LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM101417\
Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

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

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

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.816	797	804	821	rBV	536983	999203	14.52%	1.831%
2	10.616	1272	1280	1286	rBV	859264	1541157	22.39%	2.825%
3	10.669	1286	1289	1299	rVB	144405	242606	3.52%	0.445%
4	12.286	1556	1564	1574	rBV	86646	168905	2.45%	0.310%
5	12.504	1595	1601	1609	rBV	67560	123541	1.79%	0.226%
6	13.786	1812	1819	1824	rBV2	74139	137543	2.00%	0.252%
7	14.468	1922	1935	1941	rBV2	1550288	2445116	35.52%	4.481%
8	14.527	1941	1945	1954	rVB	351791	550552	8.00%	1.009%
9	14.868	1994	2003	2011	rVV	289671	473067	6.87%	0.867%
10	15.515	2107	2113	2124	rVB2	560782	829866	12.06%	1.521%
11	15.674	2137	2140	2145	rVB2	62978	89107	1.29%	0.163%
12	15.809	2159	2163	2172	rVB	118674	184454	2.68%	0.338%
13	15.957	2183	2188	2197	rVV2	121733	248099	3.60%	0.455%
14	16.521	2273	2284	2288	rBV2	126706	287328	4.17%	0.527%
15	16.568	2288	2292	2298	rVB2	59100	88105	1.28%	0.161%
16	16.668	2306	2309	2314	rVB	61359	85046	1.24%	0.156%
17	16.745	2314	2322	2326	rBV4	64772	154911	2.25%	0.284%
18	16.786	2326	2329	2333	rVB3	55666	74004	1.08%	0.136%
19	16.874	2339	2344	2351	rVB3	46059	79392	1.15%	0.146%
20	16.945	2351	2356	2364	rBV3	77556	204549	2.97%	0.375%
21	17.033	2367	2371	2378	rVB	253693	383507	5.57%	0.703%
22	17.215	2396	2402	2405	rBV2	2090424	3001915	43.61%	5.502%
23	17.262	2405	2410	2416	rVV	4691342	6883538	100.00%	12.616%
24	17.315	2416	2419	2420	rVV2	132257	153161	2.23%	0.281%
25	17.351	2420	2425	2430	rVV	1085949	1590970	23.11%	2.916%
26	17.415	2432	2436	2440	rVV2	82419	149707	2.17%	0.274%
27	17.498	2444	2450	2459	rVB3	27971	75546	1.10%	0.138%
28	17.627	2464	2472	2480	rBV2	265196	573915	8.34%	1.052%
29	17.727	2485	2489	2493	rBV	73882	103063	1.50%	0.189%
30	17.798	2496	2501	2510	rVV4	54938	124842	1.81%	0.229%
31	17.933	2521	2524	2533	rVB3	40671	92354	1.34%	0.169%
32	18.086	2546	2550	2555	rBV	434267	647720	9.41%	1.187%
33	18.139	2555	2559	2566	rVB	572796	834264	12.12%	1.529%
34	18.221	2568	2573	2578	rBV	245369	360692	5.24%	0.661%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM101417\
Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

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

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

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Title : SVOA CALIBRATION

35	18.286	2578	2584	2588	rBV3	659246	1231834	17.90%	2.258%
36	18.321	2588	2590	2597	rVB	274126	337424	4.90%	0.618%
37	18.398	2597	2603	2606	rBV4	49077	89854	1.31%	0.165%
38	18.586	2631	2635	2641	rVV	353547	525681	7.64%	0.963%
39	18.645	2641	2645	2652	rVV3	130711	239656	3.48%	0.439%
40	18.709	2653	2656	2662	rVB2	57482	78722	1.14%	0.144%
41	18.833	2674	2677	2681	rVB2	96639	116879	1.70%	0.214%
42	18.886	2683	2686	2689	rVV	80476	98649	1.43%	0.181%
43	18.927	2689	2693	2696	rVB	72841	91273	1.33%	0.167%
44	19.003	2702	2706	2711	rBV2	210407	363653	5.28%	0.667%
45	19.156	2727	2732	2739	rBV5	81476	204970	2.98%	0.376%
46	19.274	2746	2752	2758	rBV	4593946	6149023	89.33%	11.270%
47	19.333	2759	2762	2765	rVV	70076	93790	1.36%	0.172%
48	19.374	2765	2769	2774	rVV2	109434	171784	2.50%	0.315%
49	19.515	2791	2793	2797	rVB	118549	123477	1.79%	0.226%
50	19.603	2803	2808	2810	rBV	704538	1048327	15.23%	1.921%
51	19.639	2810	2814	2822	rVV	3503125	4958814	72.04%	9.089%
52	19.709	2822	2826	2832	rVB2	198153	309280	4.49%	0.567%
53	19.815	2841	2844	2848	rVB	189715	229009	3.33%	0.420%
54	19.974	2864	2871	2875	rBV2	199158	473271	6.88%	0.867%
55	20.133	2894	2898	2903	rVB2	550458	750381	10.90%	1.375%
56	20.233	2911	2915	2919	rBV	527975	666006	9.68%	1.221%
57	21.080	3056	3059	3063	rVB	303816	338717	4.92%	0.621%
58	21.391	3106	3112	3116	rBV2	2578791	5069420	73.65%	9.291%
59	21.433	3116	3119	3128	rVB	1429146	1866291	27.11%	3.421%
60	23.015	3384	3388	3393	rBV	761651	1561613	22.69%	2.862%
61	23.609	3485	3489	3499	rVB	822579	1516025	22.02%	2.779%
62	23.709	3502	3506	3512	rVB	1040942	1874729	27.23%	3.436%

