LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM120717\
Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

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-BM113017.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	6.875	635	644	659	rVB	542740	999964	10.15%	0.961%
2	7.040	666	672	678	rVB	417545	625268	6.34%	0.601%
3	7.234	698	705	712	rBV	591679	922586	9.36%	0.887%
4	7.699	776	784	791	rBV	832230	1330934	13.50%	1.279%
5	8.405	897	904	912	rVB	660266	1055718	10.71%	1.015%
6	8.852	973	980	989	rBV	544766	882640	8.95%	0.848%
7	9.569	1095	1102	1107	rBV	455972	752124	7.63%	0.723%
8	10.104	1183	1193	1201	rBV	670647	1127540	11.44%	1.084%
9	10.481	1249	1257	1263	rBV	1007701	1692112	17.17%	1.627%
10	10.622	1270	1281	1287	rBV	335235	624432	6.34%	0.600%
11	12.145	1535	1540	1547	rVB	97211	157851	1.60%	0.152%
12	12.363	1571	1577	1586	rVB	109980	206605	2.10%	0.199%
13	13.169	1708	1714	1719	rBV	126374	193678	1.96%	0.186%
14	13.369	1741	1748	1750	rBV2	62467	99981	1.01%	0.096%
15	13.504	1764	1771	1777	rBV3	54659	143200	1.45%	0.138%
16	13.657	1789	1797	1802	rBV	132199	263816	2.68%	0.254%
17	13.751	1808	1813	1818	rVV	966026	1394620	14.15%	1.341%
18	13.798	1818	1821	1831	rVB	248581	358794	3.64%	0.345%
19	13.898	1831	1838	1841	rBV2	80119	146117	1.48%	0.140%
20	14.034	1850	1861	1873	rBV	1126617	1976918	20.06%	1.900%
21	14.245	1893	1897	1902	rVB	127181	159767	1.62%	0.154%
22	14.339	1904	1913	1919	rBV2	1246896	2094101	21.25%	2.013%
23	14.404	1919	1924	1932	rVB	522203	841610	8.54%	0.809%
24	14.551	1944	1949	1958	rBV2	429802	748150	7.59%	0.719%
25	14.651	1958	1966	1971	rBV3	100171	214763	2.18%	0.206%
26	14.698	1971	1974	1977	rVV5	61050	104205	1.06%	0.100%
27	14.739	1977	1981	1988	rVV2	236540	440757	4.47%	0.424%
28	15.204	2057	2060	2064	rVB	138666	179487	1.82%	0.173%
29	15.334	2077	2082	2087	rVB	1281720	1786520	18.13%	1.717%
30	15.392	2087	2092	2096	rBV	667688	923602	9.37%	0.888%
31	15.463	2096	2104	2110	rBV5	266731	546159	5.54%	0.525%
32	15.516	2110	2113	2116	rVV2	195493	251358	2.55%	0.242%
33	15.551	2116	2119	2124	rVB2	285571	385665	3.91%	0.371%
34	15.604	2124	2128	2131	rBV2	137307	181431	1.84%	0.174%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM120717\
Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

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-BM113017.M
Title : SVOA CALIBRATION

35	15.769	2151	2156	2159	rBV6	65074	115295	1.17%	0.111%
36	15.857	2169	2171	2175	rVB	81432	101781	1.03%	0.098%
37	15.939	2182	2185	2189	rVB2	83804	118159	1.20%	0.114%
38	16.069	2203	2207	2215	rVB3	233249	382292	3.88%	0.367%
39	16.375	2252	2259	2266	rBV4	294851	703331	7.14%	0.676%
40	16.445	2266	2271	2277	rBV3	287146	455046	4.62%	0.437%
41	16.545	2285	2288	2293	rVB3	138705	197567	2.00%	0.190%
42	16.598	2293	2297	2302	rBV4	103390	188312	1.91%	0.181%
43	16.657	2303	2307	2312	rVB3	142354	263788	2.68%	0.254%
44	16.745	2317	2322	2329	rVB	420600	622482	6.32%	0.598%
45	16.857	2334	2341	2345	rVB5	208882	379329	3.85%	0.365%
46	16.904	2345	2349	2354	rBV2	231462	380509	3.86%	0.366%
47	17.086	2375	2380	2383	rBV2	1251778	1797482	18.24%	1.728%
48	17.133	2383	2388	2393	rVV	6100813	8165268	82.84%	7.849%
49	17.186	2393	2397	2401	rVV	1378042	2041560	20.71%	1.962%
50	17.222	2401	2403	2408	rVB	502371	576135	5.85%	0.554%
51	17.280	2408	2413	2418	rBV2	197434	303320	3.08%	0.292%
52	17.398	2429	2433	2437	rVB3	142284	201459	2.04%	0.194%
53	17.492	2438	2449	2460	rBV	457450	861872	8.74%	0.828%
54	17.604	2463	2468	2473	rBV2	182520	340881	3.46%	0.328%
55	17.669	2476	2479	2483	rVB4	111449	148054	1.50%	0.142%
56	17.886	2512	2516	2519	rBV	96512	116708	1.18%	0.112%
57	17.963	2524	2529	2532	rVV	789458	1133847	11.50%	1.090%
58	18.010	2532	2537	2543	rVB2	995568	1913807	19.42%	1.840%
59	18.092	2548	2551	2556	rVV3	205153	352653	3.58%	0.339%
60	18.151	2556	2561	2566	rVV2	1245756	2239239	22.72%	2.153%
61	18.192	2566	2568	2575	rVB	570900	765529	7.77%	0.736%
62	18.286	2580	2584	2587	rBV3	149407	210294	2.13%	0.202%
63	18.469	2611	2615	2618	rBV	612734	771379	7.83%	0.742%
64	18.510	2618	2622	2626	rVB	908911	1197745	12.15%	1.151%
65	18.592	2633	2636	2642	rVB2	159817	222778	2.26%	0.214%
66	18.686	2649	2652	2654	rBV2	153619	174686	1.77%	0.168%
67	18.716	2654	2657	2660	rVB2	216431	258878	2.63%	0.249%
68	18.804	2669	2672	2676	rVB2	130938	159359	1.62%	0.153%
69	18.886	2682	2686	2690	rBV	584856	849822	8.62%	0.817%
70	18.933	2690	2694	2700	rVB4	228818	512485	5.20%	0.493%
71	19.027	2706	2710	2718	rBV2	456887	898467	9.12%	0.864%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM120717\
Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

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-BM113017.M
Title : SVOA CALIBRATION

72	19.151	2726	2731	2737	rVB	7228256	9856647	100.00%	9.475%
73	19.251	2745	2748	2749	rBV2	127069	121264	1.23%	0.117%
74	19.280	2749	2753	2760	rVB2	606091	823838	8.36%	0.792%
75	19.351	2762	2765	2769	rVV4	204369	270481	2.74%	0.260%
76	19.398	2770	2773	2776	rVB2	165997	195046	1.98%	0.187%
77	19.486	2783	2788	2790	rBV2	2367314	3403041	34.53%	3.271%
78	19.516	2790	2793	2801	rVV	6191456	8560208	86.85%	8.229%
79	19.592	2802	2806	2811	rVB3	293870	518217	5.26%	0.498%
80	19.692	2820	2823	2829	rVB	226517	336603	3.41%	0.324%
81	19.839	2843	2848	2854	rBV4	430232	1029166	10.44%	0.989%
82	20.010	2874	2877	2881	rVB	648582	812708	8.25%	0.781%
83	20.110	2891	2894	2898	rVB	425565	495861	5.03%	0.477%
84	20.168	2900	2904	2908	rVV	712828	960471	9.74%	0.923%
85	20.210	2908	2911	2915	rVB2	252188	322915	3.28%	0.310%
86	20.310	2924	2928	2932	rBV	798132	1035463	10.51%	0.995%
87	20.357	2932	2936	2939	rVV	633366	796309	8.08%	0.765%
88	20.757	3001	3004	3010	rVB	699994	966191	9.80%	0.929%
89	20.963	3037	3039	3042	rBV	323793	345985	3.51%	0.333%
90	21.004	3042	3046	3051	rVV3	907261	1454576	14.76%	1.398%
91	21.057	3052	3055	3061	rVB	680798	910975	9.24%	0.876%
92	21.268	3086	3091	3096	rBV3	2942029	6039583	61.27%	5.806%
93	21.315	3096	3099	3109	rVB	3011536	4035142	40.94%	3.879%
94	21.439	3117	3120	3123	rVB2	628694	692092	7.02%	0.665%
95	21.880	3192	3195	3201	rVB3	663133	1097427	11.13%	1.055%
96	22.851	3355	3360	3365	rBV2	2686975	5014502	50.87%	4.820%

Sum of corrected areas: 104028782

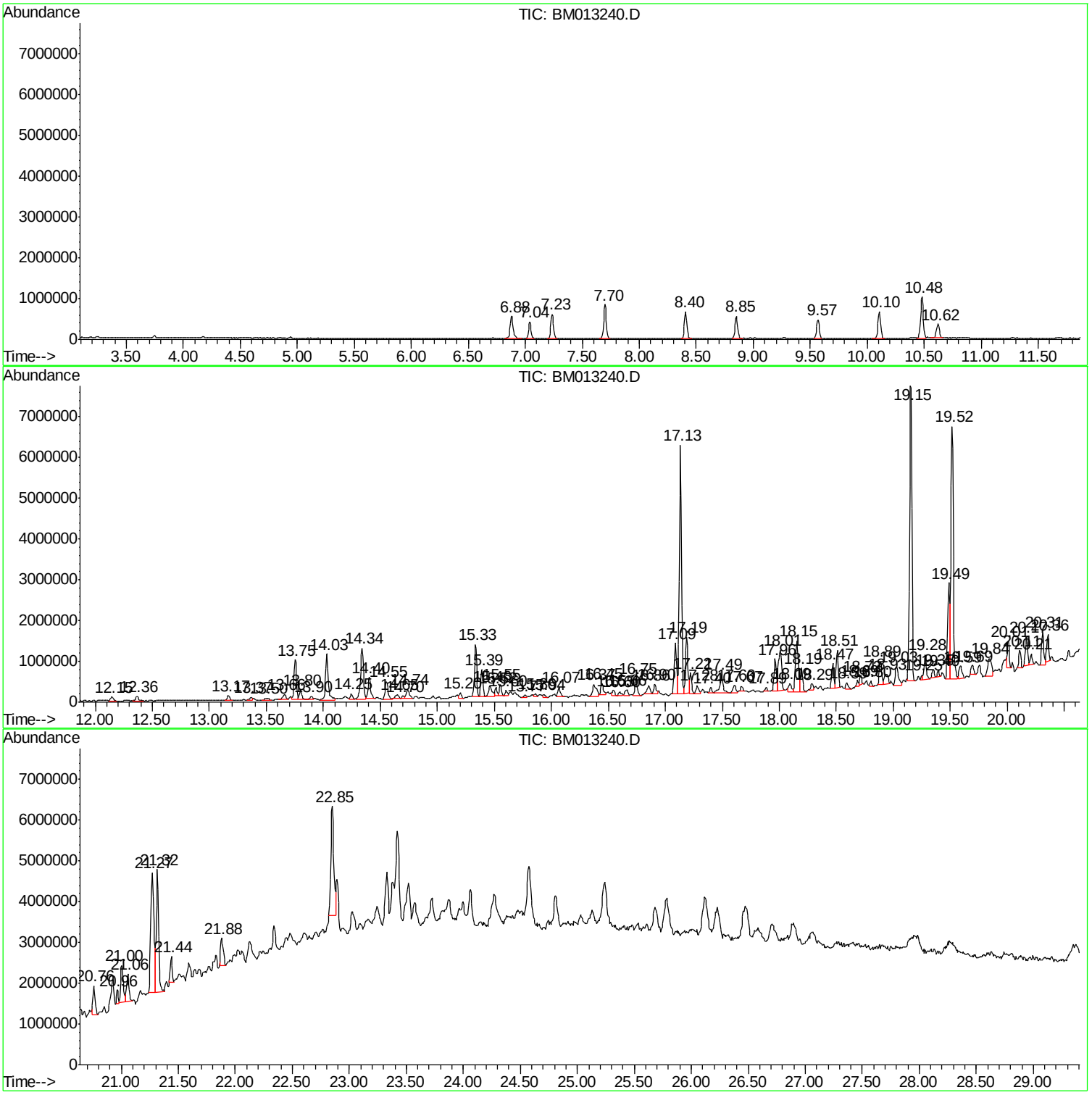
LSC Report - Integrated Chromatogram

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM120717\
Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.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\BM120717\
Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

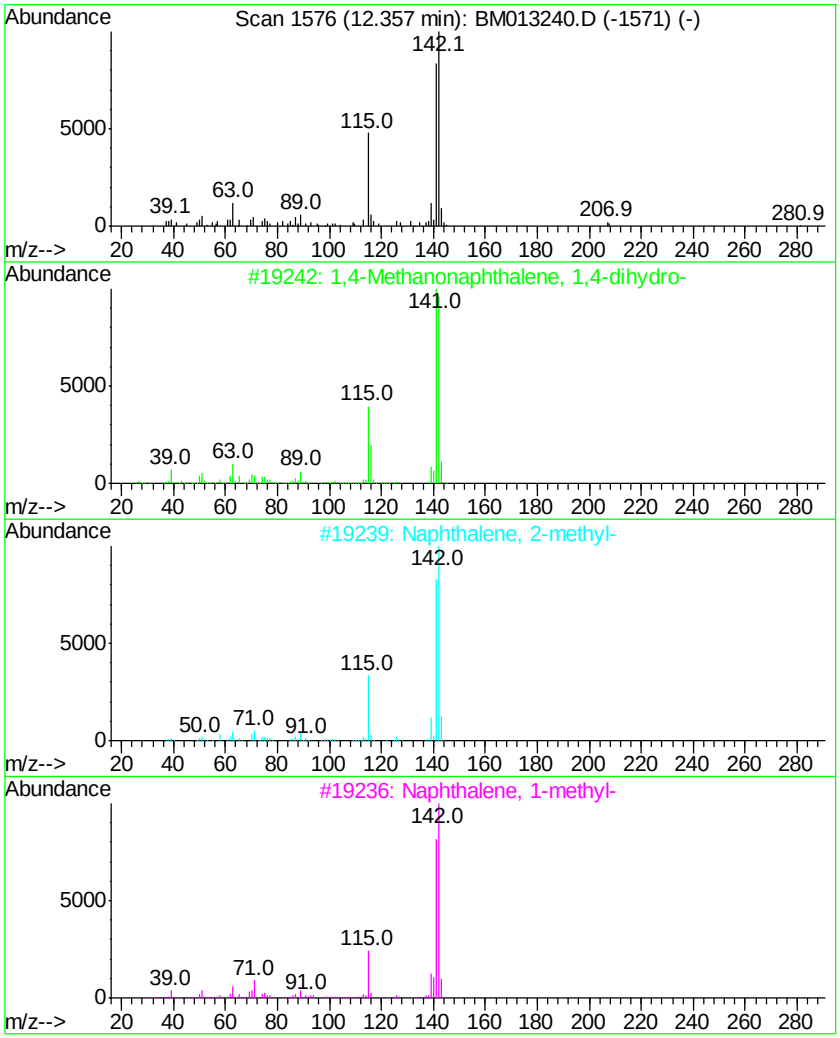
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

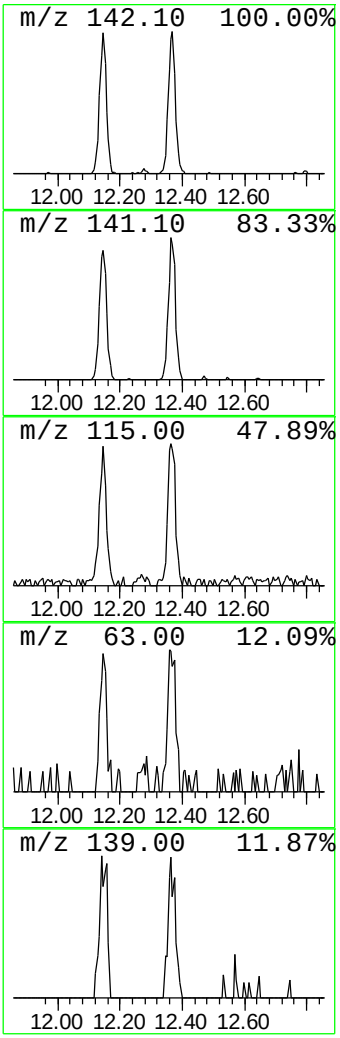
****

Peak Number 1 1,4-Methanonaphthalene, 1,4... Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	2.44 ng/ul	206605	Naphthalene-d8	10.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM120717\
Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

