LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\
Data File : BM018343.D
Acq On : 20 Dec 2018 22:59
Operator : JU/SJ
Sample : J6388-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

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_M\METHODS\8270-BM121518.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	4.681	300	305	313	rVB	95599	134383	2.50%	0.166%
2	5.128	375	381	398	rBV	2758077	4070284	75.76%	5.030%
3	5.522	443	448	454	rBV3	30429	57916	1.08%	0.072%
4	6.704	641	649	663	rBV	2808788	4646061	86.48%	5.742%
5	6.845	669	673	682	rVB2	49371	93043	1.73%	0.115%
6	7.034	698	705	714	rBV	3017041	4557830	84.83%	5.633%
7	7.487	775	782	790	rBV	646183	996428	18.55%	1.231%
8	7.798	828	835	845	rVB	2216679	3357428	62.49%	4.149%
9	7.951	857	861	866	rBV	46231	76513	1.42%	0.095%
10	8.010	866	871	879	rVB4	31951	70252	1.31%	0.087%
11	8.281	911	917	932	rBV	93579	198630	3.70%	0.245%
12	8.645	972	979	992	rBV	1619517	2721730	50.66%	3.364%
13	9.469	1113	1119	1125	rBV	57941	101239	1.88%	0.125%
14	9.586	1133	1139	1145	rBV3	30323	70545	1.31%	0.087%
15	10.116	1218	1229	1236	rBV	96336	183764	3.42%	0.227%
16	10.251	1242	1252	1258	rBV	779575	1299087	24.18%	1.606%
17	10.304	1258	1261	1267	rVB	56716	92911	1.73%	0.115%
18	10.633	1312	1317	1323	rBV3	43581	82164	1.53%	0.102%
19	11.092	1387	1395	1404	rBV3	31292	91747	1.71%	0.113%
20	11.498	1459	1464	1472	rVB2	30614	53787	1.00%	0.066%
21	11.927	1530	1537	1541	rBV	77668	124782	2.32%	0.154%
22	12.098	1560	1566	1570	rBV	49525	102414	1.91%	0.127%
23	12.151	1570	1575	1584	rVB	94210	178018	3.31%	0.220%
24	12.521	1633	1638	1642	rBV4	36017	57724	1.07%	0.071%
25	12.751	1670	1677	1688	rBV	3516722	5090384	94.75%	6.291%
26	12.927	1701	1707	1711	rBV	166275	295004	5.49%	0.365%
27	13.086	1729	1734	1742	rVB9	34007	87489	1.63%	0.108%
28	13.304	1765	1771	1779	rBV4	63756	186814	3.48%	0.231%
29	13.463	1792	1798	1802	rBV2	114232	208293	3.88%	0.257%
30	13.516	1802	1807	1815	rVB2	67661	154360	2.87%	0.191%
31	13.616	1816	1824	1833	rBV3	190135	459635	8.56%	0.568%
32	13.863	1861	1866	1872	rBV	249833	409430	7.62%	0.506%
33	14.045	1890	1897	1907	rBV	141057	289360	5.39%	0.358%
34	14.145	1908	1914	1921	rVB2	989838	1537628	28.62%	1.900%

LSC Area Percent Report

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Acq On : 20 Dec 2018 22:59
Operator : JU/SJ
Sample : J6388-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.468	1966	1969	1975	rVB2	66426	90330	1.68%	0.112%
36	14.551	1980	1983	1988	rVB2	71660	102746	1.91%	0.127%
37	14.633	1993	1997	2001	rVB	80006	112935	2.10%	0.140%
38	14.768	2016	2020	2025	rVB4	45934	73318	1.36%	0.091%
39	15.021	2058	2063	2070	rVB2	69534	158318	2.95%	0.196%
40	15.151	2082	2085	2090	rBV4	35993	63629	1.18%	0.079%
41	15.210	2091	2095	2102	rVB4	71101	128107	2.38%	0.158%
42	15.421	2127	2131	2136	rVB5	49034	71911	1.34%	0.089%
43	15.657	2166	2171	2178	rVB	2445507	3395760	63.20%	4.197%
44	15.892	2206	2211	2220	rVB4	125510	298527	5.56%	0.369%
45	16.727	2350	2353	2360	rVB2	90255	144206	2.68%	0.178%
46	16.909	2379	2384	2388	rBV	1028492	1454857	27.08%	1.798%
47	16.956	2388	2392	2396	rVB	781980	1038797	19.33%	1.284%
48	17.045	2404	2407	2412	rVB	223087	292307	5.44%	0.361%
49	17.098	2412	2416	2424	rBV3	208401	380336	7.08%	0.470%
50	17.786	2530	2533	2537	rBV	205868	243385	4.53%	0.301%
51	17.833	2537	2541	2549	rVB2	967071	1367207	25.45%	1.690%
52	17.980	2562	2566	2571	rBV3	252883	447647	8.33%	0.553%
53	18.686	2683	2686	2689	rBV3	173342	237778	4.43%	0.294%
54	18.721	2689	2692	2696	rVB	243577	303291	5.65%	0.375%
55	18.845	2709	2713	2723	rVB4	526606	810155	15.08%	1.001%
56	18.986	2733	2737	2743	rBV	635821	971899	18.09%	1.201%
57	19.133	2758	2762	2769	rBV3	882963	1249843	23.26%	1.545%
58	19.356	2795	2800	2803	rBV	863233	1198485	22.31%	1.481%
59	19.392	2803	2806	2811	rVB	506443	648527	12.07%	0.802%
60	19.568	2831	2836	2843	rBV	3996186	5372636	100.00%	6.640%
61	19.703	2856	2859	2864	rVB2	872848	1105446	20.58%	1.366%
62	19.750	2864	2867	2875	rBV4	315057	554910	10.33%	0.686%
63	19.850	2880	2884	2889	rVB2	2765141	3231785	60.15%	3.994%
64	20.056	2916	2919	2924	rVB5	309354	363090	6.76%	0.449%
65	20.133	2928	2932	2936	rVV	2746525	3359128	62.52%	4.151%
66	20.186	2938	2941	2950	rVV2	656331	1038920	19.34%	1.284%
67	20.292	2954	2959	2965	rVB3	1100103	1625318	30.25%	2.009%
68	20.450	2979	2986	2992	rBV	1711600	3057849	56.92%	3.779%
69	20.597	3007	3011	3018	rVB2	1493079	1705532	31.74%	2.108%
70	20.662	3019	3022	3025	rBV	615139	680596	12.67%	0.841%
71	20.868	3052	3057	3061	rVB2	1578806	2468470	45.95%	3.051%

LSC Area Percent Report

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Misc :
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Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

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

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Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.927	3063	3067	3071	rVB3	845798	1019196	18.97%	1.260%
73	21.139	3098	3103	3104	rBV3	1461949	1973657	36.74%	2.439%
74	21.162	3104	3107	3113	rVB2	3176901	3940252	73.34%	4.870%
75	21.468	3156	3159	3165	rVB2	1134309	1341011	24.96%	1.657%
76	21.591	3177	3180	3183	rVB	601808	654448	12.18%	0.809%

Sum of corrected areas: 80913622

LSC Report - Integrated Chromatogram

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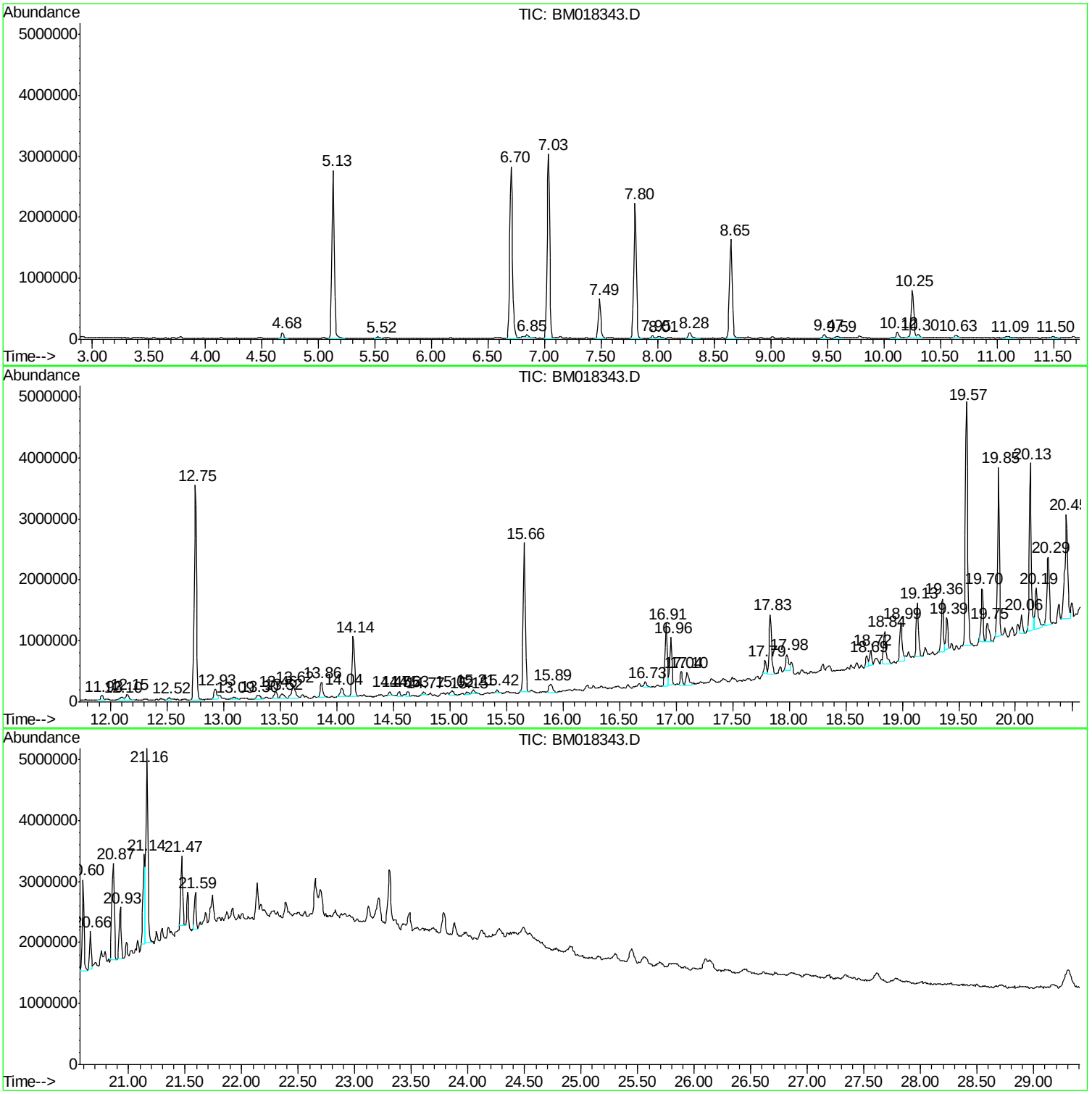
Operator : JU/SJ
Sample : J6388-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\
Data File : BM018343.D
Acq On : 20 Dec 2018 22:59
Operator : JU/SJ
Sample : J6388-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

