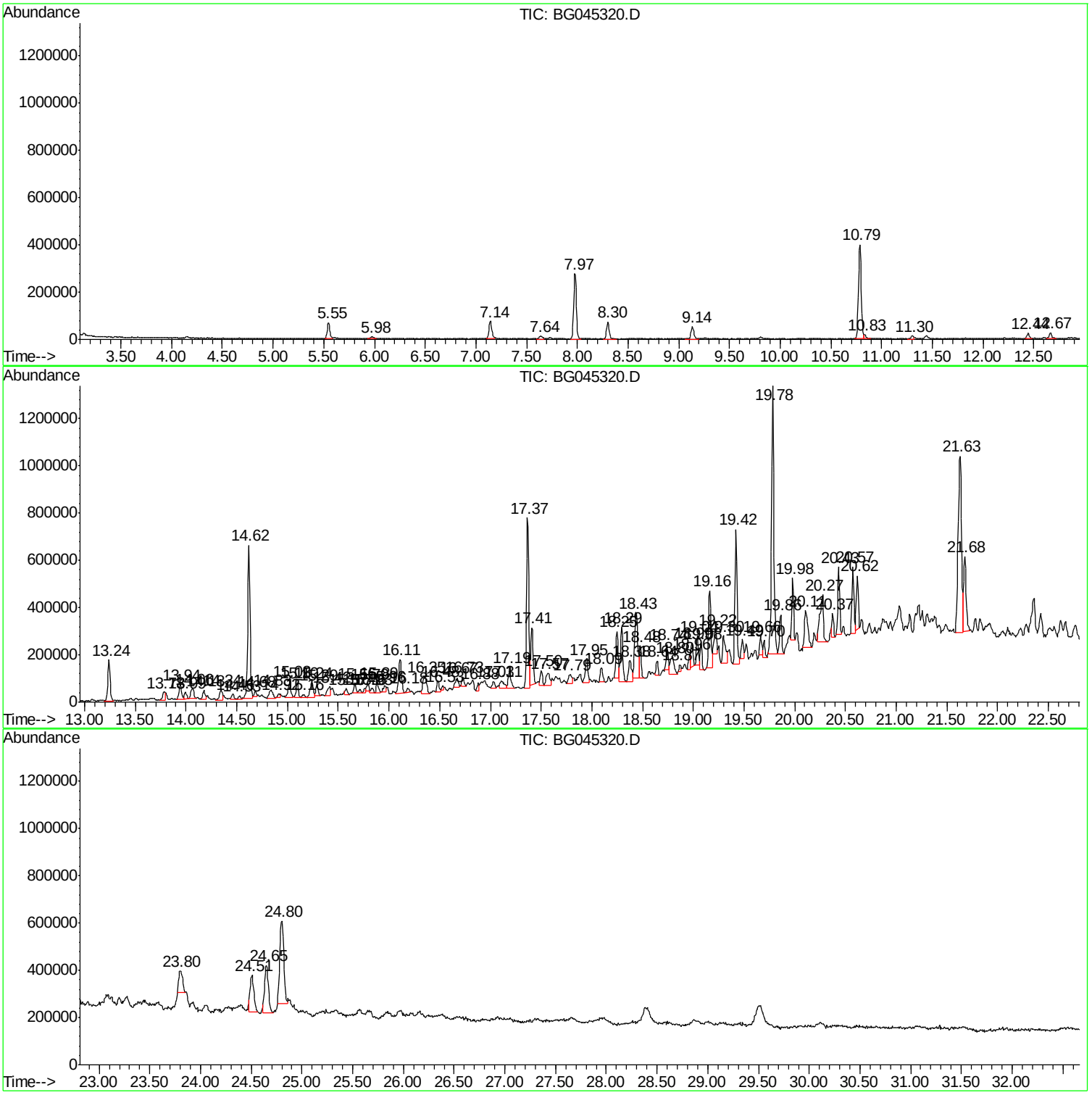
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041520.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041520.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

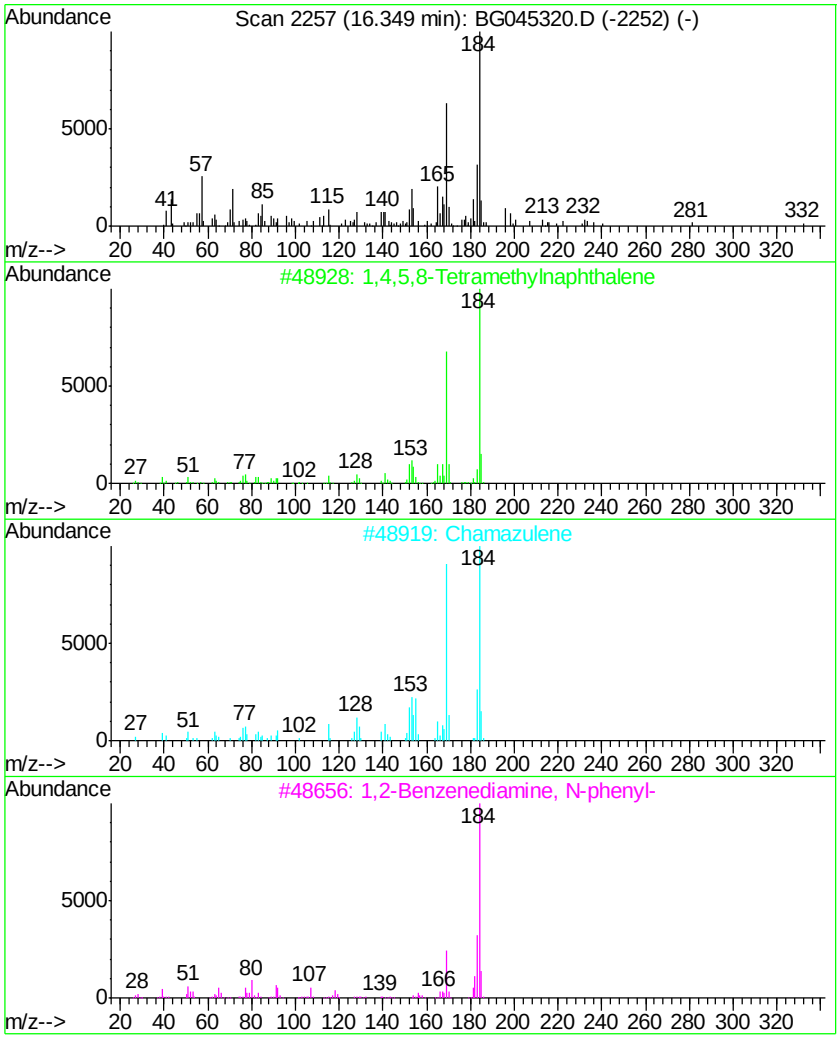
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

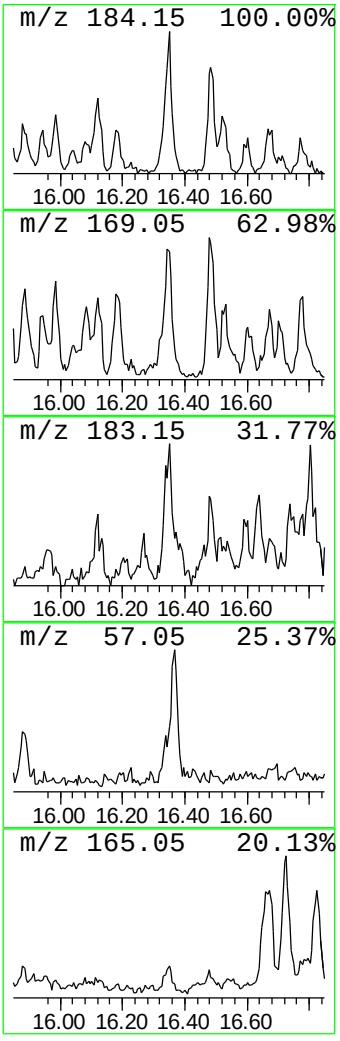
****

Peak Number 2 1,4,5,8-Tetramethylnaphthalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.35	3.06 ng	174709	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	92
2	Chamazulene	184	C14H16	000529-05-5	81
3	1,2-Benzenediamine, N-phenyl-	184	C12H12N2	000534-85-0	64
4	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	58
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041520.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

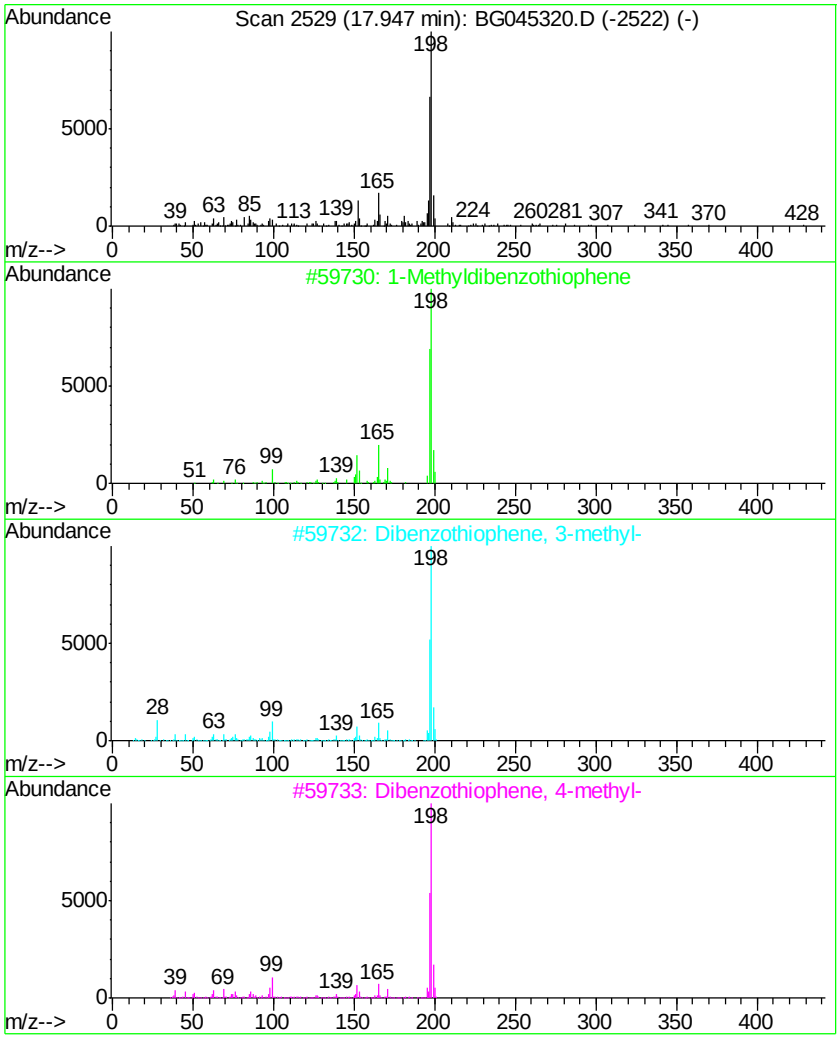
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