Sum of corrected areas: 54560297

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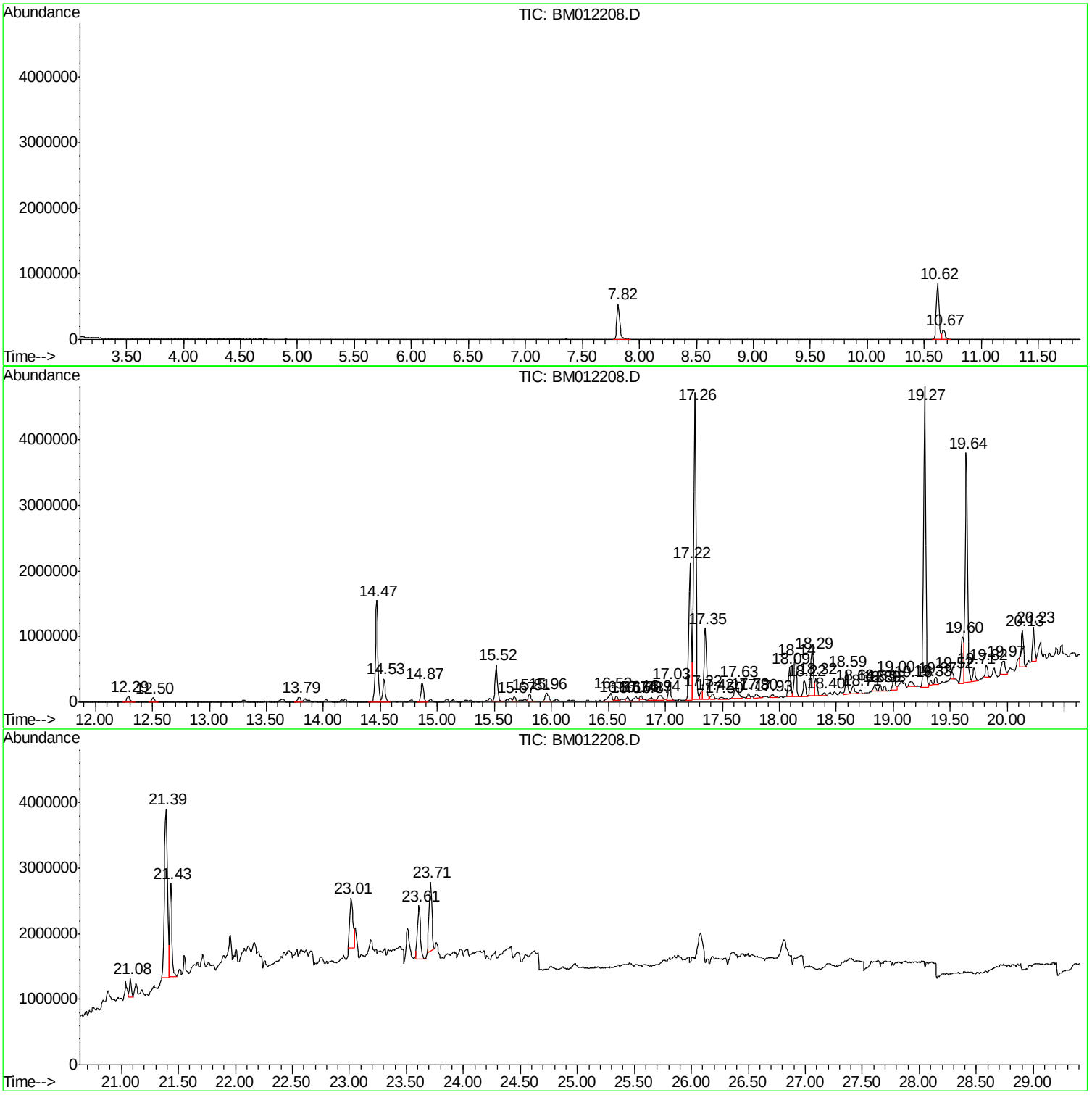
Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM101417\
Data File : BM012208.D
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Misc :
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Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