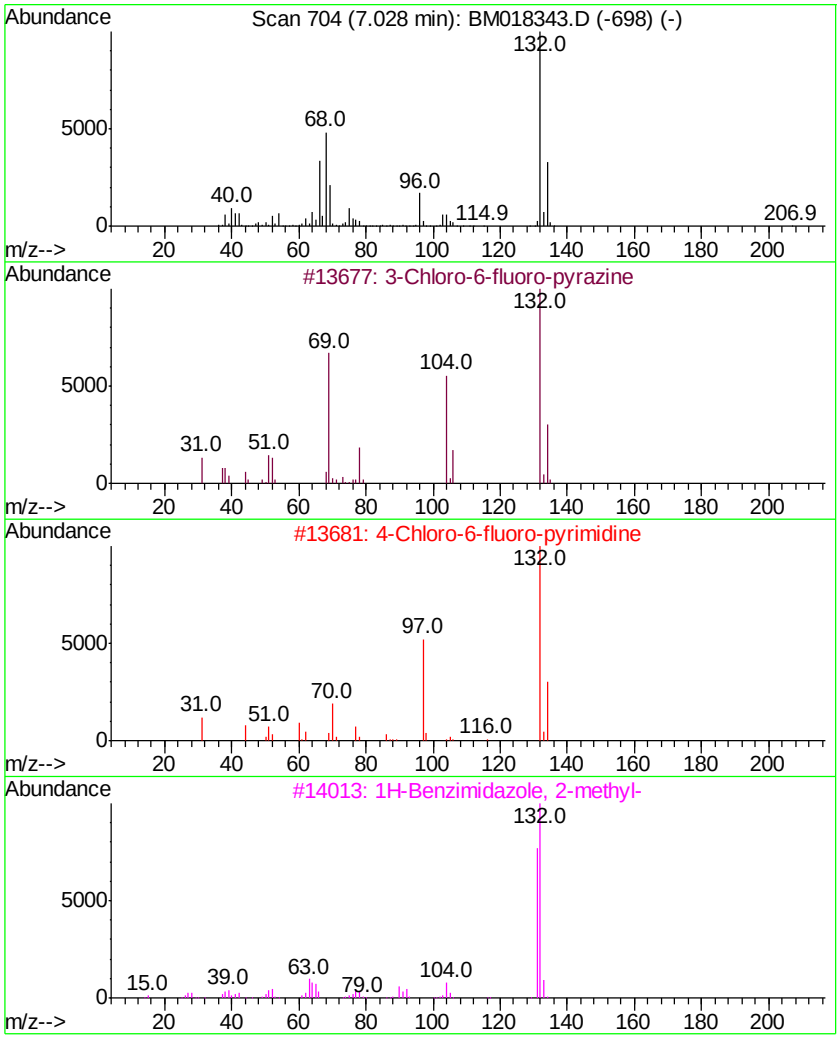
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

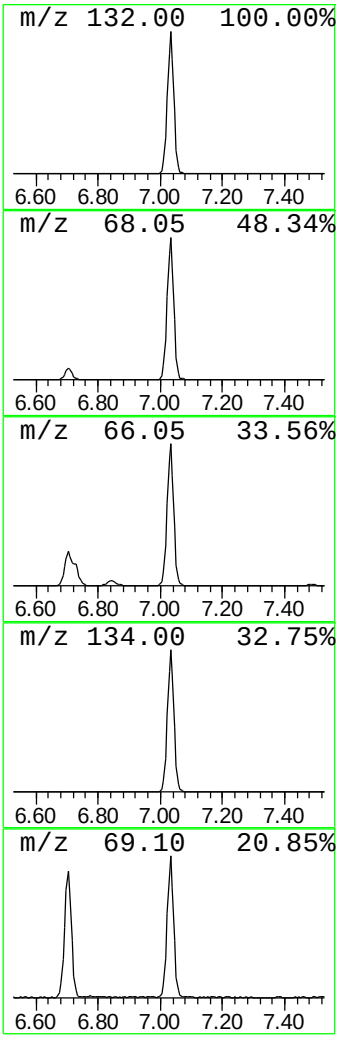
****

Peak Number 1 unknown7.03 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.03	91.48 ng	4557830	1,4-Dichlorobenzene-d4	7.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
5	(5-METHYL-2-PYRIDYL)ACETONITRILE	132	C8H8N2	1000241-93-9	10





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Operator : JU/SJ
Sample : J6388-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

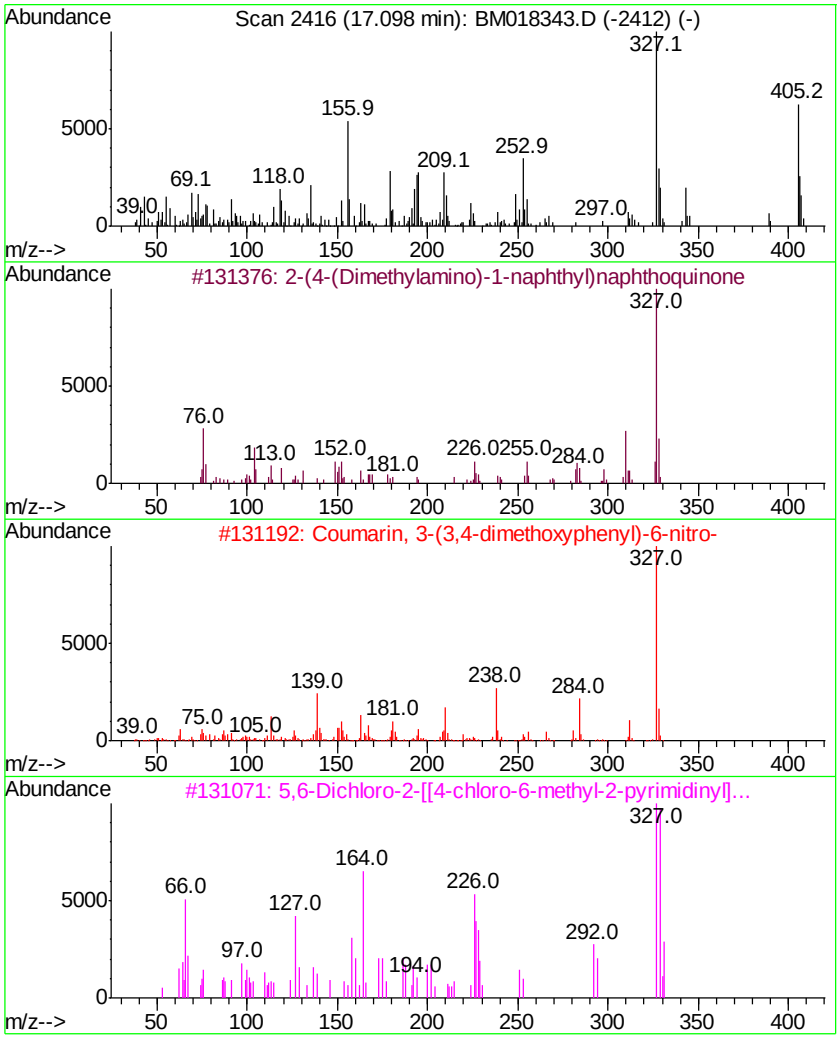
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

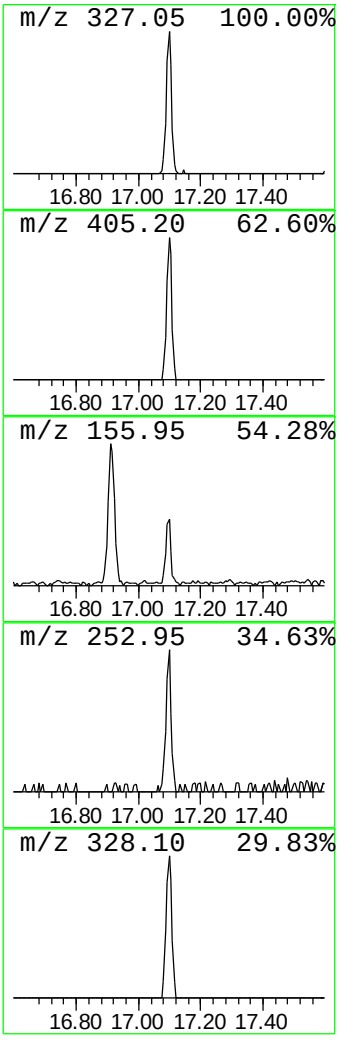
****

Peak Number 3 unknown17.10 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.10	5.23 ng	380336	Phenanthrene-d10	16.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(4-(Dimethylamino)-1-naphthyl)...	327	C22H17NO2	085808-66-8	30
2	Coumarin, 3-(3,4-dimethoxyphenyl...	327	C17H13NO6	331949-94-1	18
3	5,6-Dichloro-2-[[4-chloro-6-meth...	327	C12H8Cl3N5	042388-69-2	14
4	3-(p-Ethoxyphenyl)-5-(O-tolyloxy...	327	C19H21NO4	005256-08-6	14
5	1H-Indole, 5,6-dimethoxy-2-(3,5-...	327	C19H21NO4	156785-69-2	12





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
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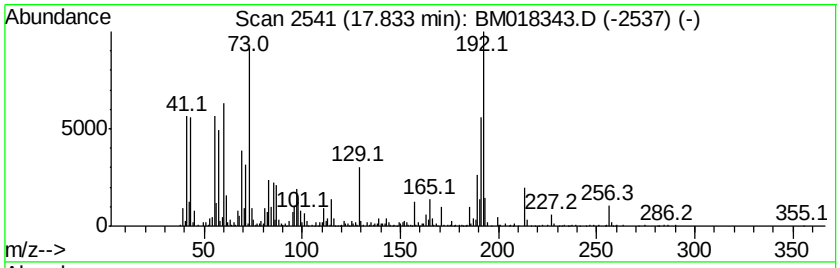
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

