LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080319\
Data File : BG041940.D
Acq On : 4 Aug 2019 13:07
Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.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	3.154	7	11	27	rVB	297608	534322	2.79%	0.237%
2	7.185	690	697	709	rBV	283750	513959	2.68%	0.228%
3	7.561	752	761	771	rBV	299640	536296	2.80%	0.237%
4	8.037	835	842	856	rVB	337594	573724	2.99%	0.254%
5	8.742	956	962	974	rVV	368619	650725	3.40%	0.288%
6	9.200	1034	1040	1052	rVB	290020	576478	3.01%	0.255%
7	9.935	1157	1165	1173	rBV	267287	483343	2.52%	0.214%
8	10.475	1247	1257	1269	rBV	415804	783907	4.09%	0.347%
9	10.863	1312	1323	1327	rBV	463911	866536	4.52%	0.384%
10	10.916	1327	1332	1338	rVV	620301	1098588	5.73%	0.486%
11	10.992	1338	1345	1356	rVV	348759	684744	3.57%	0.303%
12	12.526	1596	1606	1613	rVV	972994	1605053	8.38%	0.711%
13	12.743	1632	1643	1653	rVV	716992	1237276	6.46%	0.548%
14	13.730	1805	1811	1822	rVB	489454	948605	4.95%	0.420%
15	13.865	1826	1834	1843	rVB2	421662	1129158	5.89%	0.500%
16	14.018	1853	1860	1866	rVV	679550	1324191	6.91%	0.586%
17	14.100	1866	1874	1879	rVV2	767052	1763008	9.20%	0.780%
18	14.259	1893	1901	1905	rBV	387673	689116	3.60%	0.305%
19	14.394	1917	1924	1939	rBV2	945690	1945235	10.15%	0.861%
20	14.700	1965	1976	1981	rVV2	769473	1587153	8.28%	0.703%
21	14.764	1981	1987	1994	rVV	1516609	2593231	13.53%	1.148%
22	14.905	2002	2011	2020	rVV2	442500	1378303	7.19%	0.610%
23	15.011	2020	2029	2033	rVV2	397460	843538	4.40%	0.373%
24	15.099	2037	2044	2051	rVV2	460273	936533	4.89%	0.415%
25	15.175	2051	2057	2064	rVV	318110	535002	2.79%	0.237%
26	15.316	2076	2081	2086	rBV	236905	410244	2.14%	0.182%
27	15.369	2086	2090	2095	rVB	277878	393838	2.06%	0.174%
28	15.487	2103	2110	2114	rBV2	249848	568555	2.97%	0.252%
29	15.693	2136	2145	2150	rVV	1112047	1927003	10.06%	0.853%
30	15.751	2150	2155	2165	rVV	1179004	1902676	9.93%	0.842%
31	15.839	2165	2170	2173	rVV3	401731	730065	3.81%	0.323%
32	15.875	2173	2176	2179	rVV	557196	805264	4.20%	0.356%
33	15.916	2179	2183	2187	rVV2	564252	872067	4.55%	0.386%
34	15.963	2187	2191	2194	rVV	305229	448587	2.34%	0.199%

LSC Area Percent Report

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Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Title : SVOA CALIBRATION

35	16.004	2194	2198	2201	rVV2	319071	568232	2.97%	0.252%
36	16.039	2201	2204	2213	rVB2	313454	735218	3.84%	0.325%
37	16.421	2260	2269	2275	rVB5	293634	739516	3.86%	0.327%
38	16.756	2315	2326	2330	rBV3	558813	1453948	7.59%	0.644%
39	16.803	2330	2334	2340	rVV2	556045	1040087	5.43%	0.460%
40	16.862	2340	2344	2347	rVV2	195036	420771	2.20%	0.186%
41	16.903	2349	2351	2356	rVB	383912	531566	2.77%	0.235%
42	16.962	2356	2361	2364	rBV	271559	458240	2.39%	0.203%
43	17.026	2368	2372	2379	rVV2	350507	680167	3.55%	0.301%
44	17.108	2381	2386	2392	rVV3	518999	929150	4.85%	0.411%
45	17.203	2396	2402	2409	rVV5	244453	786398	4.10%	0.348%
46	17.273	2409	2414	2433	rVB	1017886	1855908	9.69%	0.822%
47	17.461	2440	2446	2448	rBV	735094	1221856	6.38%	0.541%
48	17.514	2448	2455	2459	rVV	7322044	13375890	69.81%	5.922%
49	17.561	2459	2463	2465	rVV	1274059	1897137	9.90%	0.840%
50	17.596	2465	2469	2473	rVB	2237202	3289352	17.17%	1.456%
51	17.643	2473	2477	2483	rBV3	244950	489760	2.56%	0.217%
52	17.861	2509	2514	2518	rBV2	252475	500052	2.61%	0.221%
53	17.972	2530	2533	2537	rVB	310108	392534	2.05%	0.174%
54	18.037	2539	2544	2550	rVB	1141468	1740841	9.09%	0.771%
55	18.184	2564	2569	2577	rVB	628458	1185582	6.19%	0.525%
56	18.336	2589	2595	2600	rVV	3207830	5640984	29.44%	2.497%
57	18.389	2600	2604	2610	rVB	4042585	5969053	31.15%	2.643%
58	18.466	2612	2617	2622	rBV	1237869	2058683	10.74%	0.911%
59	18.530	2622	2628	2632	rVV3	3669044	7360993	38.42%	3.259%
60	18.572	2632	2635	2641	rVB	2674853	3701614	19.32%	1.639%
61	18.730	2658	2662	2666	rBV2	510321	745414	3.89%	0.330%
62	18.830	2674	2679	2683	rBV	1625018	2375764	12.40%	1.052%
63	18.877	2683	2687	2696	rVB2	1473676	2669558	13.93%	1.182%
64	18.953	2696	2700	2704	rBV	695795	1063157	5.55%	0.471%
65	19.077	2713	2721	2725	rBV2	1300439	2402765	12.54%	1.064%
66	19.130	2726	2730	2733	rVV	973176	1423141	7.43%	0.630%
67	19.165	2733	2736	2740	rVB2	855614	1098894	5.74%	0.486%
68	19.253	2745	2751	2755	rBV	2354575	4139001	21.60%	1.832%
69	19.312	2755	2761	2764	rBV4	777736	1430830	7.47%	0.633%
70	19.394	2770	2775	2782	rBV3	1225188	2757081	14.39%	1.221%
71	19.523	2790	2797	2802	rVV2	5644803	9912280	51.73%	4.388%

LSC Area Percent Report

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Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_G\METHODS\SOM-EPA-BG080319MA.M
Title : SVOA CALIBRATION

72	19.576	2802	2806	2809	rVV2	498432	730295	3.81%	0.323%
73	19.611	2809	2812	2817	rVB	724718	930053	4.85%	0.412%
74	19.758	2833	2837	2840	rBV2	703913	949165	4.95%	0.420%
75	19.888	2848	2859	2865	rBV3	7814030	19159969	100.00%	8.482%
76	19.946	2865	2869	2875	rVB3	1036334	1819243	9.50%	0.805%
77	20.105	2893	2896	2902	rVB3	598123	937709	4.89%	0.415%
78	20.205	2906	2913	2922	rBV2	1559983	4060926	21.19%	1.798%
79	20.287	2923	2927	2930	rVV3	412227	664429	3.47%	0.294%
80	20.369	2930	2941	2945	rVB	2368904	5736745	29.94%	2.540%
81	20.463	2950	2957	2962	rBV	1873910	3359535	17.53%	1.487%
82	20.528	2963	2968	2971	rBV	2475047	3671364	19.16%	1.625%
83	20.563	2971	2974	2978	rVB	828193	1047106	5.47%	0.464%
84	20.669	2987	2992	2995	rBV	1977121	2717347	14.18%	1.203%
85	20.710	2995	2999	3003	rVB	1858154	2413952	12.60%	1.069%
86	21.139	3068	3072	3078	rVB	1263435	2113888	11.03%	0.936%
87	21.321	3096	3103	3107	rBV3	1633471	3376212	17.62%	1.495%
88	21.362	3107	3110	3115	rVB	1330393	1798028	9.38%	0.796%
89	21.415	3115	3119	3123	rBV3	743087	1177085	6.14%	0.521%
90	21.738	3167	3174	3179	rBV3	4981404	10940294	57.10%	4.843%
91	21.809	3181	3186	3197	rVB	5266381	10055055	52.48%	4.451%
92	21.903	3199	3202	3206	rBV2	528110	733529	3.83%	0.325%
93	21.956	3207	3211	3216	rBV	926415	1507902	7.87%	0.668%
94	22.420	3286	3290	3294	rBV2	461919	763827	3.99%	0.338%
95	22.502	3300	3304	3309	rVB	1664263	2861878	14.94%	1.267%
96	22.573	3311	3316	3322	rVB	1242667	2257224	11.78%	0.999%
97	22.778	3347	3351	3355	rBV2	756082	1296251	6.77%	0.574%
98	24.018	3553	3562	3568	rBV2	1813621	6268808	32.72%	2.775%
99	24.752	3679	3687	3694	rBV	1198848	3397230	17.73%	1.504%
100	24.905	3706	3713	3725	rVB	2097088	6219983	32.46%	2.754%