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

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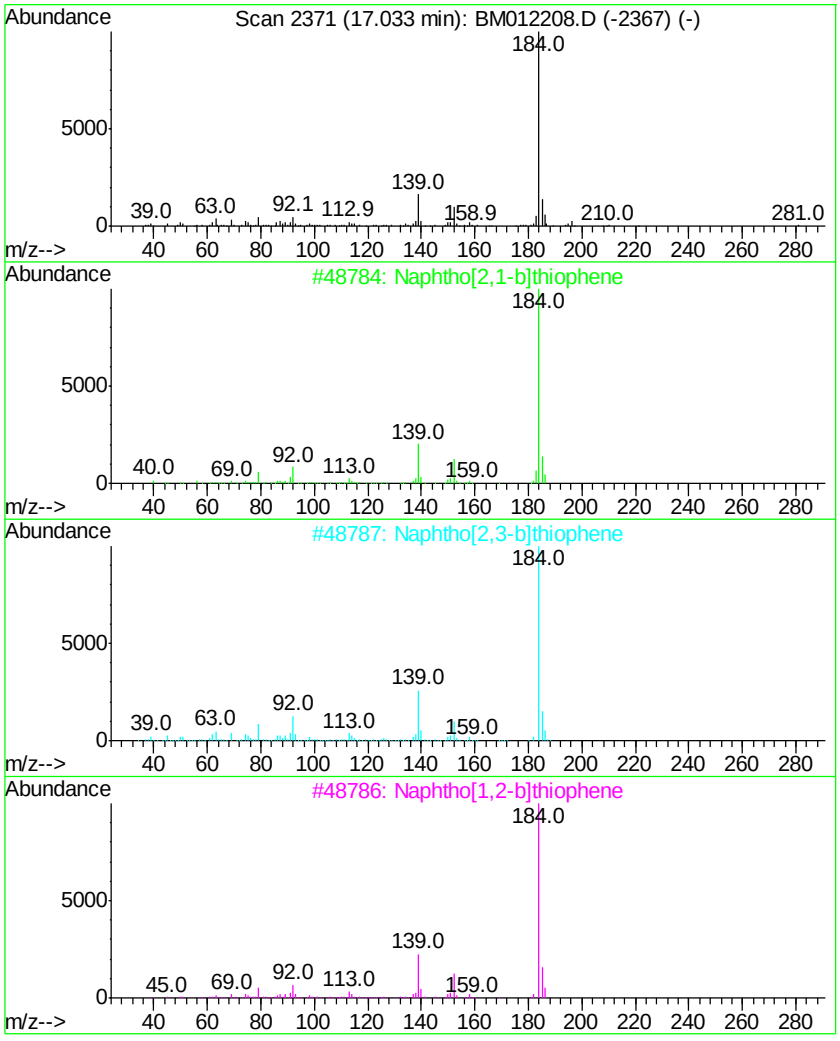
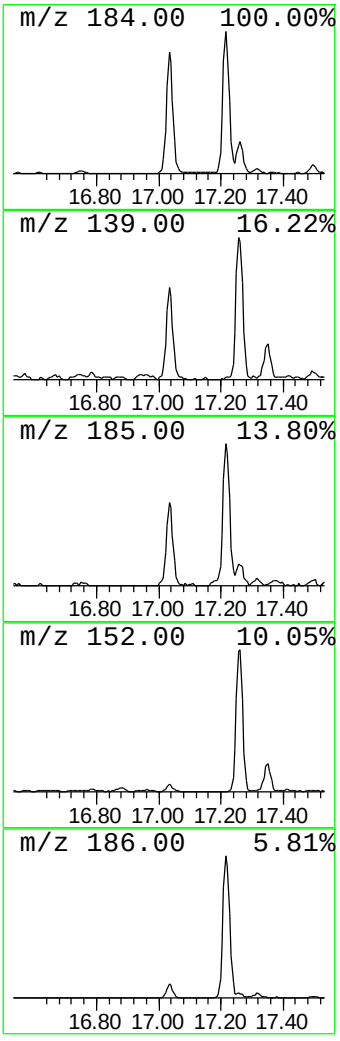
Peak Number 1 Naphtho[2,1-b]thiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.03	2.56 ng/ul	383507	Phenanthrene-d10	17.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Dibenzothiophene	184	C12H8S	000132-65-0	93
5	Dibenzothiophene	184	C12H8S	000132-65-0	93





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM101417\
Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

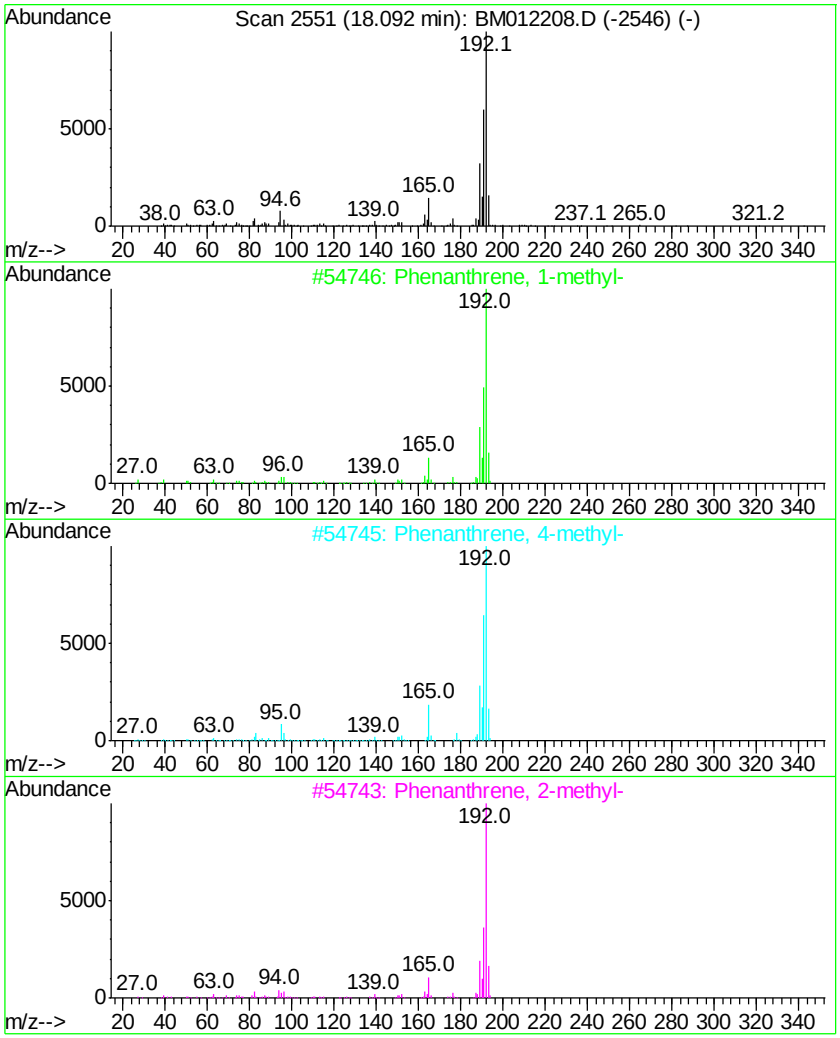
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