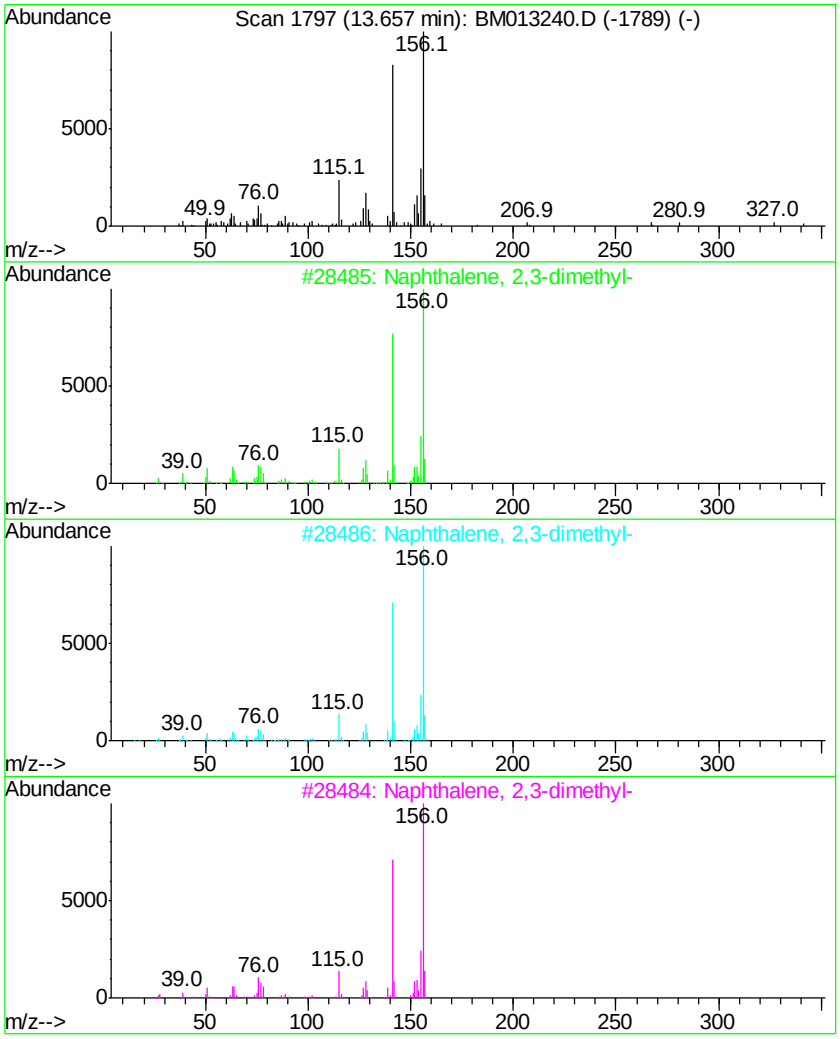
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

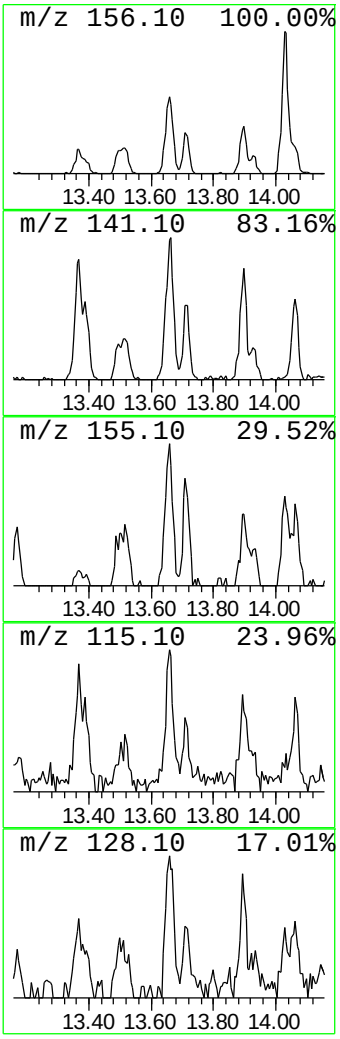
****

Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.66	2.52 ng/ul	263816	Acenaphthene-d10	14.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	93
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	93
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	93





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM120717\
Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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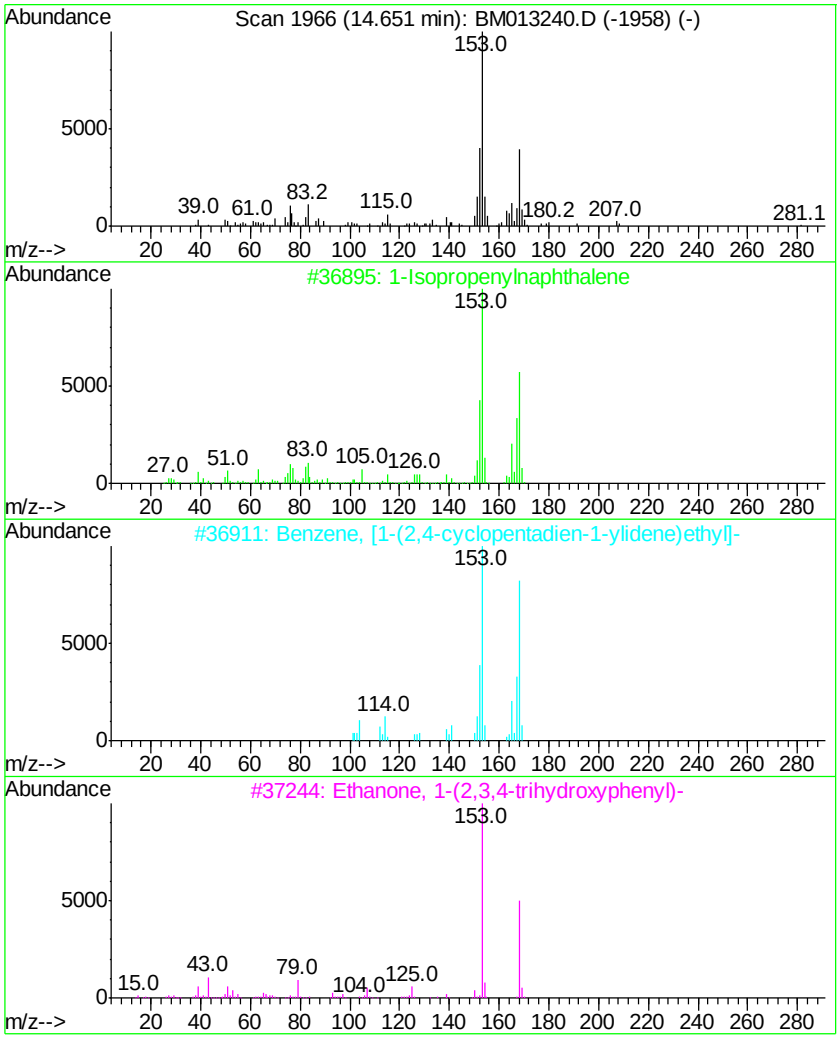
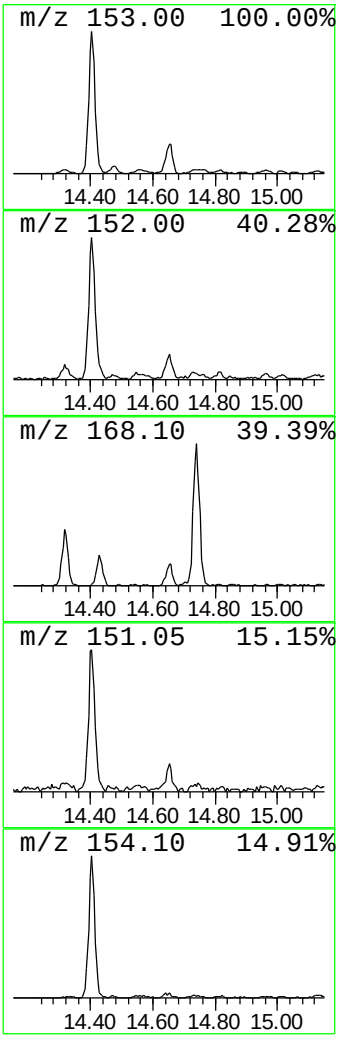
Peak Number 3 1-Isopropenylnaphthalene Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.65	2.05 ng/ul	214763	Acenaphthene-d10	14.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	81
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	72
3	Ethanone, 1-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	47
4	Benzeneacetonitrile, 3,4-difluoro-	153	C8H5F2N	000658-99-1	46
5	Thieno[2,3-b]thiophene, 2-ethyl-	168	C8H8S2	005912-01-6	40





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM120717\
Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

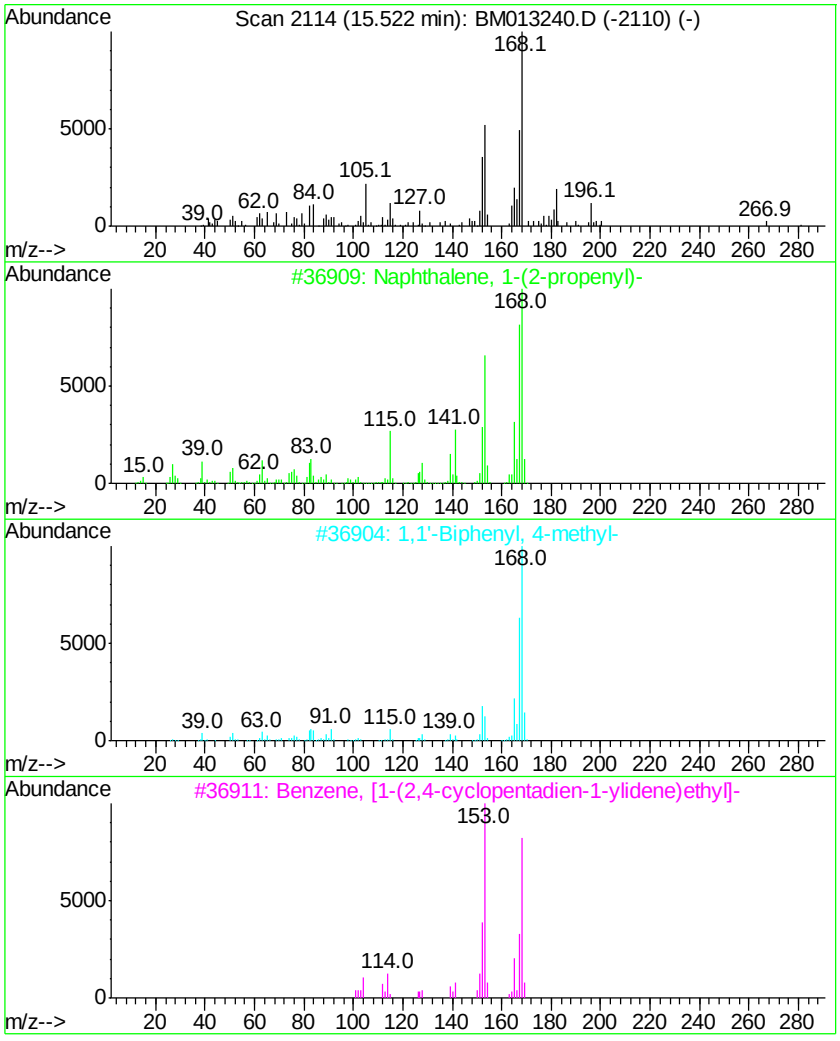
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

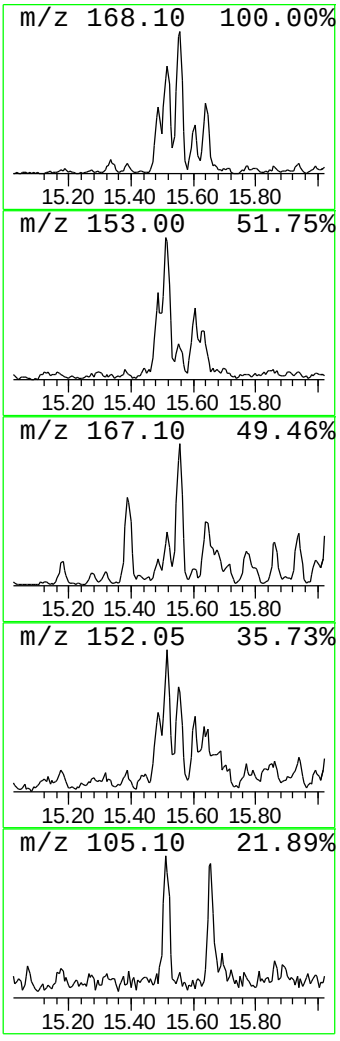
****

Peak Number 4 Naphthalene, 1-(2-propenyl)- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.52	2.40 ng/ul	251358	Acenaphthene-d10	14.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	62
2	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	60
3	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	50
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	38
5	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	38





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM120717\
Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

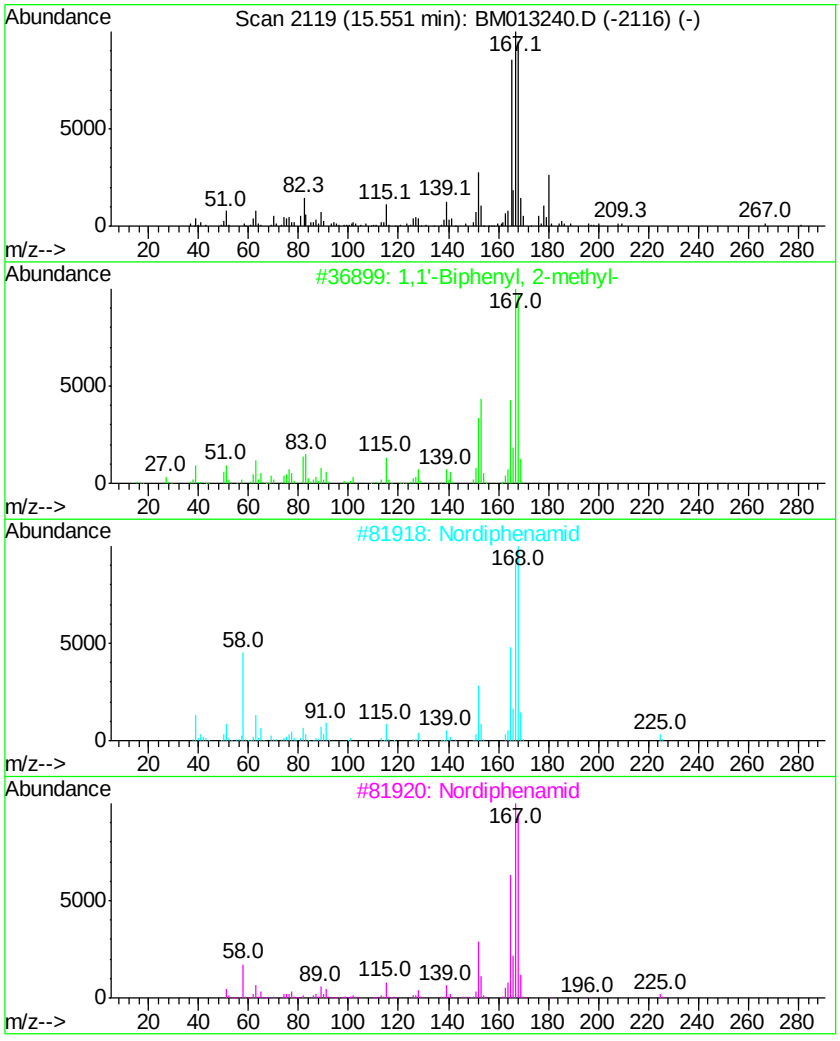
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