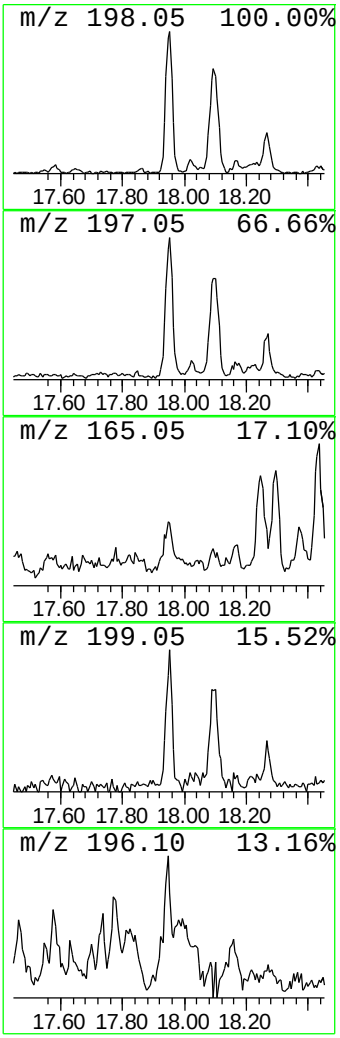
****

Peak Number 3 1-Methyldibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.95	3.29 ng	188065	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	93
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	93
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	90
4	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	80
5	Benzene, 1-fluoro-4-(2-phenyleth...	198	C14H11F	017404-69-2	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041520.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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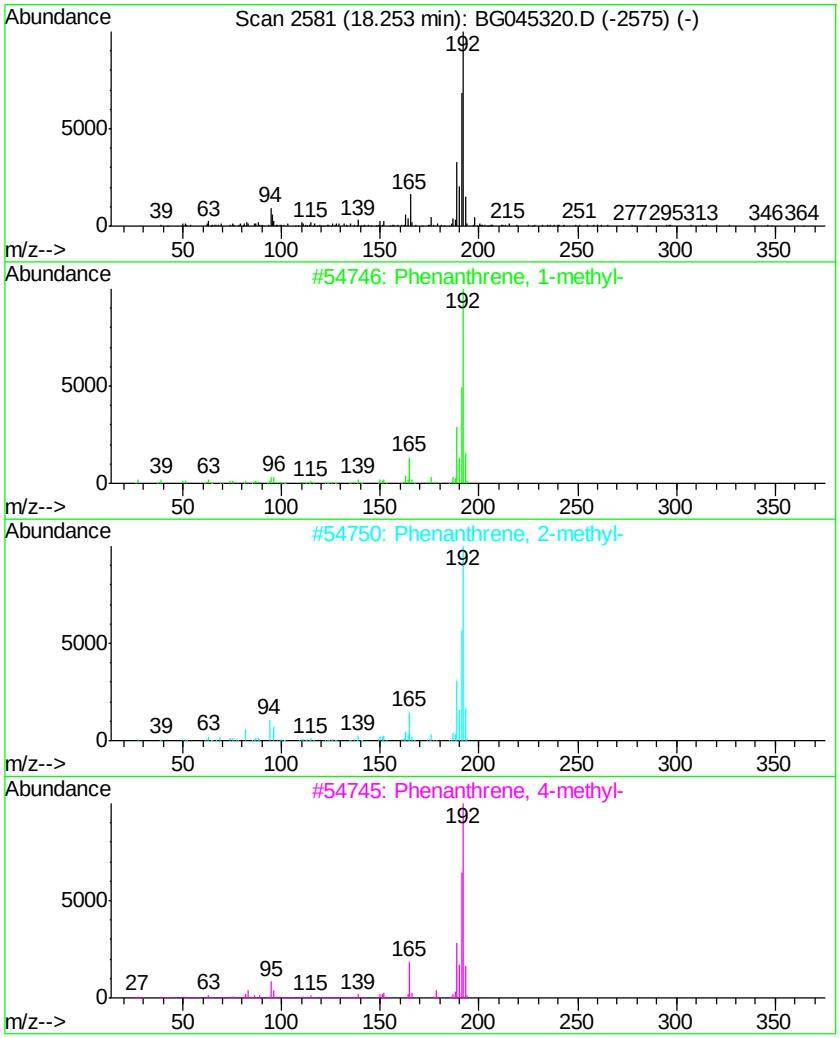
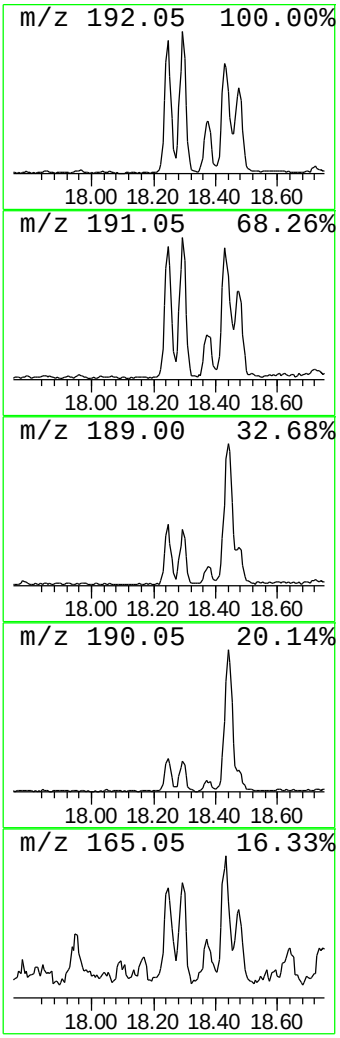
Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.25	5.53 ng	315877	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041520.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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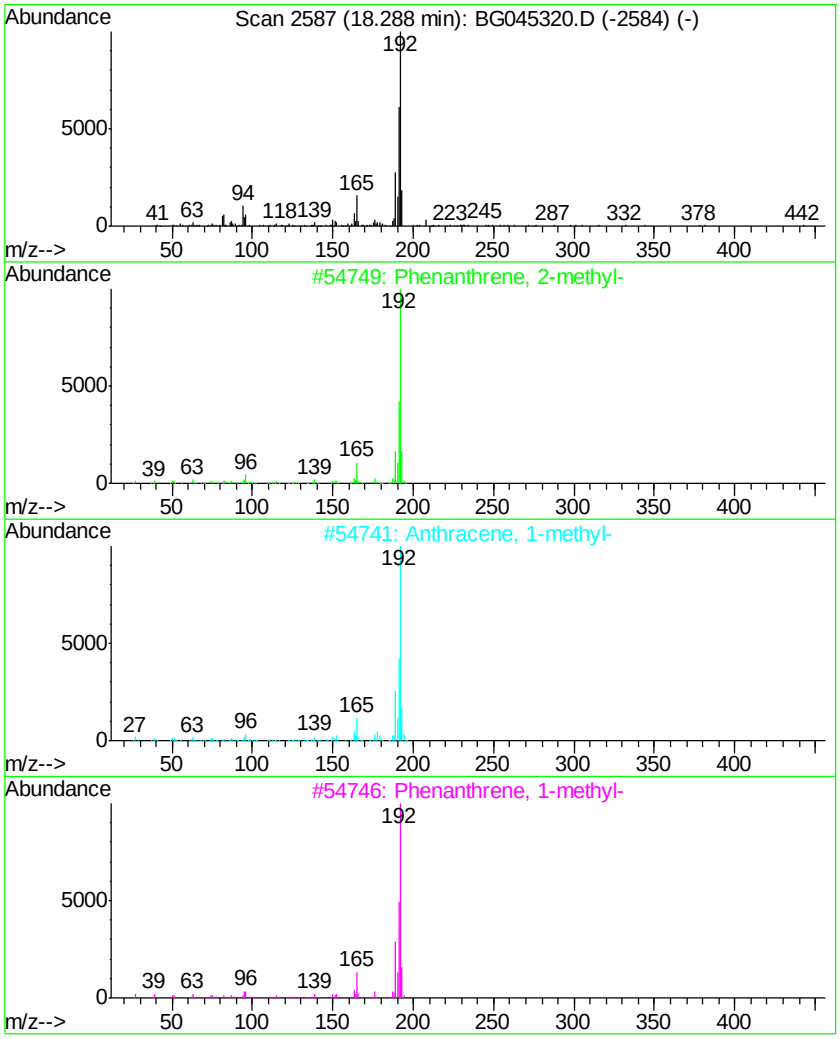
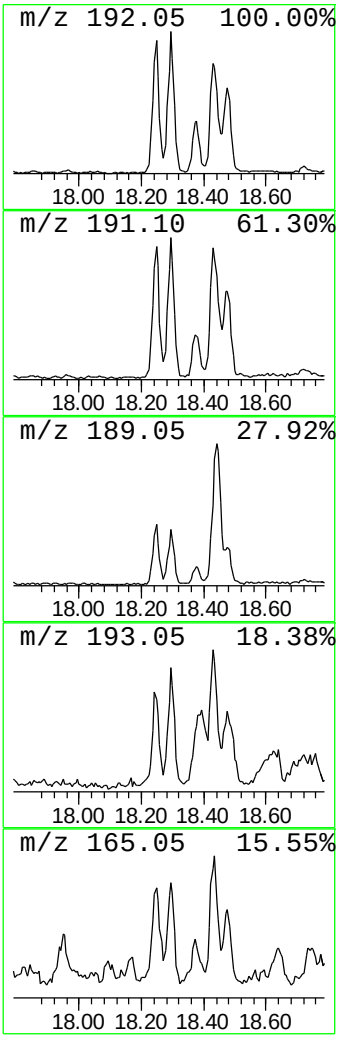
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	6.12 ng	349802	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041520.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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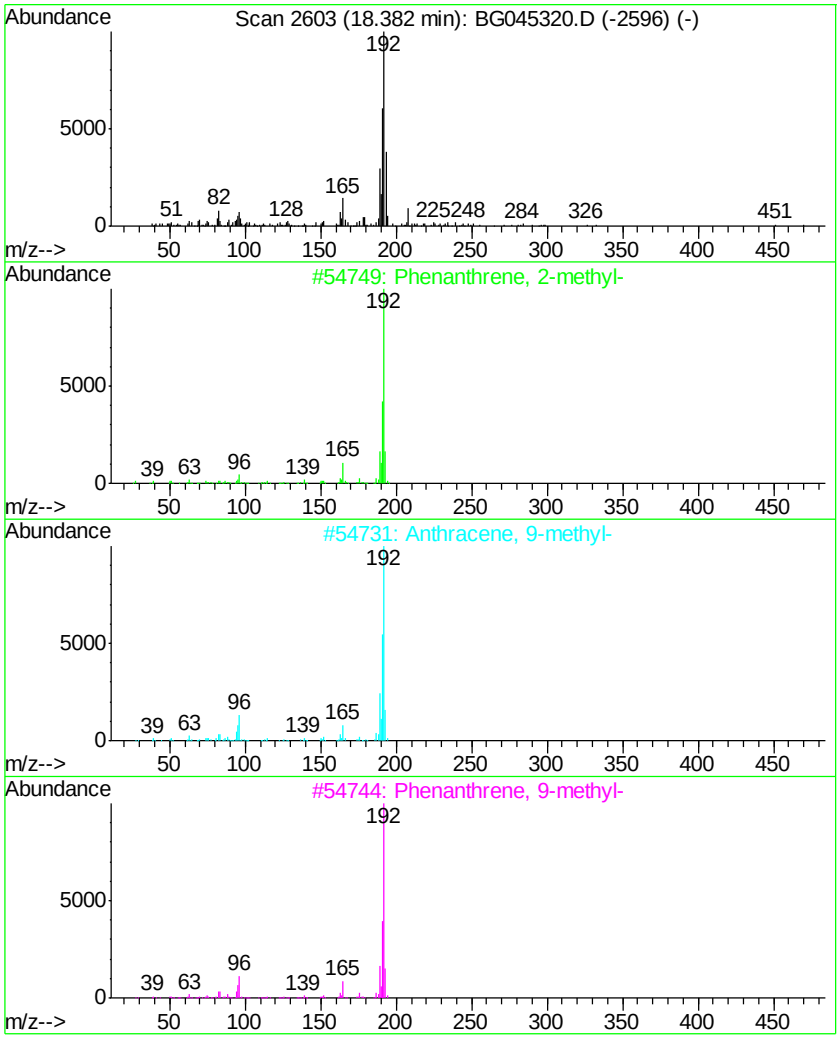
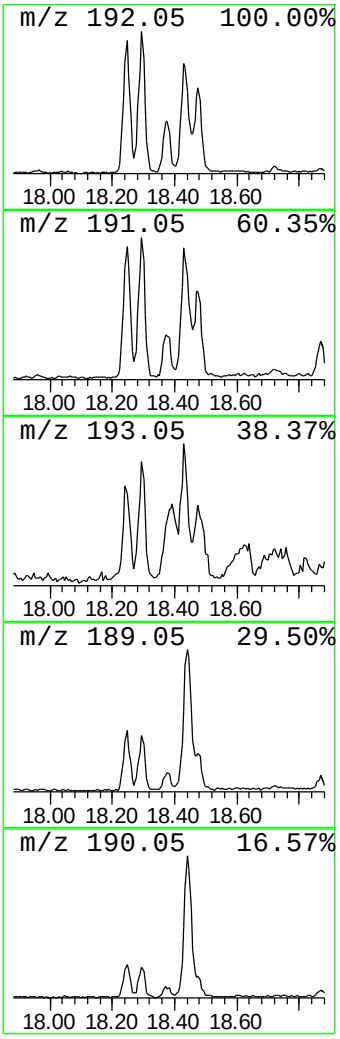
Peak Number 6 Anthracene, 9-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.38	3.19 ng	182227	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	89
3	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	89
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	81
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	76