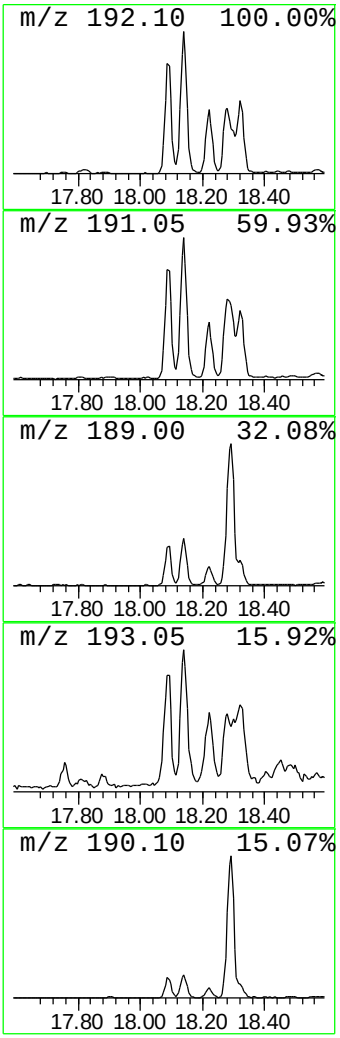
****

Peak Number 2 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	4.32 ng/ul	647720	Phenanthrene-d10	17.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM101417\
Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

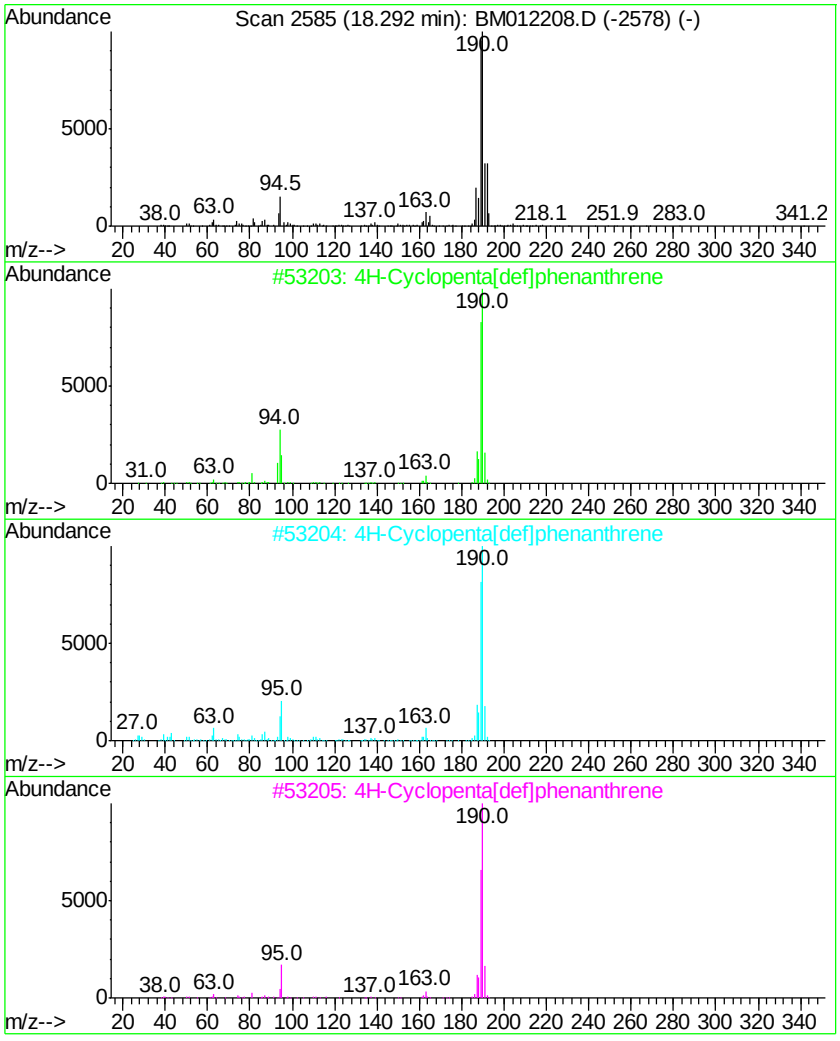
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

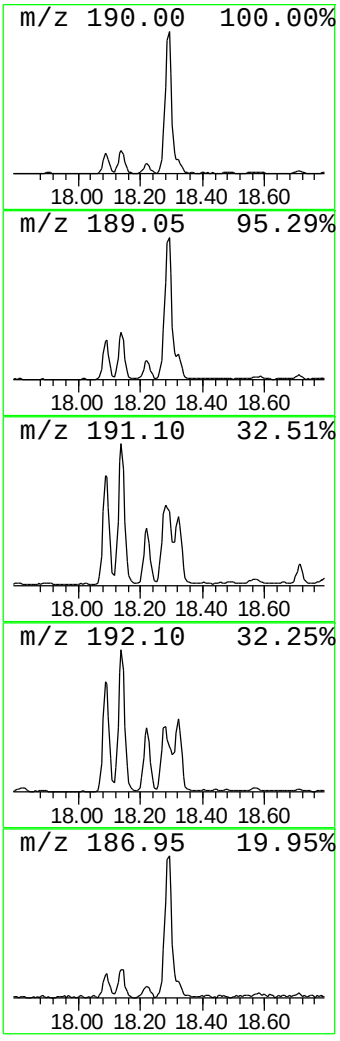
****

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	8.21 ng/ul	1231830	Phenanthrene-d10	17.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM101417\
Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