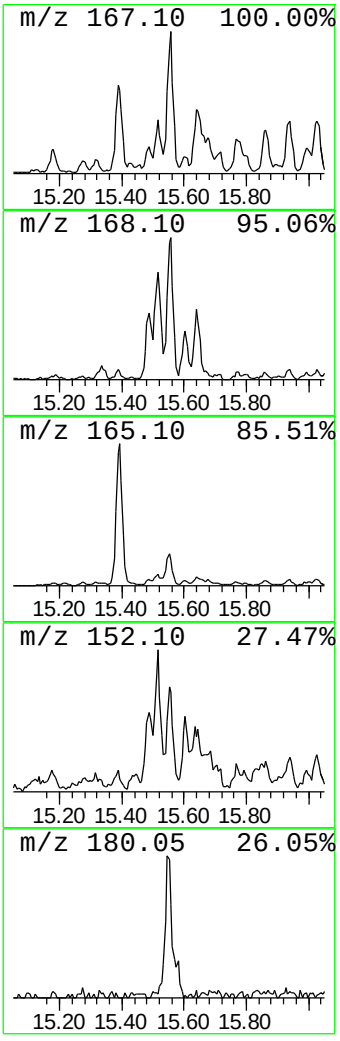
****

Peak Number 5 1,1'-Biphenyl, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	3.68 ng/ul	385665	Acenaphthene-d10	14.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	78
2	Nordiphenamid	225	C15H15NO	000954-21-2	64
3	Nordiphenamid	225	C15H15NO	000954-21-2	64
4	Diphenylmethane	168	C13H12	000101-81-5	60
5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	60





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Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

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Quant Title : SVOA CALIBRATION

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

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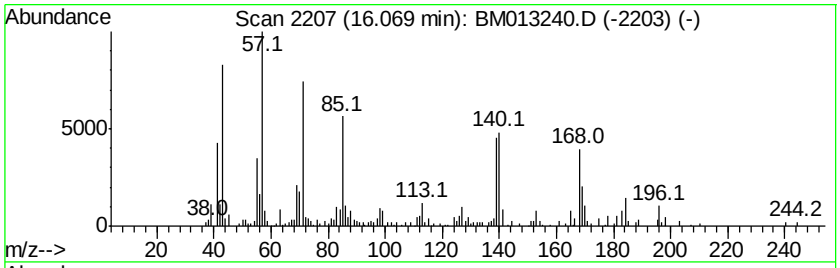
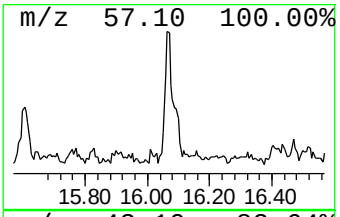
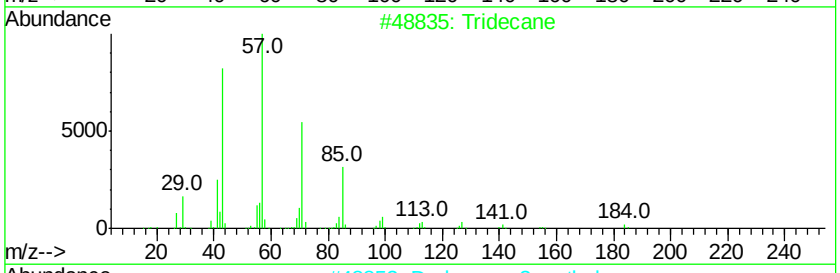
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 14

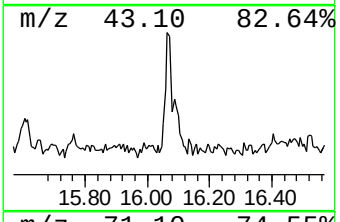
R.T.	EstConc	Area	Relative to ISTD	R.T.
16.07	4.25 ng/ul	382292	Phenanthrene-d10	17.09

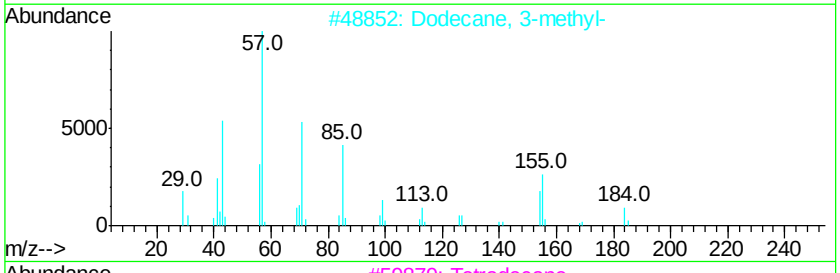
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	60
2	Dodecane, 3-methyl-	184	C13H28	017312-57-1	46
3	Tetradecane	198	C14H30	000629-59-4	46
4	Tridecane	184	C13H28	000629-50-5	46
5	Tetradecane	198	C14H30	000629-59-4	42

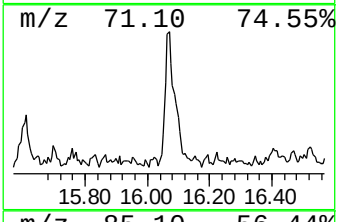


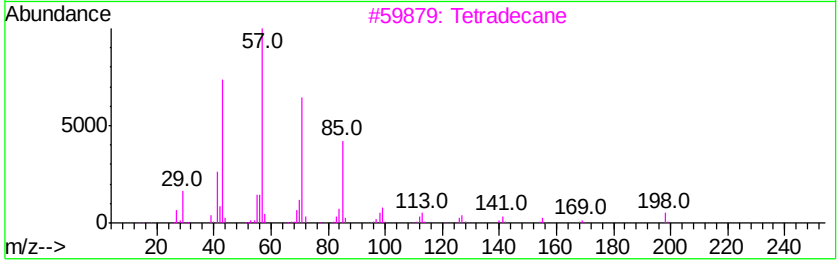


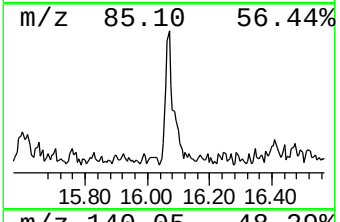


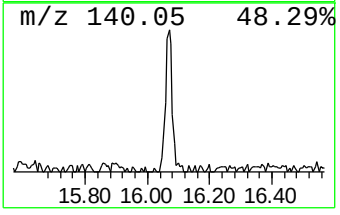












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Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

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Quant Title : SVOA CALIBRATION

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

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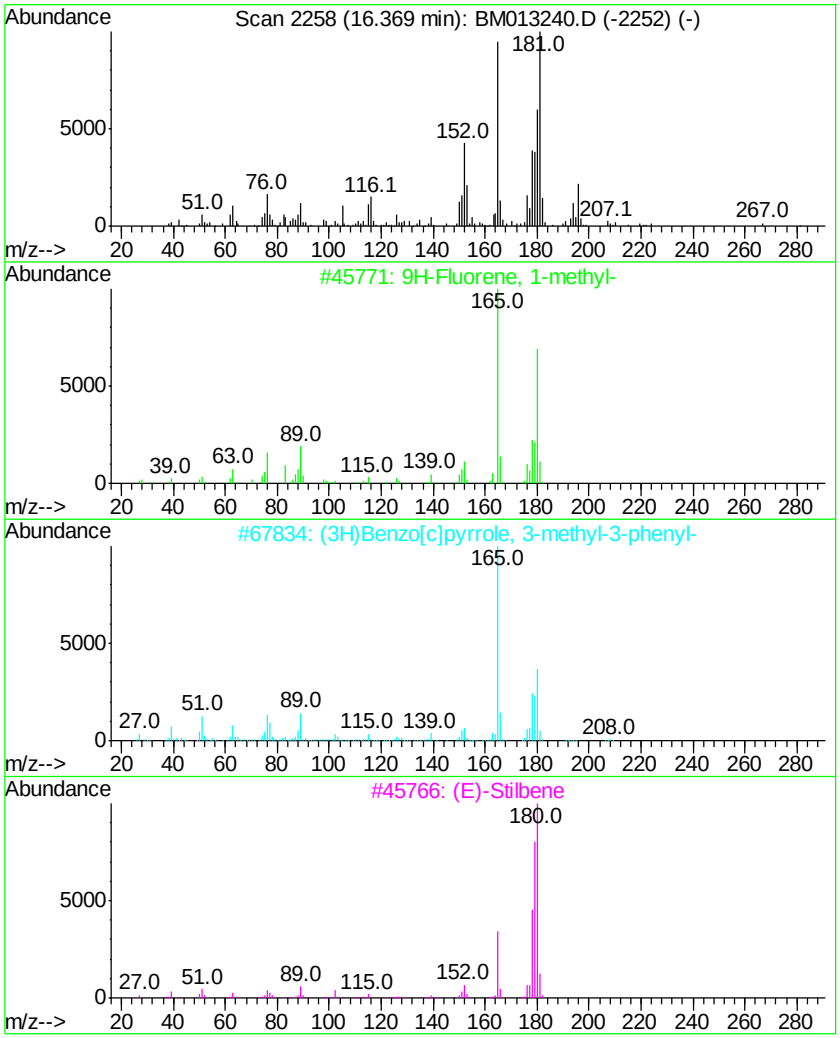
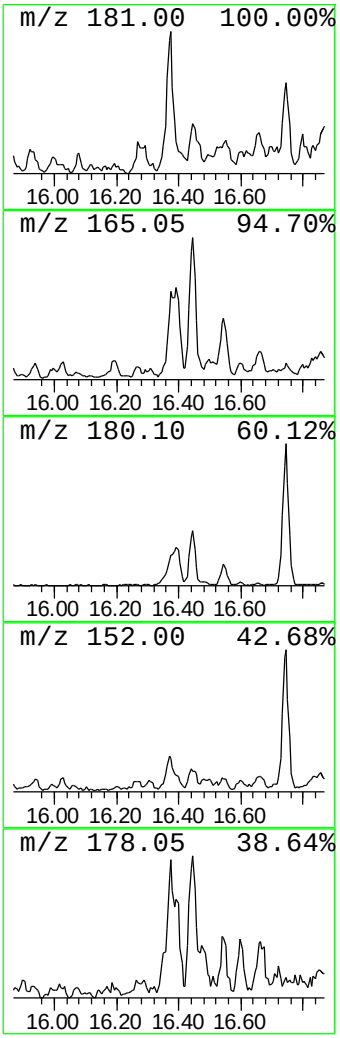
Peak Number 7 9H-Fluorene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.37	7.83 ng/ul	703331	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	86
2	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	60
3	(E)-Stilbene	180	C14H12	000103-30-0	50
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	46
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	46





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Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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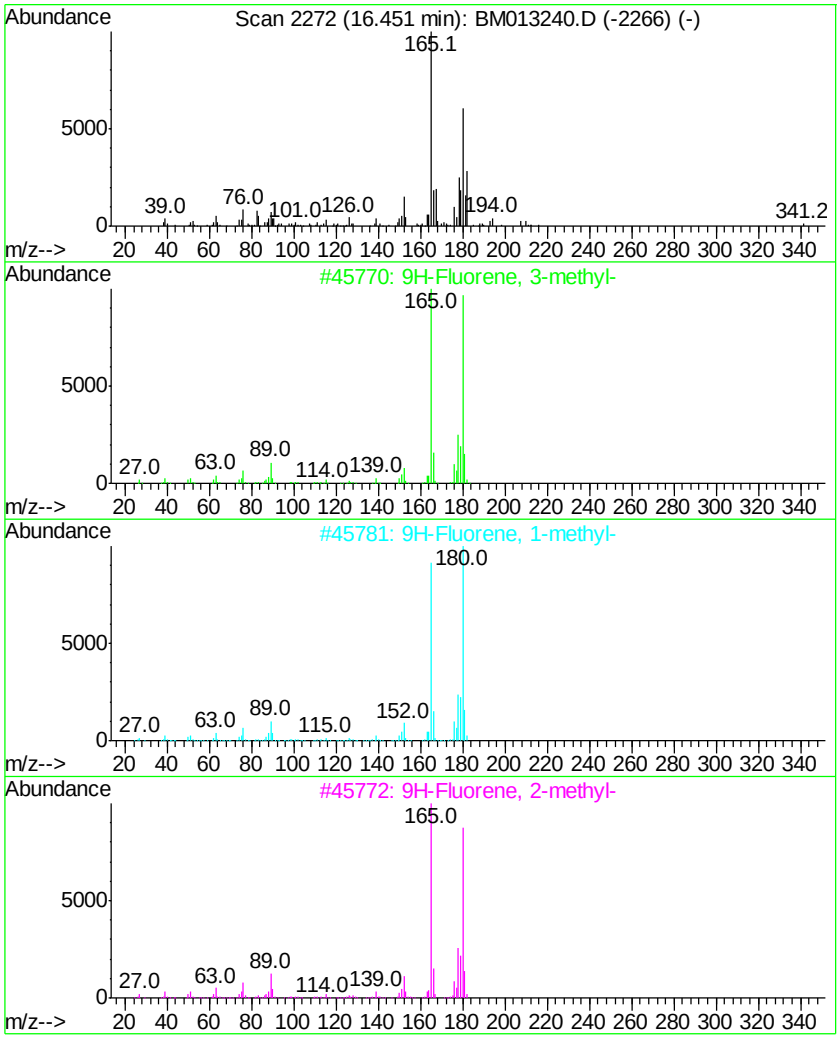
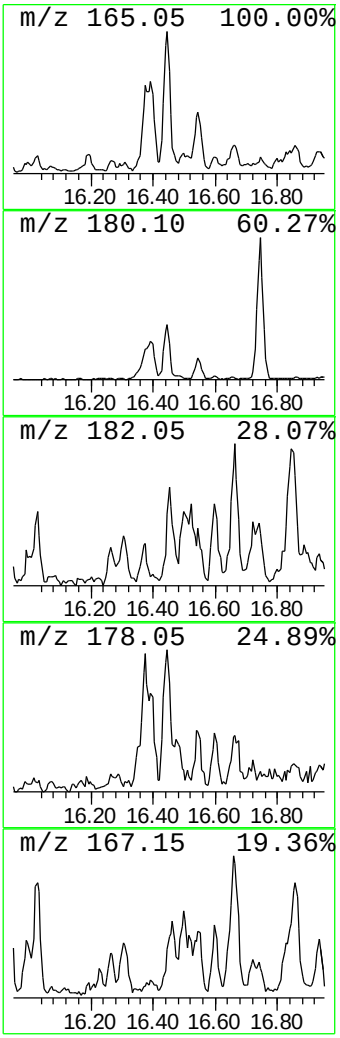
Peak Number 8 9H-Fluorene, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.45	5.06 ng/ul	455046	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	89
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	86
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	70





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Quant Title : SVOA CALIBRATION

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

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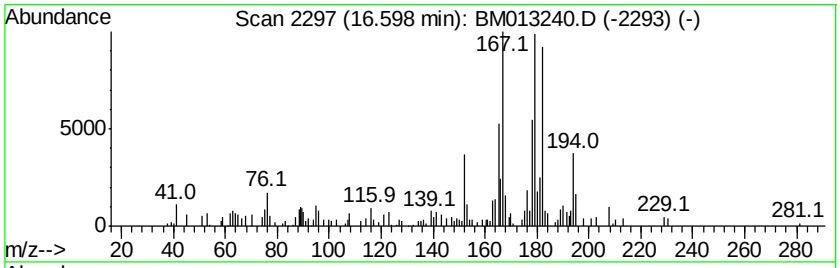
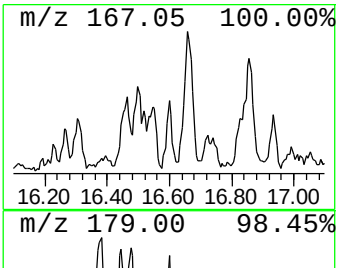
Peak Number 10 1,1'-Biphenyl, 2,3'-dimethyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.60	2.10 ng/ul	188312	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,3'-dimethyl-	182	C14H14	000611-43-8	78
2	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	60
3	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	60
4	1,1'-Biphenyl, 2,4'-dimethyl-	182	C14H14	000611-61-0	60
5	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	55





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Quant Title : SVOA CALIBRATION