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041520.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

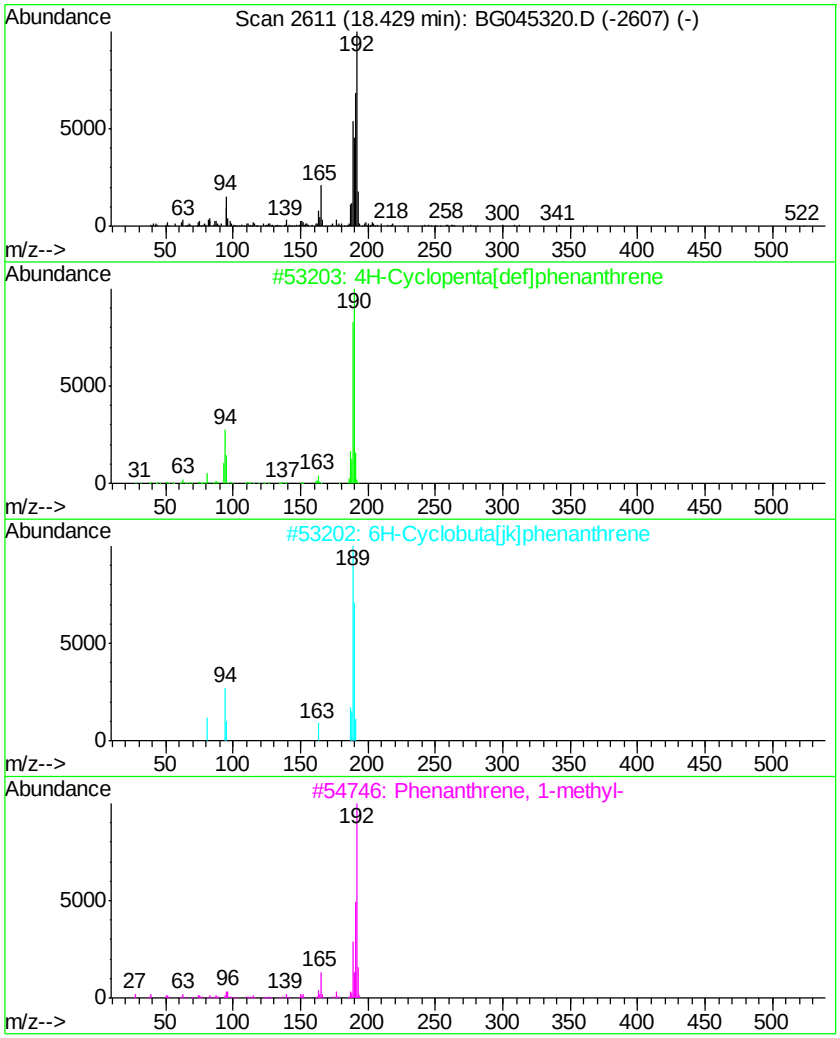
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

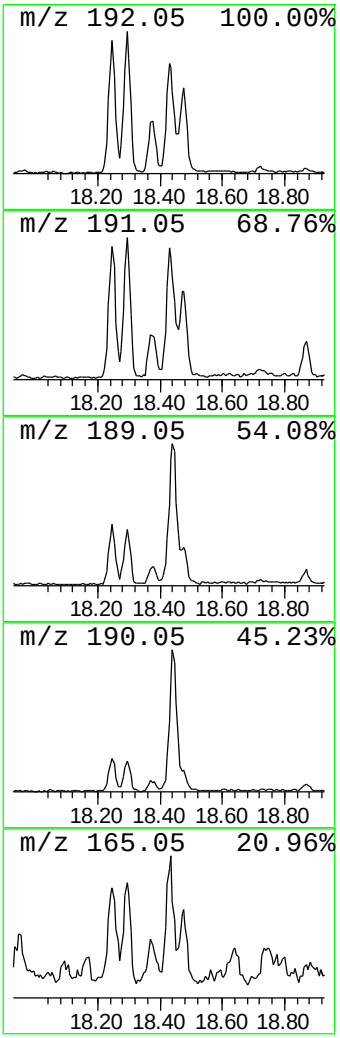
****

Peak Number 7 unknown18.43 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	10.40 ng	594003	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	41
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	41





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Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