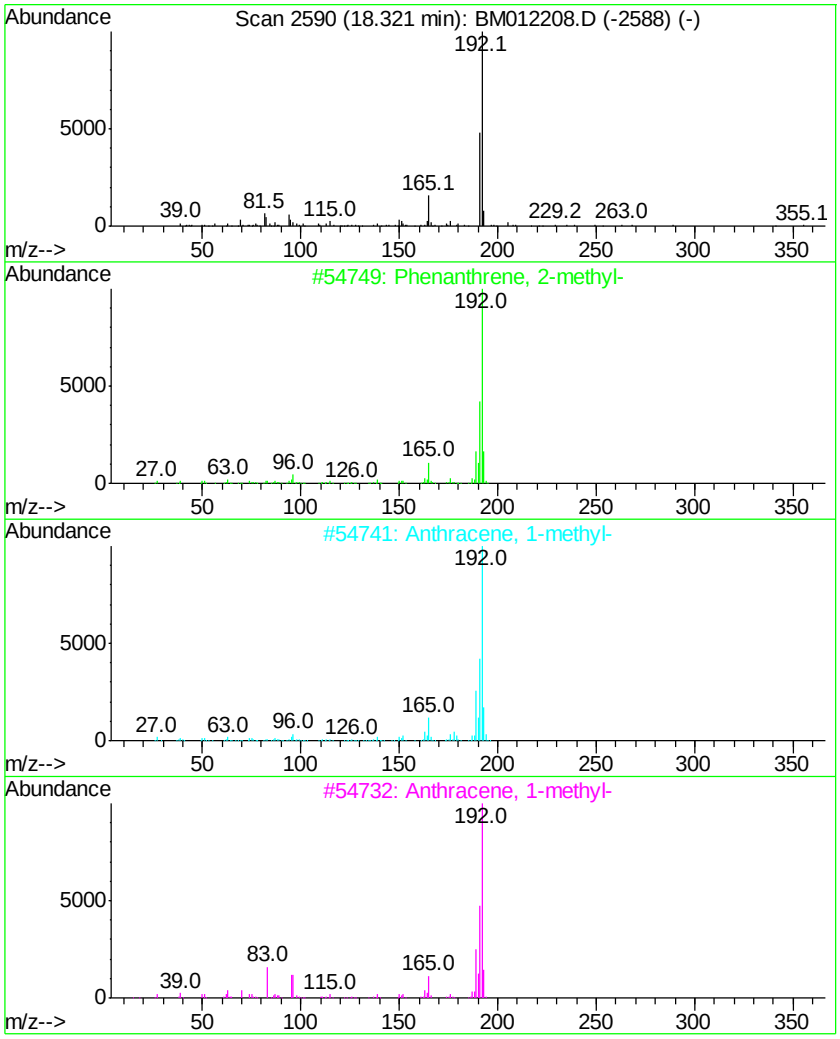
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

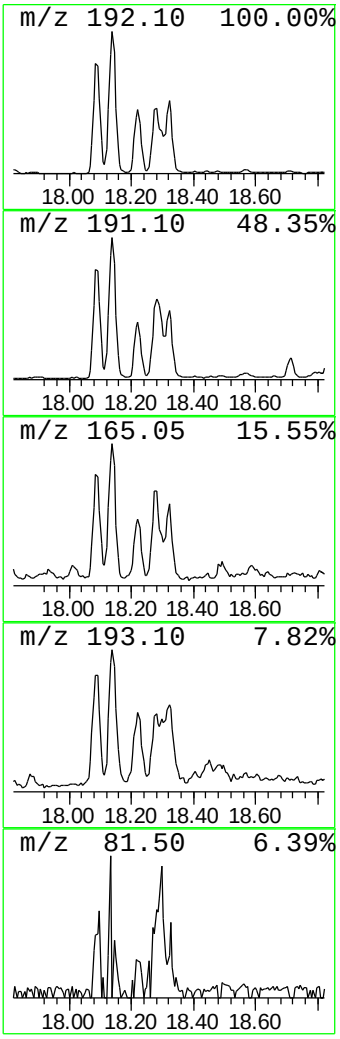
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.32	2.25 ng/ul	337424	Phenanthrene-d10	17.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	80
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	80
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	80
4	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	80
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	72





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM101417\
Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