Sum of corrected areas: 225882772

LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080319\
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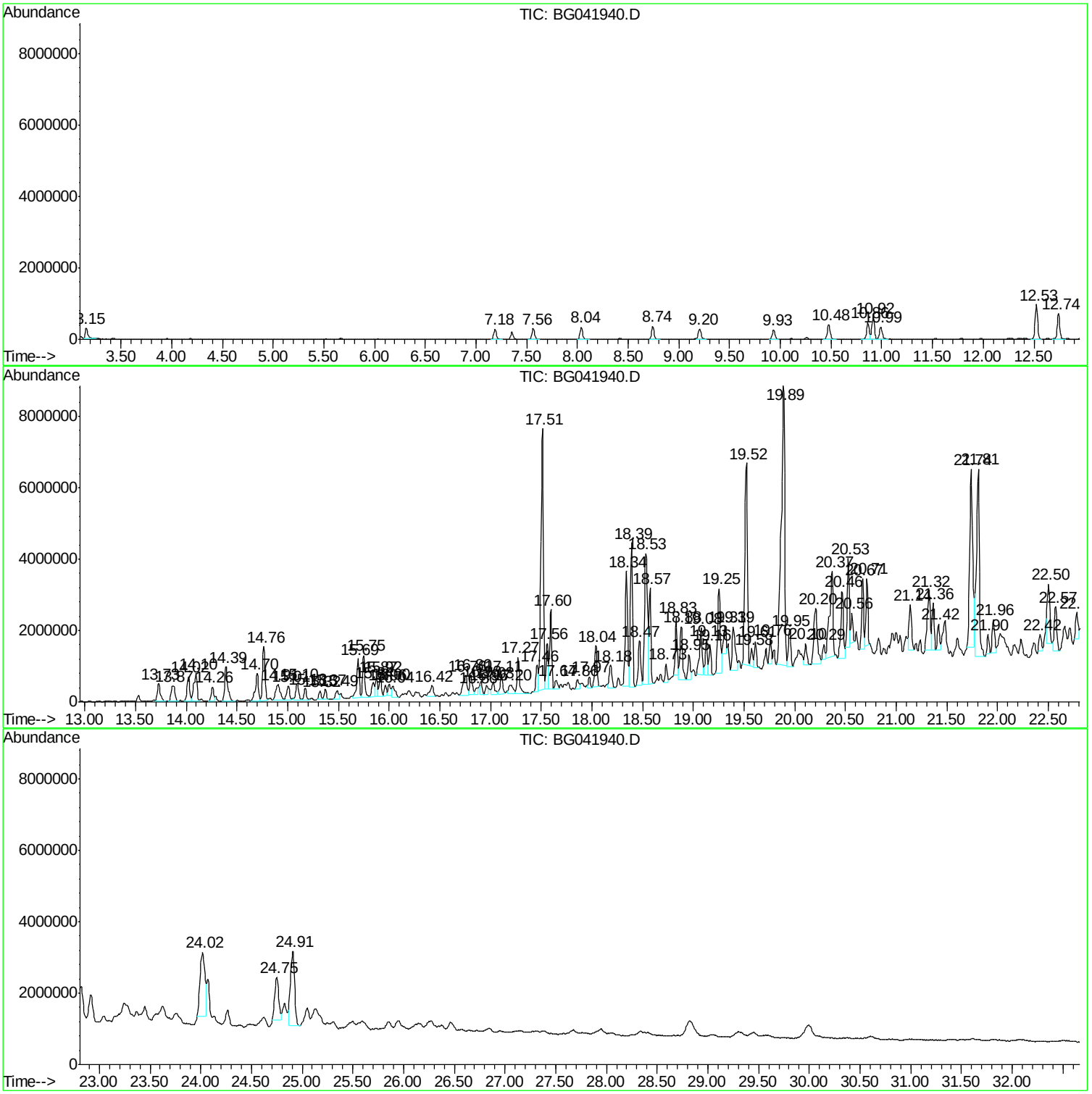
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080319\
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Acq On : 4 Aug 2019 13:07
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Misc :
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Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

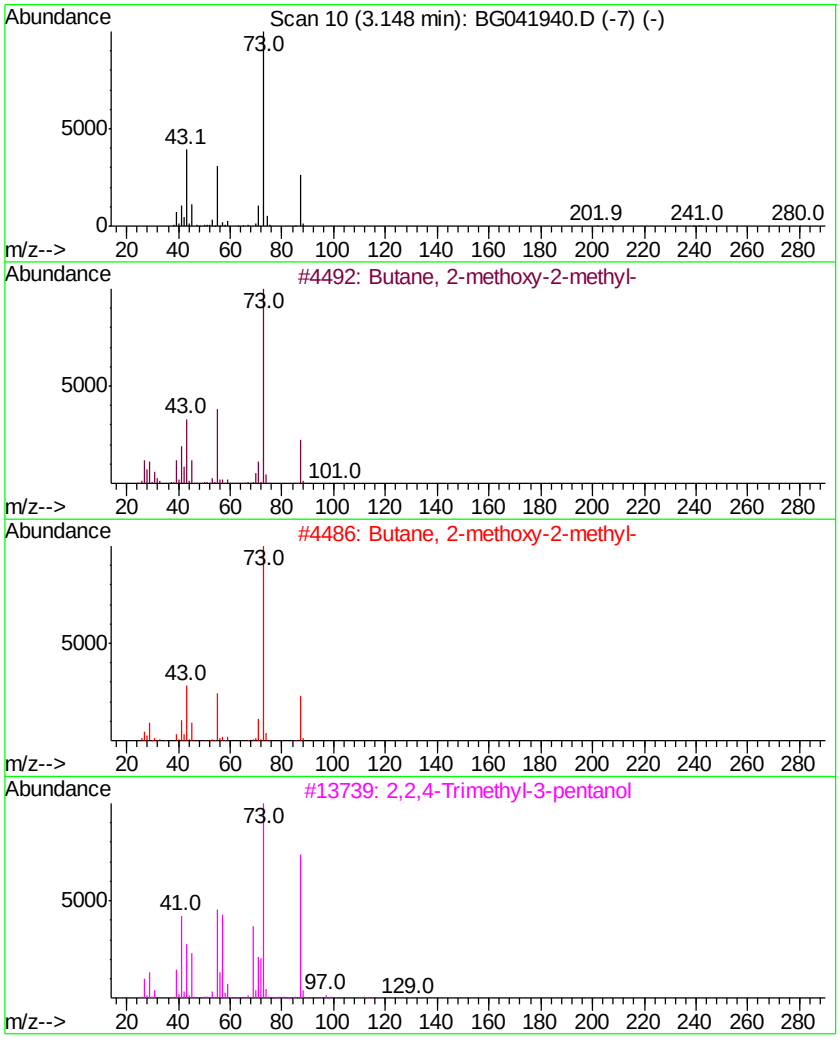
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

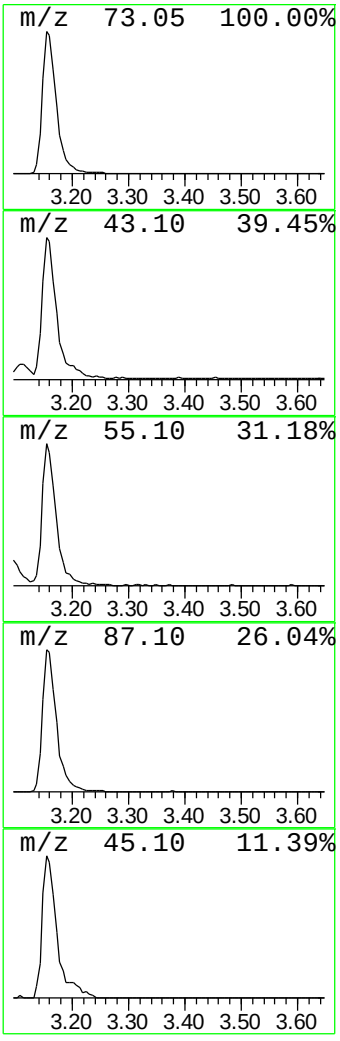
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.15	18.63 ng/ul	534322	1,4-Dichlorobenzene-d4	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	64
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	64
3	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
4	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080319\
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Acq On : 4 Aug 2019 13:07
Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