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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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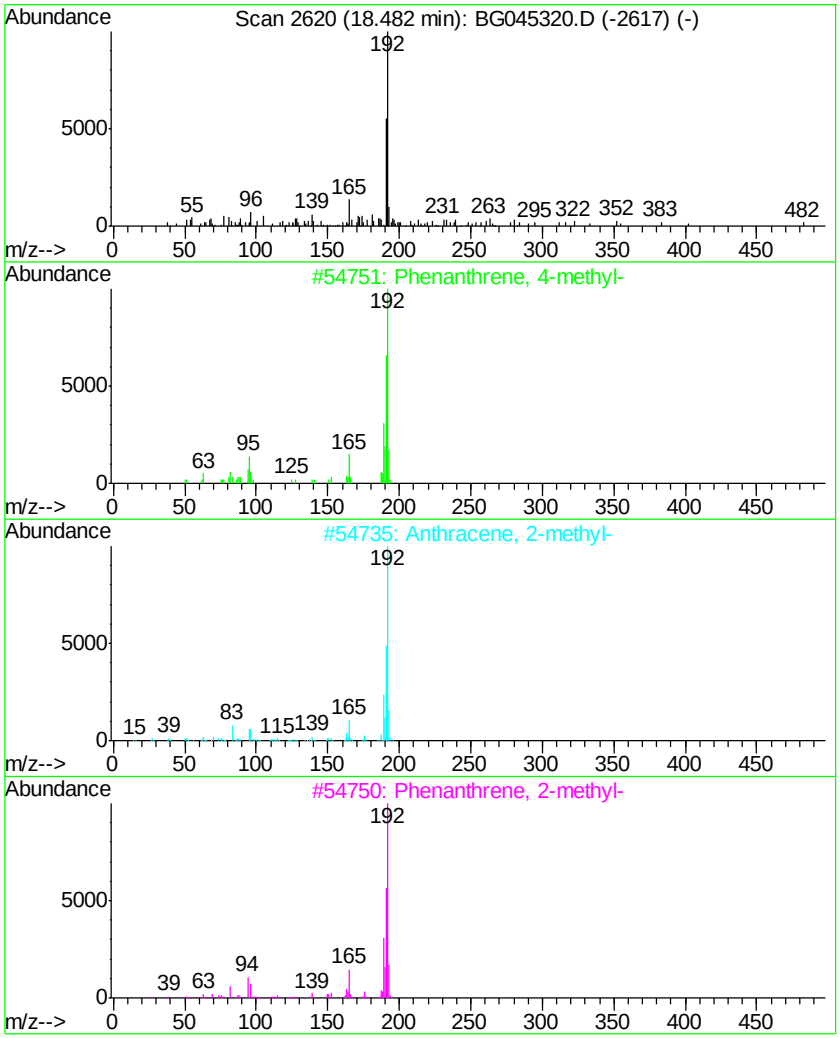
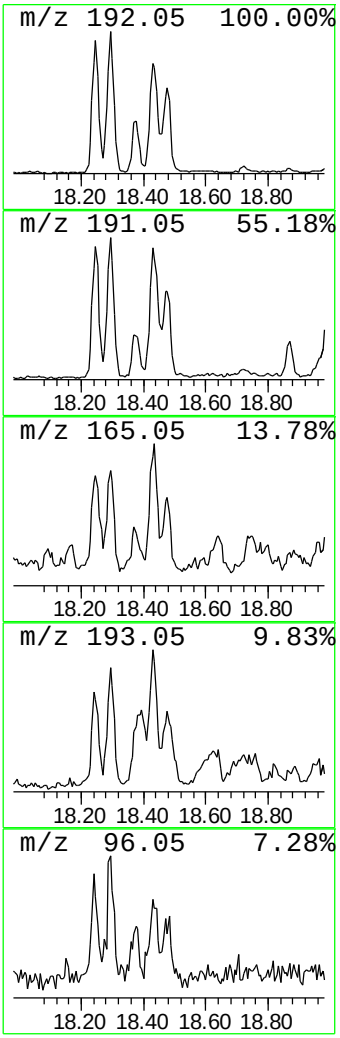
Peak Number 8 Phenanthrene, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.48	2.99 ng	171000	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	86





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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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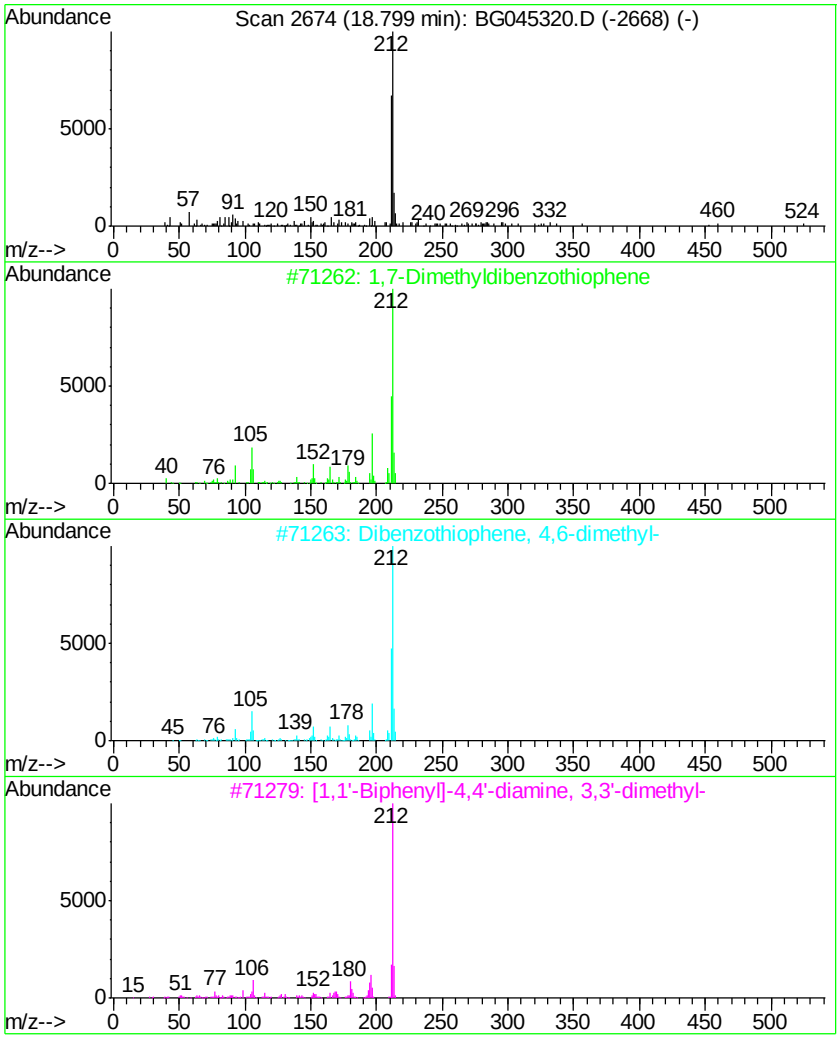
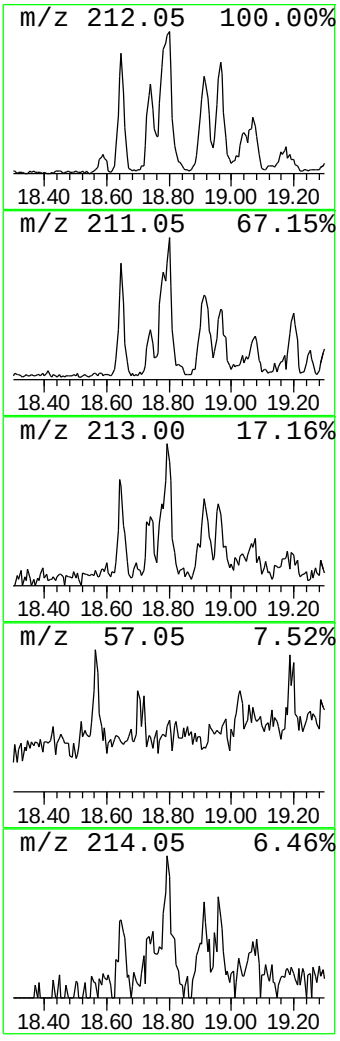
Peak Number 9 1,7-Dimethyldibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	3.25 ng	185873	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,7-Dimethyldibenzothiophene	212	C14H12S	089816-53-5	64
2	Dibenzothiophene, 4,6-dimethyl-	212	C14H12S	001207-12-1	59
3	[1,1'-Biphenyl]-4,4'-diamine, 3,...	212	C14H16N2	000119-93-7	52
4	Fumaric acid, octyl 3-oxobut-2-y...	298	C16H26O5	1000348-82-2	50
5	2,5-Dimethoxy-4-(methylthio)-ben...	212	C10H12O3S	061638-04-8	50





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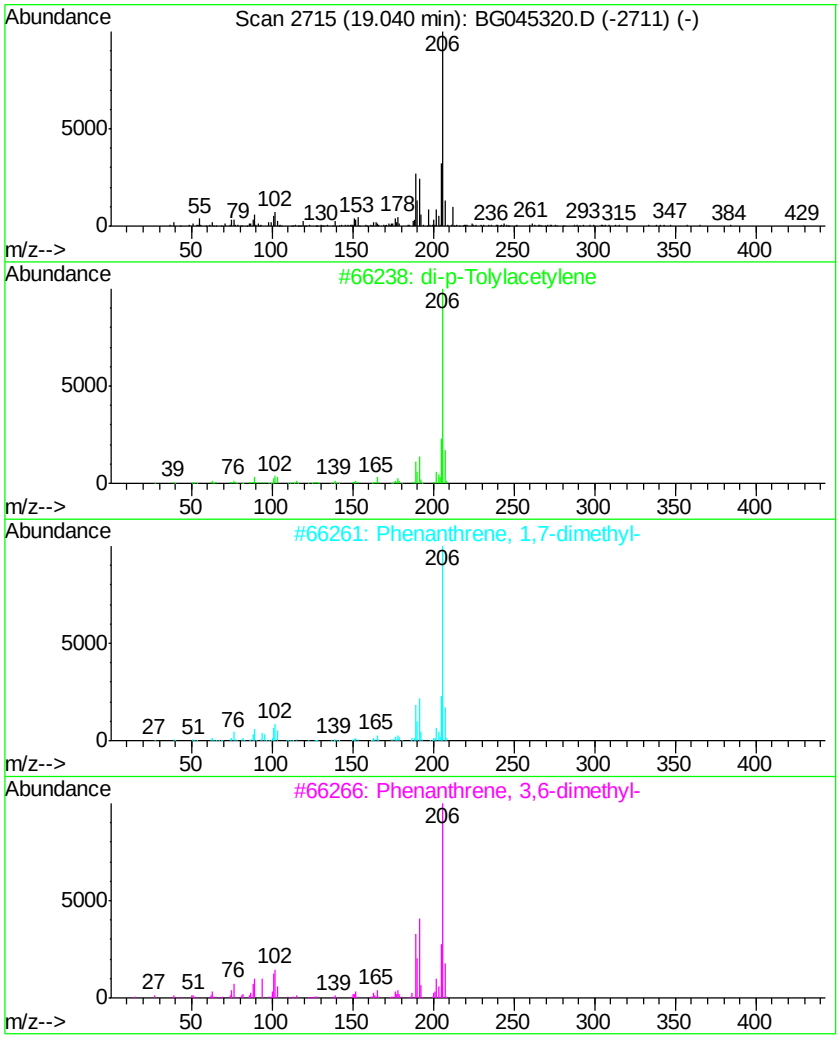
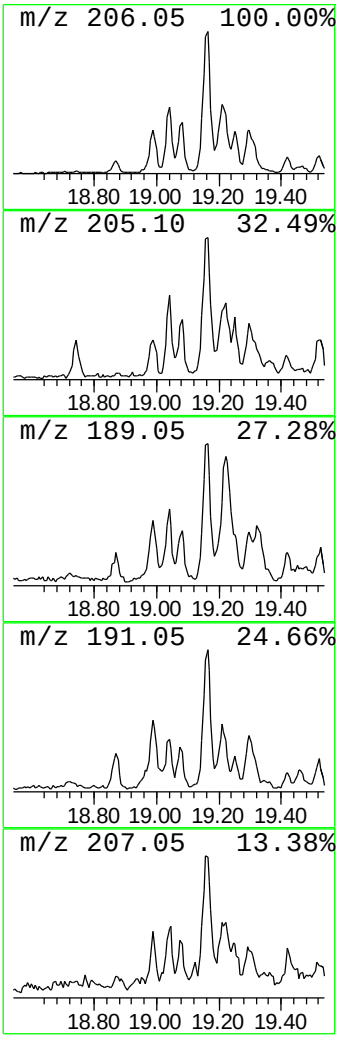
Peak Number 10 di-p-Tolylacetylene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.04	2.84 ng	161999	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	87
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	74
5	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	72