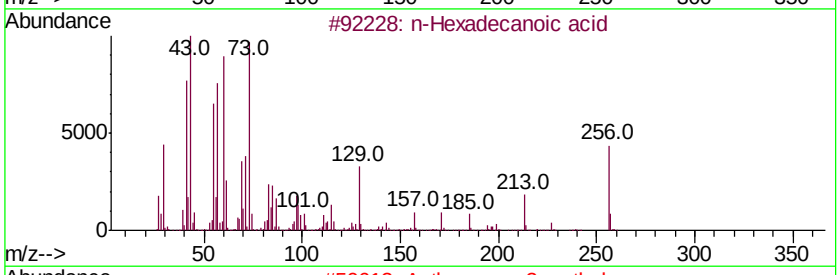
****

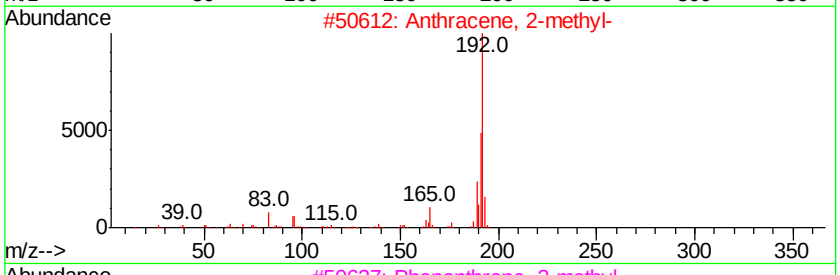
Peak Number 4 n-Hexadecanoic acid Concentration Rank 7

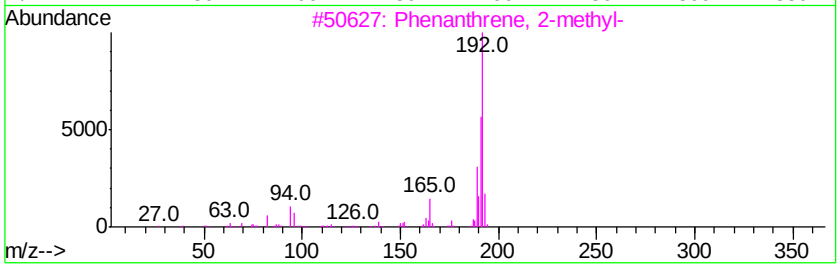
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	18.80 ng	1367210	Phenanthrene-d10	16.91

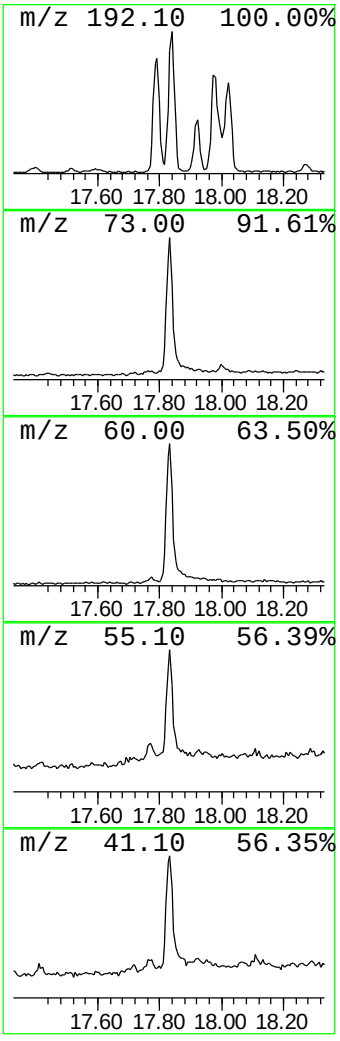
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93











Library Search Compound Report

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Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

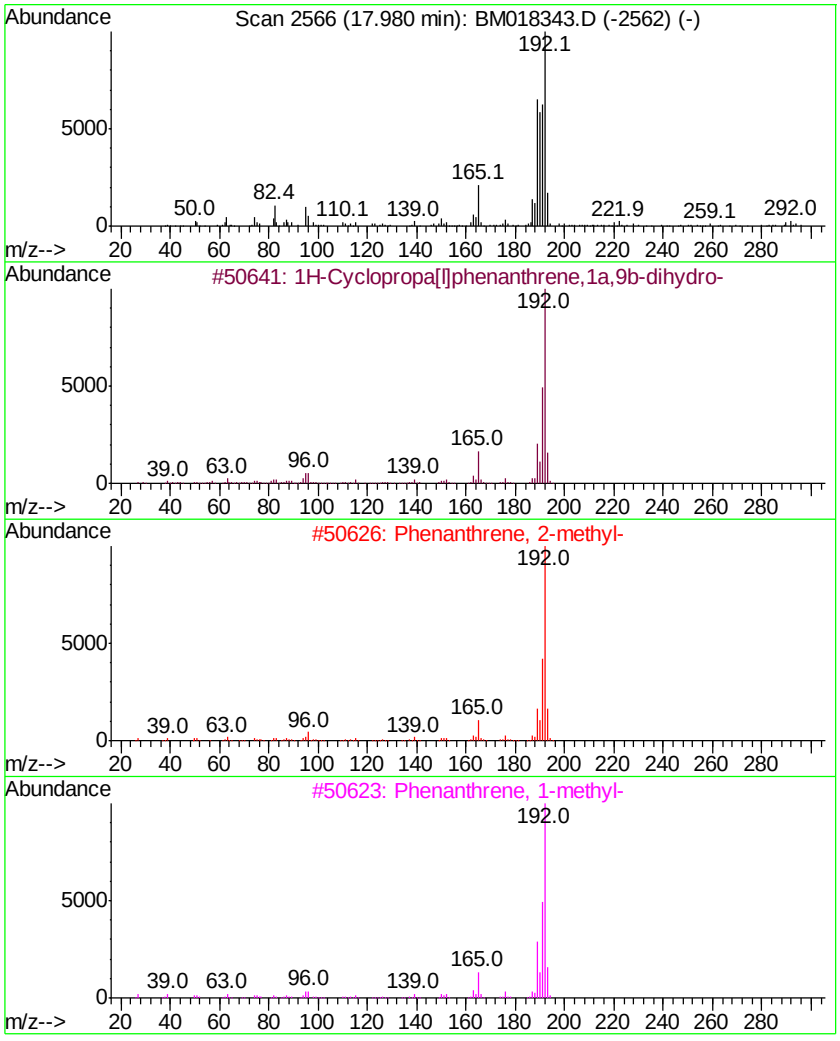
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

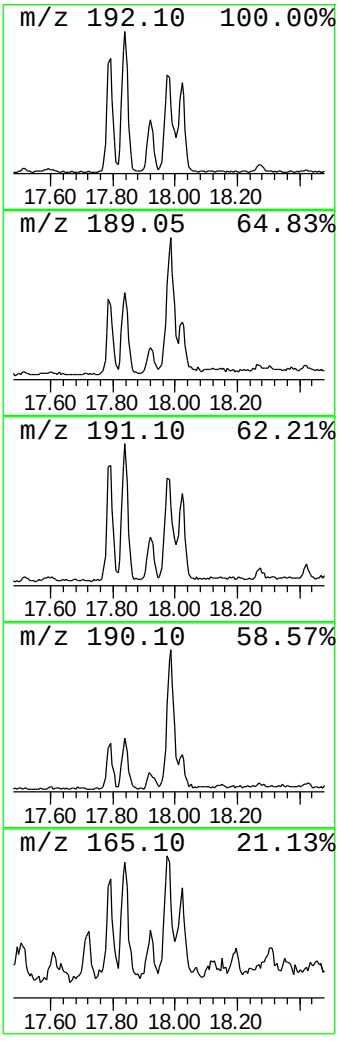
****

Peak Number 5 1H-Cyclopropa[l]phenanthren... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.98	6.15 ng	447647	Phenanthrene-d10	16.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	64
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	60
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	60
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	60





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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

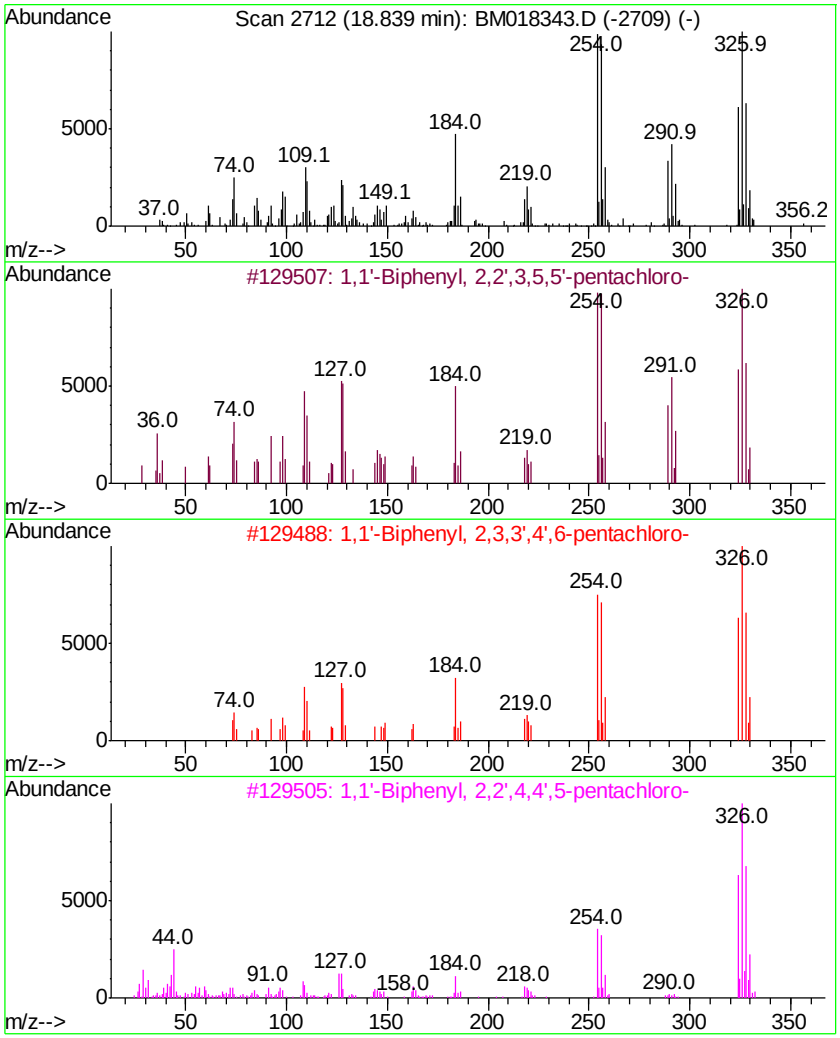
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