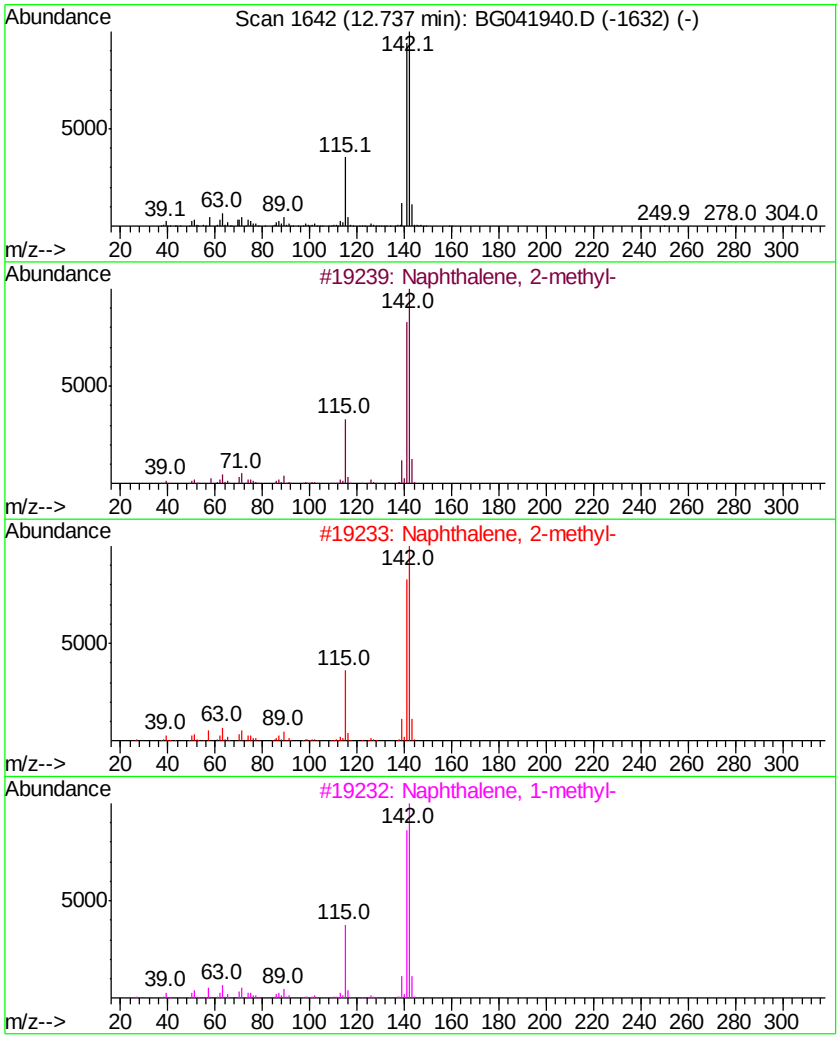
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

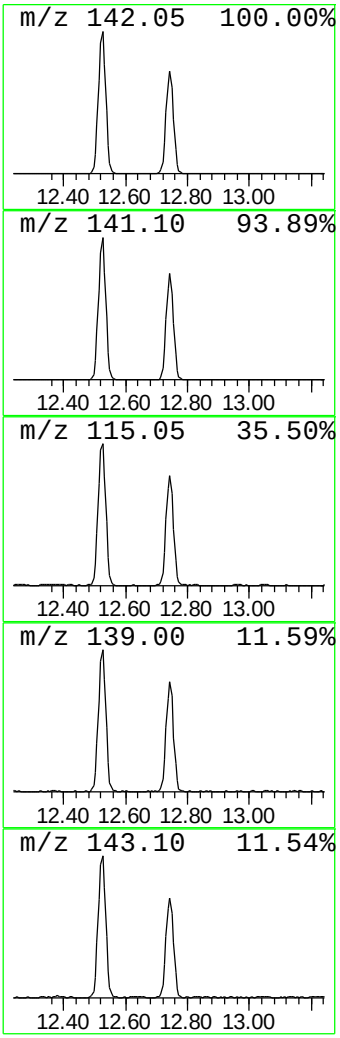
****

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.74	28.56 ng/ul	1237280	Naphthalene-d8	10.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	95
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	95
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Library Search Compound Report

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

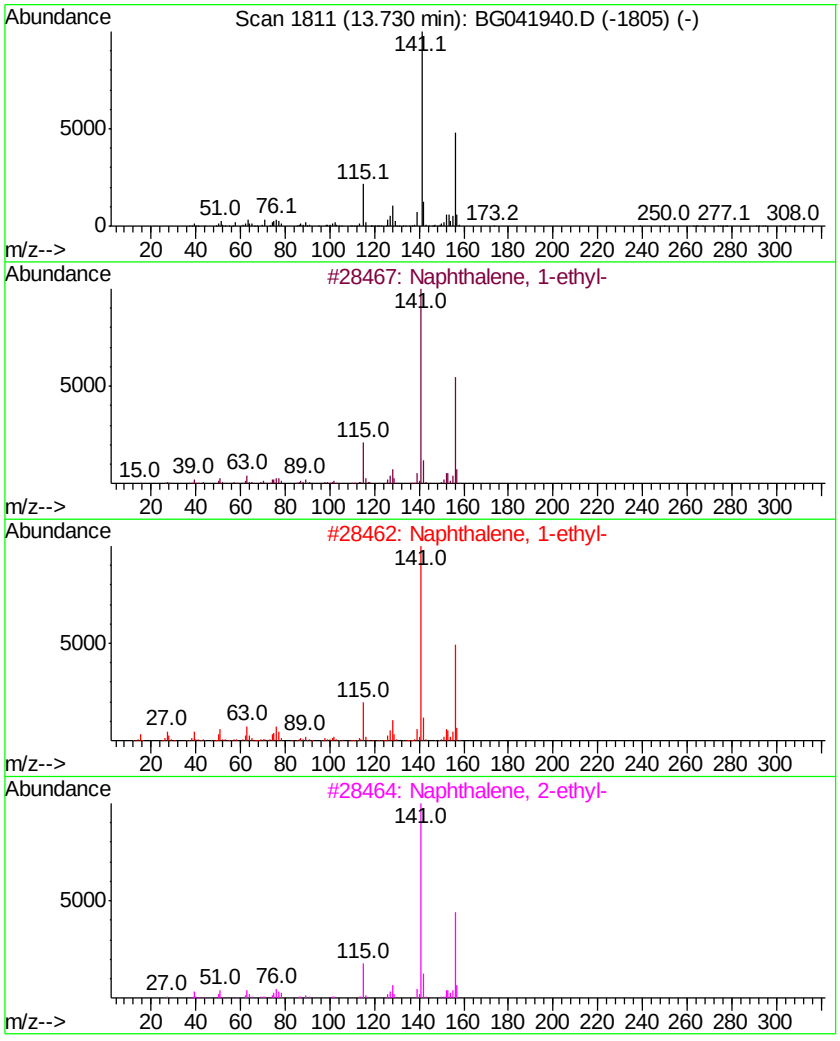
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