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

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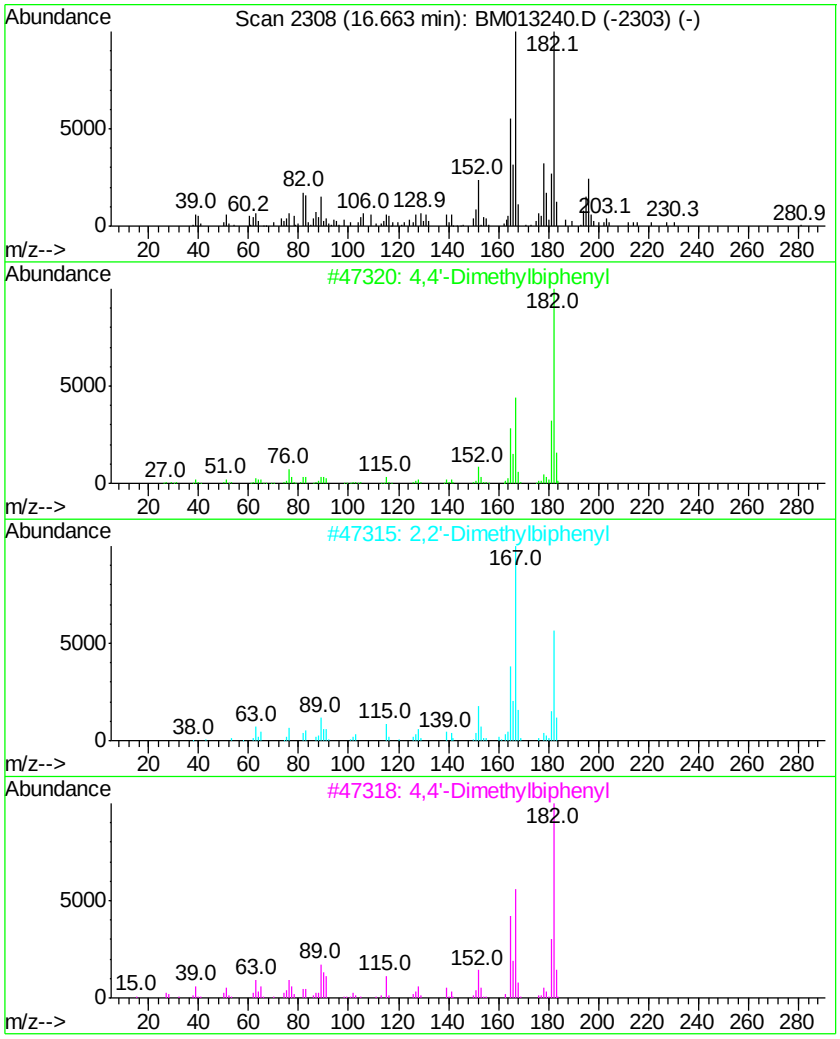
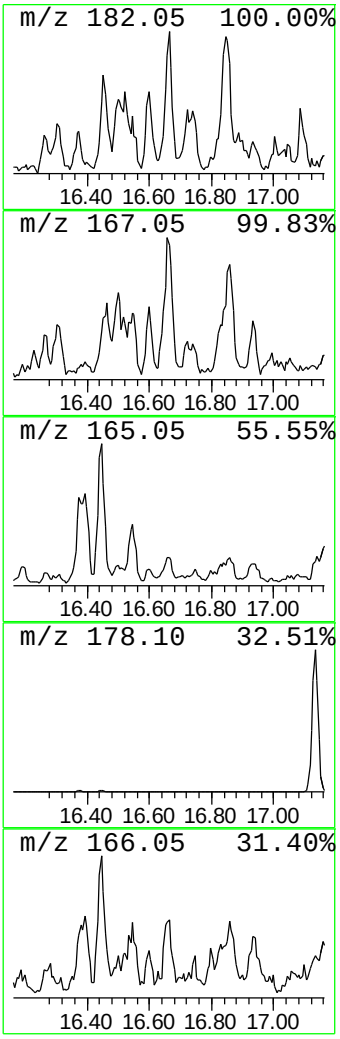
Peak Number 11 4,4'-Dimethylbiphenyl Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.66	2.94 ng/ul	263788	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	91
2	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	90
3	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	87
4	1,1'-Biphenyl, 2,4'-dimethyl-	182	C14H14	000611-61-0	80
5	Benzene, 1-methyl-3-(phenylmethyl)-	182	C14H14	000620-47-3	76





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Misc :
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Quant Title : SVOA CALIBRATION

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

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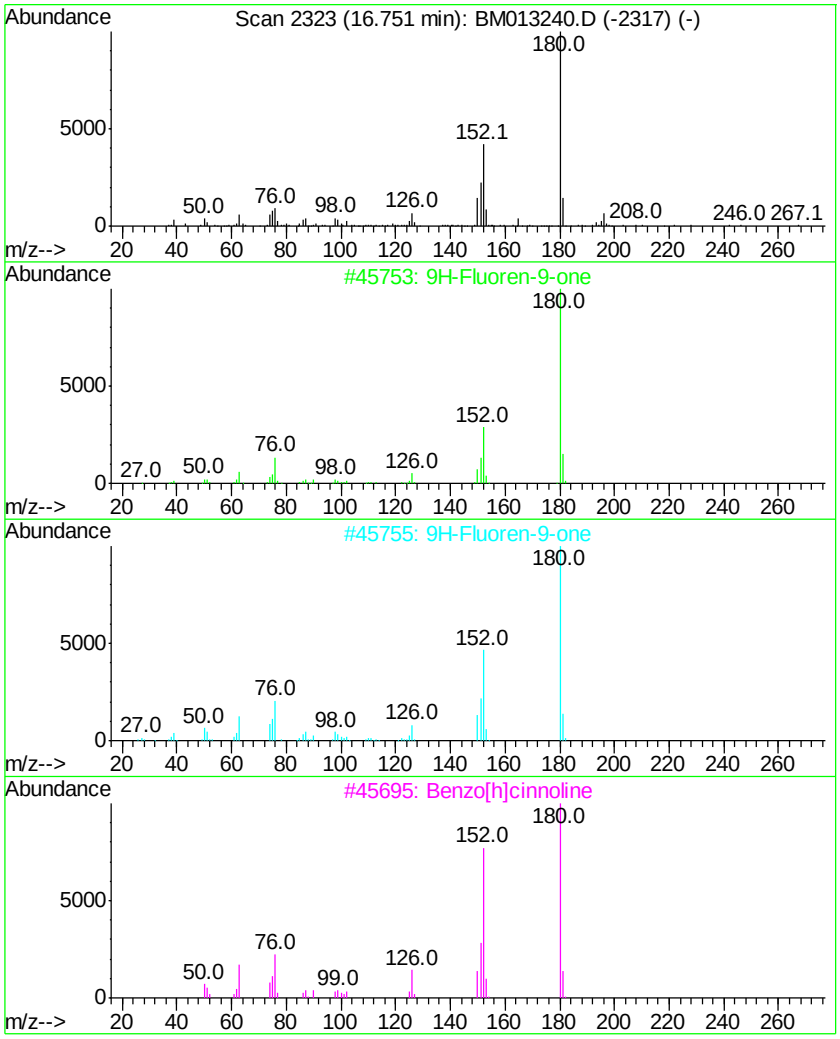
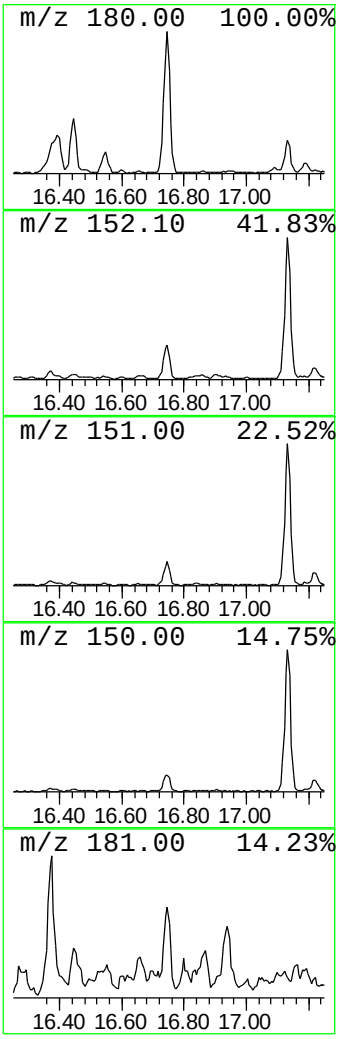
Peak Number 12 9H-Fluoren-9-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.75	6.93 ng/ul	622482	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
3	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	83
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81





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TIC Integration Parameters: LSCINT.P

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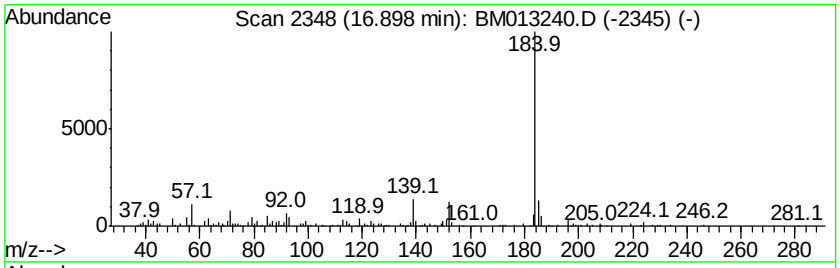
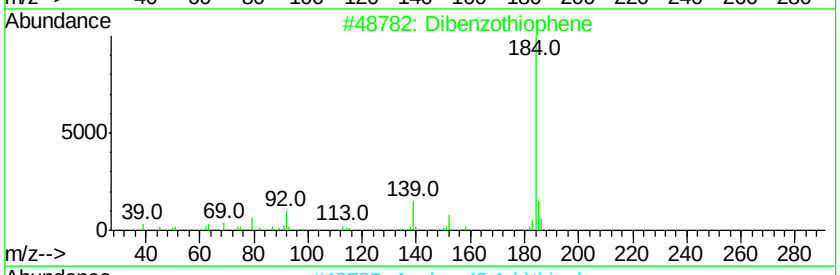
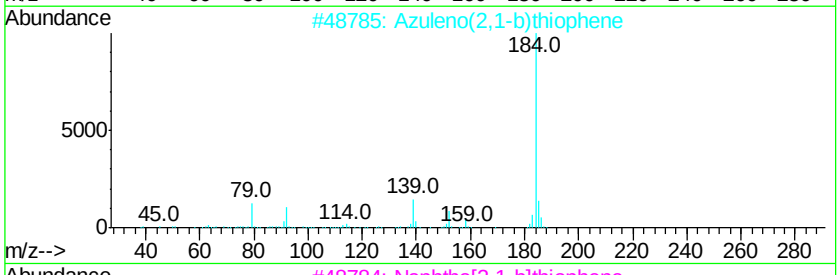
Peak Number 14 Dibenzothiophene Concentration Rank 15

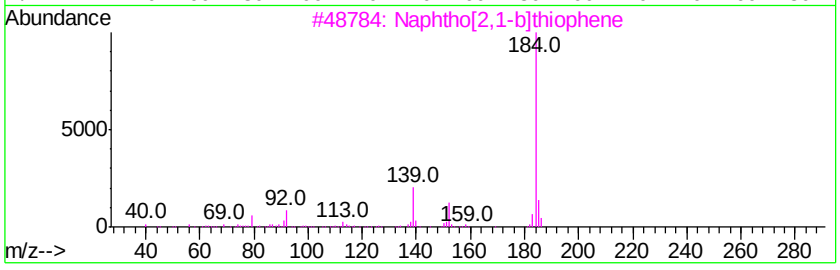
R.T.	EstConc	Area	Relative to ISTD	R.T.
16.90	4.23 ng/ul	380509	Phenanthrene-d10	17.09

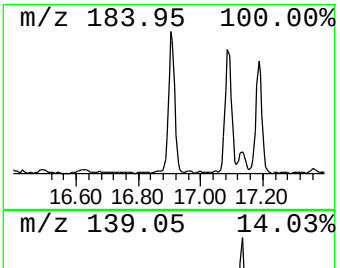
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	90
2	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	90
4	Dibenzothiophene	184	C12H8S	000132-65-0	90
5	Dibenzothiophene	184	C12H8S	000132-65-0	87

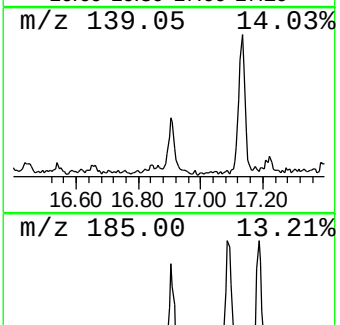


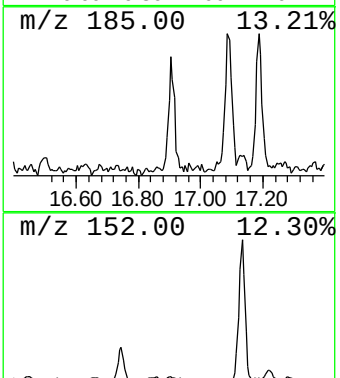


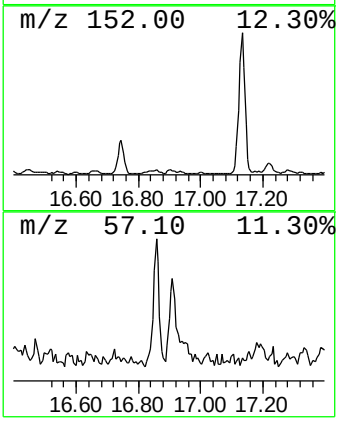












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Sample : I6647-02
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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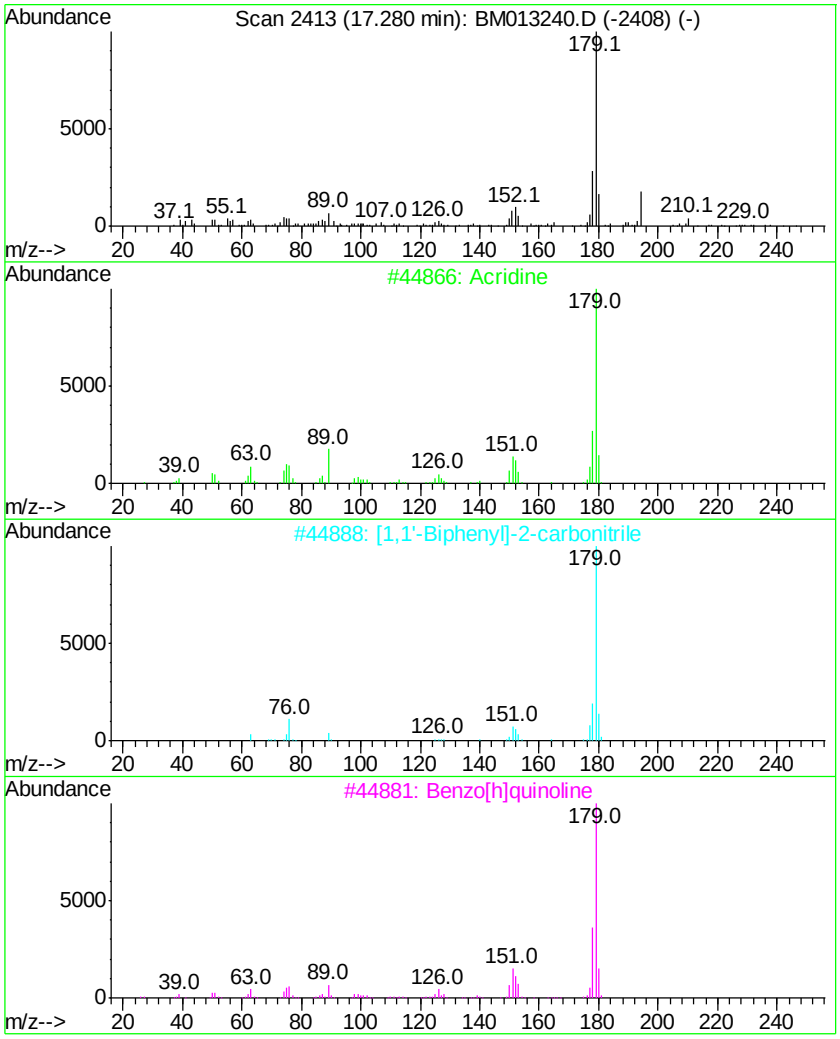
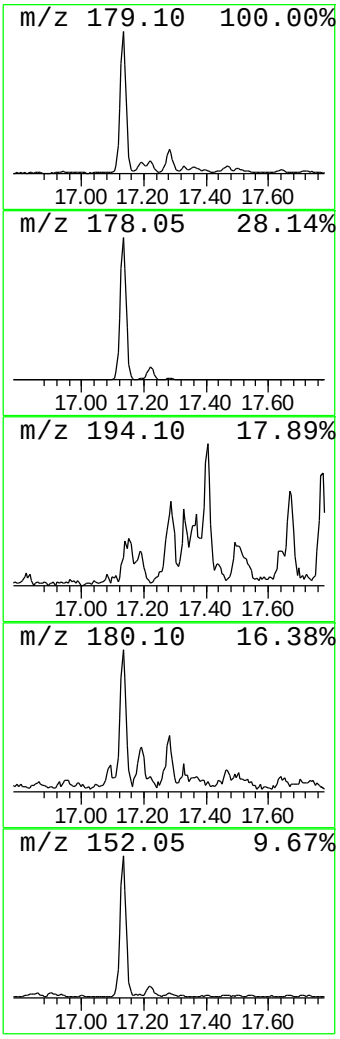
Peak Number 15 Acridine Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.28	3.37 ng/ul	303320	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	87
2	[1,1'-Biphenyl]-2-carbonitrile	179	C13H9N	024973-49-7	87
3	Benzo[h]quinoline	179	C13H9N	000230-27-3	87
4	9H-Fluorene, 9,9-dimethyl-	194	C15H14	004569-45-3	86
5	Benzo[h]isoquinoline	179	C13H9N	000229-71-0	83