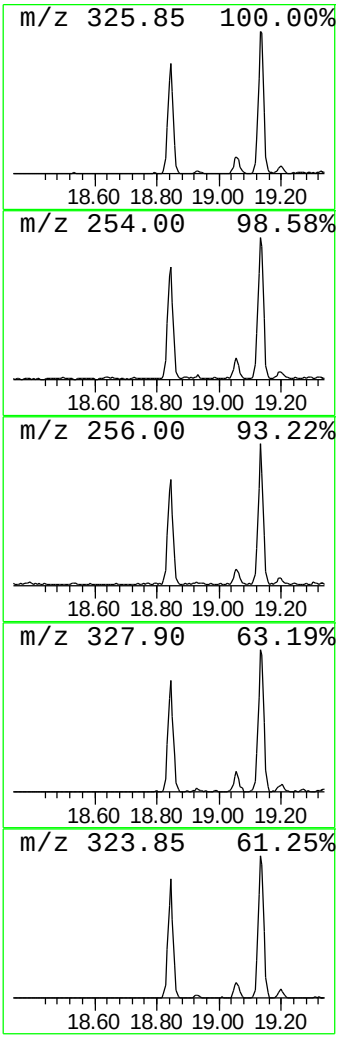
****

Peak Number 6 1,1'-Biphenyl, 2,2',3,5,5'-... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.84	11.14 ng	810155	Phenanthrene-d10	16.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',3,5,5'-penta...	324	C12H5Cl5	052663-61-3	98
2	1,1'-Biphenyl, 2,3,3',4',6-penta...	324	C12H5Cl5	038380-03-9	98
3	1,1'-Biphenyl, 2,2',4,4',5-penta...	324	C12H5Cl5	038380-01-7	98
4	1,1'-Biphenyl, 2,3',4,4',5-penta...	324	C12H5Cl5	031508-00-6	96
5	1,1'-Biphenyl, 2,2',4,5,6'-penta...	324	C12H5Cl5	068194-06-9	95





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ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

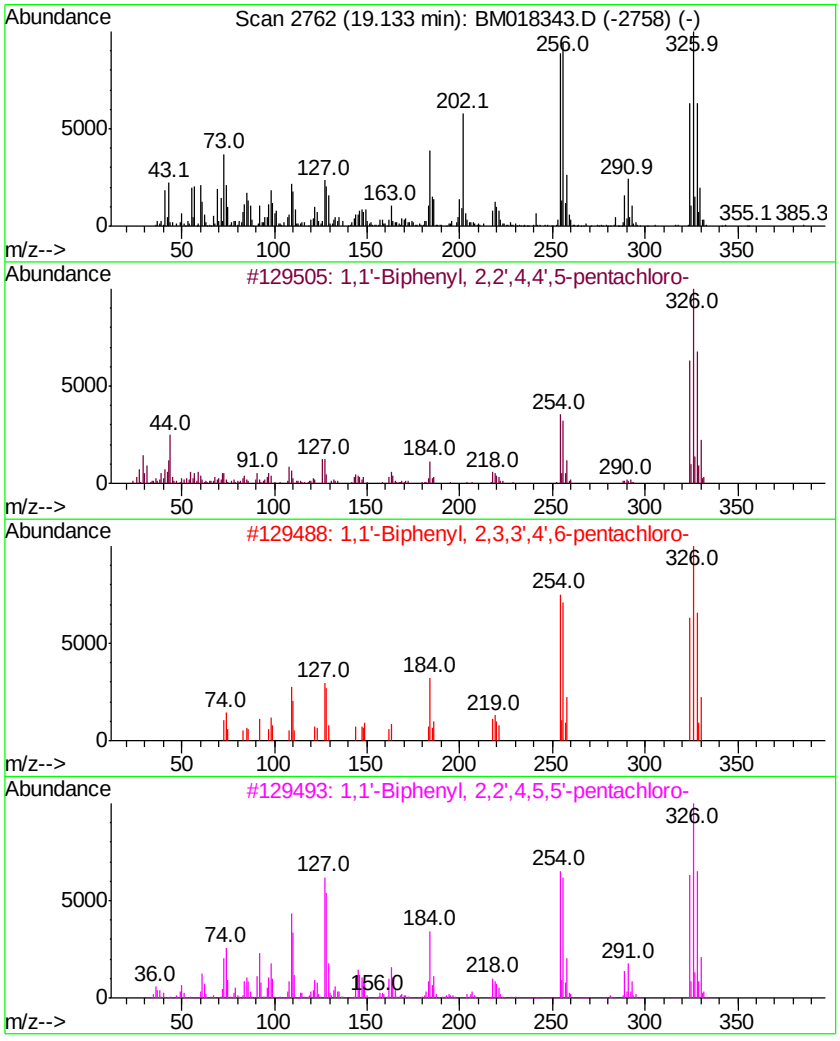
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

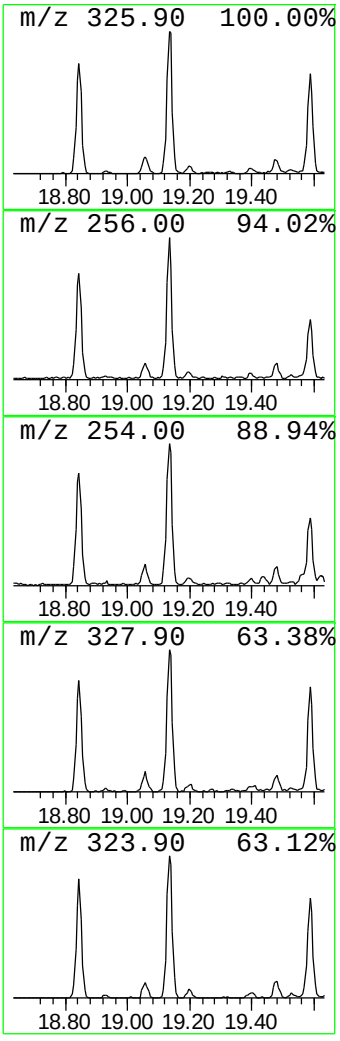
****

Peak Number 7 1,1'-Biphenyl, 2,2',4,4',5-... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.13	12.67 ng	1249840	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',4,4',5-penta...	324	C12H5Cl5	038380-01-7	99
2	1,1'-Biphenyl, 2,3,3',4',6-penta...	324	C12H5Cl5	038380-03-9	98
3	1,1'-Biphenyl, 2,2',4,5,5'-penta...	324	C12H5Cl5	037680-73-2	98
4	1,1'-Biphenyl, 2,2',3,5,5'-penta...	324	C12H5Cl5	052663-61-3	95
5	1,1'-Biphenyl, 2,3,3',4,4'-penta...	324	C12H5Cl5	032598-14-4	95





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Data File : BM018343.D
Acq On : 20 Dec 2018 22:59
Operator : JU/SJ
Sample : J6388-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

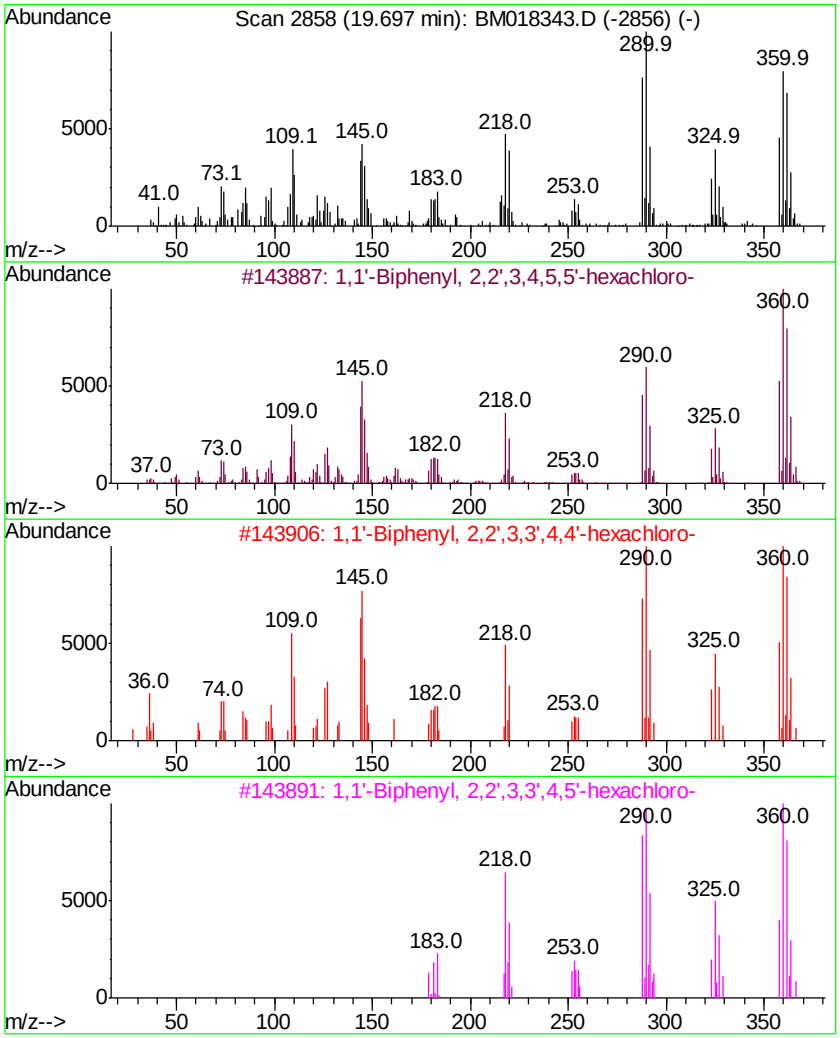
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