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

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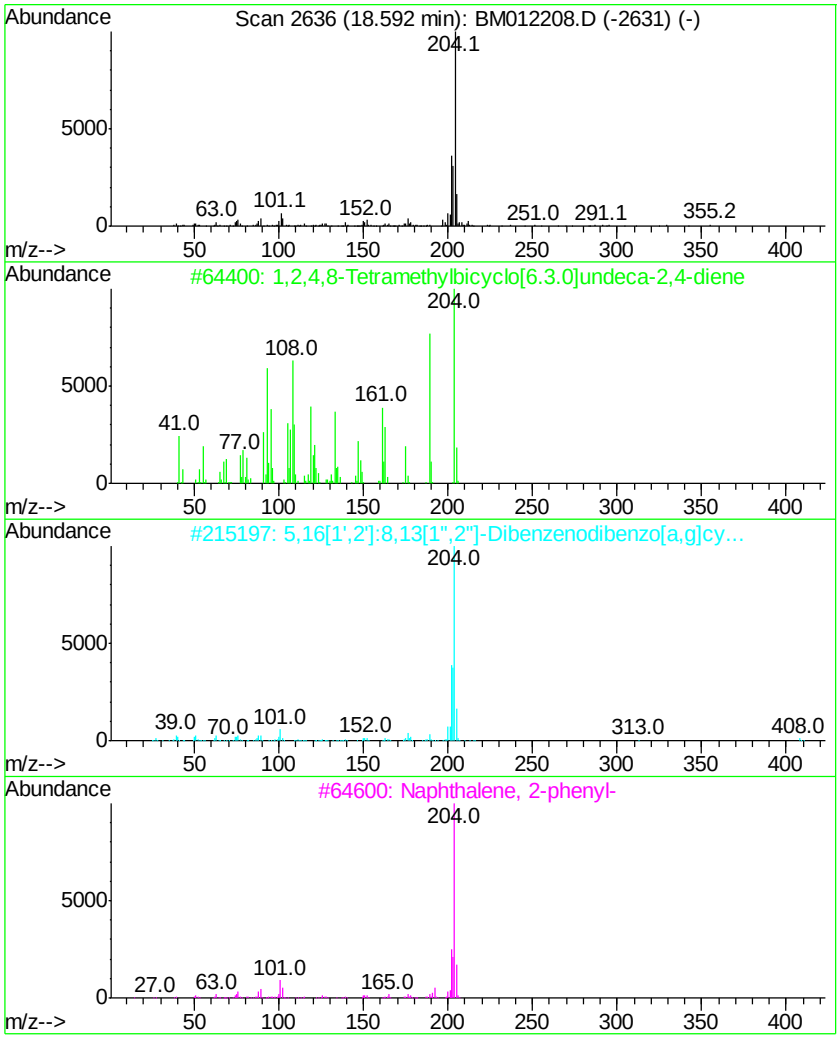
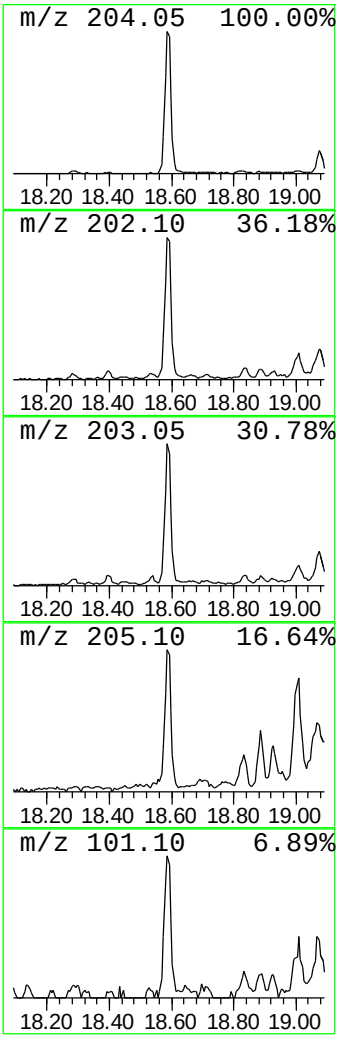
Peak Number 7 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	3.50 ng/ul	525681	Phenanthrene-d10	17.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	90
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81





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Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

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

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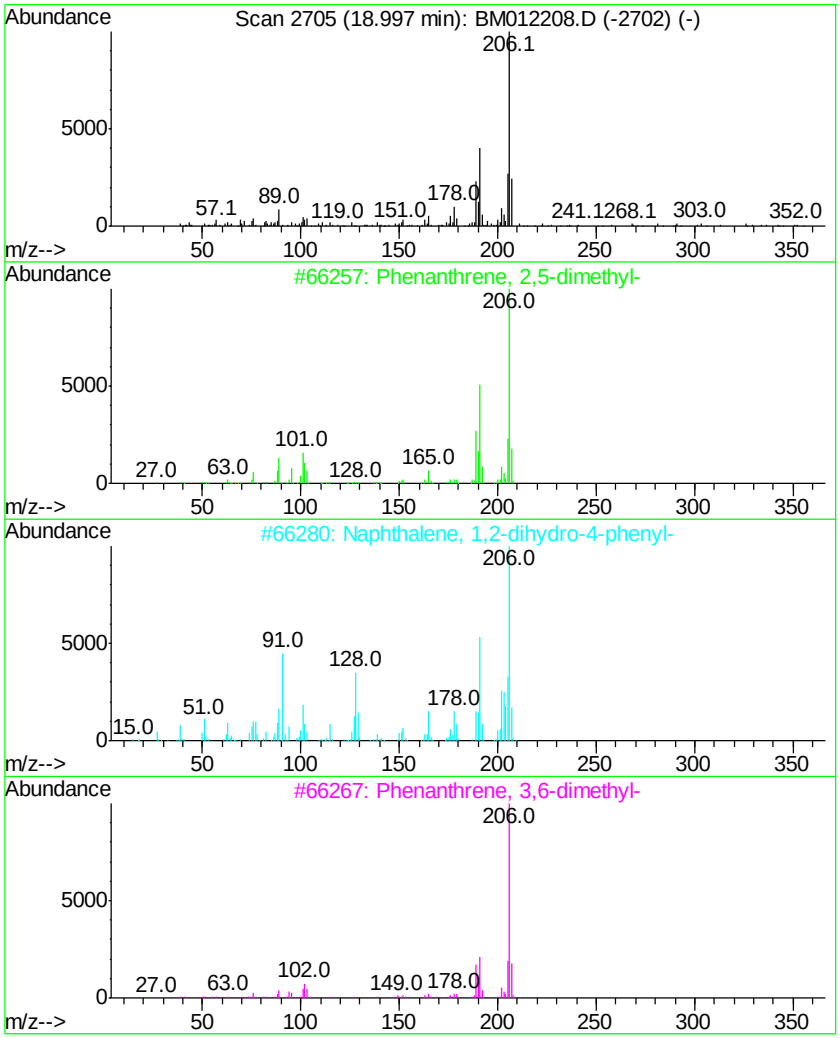
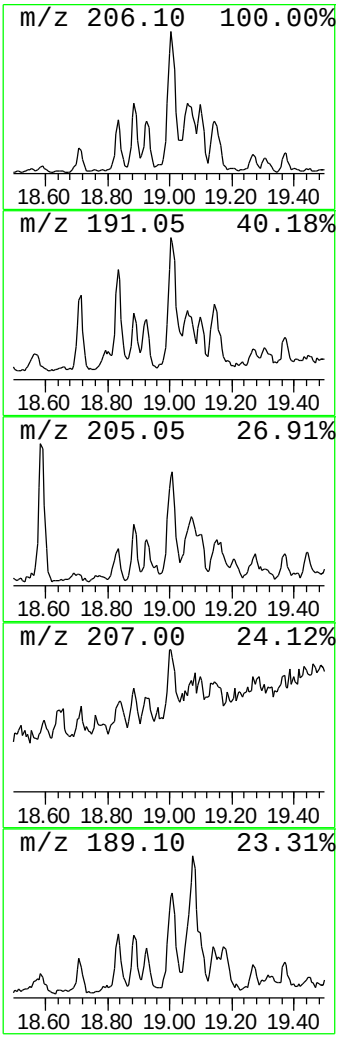
Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.00	2.42 ng/ul	363653	Phenanthrene-d10	17.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	91
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