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ClientSampleId : HAR-STOCK

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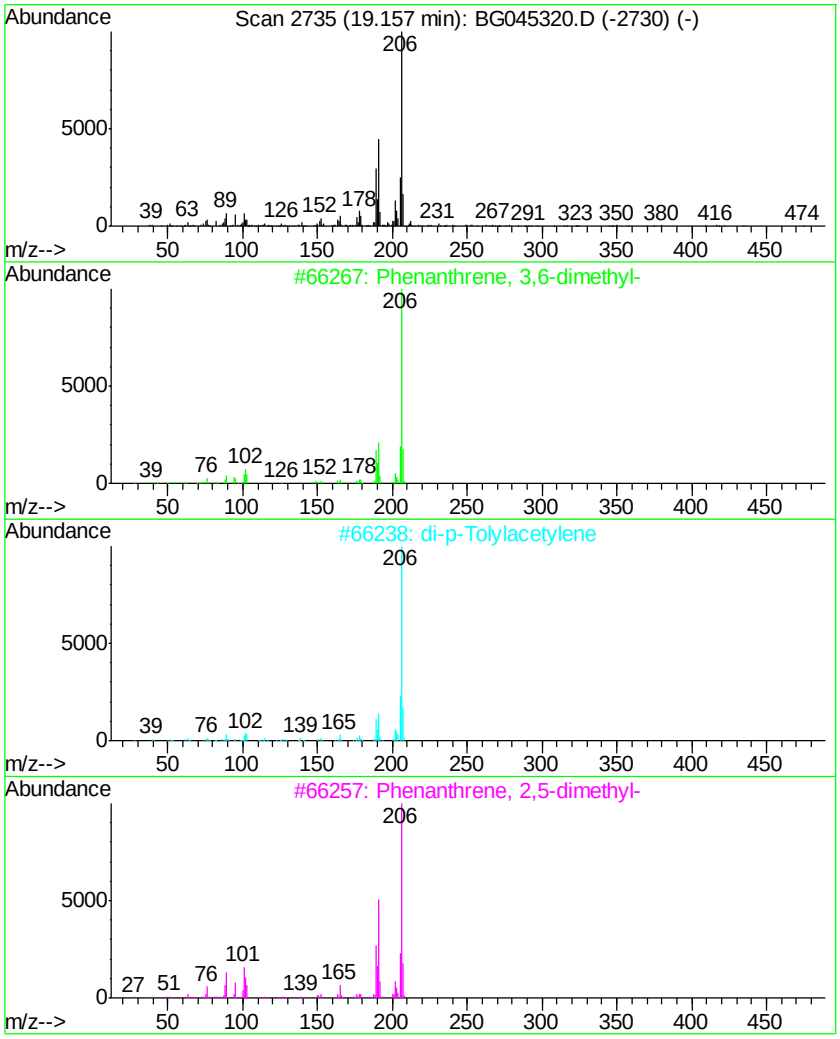
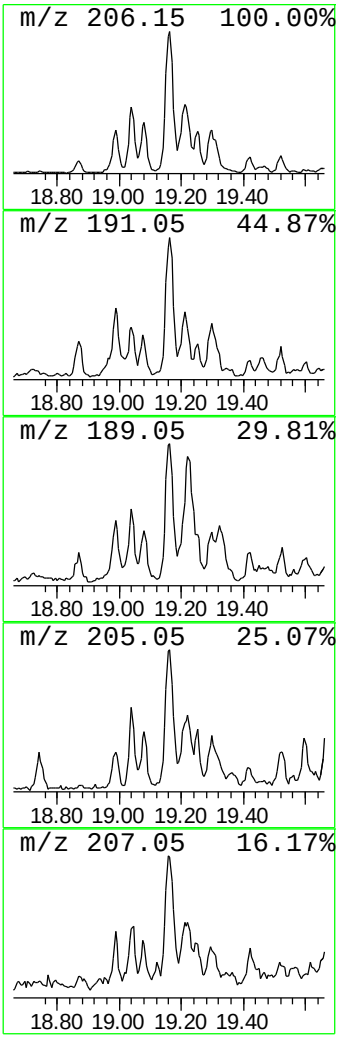
Peak Number 11 Phenanthrene, 3,6-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.16	9.41 ng	537446	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90





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ClientSampleId : HAR-STOCK

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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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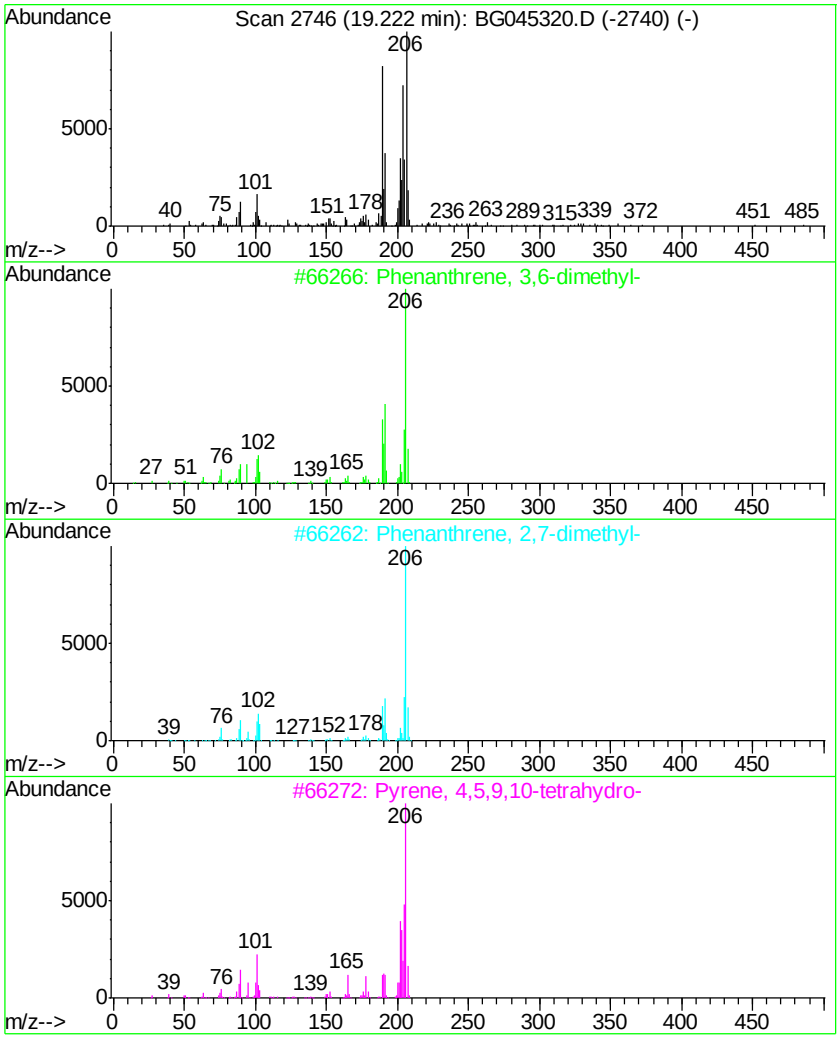
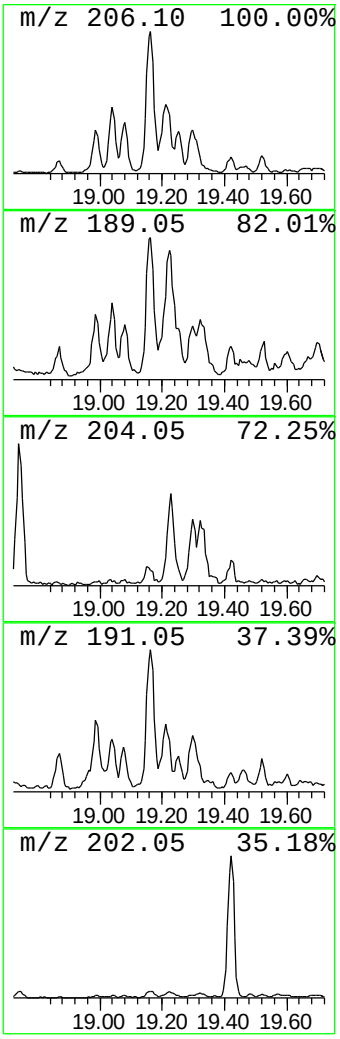
Peak Number 12 Phenanthrene, 2,7-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.22	3.42 ng	195214	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	70
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	55
3	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	41
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	38