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

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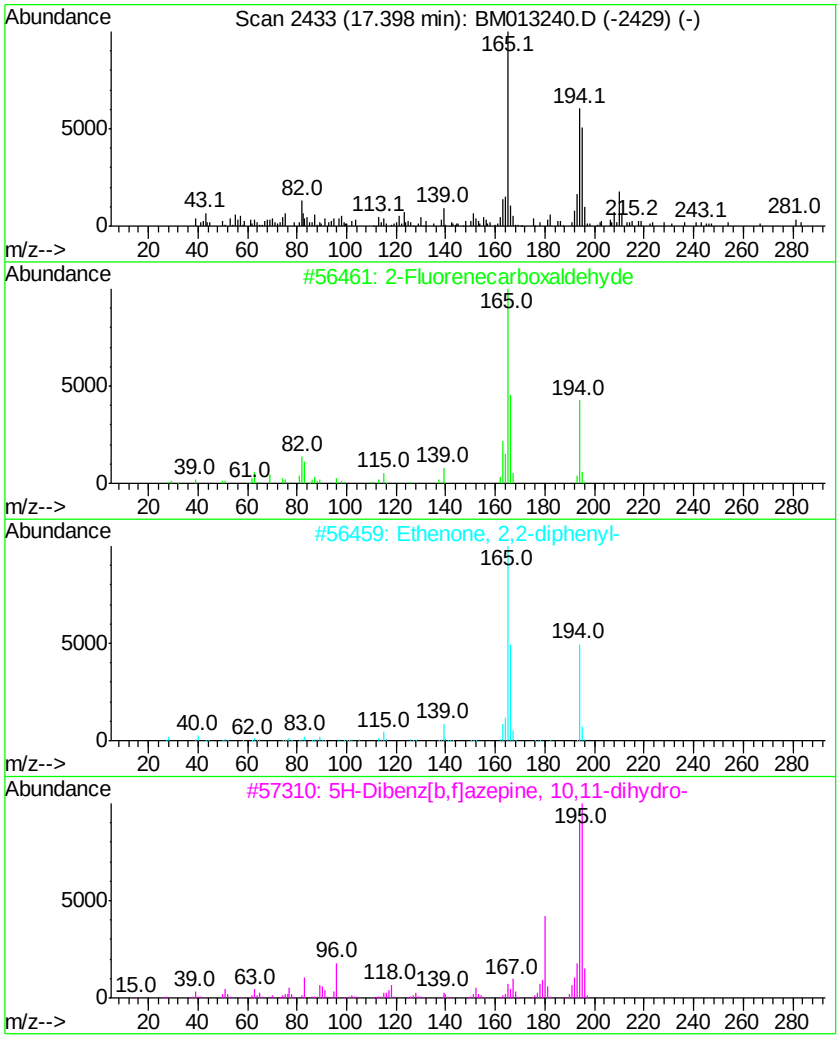
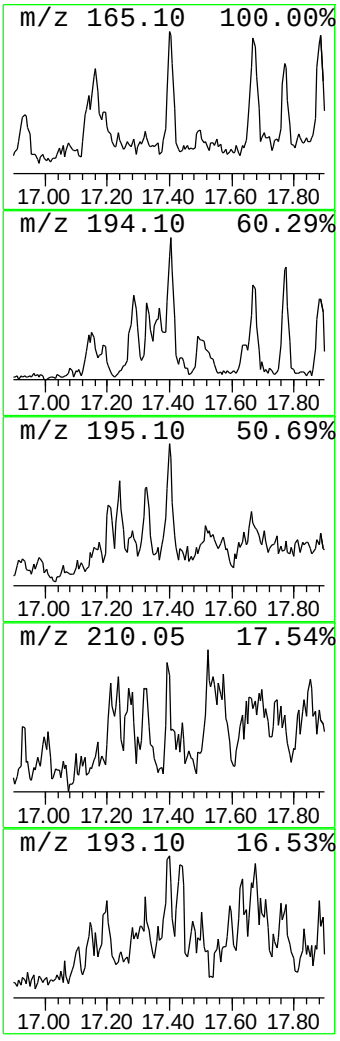
Peak Number 16 unknown-01 Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.40	2.24 ng/ul	201459	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Fluorenecarboxaldehyde	194	C14H10O	030084-90-3	49
2	Ethenone, 2,2-diphenyl-	194	C14H10O	000525-06-4	49
3	5H-Dibenz[b,f]azepine, 10,11-dih...	195	C14H13N	000494-19-9	45
4	9H-Fluorene-9-carboxylic acid	210	C14H10O2	001989-33-9	35
5	3-(2,4-Dimethoxyphenyl)butan-2-one	208	C12H16O3	1000191-49-6	30





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Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

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Quant Title : SVOA CALIBRATION

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

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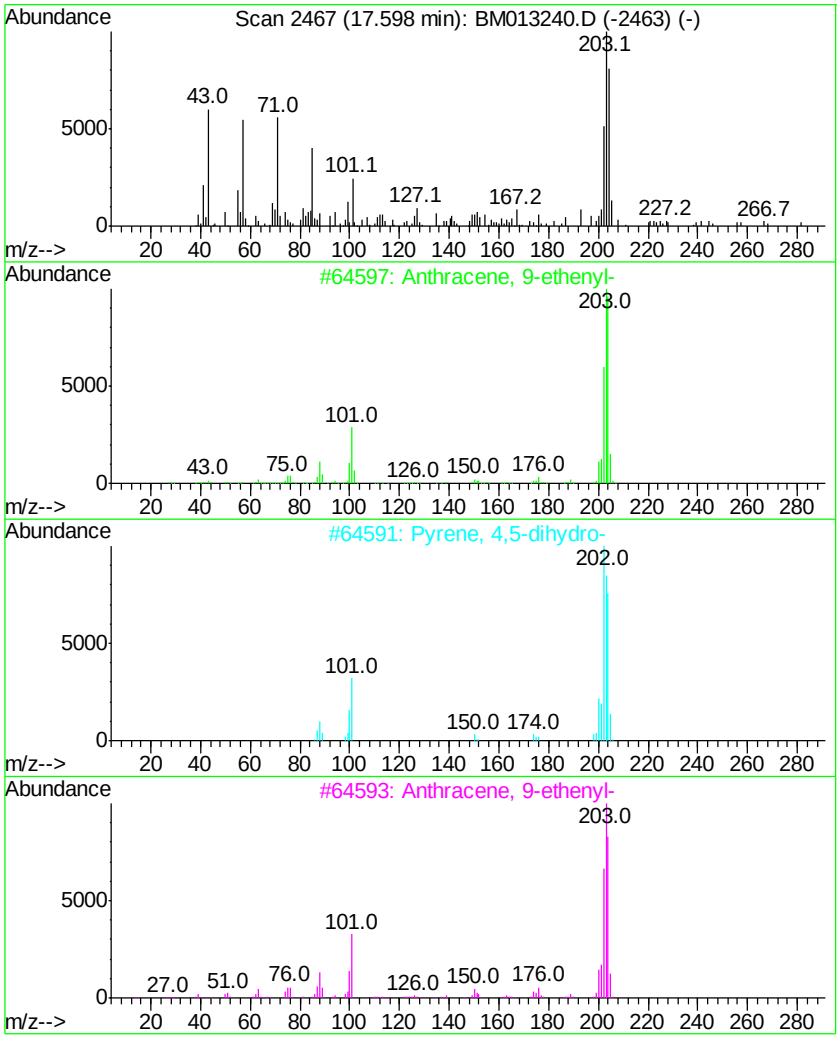
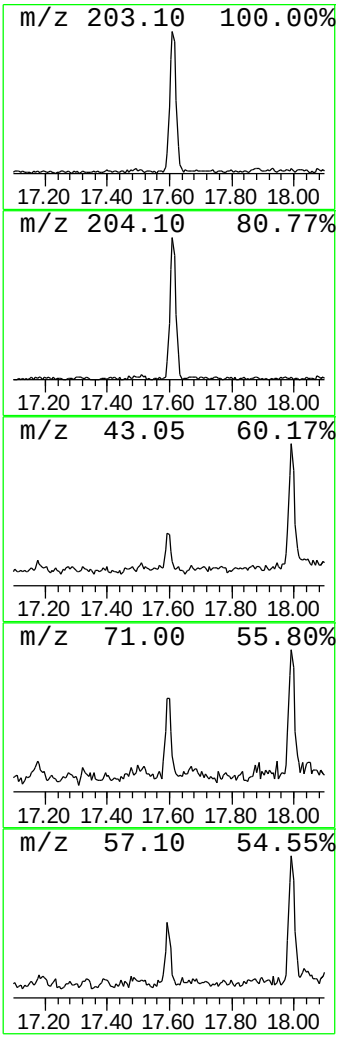
Peak Number 17 Anthracene, 9-ethenyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.60	3.79 ng/ul	340881	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	89
2	Pyrene, 4,5-dihydro-	204	C16H12	006628-98-4	76
3	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	76
4	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	76
5	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	68





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ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

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Quant Title : SVOA CALIBRATION

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

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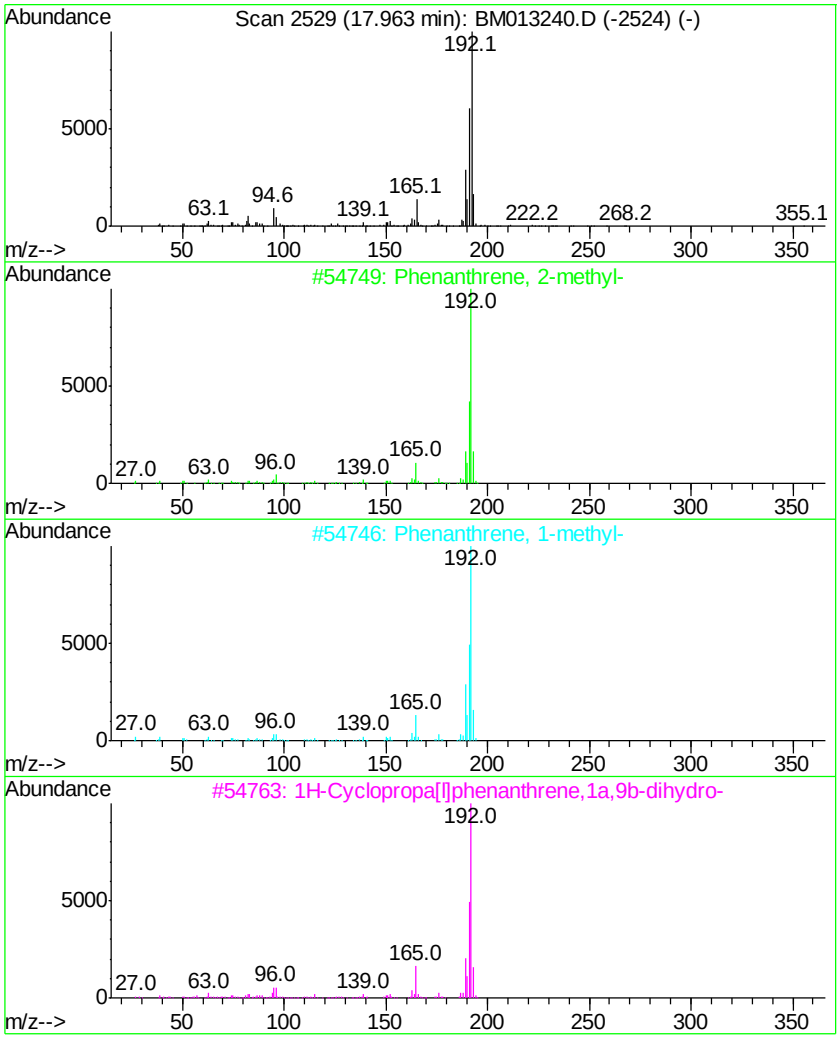
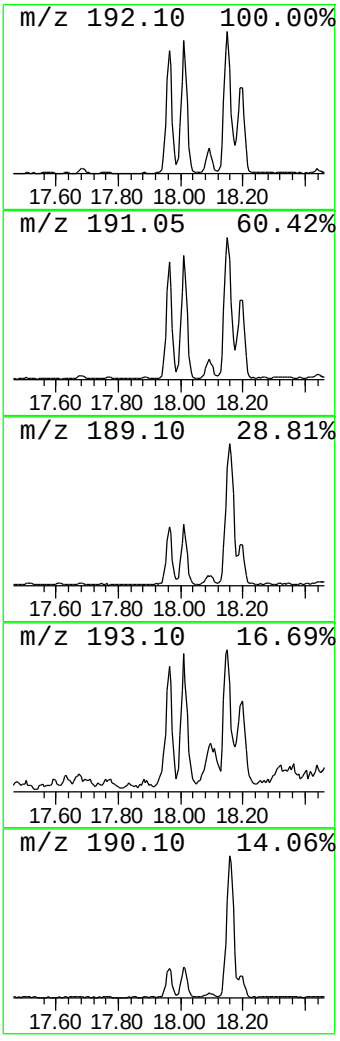
Peak Number 18 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.96	12.62 ng/ul	1133850	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





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Instrument : BNA_M
ClientSampleId : C0248

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Quant Title : SVOA CALIBRATION