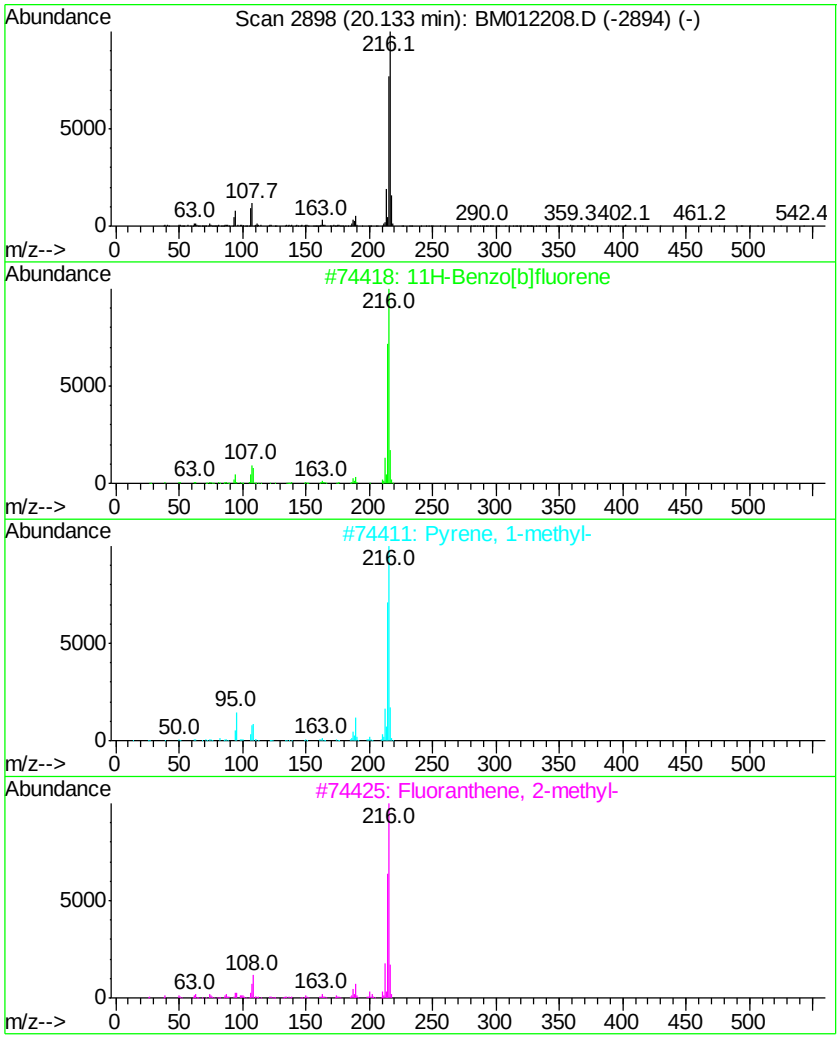
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

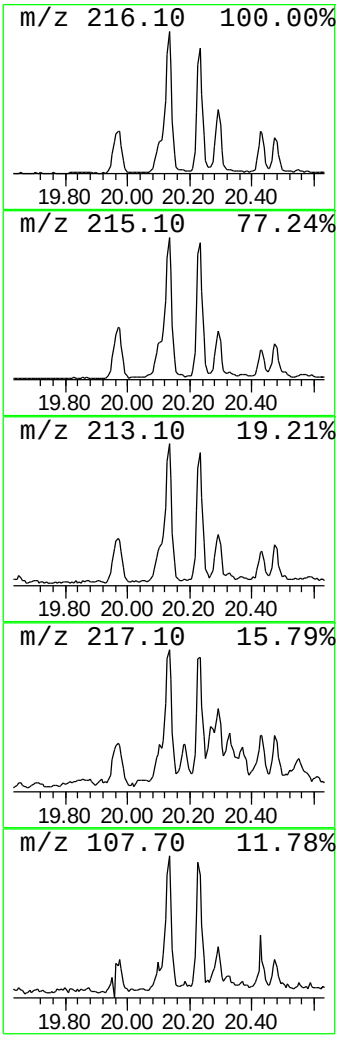
****

Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.13	2.96 ng/ul	750381	Chrysene-d12	21.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83