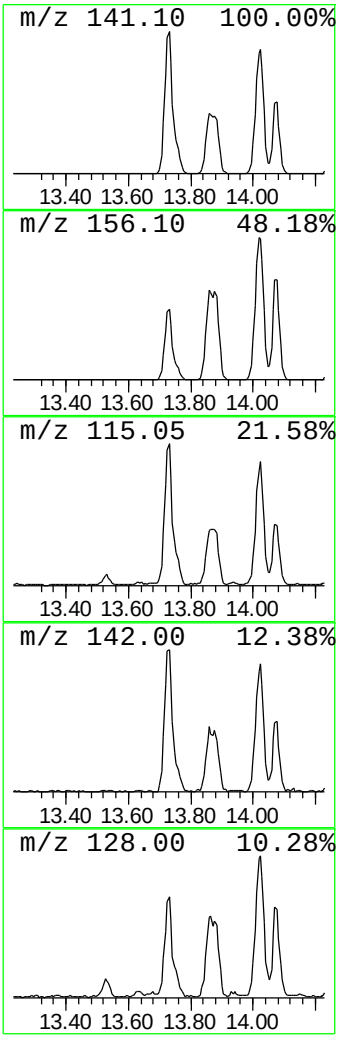
****

Peak Number 3 Naphthalene, 1-ethyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.73	11.95 ng/ul	948605	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	97
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	94
3	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	94
4	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	93
5	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080319\
Data File : BG041940.D
Acq On : 4 Aug 2019 13:07
Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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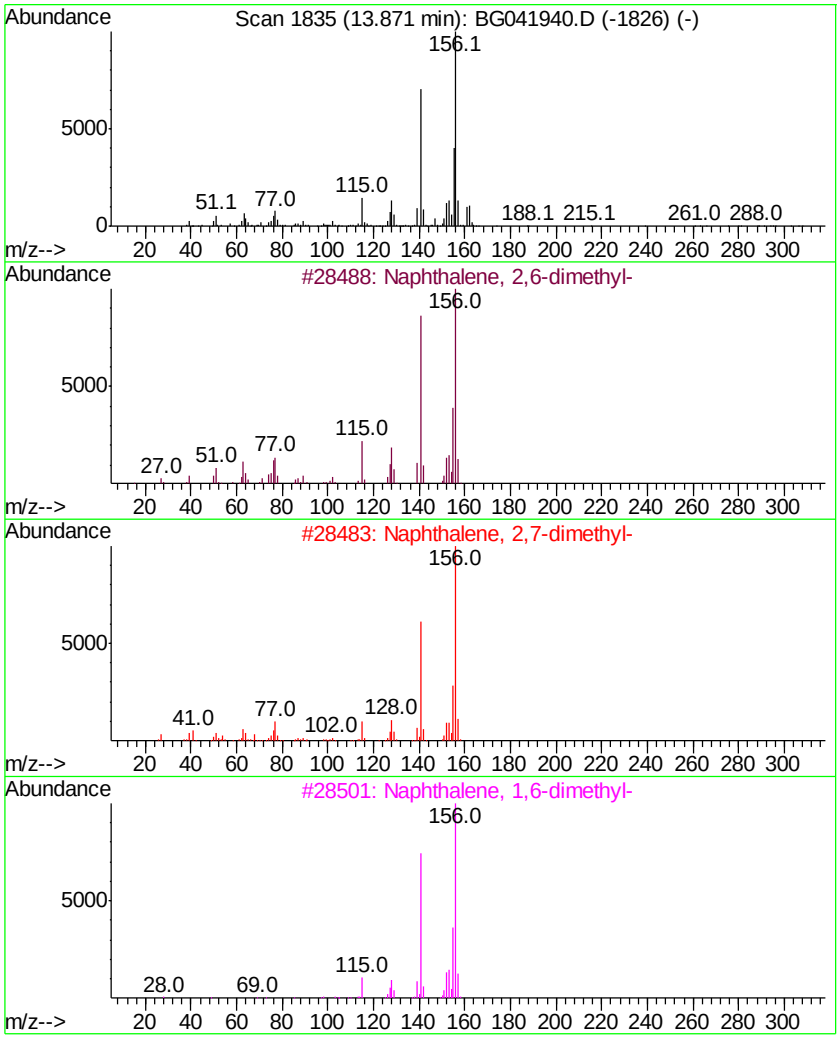
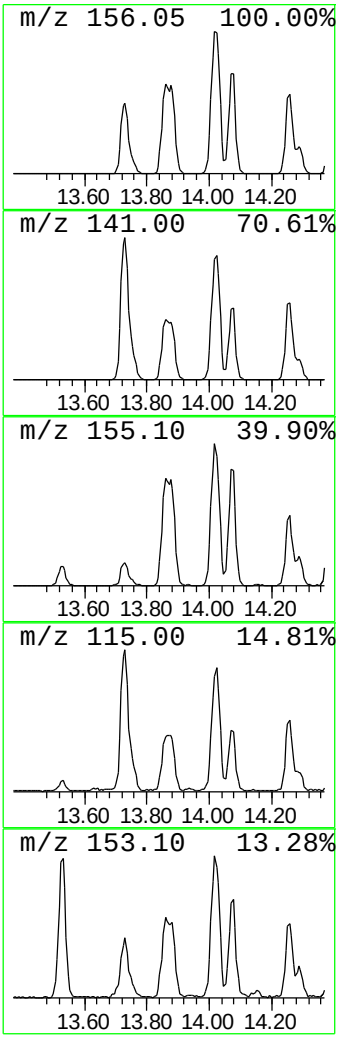
Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.87	14.23 ng/ul	1129160	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080319\
Data File : BG041940.D
Acq On : 4 Aug 2019 13:07
Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

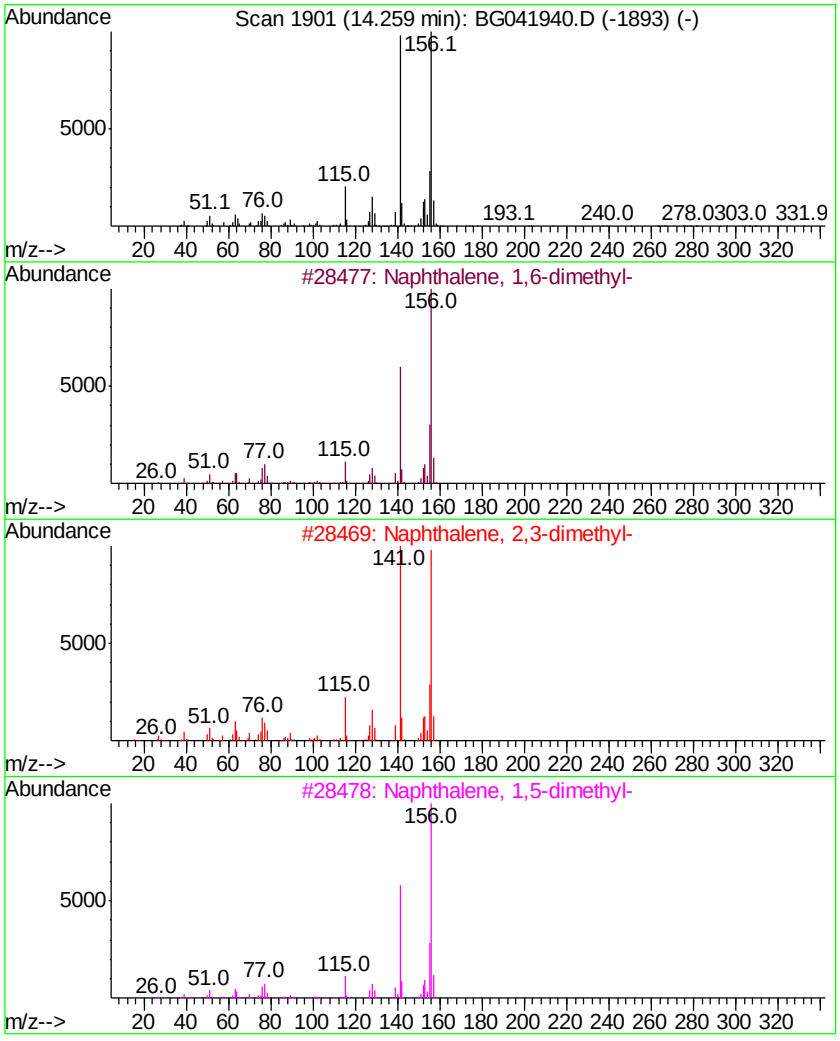
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

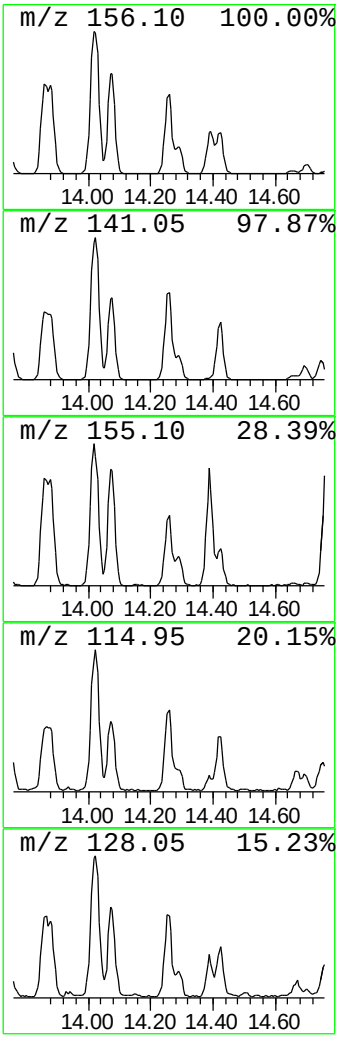
****

Peak Number 6 Naphthalene, 1,6-dimethyl- Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	8.68 ng/ul	689116	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





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Acq On : 4 Aug 2019 13:07
Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

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Quant Title : SVOA CALIBRATION