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

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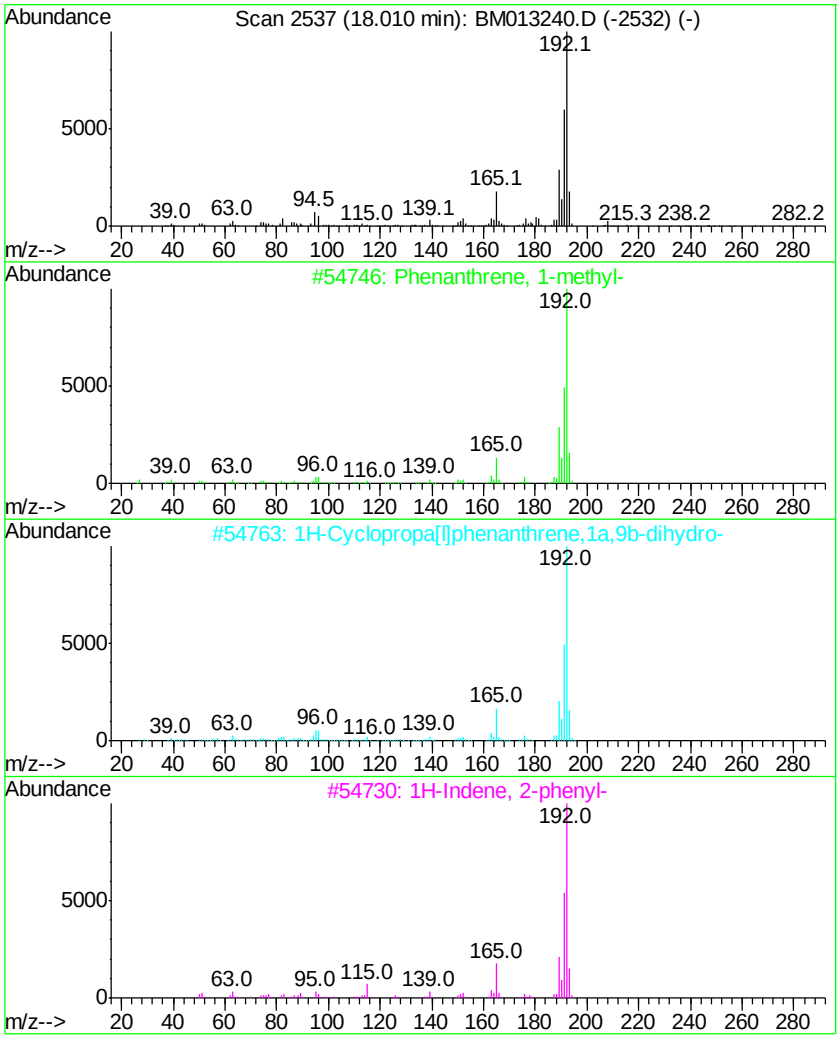
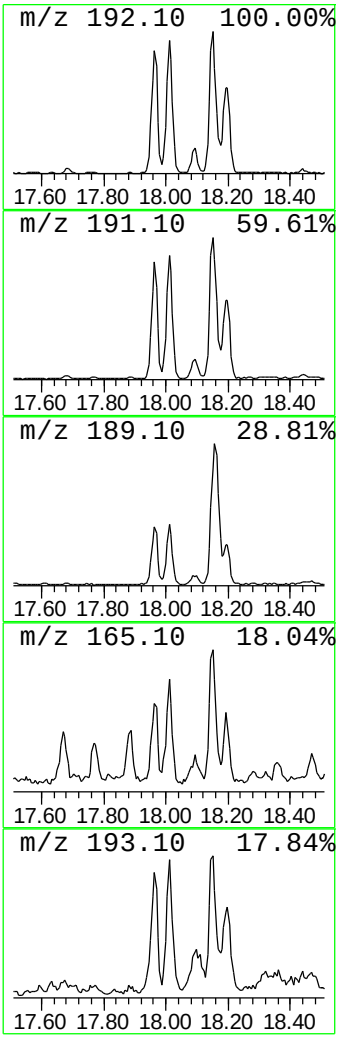
Peak Number 19 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.01	21.29 ng/ul	1913810	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





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Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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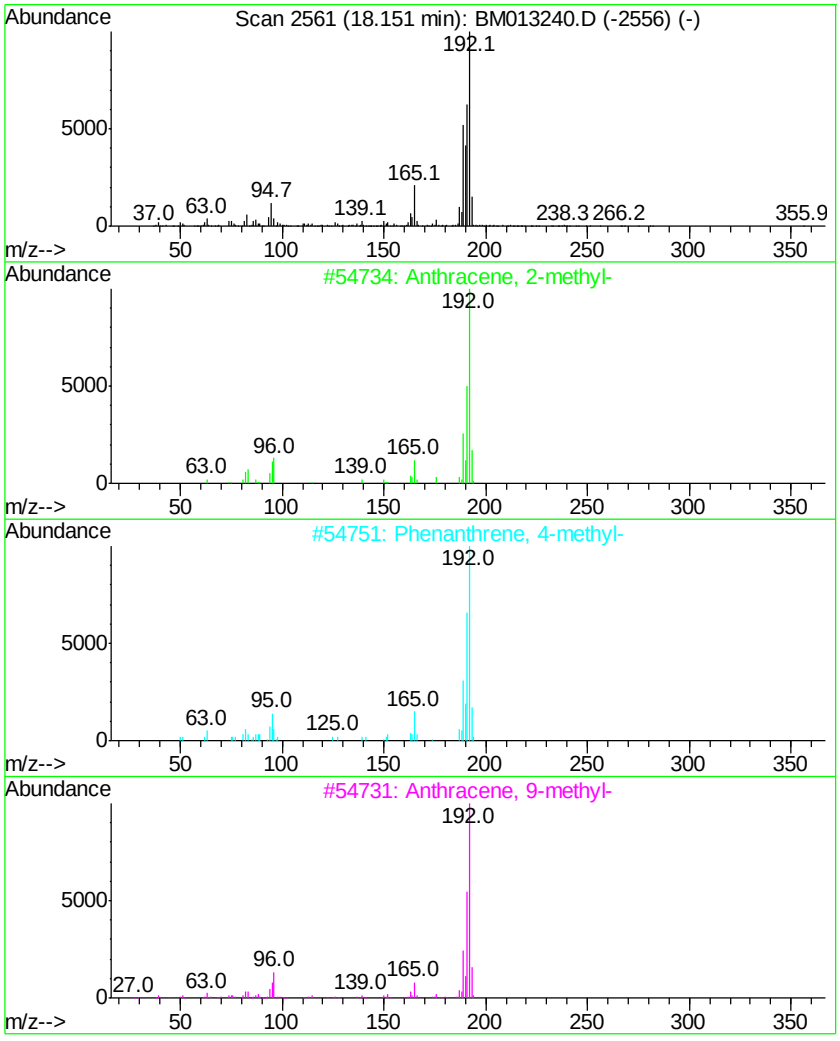
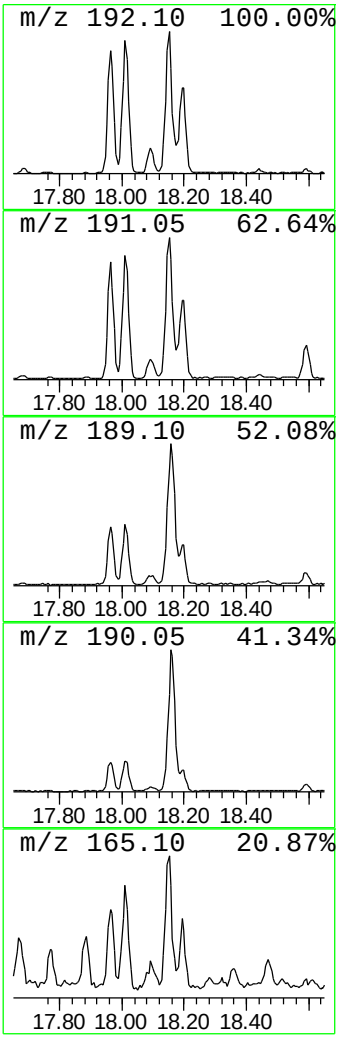
Peak Number 21 Anthracene, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	24.92 ng/ul	2239240	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	64
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	64
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	64
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60





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Instrument : BNA_M
ClientSampleId : C0248

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Quant Title : SVOA CALIBRATION

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

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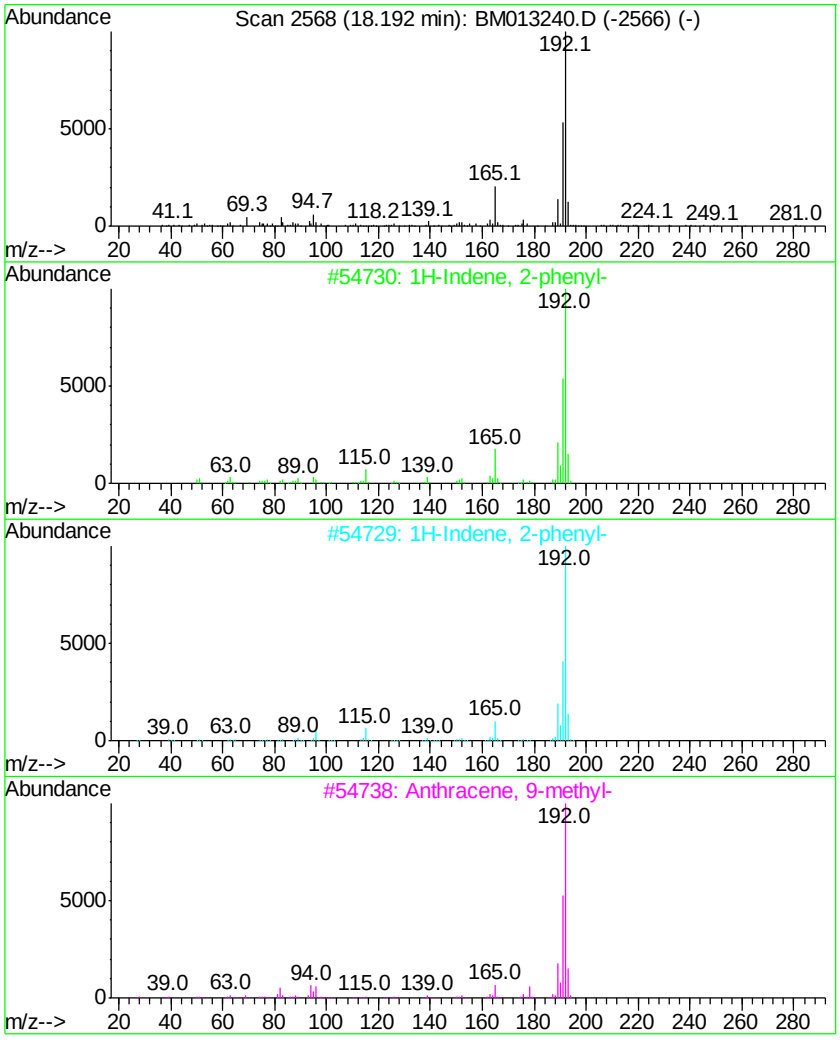
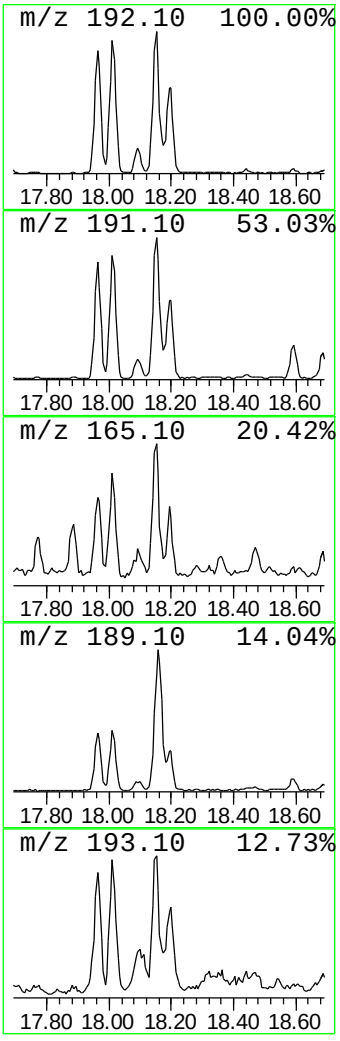
Peak Number 22 1H-Indene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	8.52 ng/ul	765529	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	81
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	74
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	74





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Instrument : BNA_M
ClientSampleId : C0248

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Quant Title : SVOA CALIBRATION

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

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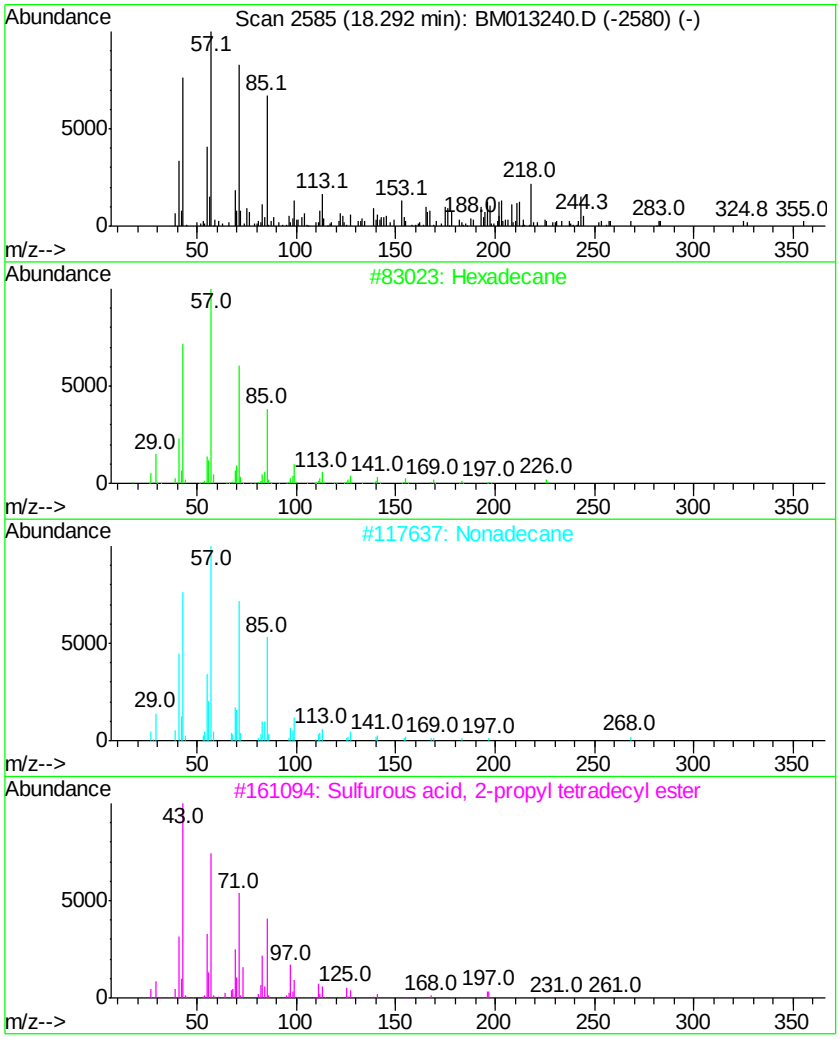
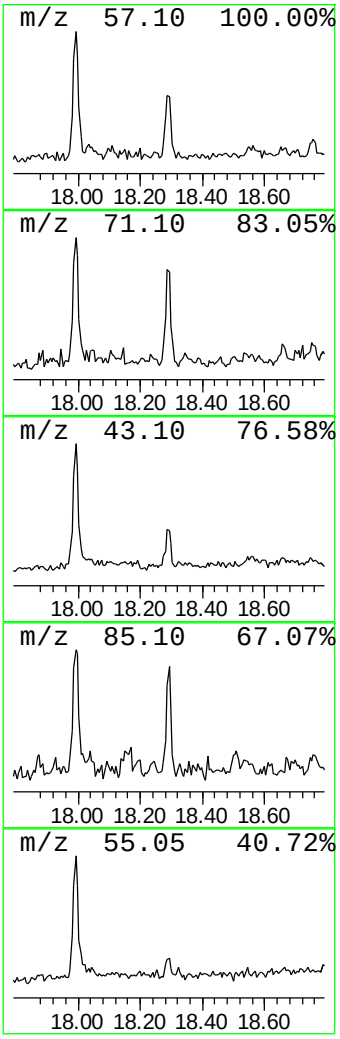
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	2.34 ng/ul	210294	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	42
2	Nonadecane	268	C19H40	000629-92-5	42
3	Sulfurous acid, 2-propyl tetrade...	320	C17H36O3S	1000309-12-5	38
4	Hexadecane	226	C16H34	000544-76-3	38
5	Dodecane, 4-methyl-	184	C13H28	006117-97-1	38





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Instrument : BNA_M
ClientSampleId : C0248

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Quant Title : SVOA CALIBRATION