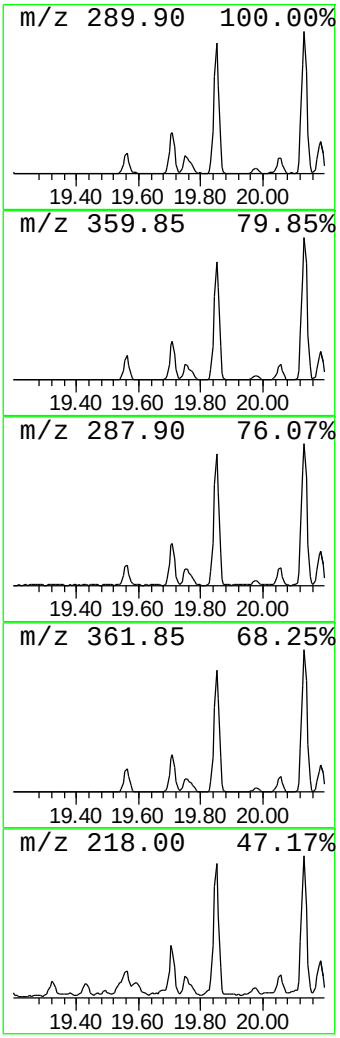
****

Peak Number 8 1,1'-Biphenyl, 2,2',3,4,5,5... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.70	11.20 ng	1105450	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',3,4,5,5'-hex...	358	C12H4Cl6	052712-04-6	99
2	1,1'-Biphenyl, 2,2',3,3',4,4'-he...	358	C12H4Cl6	038380-07-3	99
3	1,1'-Biphenyl, 2,2',3,3',4,5'-he...	358	C12H4Cl6	052663-66-8	99
4	1,1'-Biphenyl, 2,2',3,4,4',5'-he...	358	C12H4Cl6	035065-28-2	99
5	1,1'-Biphenyl, 2,2',3,4,4',5-hex...	358	C12H4Cl6	035694-06-5	98





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Sample : J6388-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

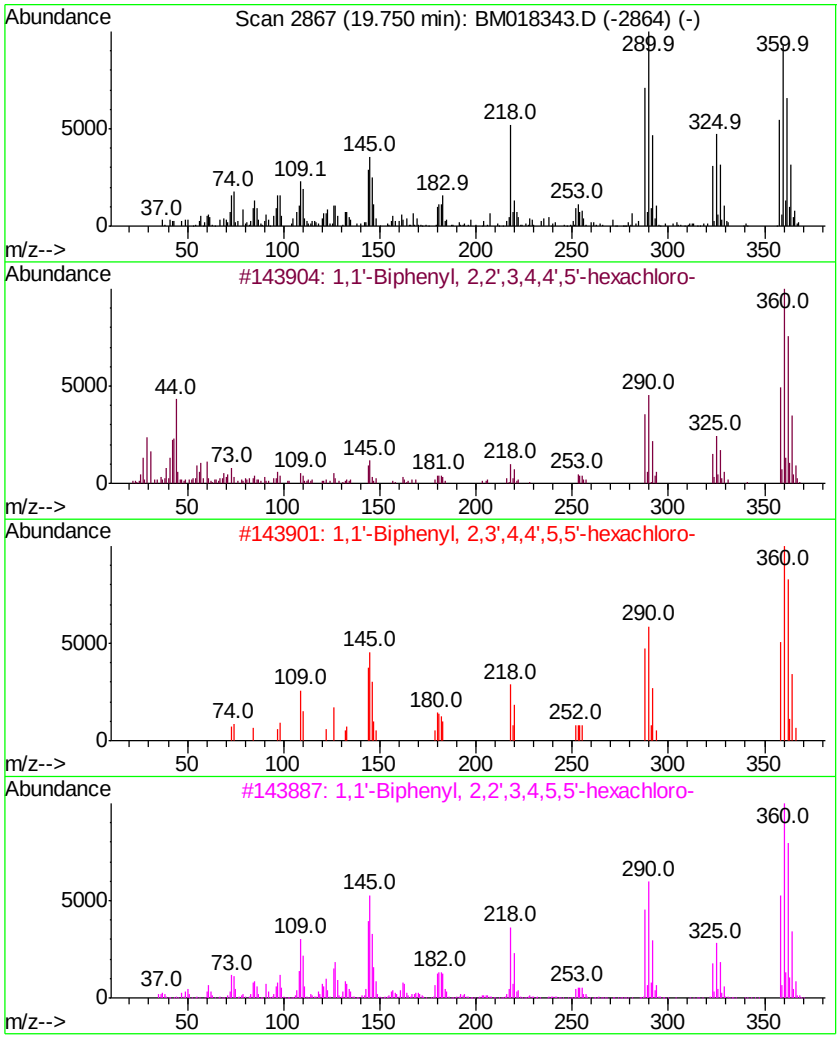
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

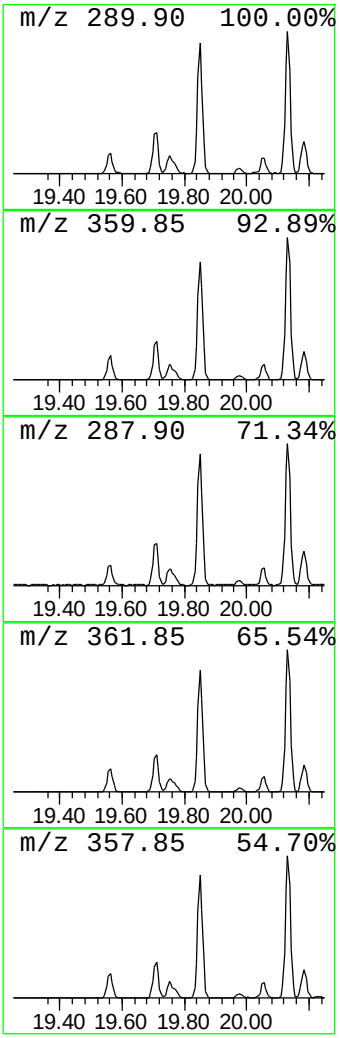
****

Peak Number 9 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.75	5.62 ng	554910	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',3,4,4',5'-he...	358	C12H4Cl6	035065-28-2	99
2	1,1'-Biphenyl, 2,3',4,4',5,5'-he...	358	C12H4Cl6	052663-72-6	97
3	1,1'-Biphenyl, 2,2',3,4,5,5'-hex...	358	C12H4Cl6	052712-04-6	95
4	1,1'-Biphenyl, 2,2',4,4',5',6-He...	358	C12H4Cl6	060145-22-4	94
5	1,1'-Biphenyl, 2,2',3,3',4,6'-he...	358	C12H4Cl6	038380-05-1	94





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Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

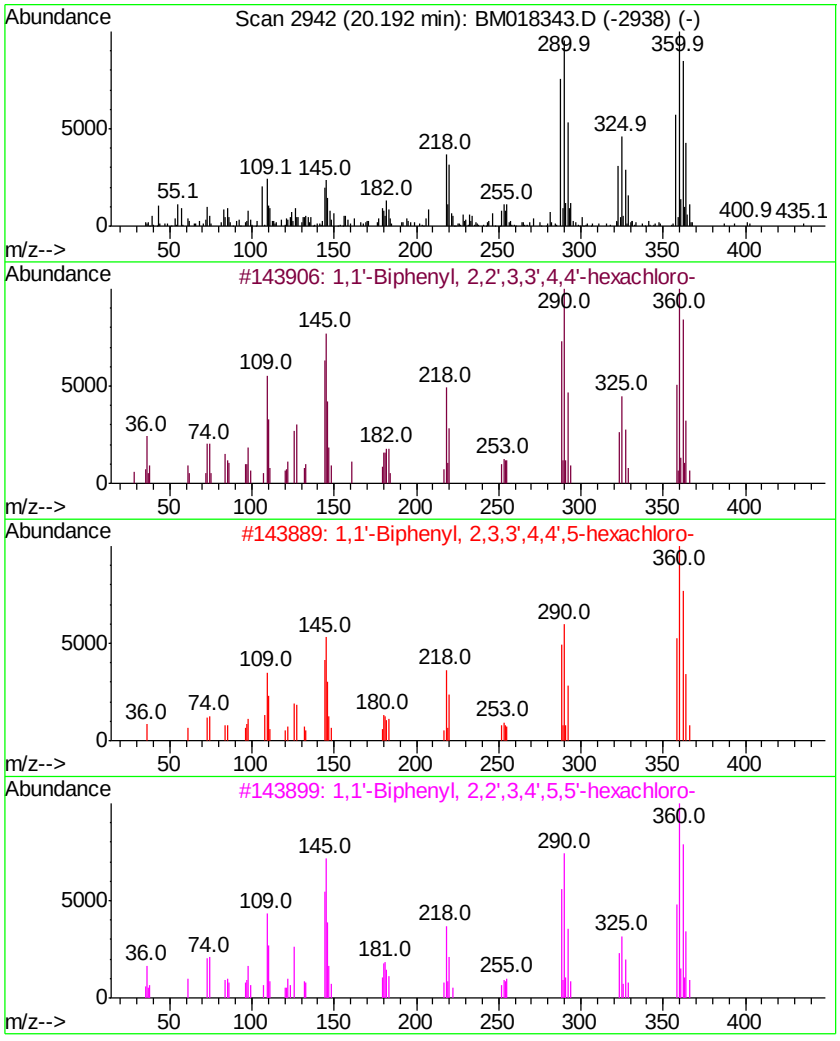
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

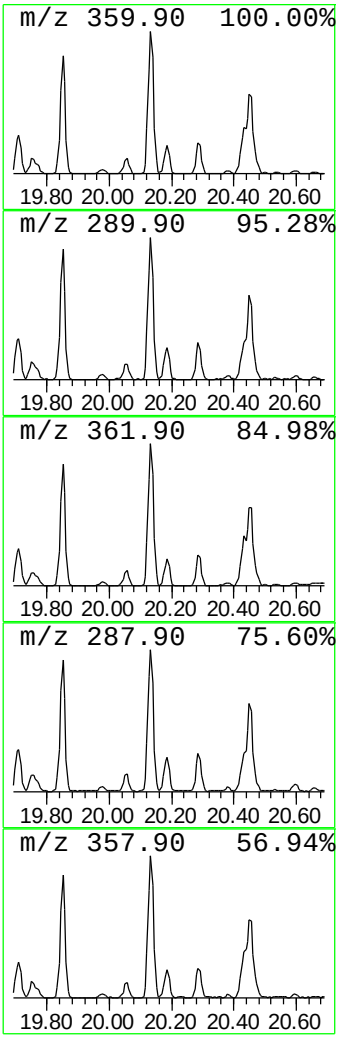
****

Peak Number 12 1,1'-Biphenyl, 2,2',3,3',4,... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.19	10.53 ng	1038920	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',3,3',4,4'-he...	358	C12H4Cl6	038380-07-3	99
2	1,1'-Biphenyl, 2,3,3',4,4',5-hex...	358	C12H4Cl6	038380-08-4	99
3	1,1'-Biphenyl, 2,2',3,4',5,5'-he...	358	C12H4Cl6	051908-16-8	99
4	1,1'-Biphenyl, 2,2',3,3',4,5'-he...	358	C12H4Cl6	052663-66-8	99
5	1,1'-Biphenyl, 2,2',3,4,5,5'-hex...	358	C12H4Cl6	052712-04-6	99