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Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

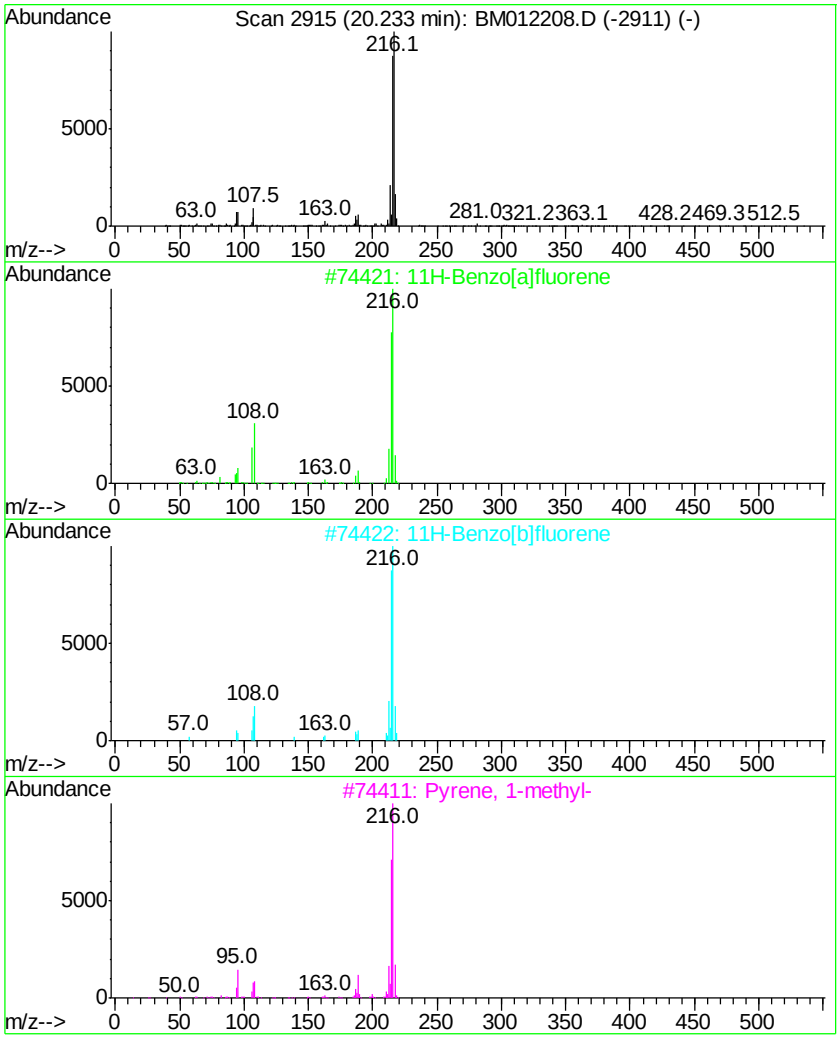
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

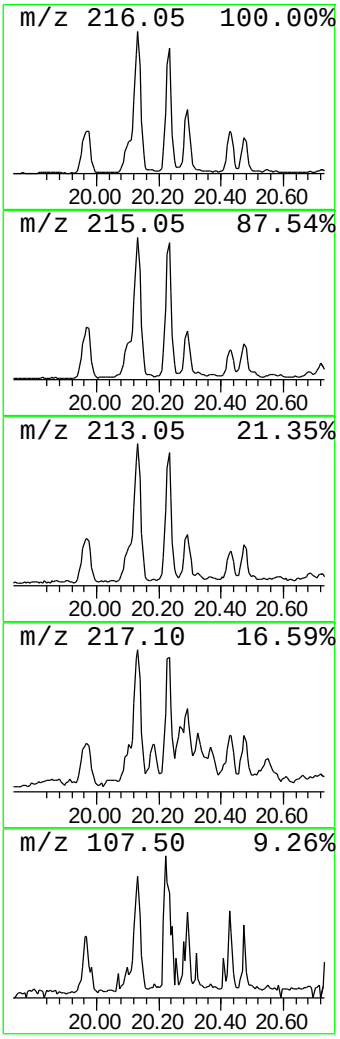
****

Peak Number 10 11H-Benzo[a]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.23	2.63 ng/ul	666006	Chrysene-d12	21.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





Tentatively Identified Compound (LSC) summary

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_M\DATA\BM101417\
Data File : BM012208.D
Acq On : 15 Oct 2017 14:37
Operator : SJ/JU
Sample : I5533-09DL2 30X
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : B-54(1-2)-092817DL2

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphtho[2,1-b]thi...	17.03	2.6	ng/ul	383507	4	17.22	3001920	20.0
Phenanthrene, 1-m...	18.09	4.3	ng/ul	647720	4	17.22	3001920	20.0
4H-Cyclopenta[def...	18.29	8.2	ng/ul	1231830	4	17.22	3001920	20.0
Phenanthrene, 2-m...	18.32	2.3	ng/ul	337424	4	17.22	3001920	20.0
1,2,4,8-Tetrameth...	18.59	3.5	ng/ul	525681	4	17.22	3001920	20.0
Phenanthrene, 2,5...	19.00	2.4	ng/ul	363653	4	17.22	3001920	20.0
11H-Benzo[b]fluorene	20.13	3.0	ng/ul	750381	5	21.40	5069420	20.0
11H-Benzo[a]fluorene	20.23	2.6	ng/ul	666006	5	21.40	5069420	20.0