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

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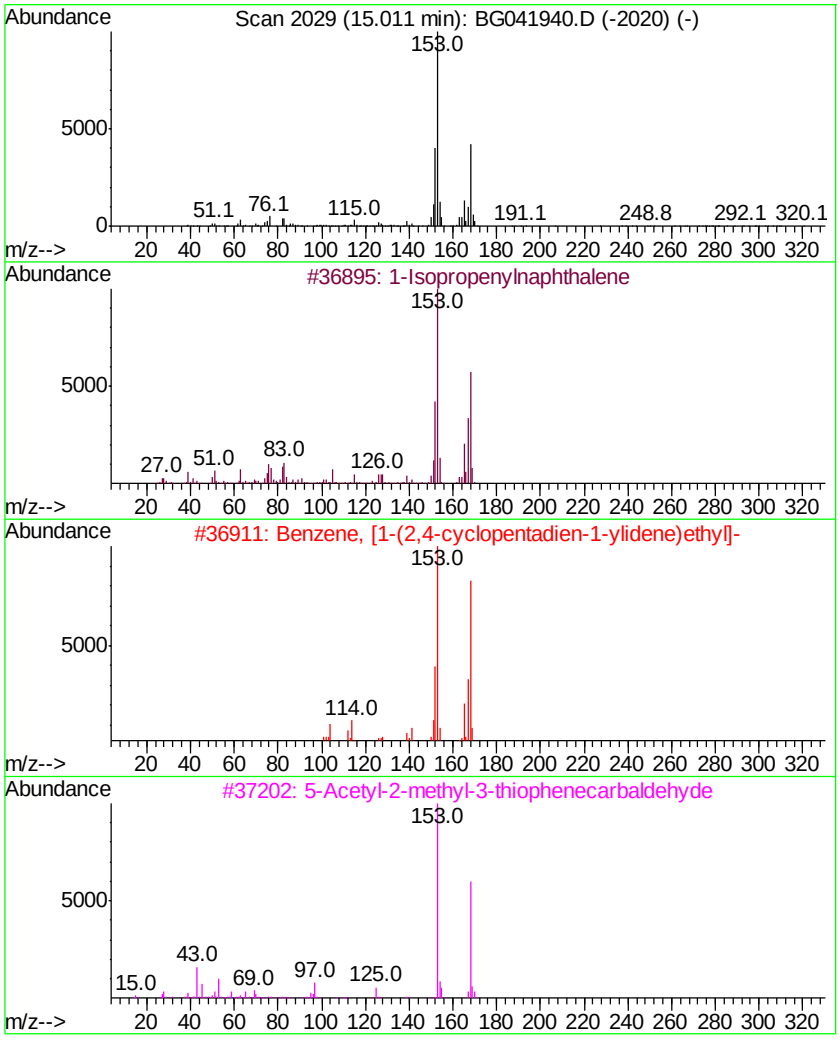
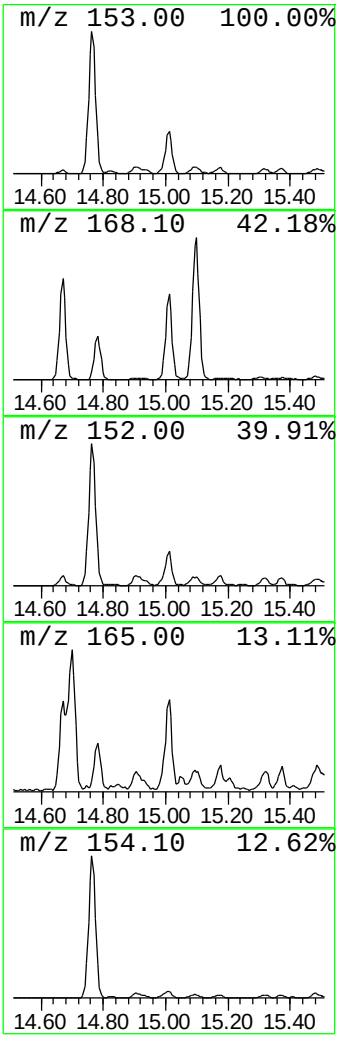
Peak Number 7 1-Isopropenylnaphthalene Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.01	10.63 ng/ul	843538	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	87
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	80
3	5-Acetyl-2-methyl-3-thiophenecar...	168	C8H8O2S	090345-55-4	50
4	Benzene, 2-chloro-1-methyl-4-(1-...	168	C10H13Cl	004395-79-3	50
5	Ethanone, 1-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	50





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Acq On : 4 Aug 2019 13:07
Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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Peak Number 8 Naphthalene, 1,6,7-trimethyl- Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	6.74 ng/ul	535002	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	97
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
4	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
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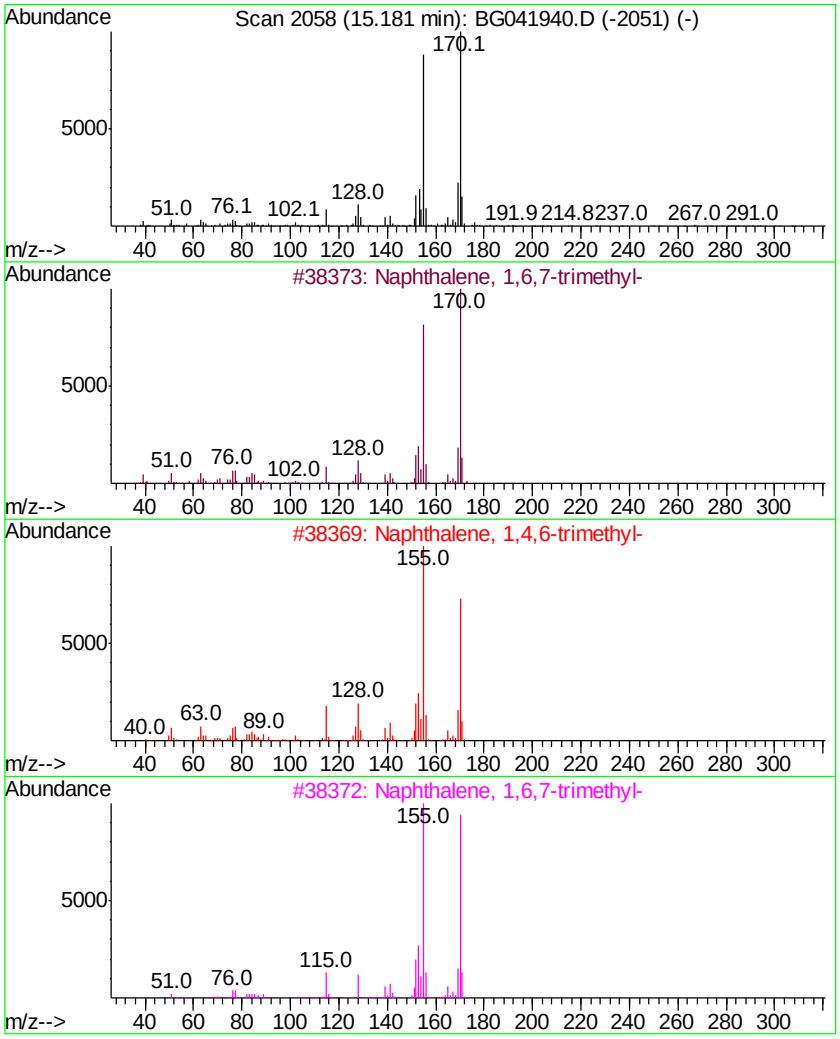