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

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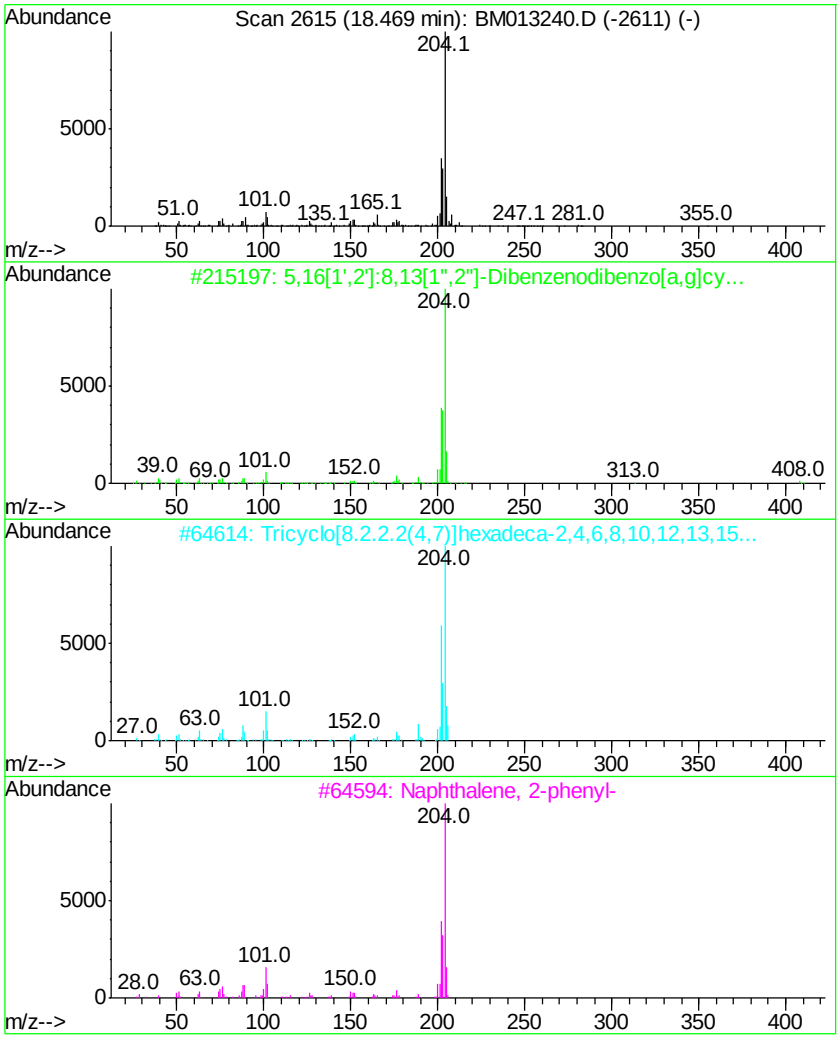
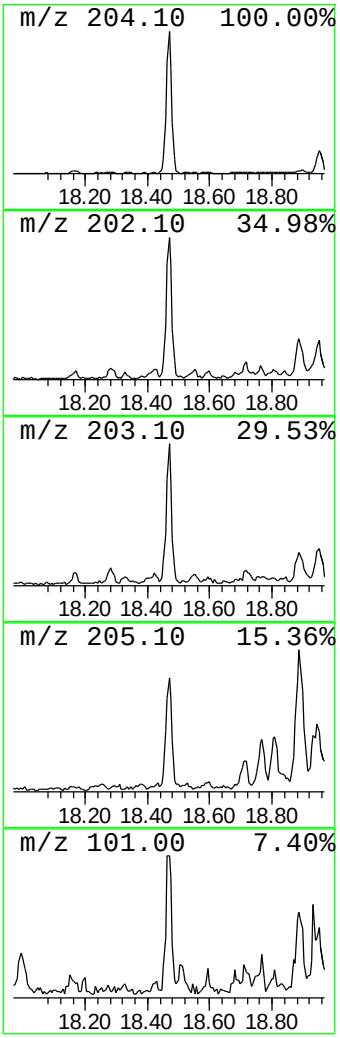
Peak Number 24 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.47	8.58 ng/ul	771379	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76





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Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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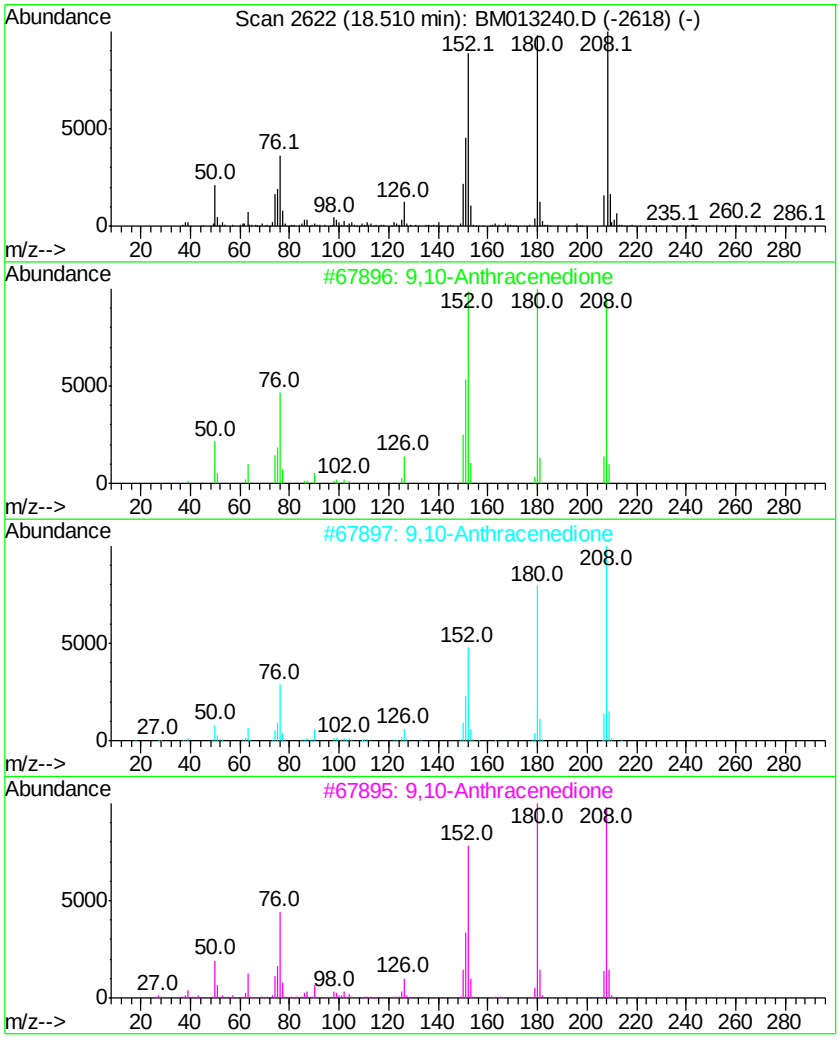
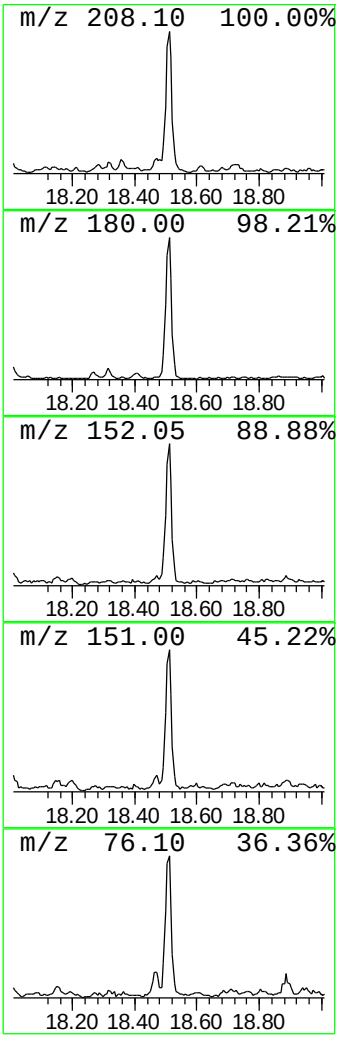
Peak Number 25 9,10-Anthracenedione Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.51	13.33 ng/ul	1197750	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	70





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

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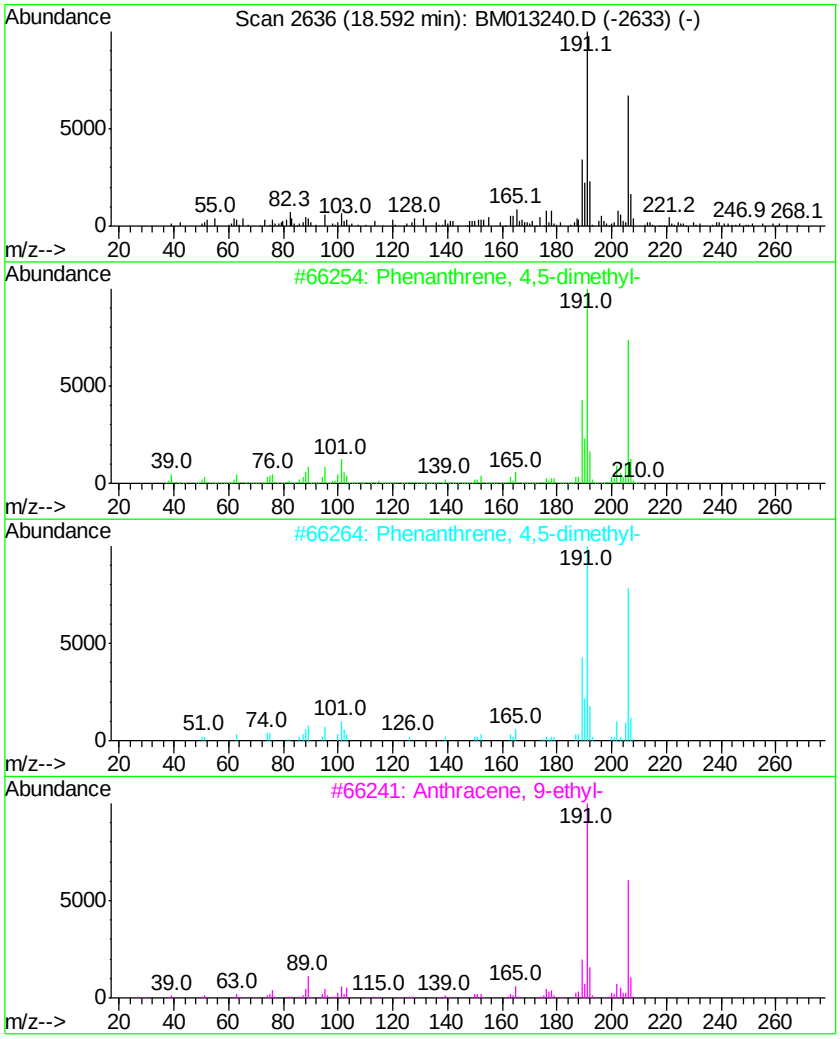
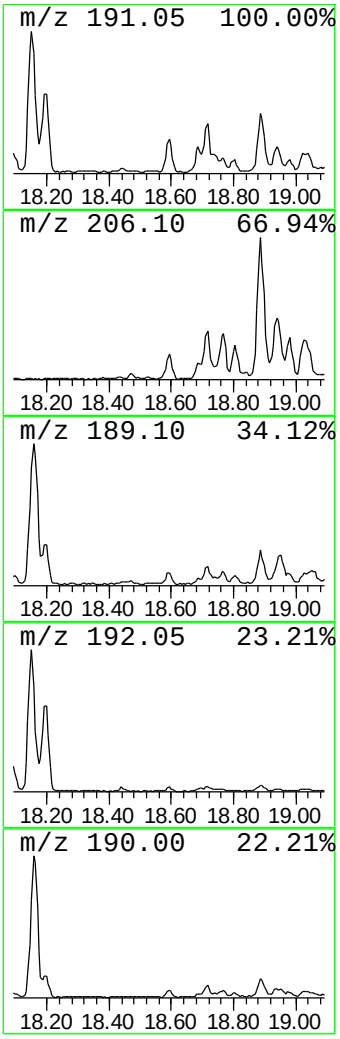
Peak Number 26 Phenanthrene, 4,5-dimethyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	2.48 ng/ul	222778	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
3	Anthracene, 9-ethyl-	206	C16H14	000605-83-4	87
4	Phenanthrene, 9-ethyl-	206	C16H14	003674-75-7	87
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	83





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

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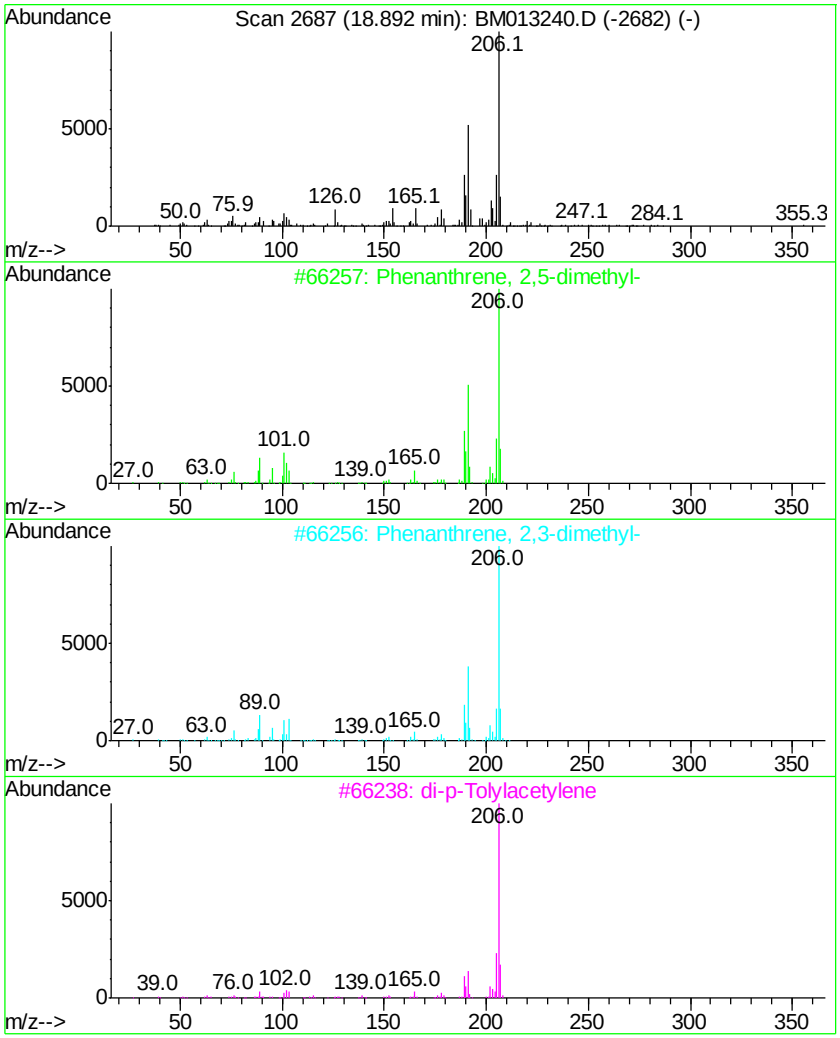
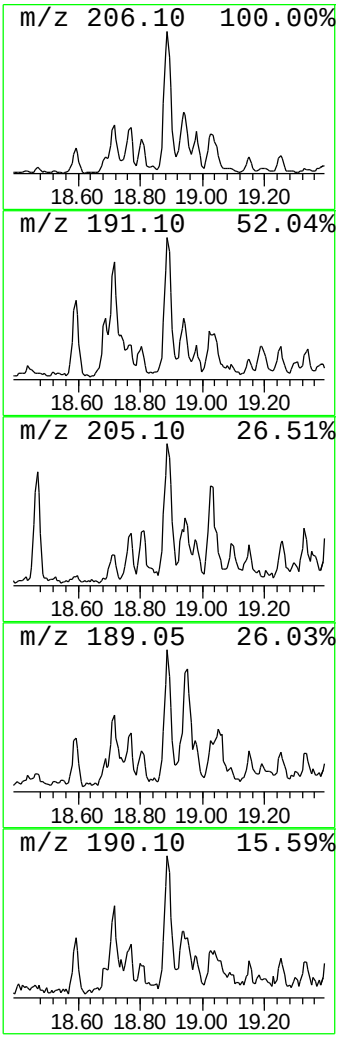
Peak Number 28 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.89	9.46 ng/ul	849822	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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

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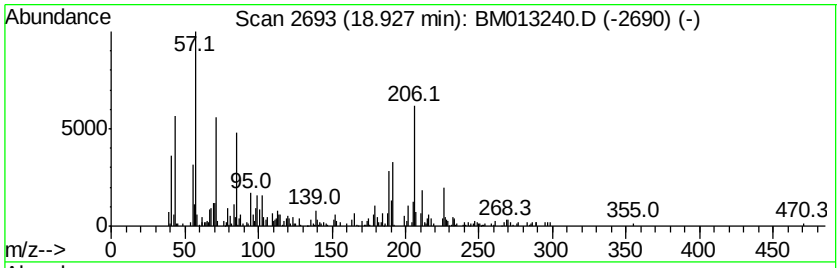
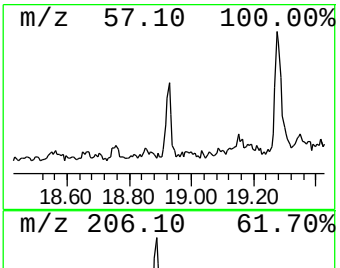
Peak Number 29 di-p-Tolylacetylene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	5.70 ng/ul	512485	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	87
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	81