Library Search Compound Report

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Data File : BM018343.D
Acq On : 20 Dec 2018 22:59
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Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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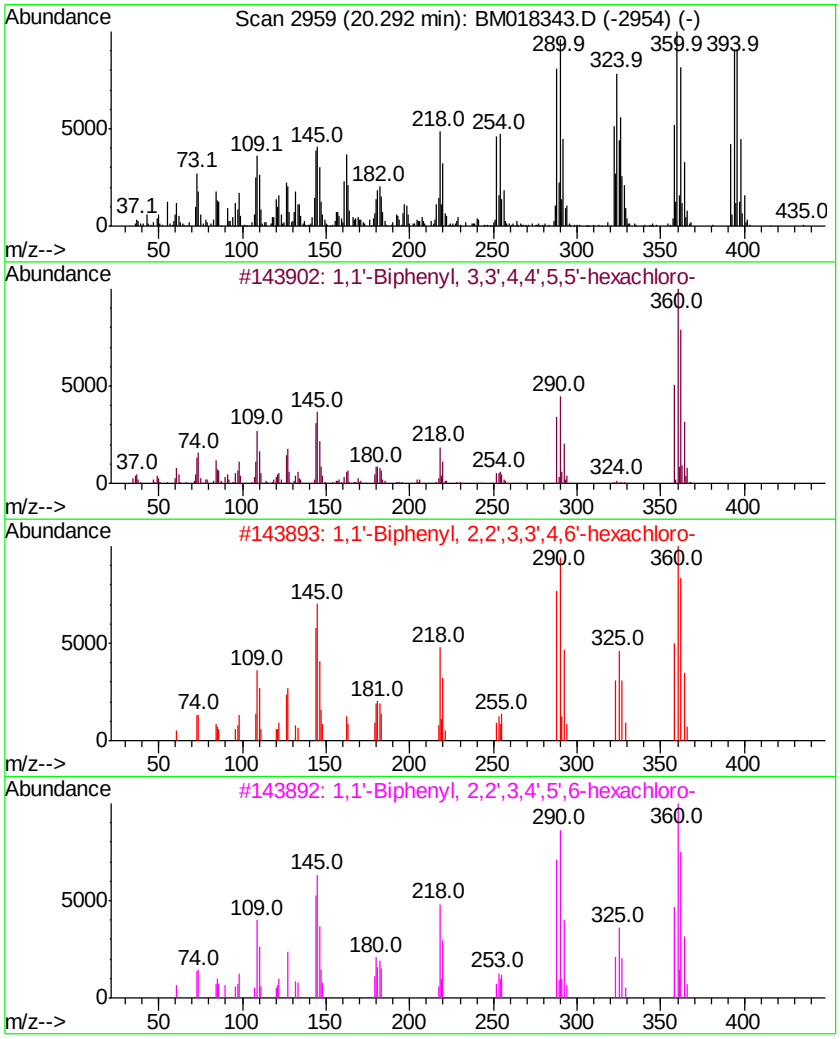
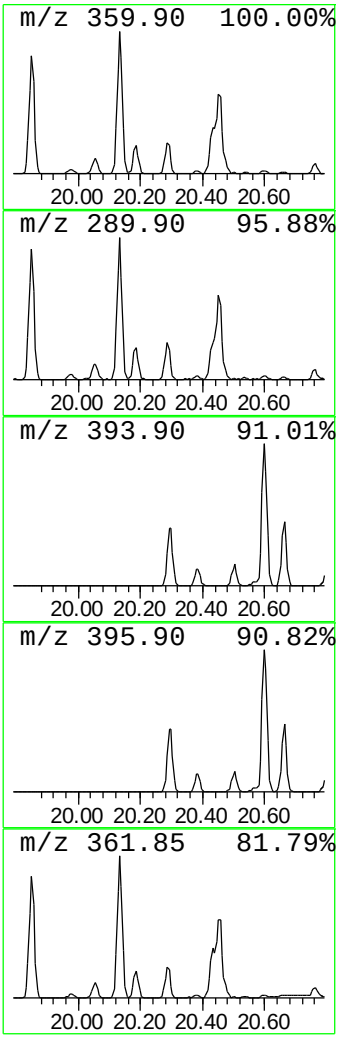
Peak Number 13 1,1'-Biphenyl, 3,3',4,4',5,... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.29	16.47 ng	1625320	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3,3',4,4',5,5'-he...	358	C12H4Cl6	032774-16-6	97
2	1,1'-Biphenyl, 2,2',3,3',4,6'-he...	358	C12H4Cl6	038380-05-1	97
3	1,1'-Biphenyl, 2,2',3,4',5',6-he...	358	C12H4Cl6	038380-04-0	97
4	1,1'-Biphenyl, 2,2',3,3',4,5'-he...	358	C12H4Cl6	052663-66-8	97
5	1,1'-Biphenyl, 2,3,3',4,4',5-hex...	358	C12H4Cl6	038380-08-4	97





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Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

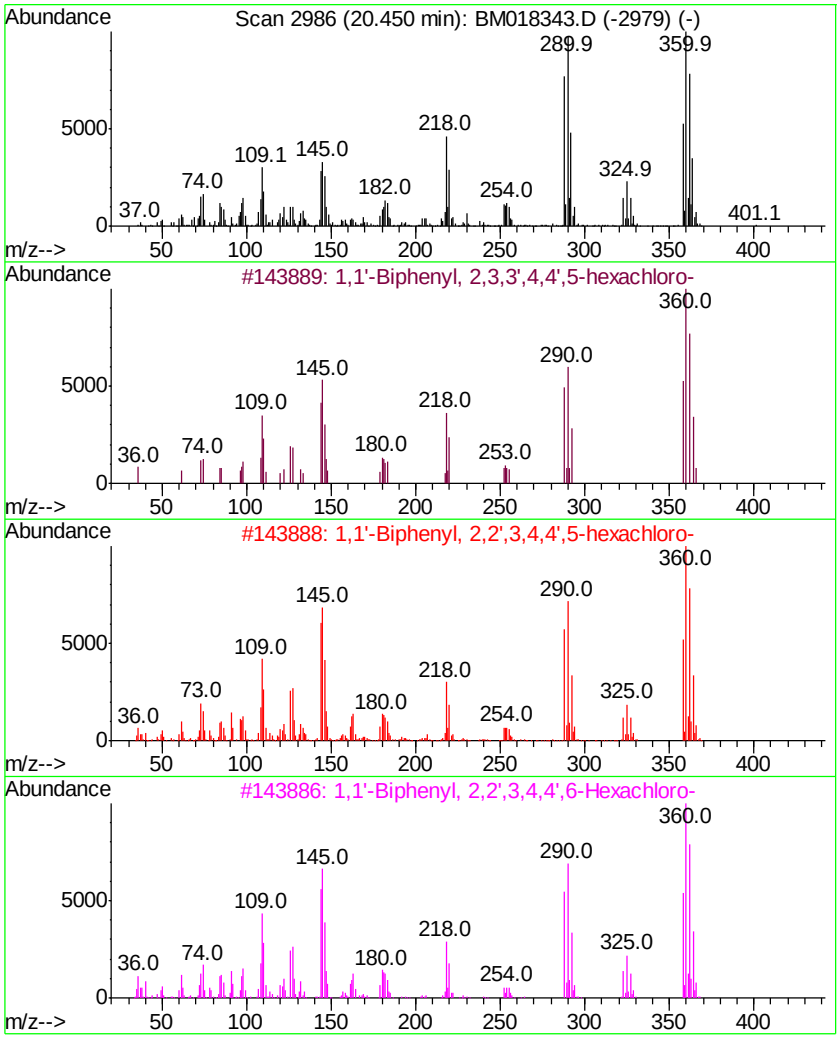
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

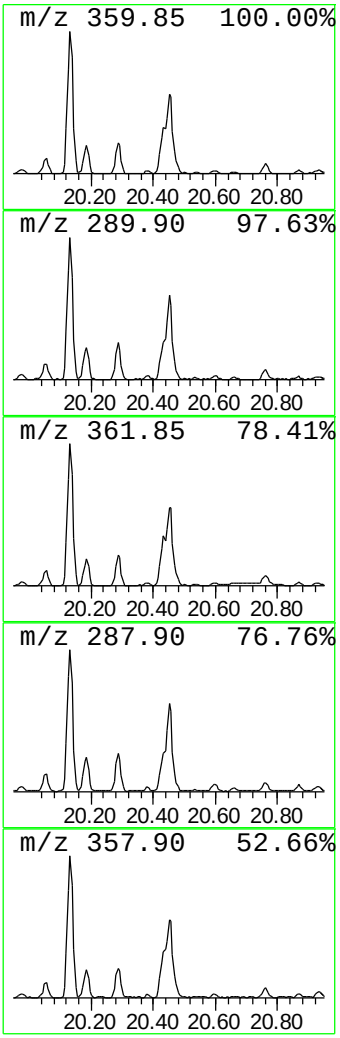
****

Peak Number 14 1,1'-Biphenyl, 2,3,3',4,4',... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.45	30.99 ng	3057850	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,3,3',4,4',5-hex...	358	C12H4Cl6	038380-08-4	99
2	1,1'-Biphenyl, 2,2',3,4,4',5-hex...	358	C12H4Cl6	035694-06-5	99
3	1,1'-Biphenyl, 2,2',3,4,4',6-Hex...	358	C12H4Cl6	056030-56-9	99
4	1,1'-Biphenyl, 2,2',3,4,4',5'-he...	358	C12H4Cl6	035065-28-2	98
5	1,1'-Biphenyl, 3,3',4,4',5,5'-he...	358	C12H4Cl6	032774-16-6	97