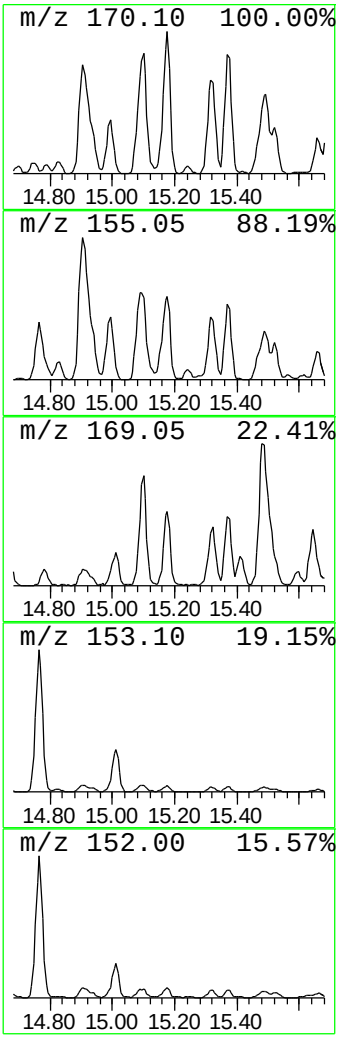

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Operator : HP/JU
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Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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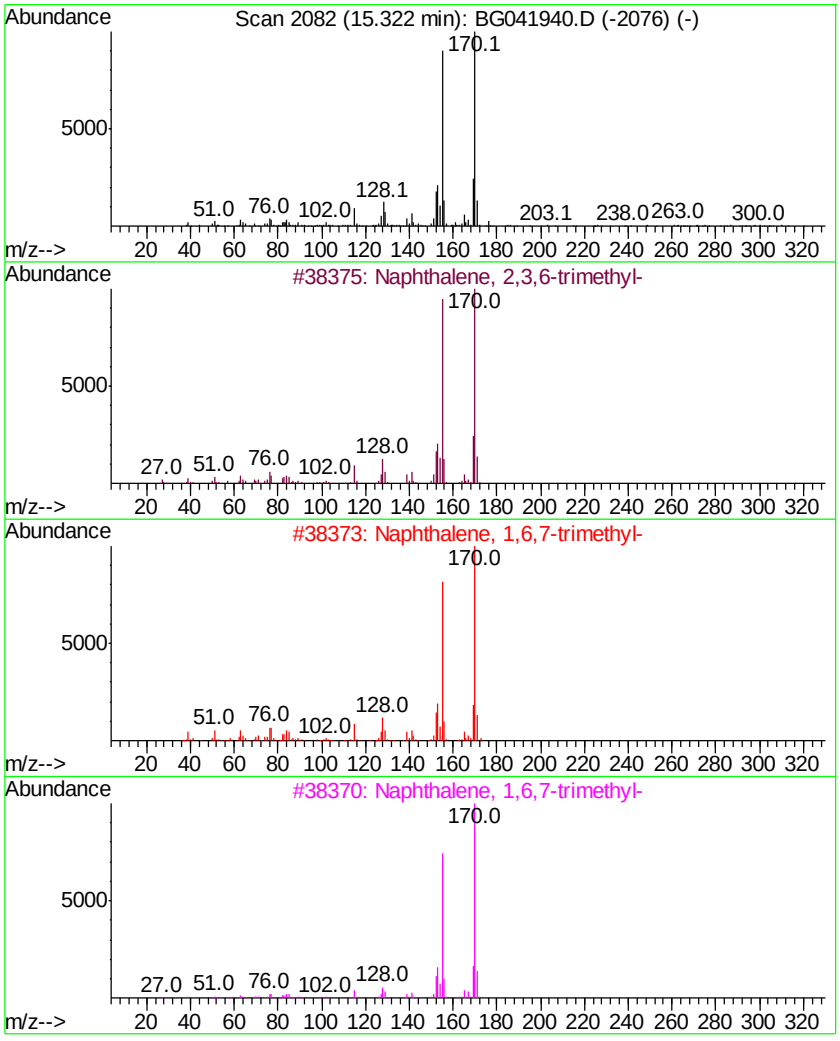
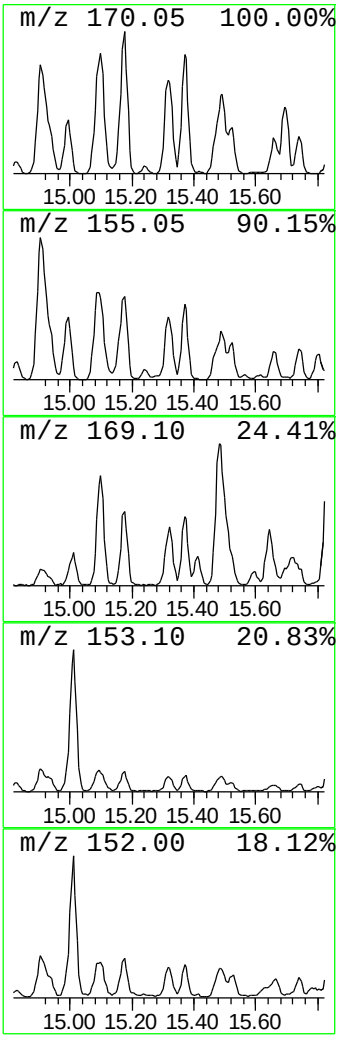
Peak Number 9 Naphthalene, 2,3,6-trimethyl- Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	5.17 ng/ul	410244	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
4	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96





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Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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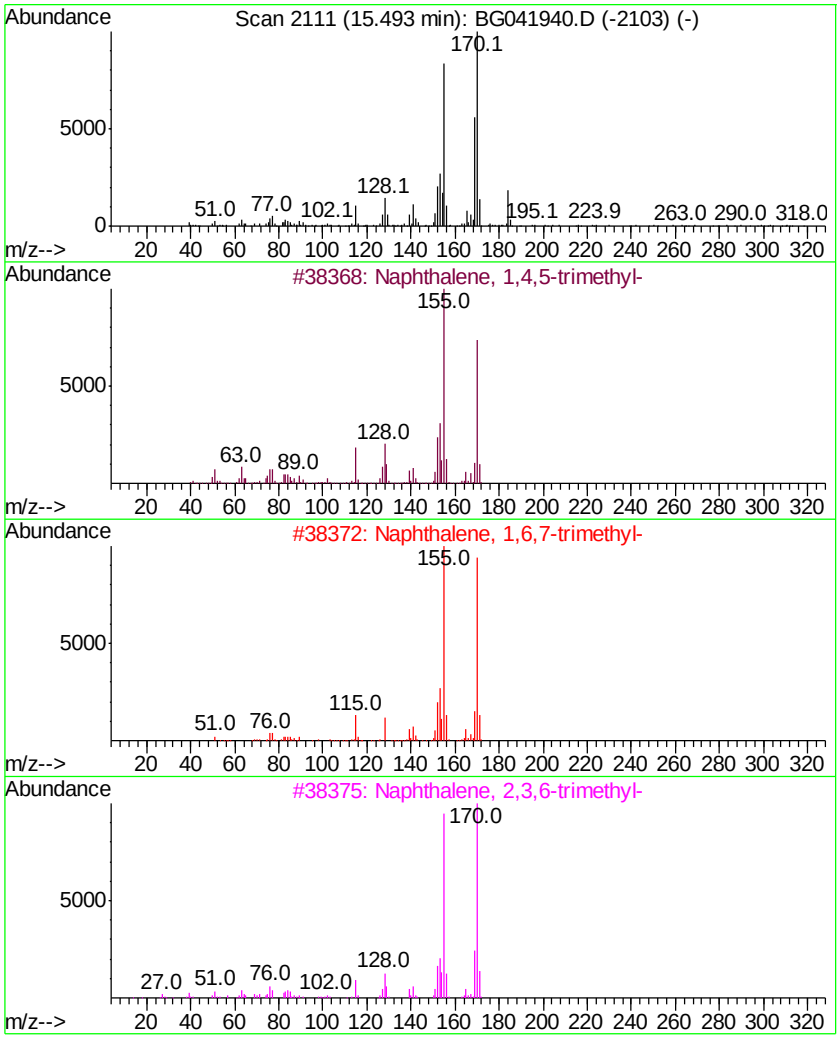
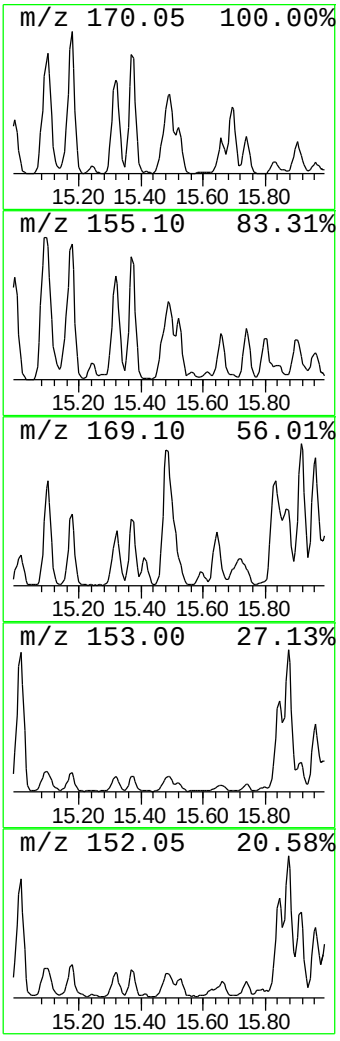
Peak Number 11 Naphthalene, 1,4,5-trimethyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.49	7.16 ng/ul	568555	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	92
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	89
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	89
4	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	76
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	68





Library Search Compound Report

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Data File : BG041940.D
Acq On : 4 Aug 2019 13:07
Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

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Quant Title : SVOA CALIBRATION