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Quant Title : SVOA CALIBRATION

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

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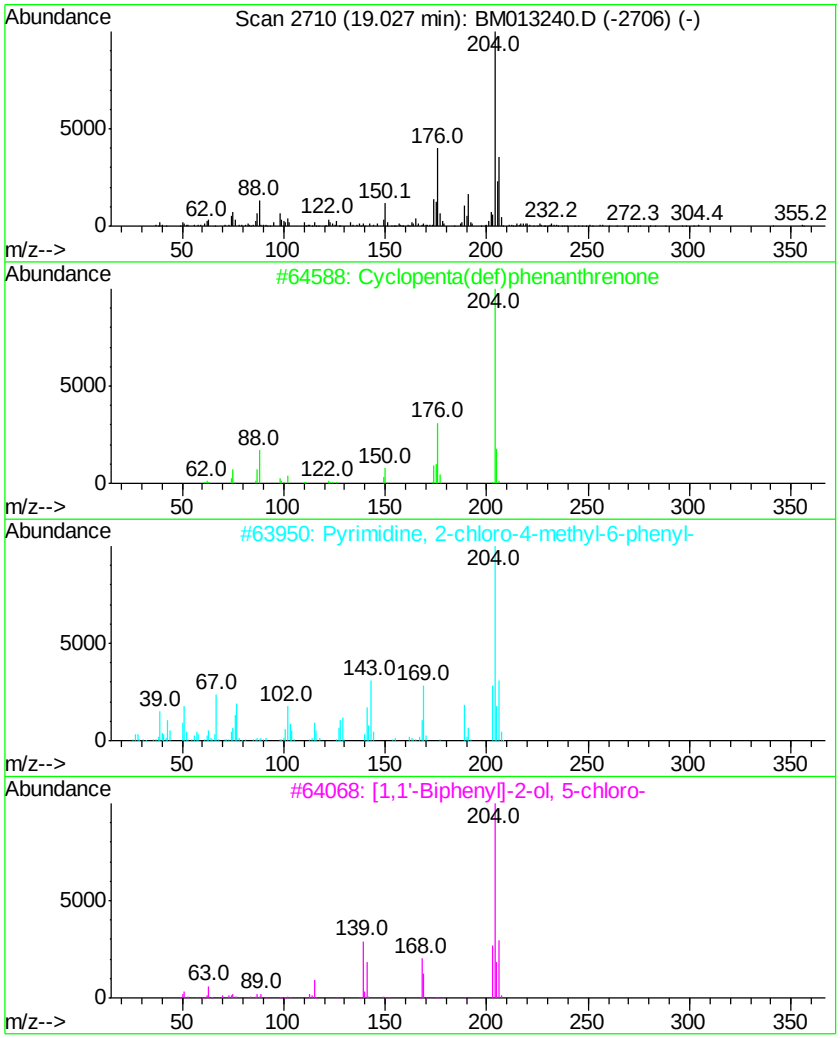
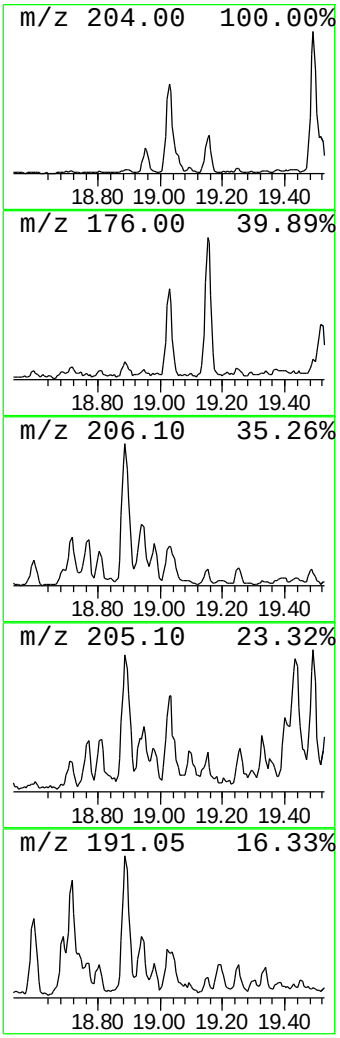
Peak Number 30 Cyclopenta(def)phenanthrenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	10.00 ng/ul	898467	Phenanthrene-d10	17.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	76
2	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	47
3	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	46
4	Benzene, 1-chloro-4-phenoxy-	204	C12H9ClO	007005-72-3	43
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43





Library Search Compound Report

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Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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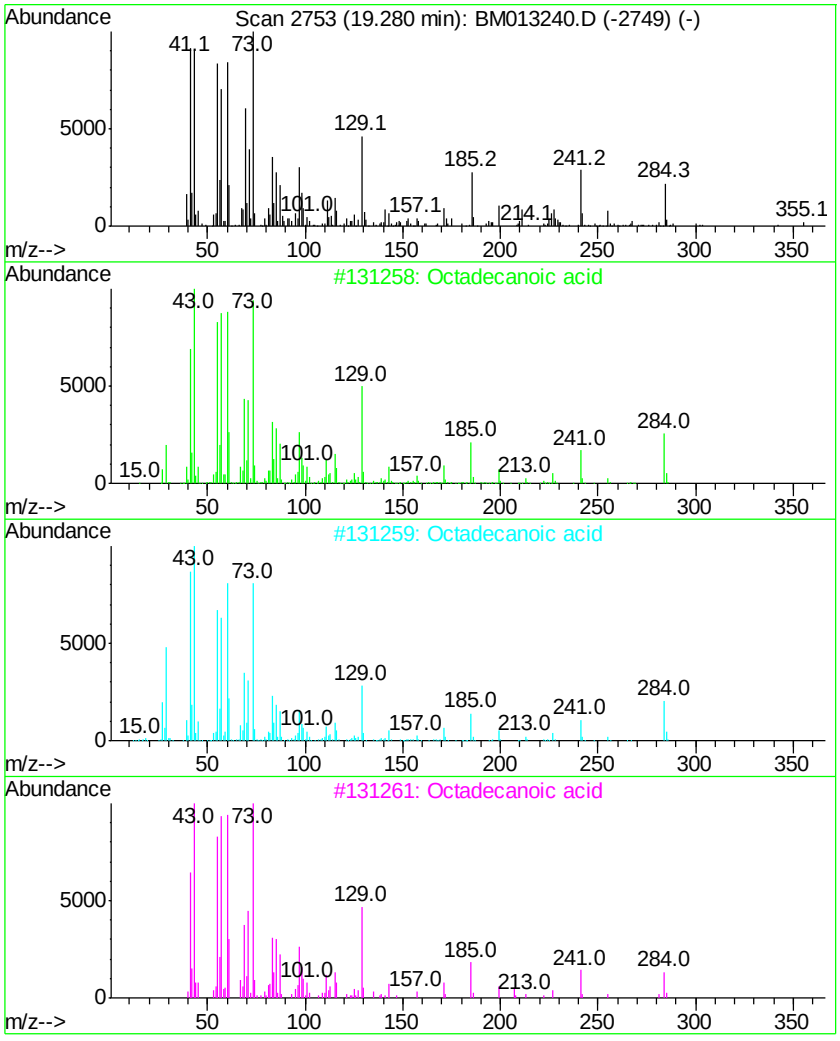
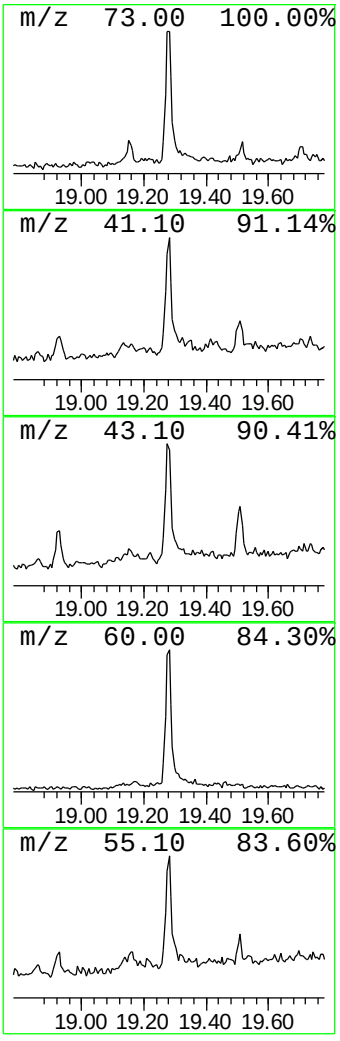
Peak Number 31 Octadecanoic acid Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.28	2.73 ng/ul	823838	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	95
3	Octadecanoic acid	284	C18H36O2	000057-11-4	94
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	86





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Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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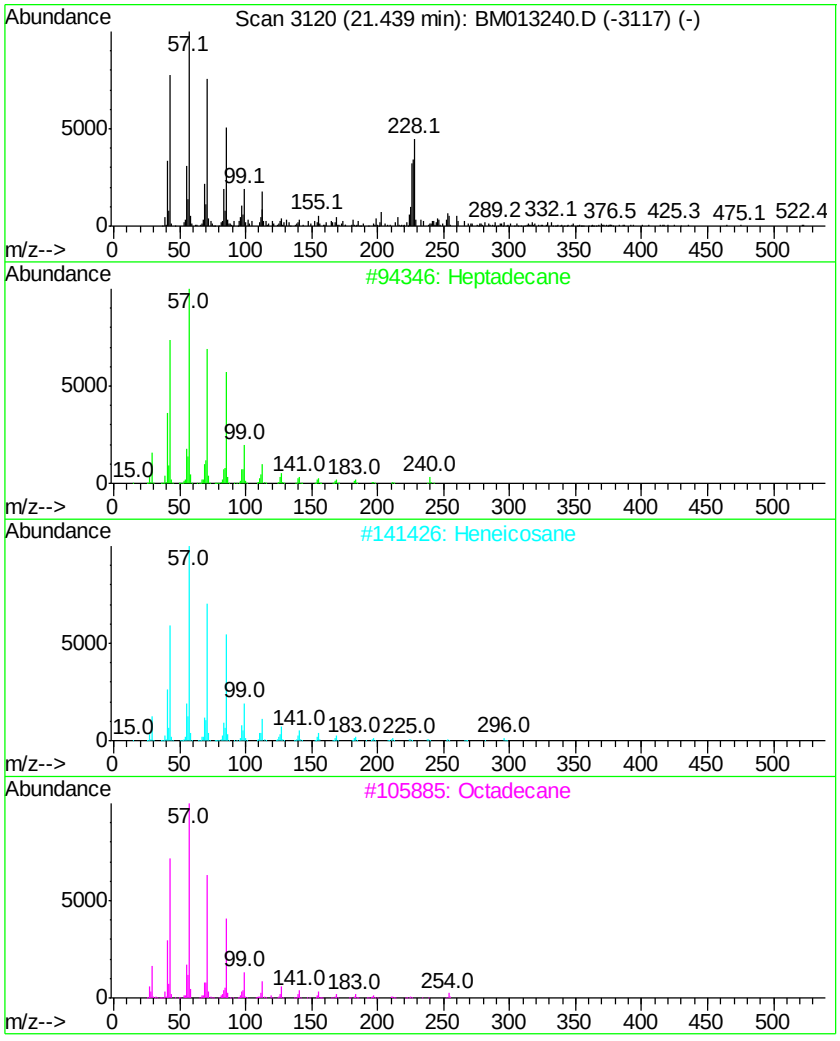
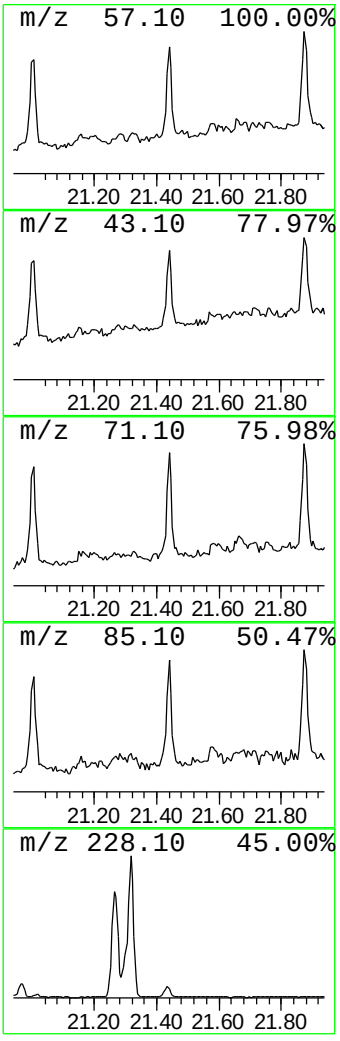
Peak Number 40 (DEL) Alkane: Straight-Chai... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.44	2.29 ng/ul	692092	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	91
2	Heneicosane	296	C21H44	000629-94-7	78
3	Octadecane	254	C18H38	000593-45-3	78
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	78
5	Heneicosane	296	C21H44	000629-94-7	78





Tentatively Identified Compound (LSC) summary

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Data File : BM013240.D
Acq On : 07 Dec 2017 13:18
Operator : SJ/JU
Sample : I6647-02
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0248

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.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
1,4-Methanonaphth...	12.36	2.4	ng/ul	206605	2	10.48	1692110	20.0
Naphthalene, 2,3-...	13.66	2.5	ng/ul	263816	3	14.34	2094100	20.0
1-Isopropenylnaph...	14.65	2.0	ng/ul	214763	3	14.34	2094100	20.0
Naphthalene, 1-(2...	15.52	2.4	ng/ul	251358	3	14.34	2094100	20.0
1,1'-Biphenyl, 2-...	15.55	3.7	ng/ul	385665	3	14.34	2094100	20.0
(DEL) Alkane: Str...	16.07	4.3	ng/ul	382292	4	17.09	1797480	20.0
9H-Fluorene, 1-me...	16.37	7.8	ng/ul	703331	4	17.09	1797480	20.0
9H-Fluorene, 3-me...	16.45	5.1	ng/ul	455046	4	17.09	1797480	20.0
1,1'-Biphenyl, 2,...	16.60	2.1	ng/ul	188312	4	17.09	1797480	20.0
4,4'-Dimethylbiph...	16.66	2.9	ng/ul	263788	4	17.09	1797480	20.0
9H-Fluoren-9-one	16.75	6.9	ng/ul	622482	4	17.09	1797480	20.0
Dibenzothiophene	16.90	4.2	ng/ul	380509	4	17.09	1797480	20.0
Acridine	17.28	3.4	ng/ul	303320	4	17.09	1797480	20.0
unknown-01	17.40	2.2	ng/ul	201459	4	17.09	1797480	20.0
Anthracene, 9-eth...	17.60	3.8	ng/ul	340881	4	17.09	1797480	20.0
Phenanthrene, 2-m...	17.96	12.6	ng/ul	1133850	4	17.09	1797480	20.0
Phenanthrene, 1-m...	18.01	21.3	ng/ul	1913810	4	17.09	1797480	20.0
Anthracene, 2-met...	18.15	24.9	ng/ul	2239240	4	17.09	1797480	20.0
1H-Indene, 2-phenyl-	18.19	8.5	ng/ul	765529	4	17.09	1797480	20.0
(DEL) Alkane: Str...	18.29	2.3	ng/ul	210294	4	17.09	1797480	20.0
5,16[1',2']:8,13[...	18.47	8.6	ng/ul	771379	4	17.09	1797480	20.0
9,10-Anthracenedione	18.51	13.3	ng/ul	1197750	4	17.09	1797480	20.0
Phenanthrene, 4,5...	18.59	2.5	ng/ul	222778	4	17.09	1797480	20.0
Phenanthrene, 2,5...	18.89	9.5	ng/ul	849822	4	17.09	1797480	20.0
di-p-Tolylacetylene	18.93	5.7	ng/ul	512485	4	17.09	1797480	20.0
Cyclopenta(def)ph...	19.03	10.0	ng/ul	898467	4	17.09	1797480	20.0
Octadecanoic acid	19.28	2.7	ng/ul	823838	5	21.28	6039580	20.0
(DEL) Alkane: Str...	21.44	2.3	ng/ul	692092	5	21.28	6039580	20.0