Library Search Compound Report

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ClientSampleId : HAR-STOCK

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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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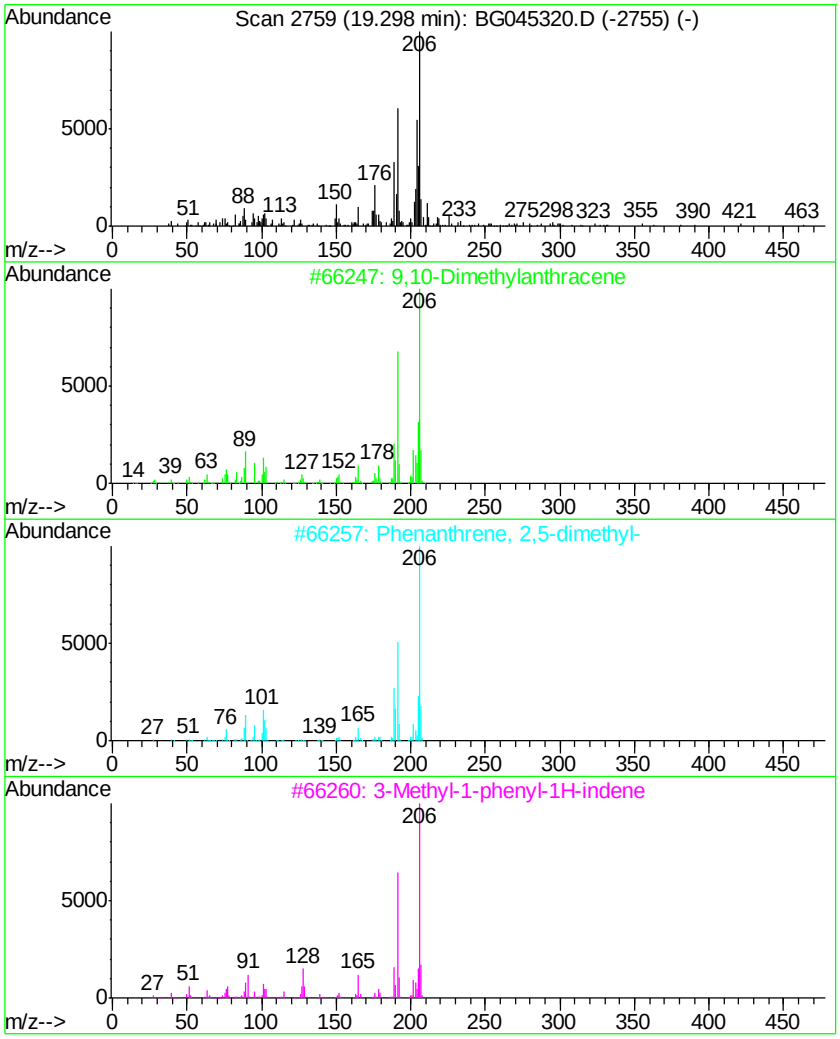
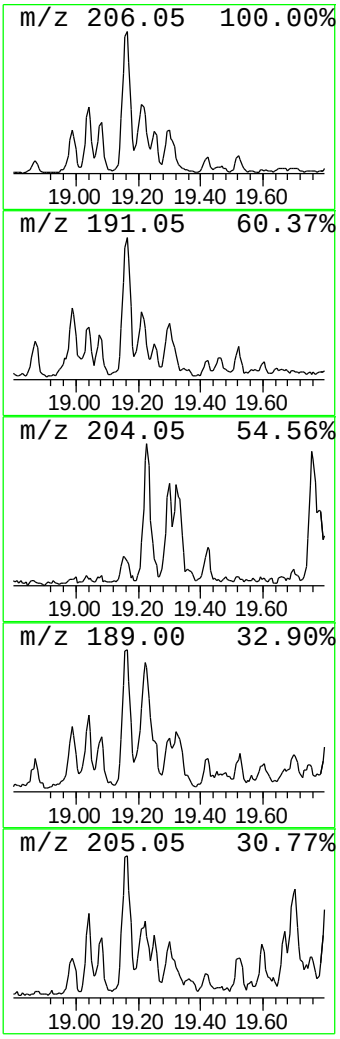
Peak Number 13 9,10-Dimethylanthracene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.30	4.72 ng	269828	Phenanthrene-d10	17.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	64
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	64
3	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	60
4	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	60
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	50





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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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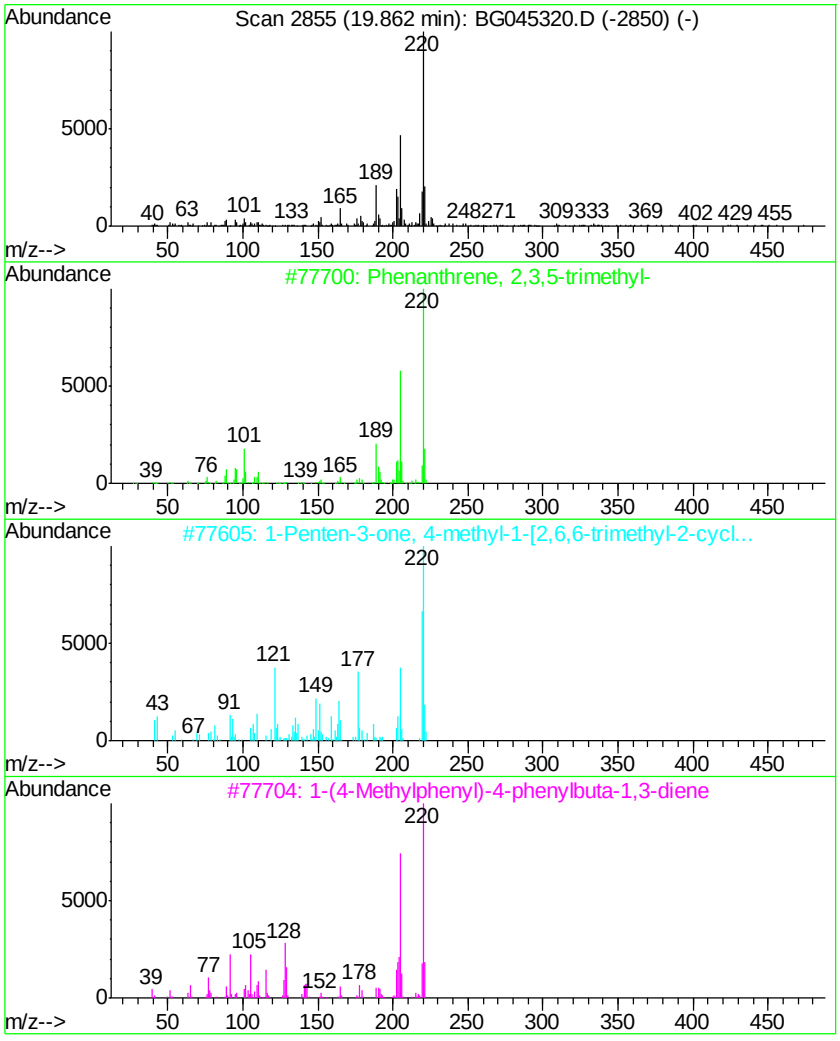
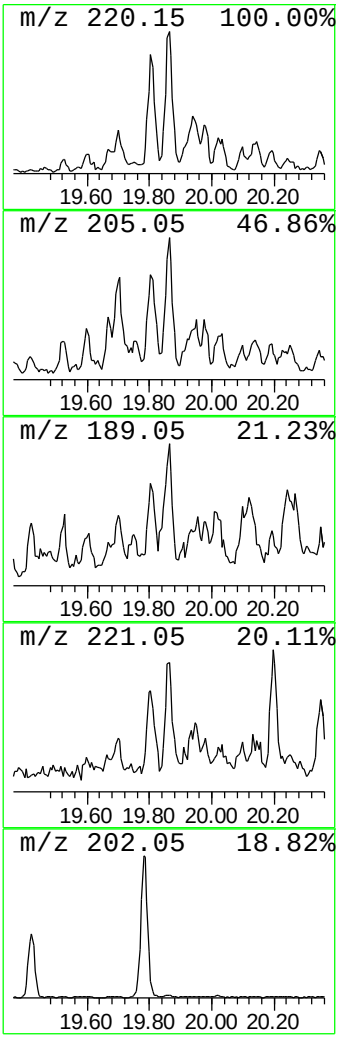
Peak Number 14 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.86	2.98 ng	262603	Chrysene-d12	21.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	93
2	1-Penten-3-one, 4-methyl-1-[2,6,...	220	C15H24O	1000132-20-9	64
3	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	64
4	6,7,8,9-Tetrahydro-5-methylisoth...	220	C11H12N2OS	339156-87-5	53
5	Benzo[b]dihydropyran, 6-hydroxy-...	220	C14H20O2	050442-70-1	53





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ClientSampleId : HAR-STOCK

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
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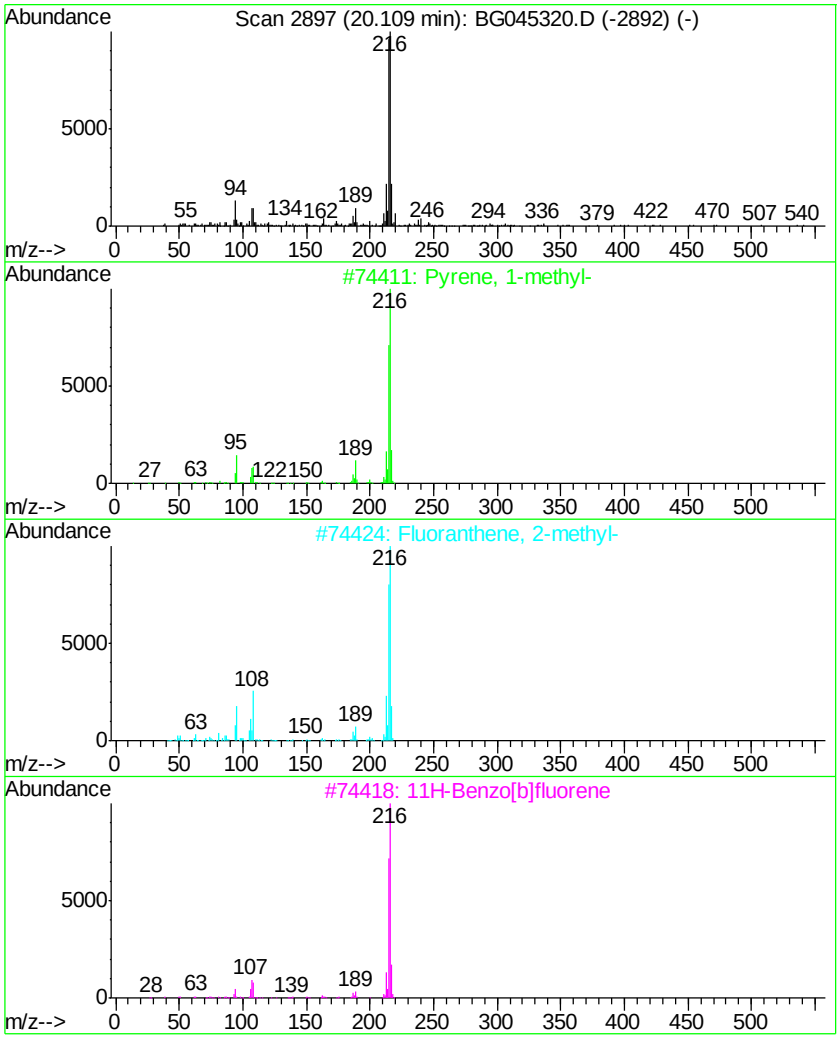
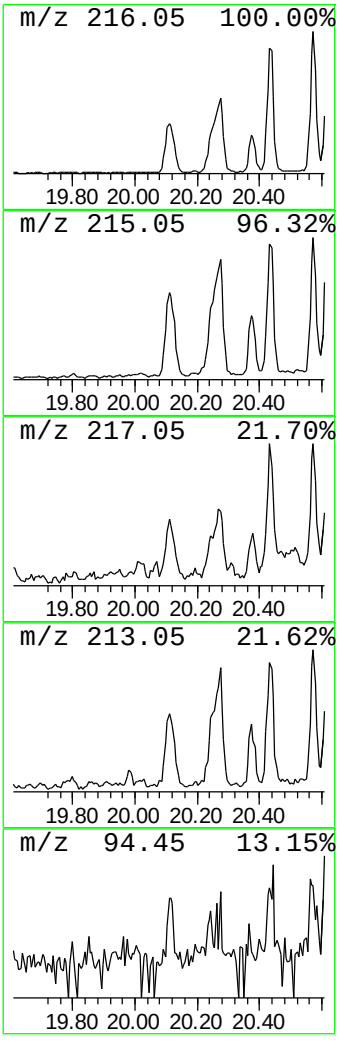
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.11	4.37 ng	384995	Chrysene-d12	21.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	72
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