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

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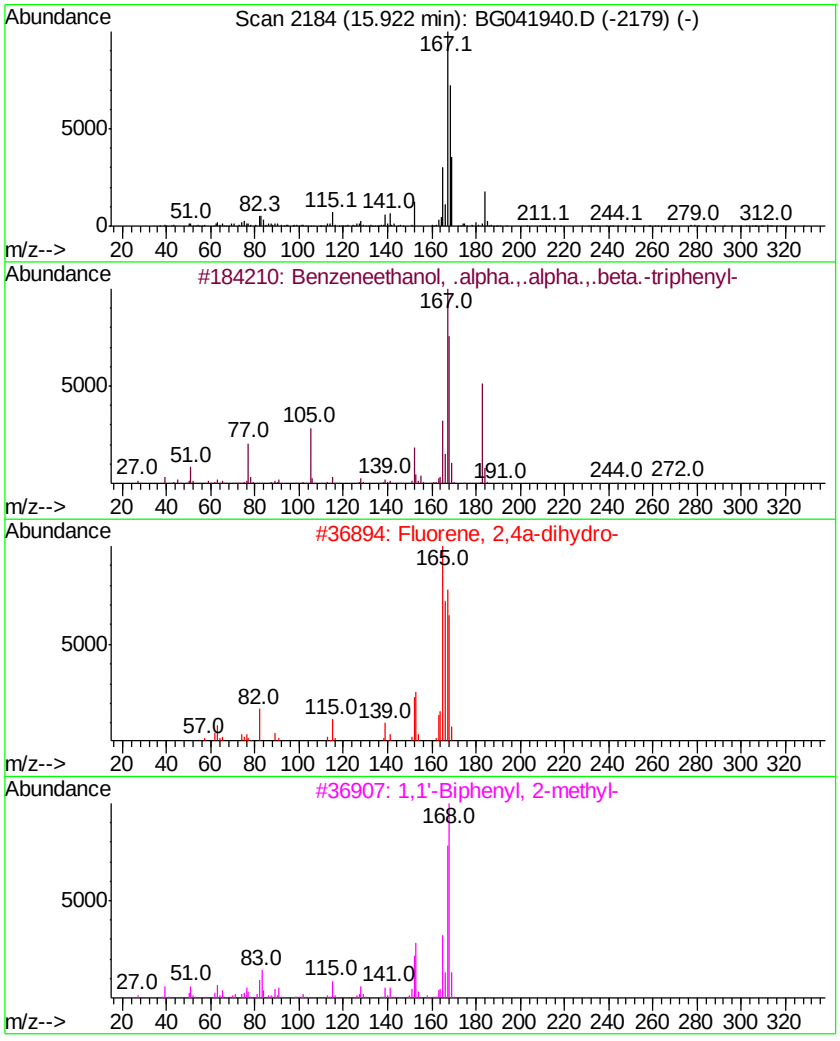
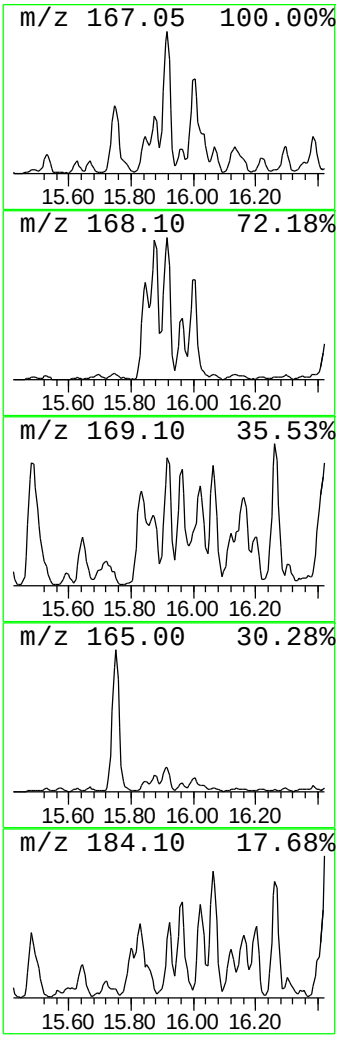
Peak Number 12 Benzeneethanol, .alpha.,.al... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.92	10.99 ng/ul	872067	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanol, .alpha.,.alpha.,...	350	C26H22O	000981-24-8	90
2	Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	50
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	49
4	Diphenamid	239	C16H17NO	000957-51-7	47
5	Benzene, 1,1'-[(ethylthio)methyl...	228	C15H16S	038793-64-5	47





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Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

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Quant Title : SVOA CALIBRATION

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

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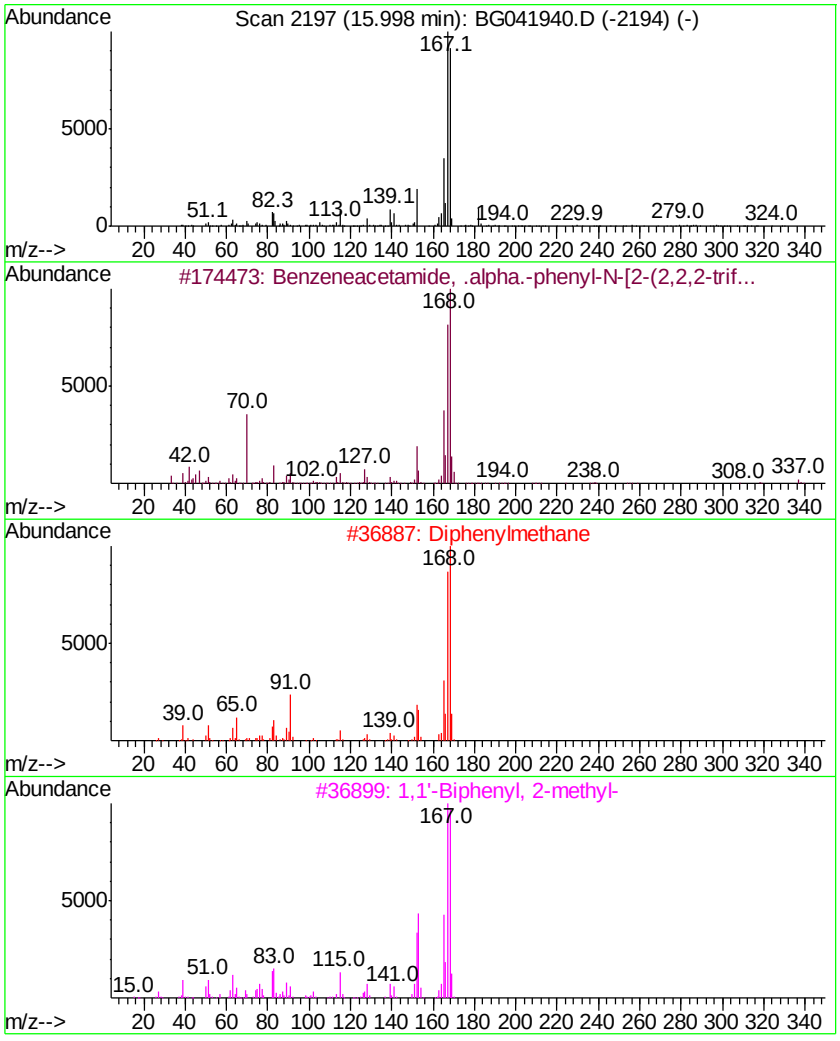
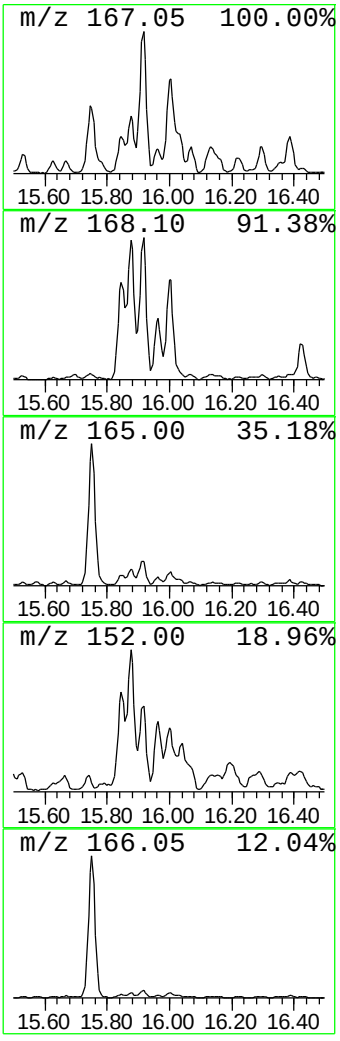
Peak Number 14 Benzeneacetamide, .alpha.-p... Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.00	7.16 ng/ul	568232	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneacetamide, .alpha.-phenyl...	337	C18H18F3NO2	1000350-80-6	78
2	Diphenylmethane	168	C13H12	000101-81-5	72
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	72
4	Diphenylmethane	168	C13H12	000101-81-5	64
5	Diphenylmethane	168	C13H12	000101-81-5	64





Library Search Compound Report

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Acq On : 4 Aug 2019 13:07
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Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