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Misc :
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Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

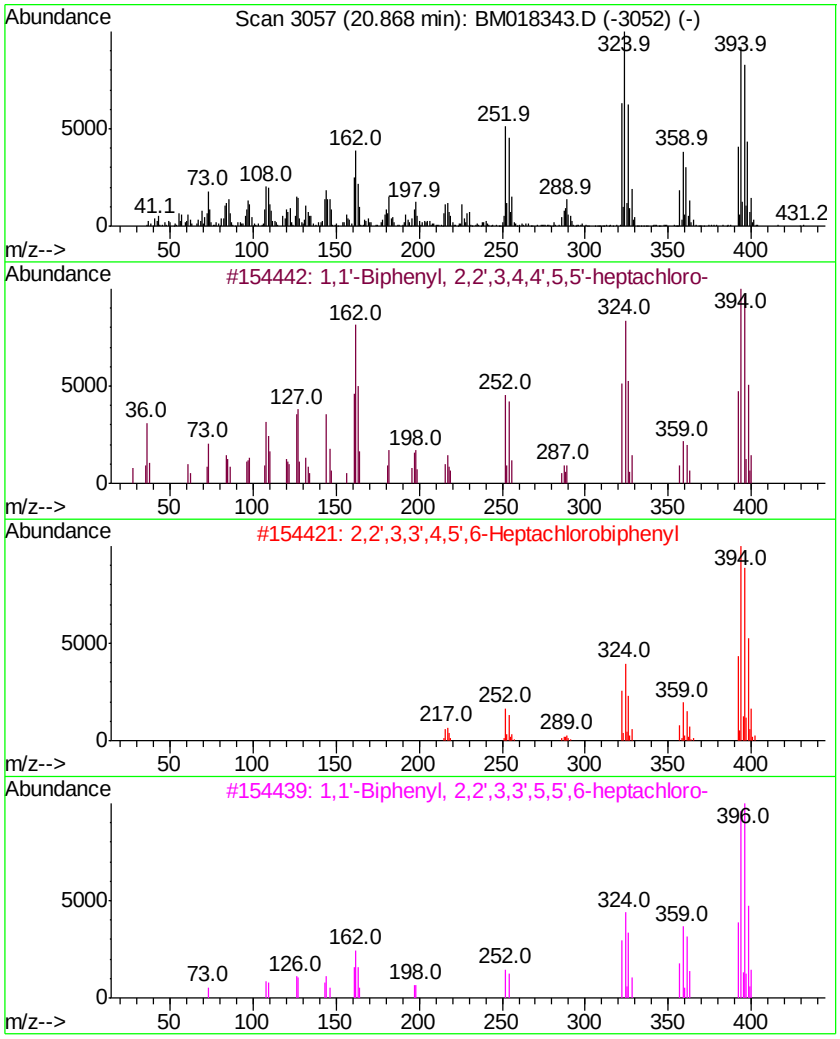
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

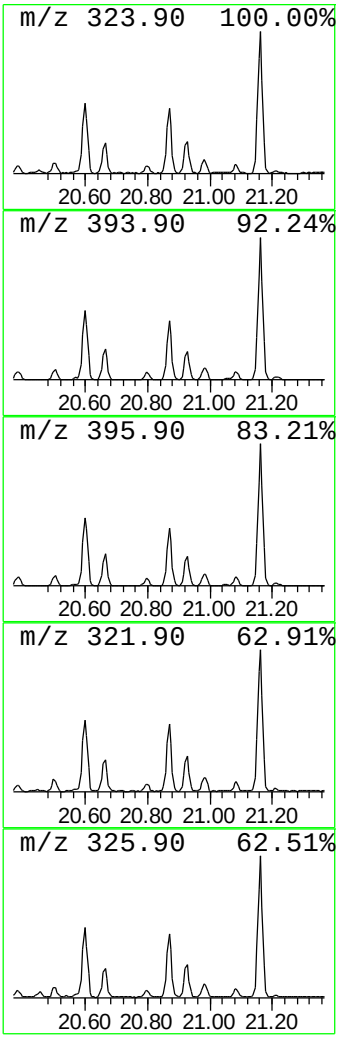
****

Peak Number 17 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.87	25.01 ng	2468470	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',3,4,4',5,5'-...	392	C12H3Cl7	035065-29-3	99
2	2,2',3,3',4,5',6-Heptachlorobiph...	392	C12H3Cl7	040186-70-7	99
3	1,1'-Biphenyl, 2,2',3,3',5,5',6-...	392	C12H3Cl7	052663-67-9	99
4	1,1'-Biphenyl, 2,2',3,3',4,5,5'-...	392	C12H3Cl7	052663-74-8	99
5	1,1'-Biphenyl, 2,2',3,4,4',5,6-H...	392	C12H3Cl7	074472-47-2	99





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Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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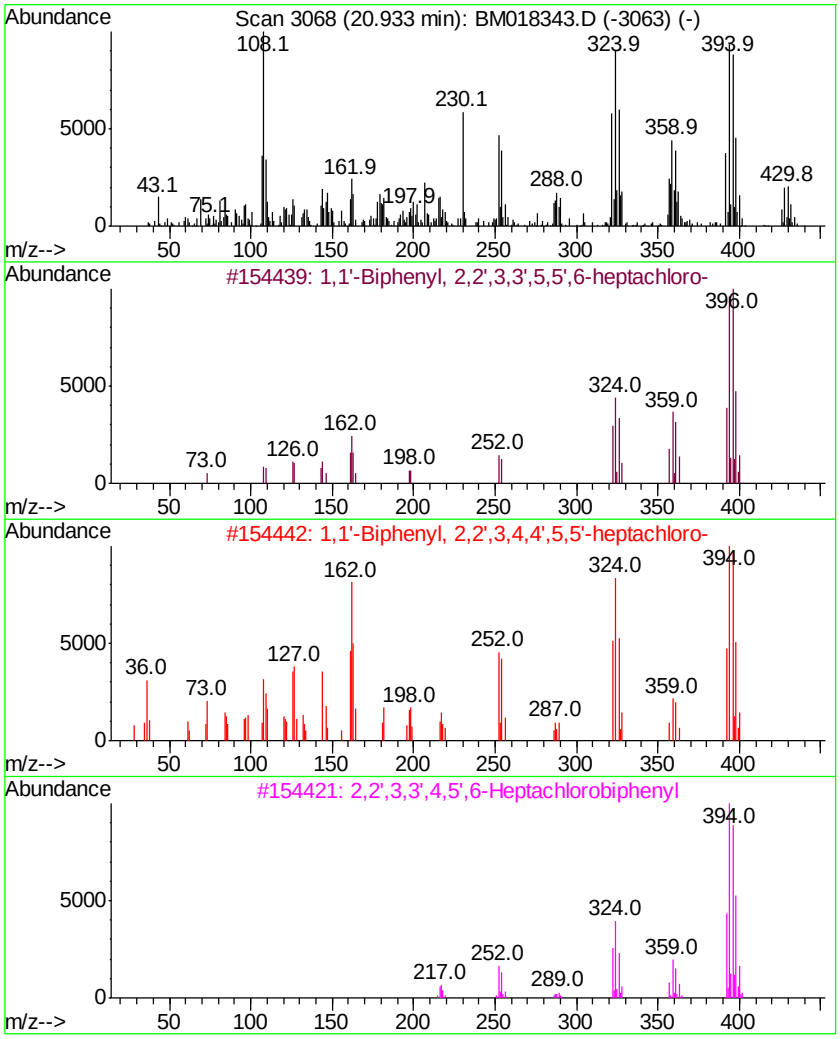
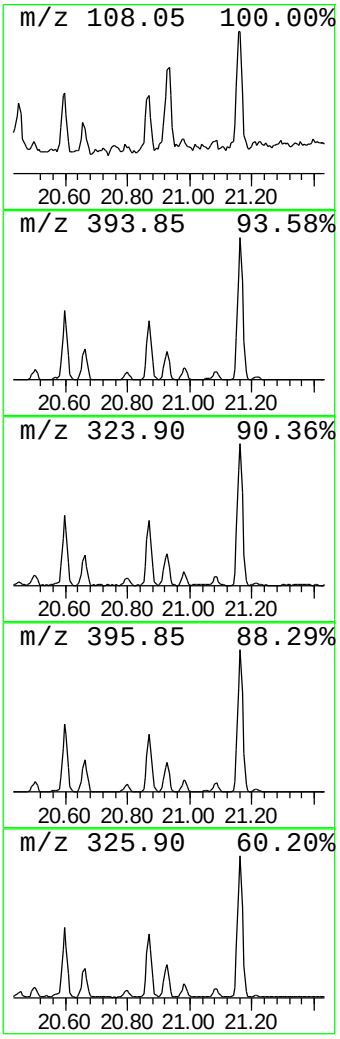
Peak Number 18 1,1'-Biphenyl, 2,2',3,3',5,... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.93	10.33 ng	1019200	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',3,3',5,5',6-...	392	C12H3Cl7	052663-67-9	99
2	1,1'-Biphenyl, 2,2',3,4,4',5,5'-...	392	C12H3Cl7	035065-29-3	99
3	2,2',3,3',4,5',6-Heptachlorobiph...	392	C12H3Cl7	040186-70-7	99
4	1,1'-Biphenyl, 2,2',3,3',4,5,5'-...	392	C12H3Cl7	052663-74-8	99
5	1,1'-Biphenyl, 2,3,3',4,5,5',6-h...	392	C12H3Cl7	074472-51-8	99





Library Search Compound Report

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Operator : JU/SJ
Sample : J6388-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P001-SS008-1218-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