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TIC Library : C:\Database\NIST11.L
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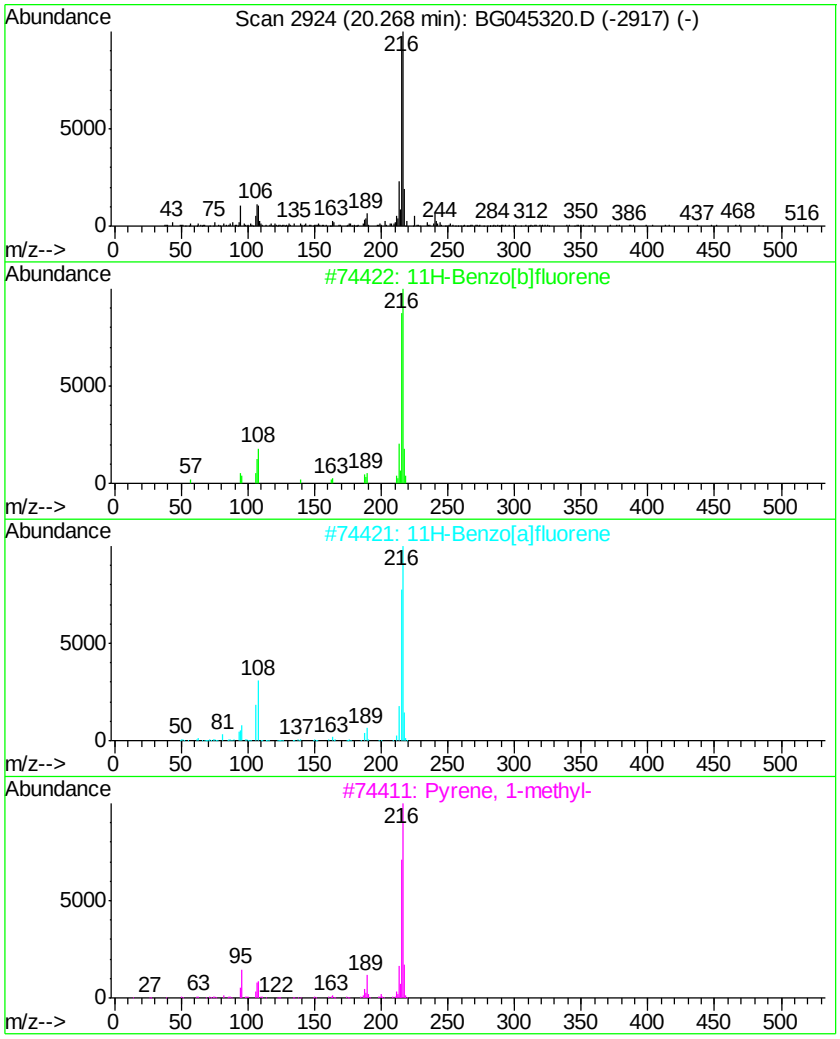
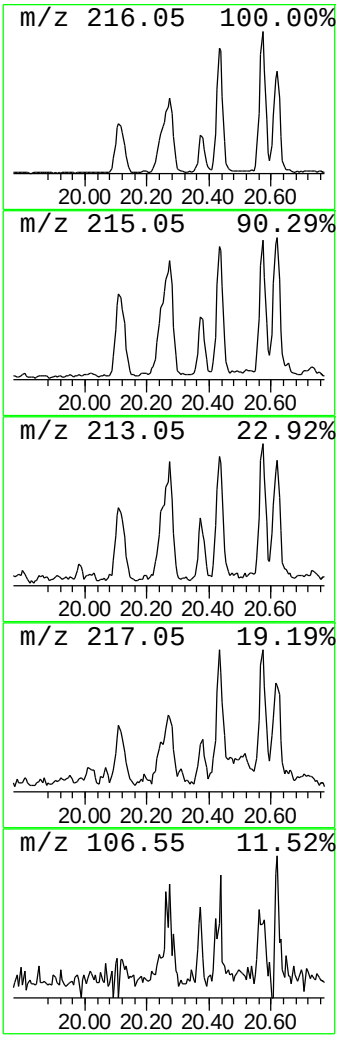
Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.27	5.41 ng	476817	Chrysene-d12	21.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	80





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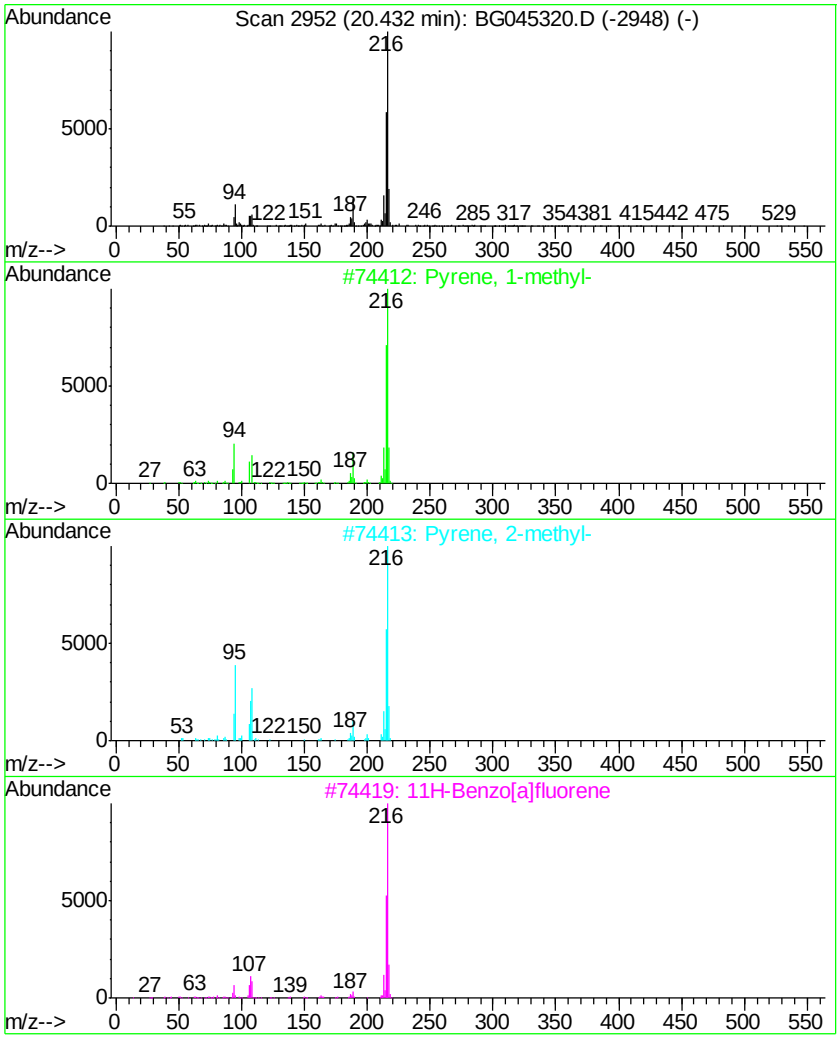
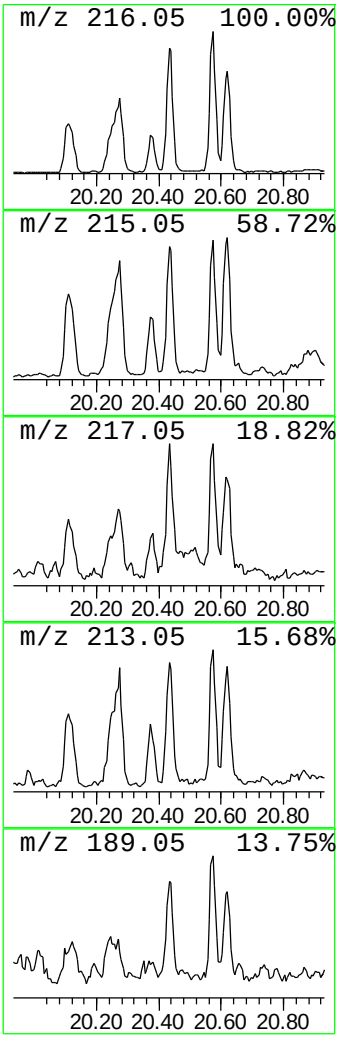
Peak Number 17 Pyrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.43	4.58 ng	403579	Chrysene-d12	21.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	90
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83





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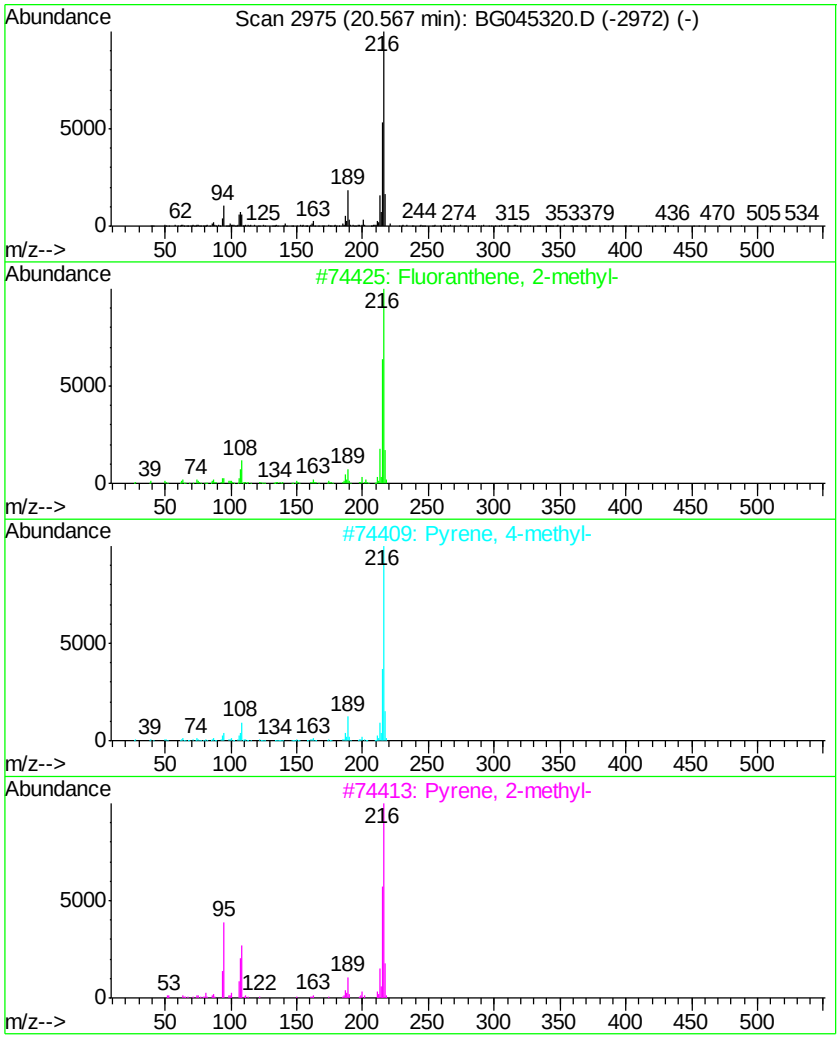
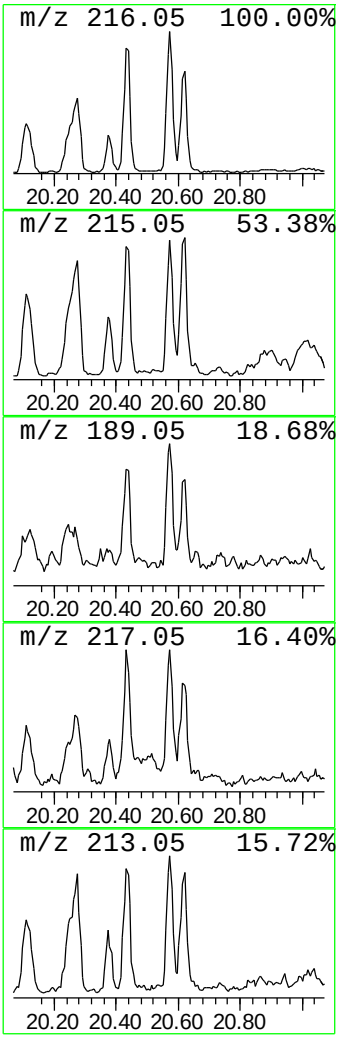
Peak Number 18 Fluoranthene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.57	4.40 ng	387644	Chrysene-d12	21.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	91
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041520.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

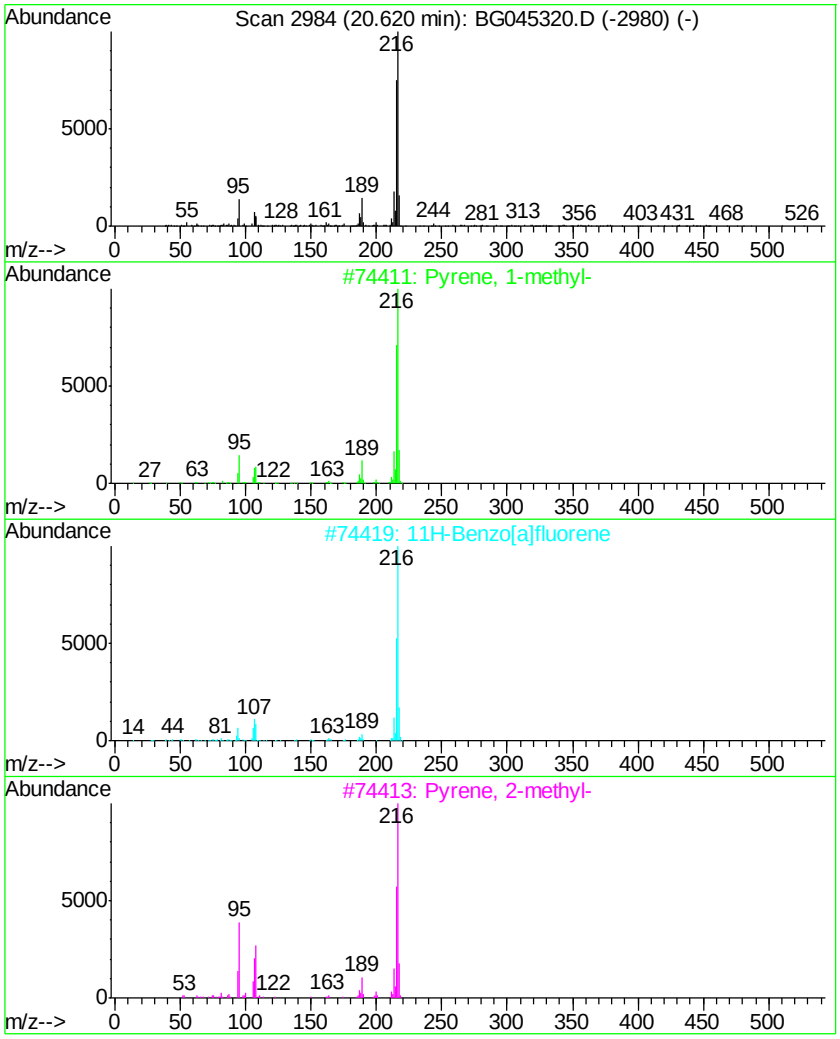
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

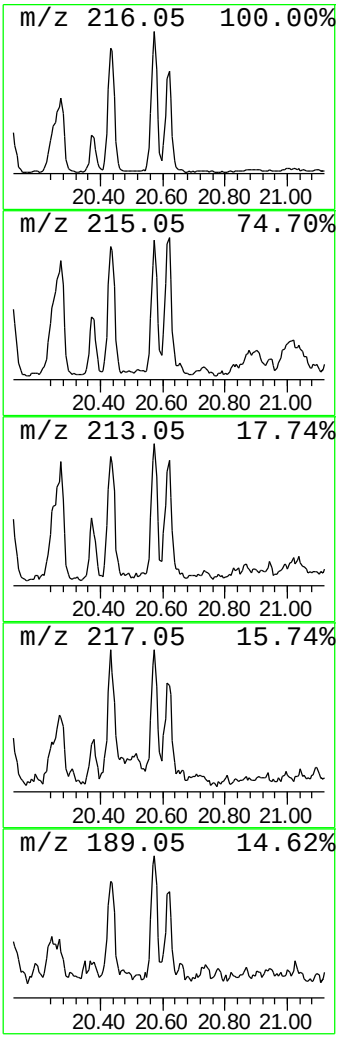
****

Peak Number 19 11H-Benzo[a]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.62	3.48 ng	306879	Chrysene-d12	21.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG051120\
Data File : BG045320.D
Acq On : 12 May 2020 8:03
Operator : CG/JU
Sample : L2540-04 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : HAR-STOCK

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041520.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
1,4,5,8-Tetrameth...	16.35	3.1	ng	174709	4	17.37	1142480	20.0
1-Methyldibenzoth...	17.95	3.3	ng	188065	4	17.37	1142480	20.0
Phenanthrene, 1-m...	18.25	5.5	ng	315877	4	17.37	1142480	20.0
Phenanthrene, 2-m...	18.29	6.1	ng	349802	4	17.37	1142480	20.0
Anthracene, 9-met...	18.38	3.2	ng	182227	4	17.37	1142480	20.0
unknown18.43	18.43	10.4	ng	594003	4	17.37	1142480	20.0
Phenanthrene, 4-m...	18.48	3.0	ng	171000	4	17.37	1142480	20.0
1,7-Dimethyldiben...	18.80	3.3	ng	185873	4	17.37	1142480	20.0
di-p-Tolylacetylene	19.04	2.8	ng	161999	4	17.37	1142480	20.0
Phenanthrene, 3,6...	19.16	9.4	ng	537446	4	17.37	1142480	20.0
Phenanthrene, 2,7...	19.22	3.4	ng	195214	4	17.37	1142480	20.0
9,10-Dimethylanth...	19.30	4.7	ng	269828	4	17.37	1142480	20.0
Phenanthrene, 2,3...	19.86	3.0	ng	262603	5	21.63	1761510	20.0
Pyrene, 1-methyl-	20.11	4.4	ng	384995	5	21.63	1761510	20.0
11H-Benzo[b]fluorene	20.27	5.4	ng	476817	5	21.63	1761510	20.0
Pyrene, 2-methyl-	20.43	4.6	ng	403579	5	21.63	1761510	20.0
Fluoranthene, 2-m...	20.57	4.4	ng	387644	5	21.63	1761510	20.0
11H-Benzo[a]fluorene	20.62	3.5	ng	306879	5	21.63	1761510	20.0