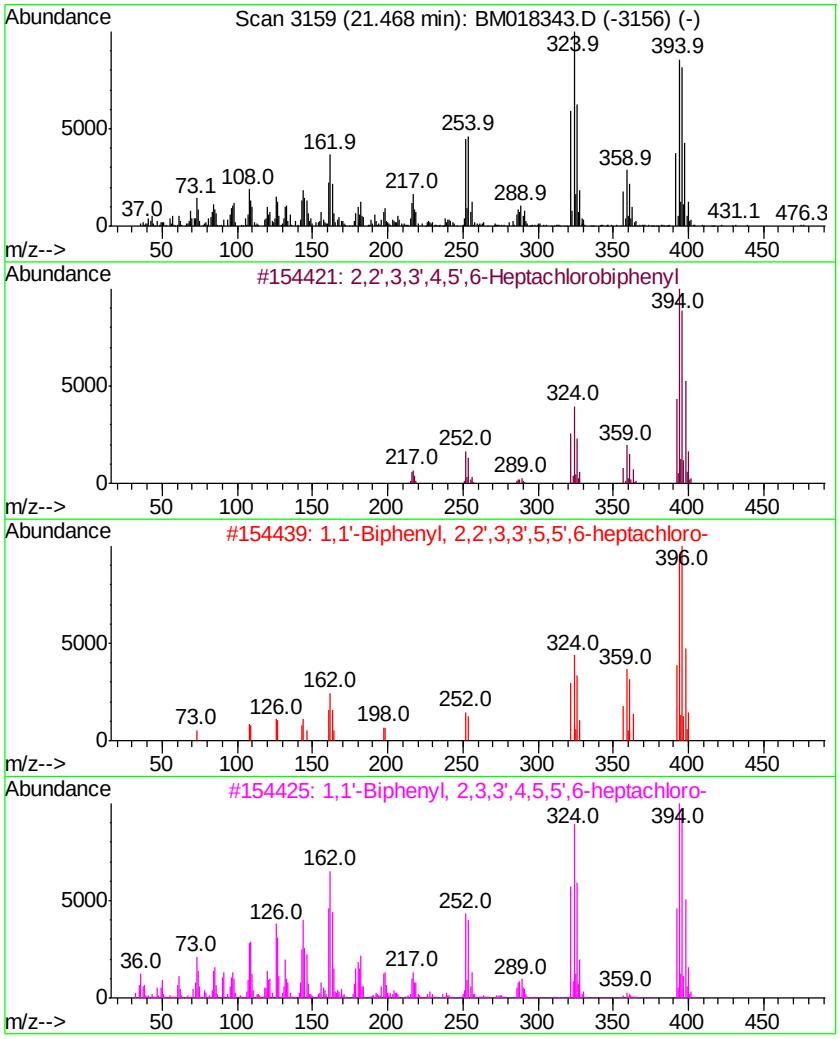
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

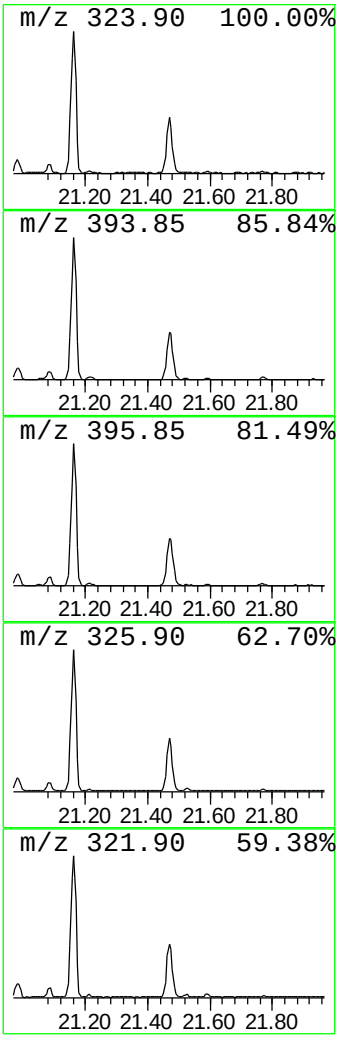
****

Peak Number 19 2,2',3,3',4,5',6-Heptachlor... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.47	13.59 ng	1341010	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2',3,3',4,5',6-Heptachlorobiph...	392	C12H3Cl7	040186-70-7	99
2	1,1'-Biphenyl, 2,2',3,3',5,5',6-...	392	C12H3Cl7	052663-67-9	99
3	1,1'-Biphenyl, 2,3,3',4,5,5',6-h...	392	C12H3Cl7	074472-51-8	99
4	1,1'-Biphenyl, 2,2',3,3',4,4',6-...	392	C12H3Cl7	052663-71-5	99
5	1,1'-Biphenyl, 2,2',3,4,5,5',6-h...	392	C12H3Cl7	052712-05-7	99





Library Search Compound Report

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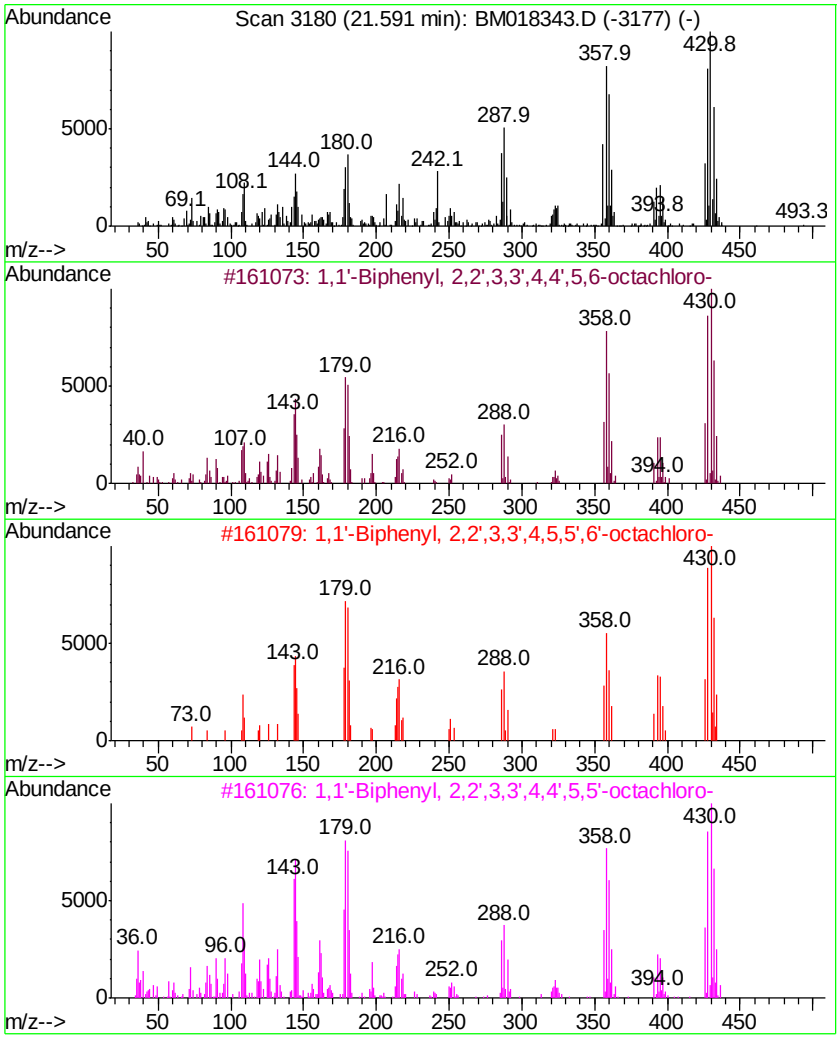
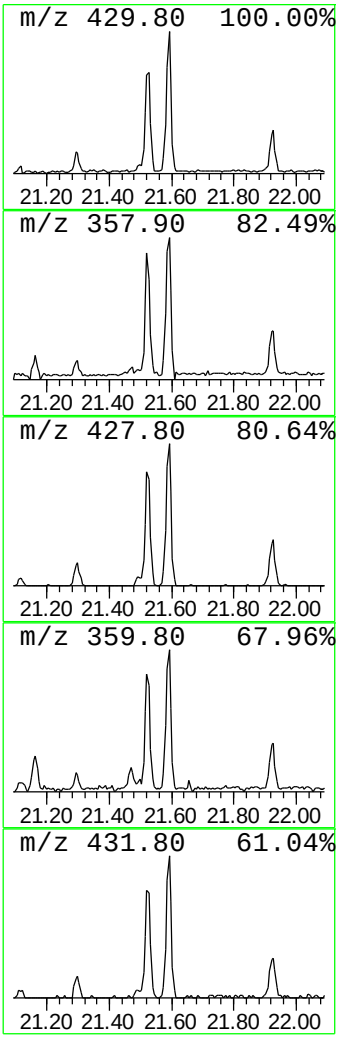
****

Peak Number 20 1,1'-Biphenyl, 2,2',3,3',4,... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.59	6.63 ng	654448	Chrysene-d12	21.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,2',3,3',4,4',5,...	426	C12H2Cl8	052663-78-2	99
2	1,1'-Biphenyl, 2,2',3,3',4,5,5',...	426	C12H2Cl8	052663-75-9	96
3	1,1'-Biphenyl, 2,2',3,3',4,4',5,...	426	C12H2Cl8	035694-08-7	91
4	1,1'-Biphenyl, 2,2',3,3',4,5',6,...	426	C12H2Cl8	040186-71-8	91
5	1,1'-Biphenyl, 2,2',3,3',4,4',5,...	426	C12H2Cl8	042740-50-1	91





Tentatively Identified Compound (LSC) summary

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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unknown17.10	17.10	5.2	ng	380336	4	16.91	1454860	20.0
n-Hexadecanoic acid	17.83	18.8	ng	1367210	4	16.91	1454860	20.0
1H-Cyclopropa[l]p...	17.98	6.2	ng	447647	4	16.91	1454860	20.0
1,1'-Biphenyl, 2,...	18.84	11.1	ng	810155	4	16.91	1454860	20.0
1,1'-Biphenyl, 2,...	19.13	12.7	ng	1249840	5	21.14	1973660	20.0
1,1'-Biphenyl, 2,...	19.70	11.2	ng	1105450	5	21.14	1973660	20.0
1,1'-Biphenyl, 2,...	19.75	5.6	ng	554910	5	21.14	1973660	20.0
1,1'-Biphenyl, 2,...	20.19	10.5	ng	1038920	5	21.14	1973660	20.0
1,1'-Biphenyl, 3,...	20.29	16.5	ng	1625320	5	21.14	1973660	20.0
1,1'-Biphenyl, 2,...	20.45	31.0	ng	3057850	5	21.14	1973660	20.0
1,1'-Biphenyl, 2,...	20.87	25.0	ng	2468470	5	21.14	1973660	20.0
1,1'-Biphenyl, 2,...	20.93	10.3	ng	1019200	5	21.14	1973660	20.0
2,2',3,3',4,5',6-...	21.47	13.6	ng	1341010	5	21.14	1973660	20.0
1,1'-Biphenyl, 2,...	21.59	6.6	ng	654448	5	21.14	1973660	20.0