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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 2,4,6-Cycloheptatrien-1-one... Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.04	9.26 ng/ul	735218	Acenaphthene-d10	14.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	80
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
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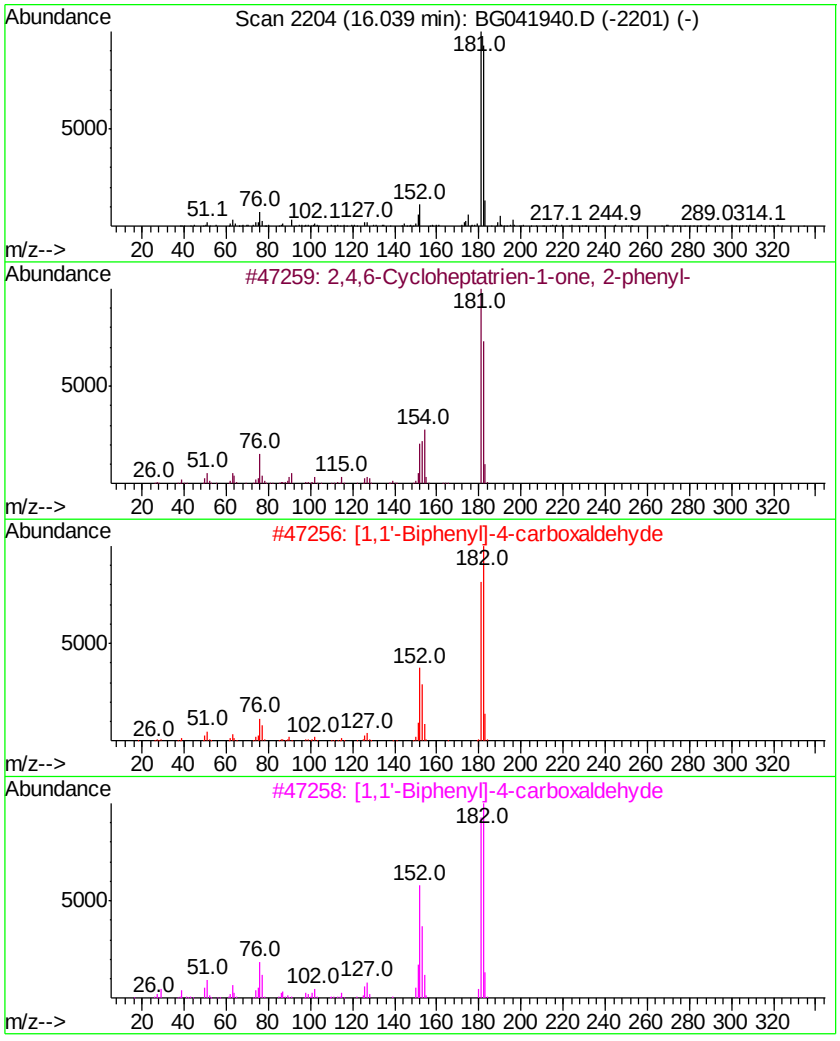

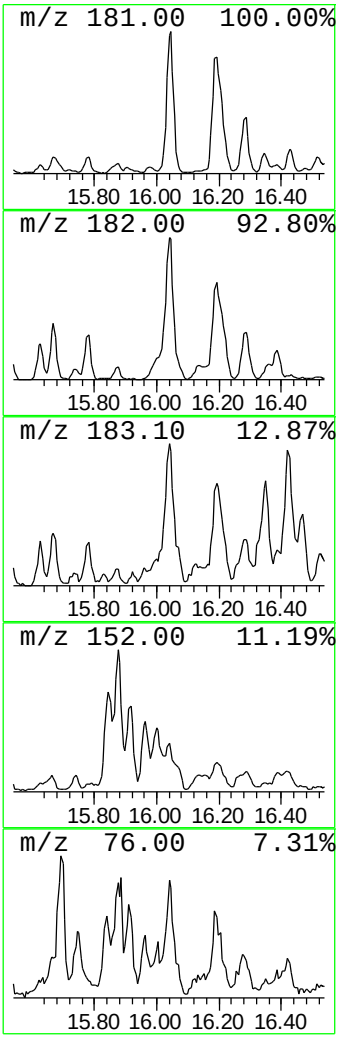

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Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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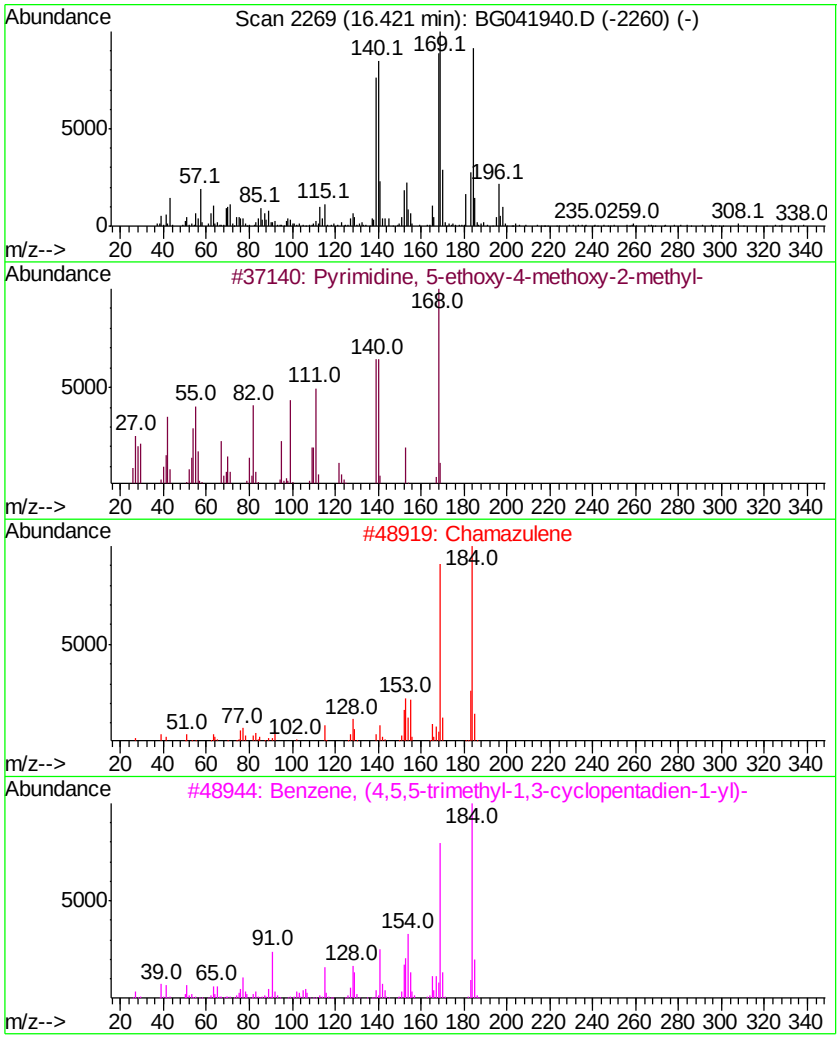
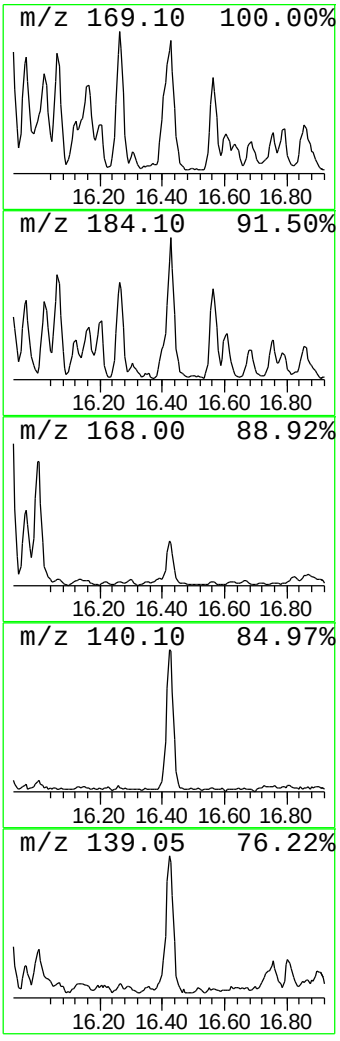
Peak Number 16 unknown-01 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.42	12.10 ng/ul	739516	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrimidine, 5-ethoxy-4-methoxy-2...	168	C8H12N2O2	024614-12-8	43
2	Chamazulene	184	C14H16	000529-05-5	42
3	Benzene, (4,5,5-trimethyl-1,3-cy...	184	C14H16	033930-85-7	38
4	Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	30
5	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	30





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Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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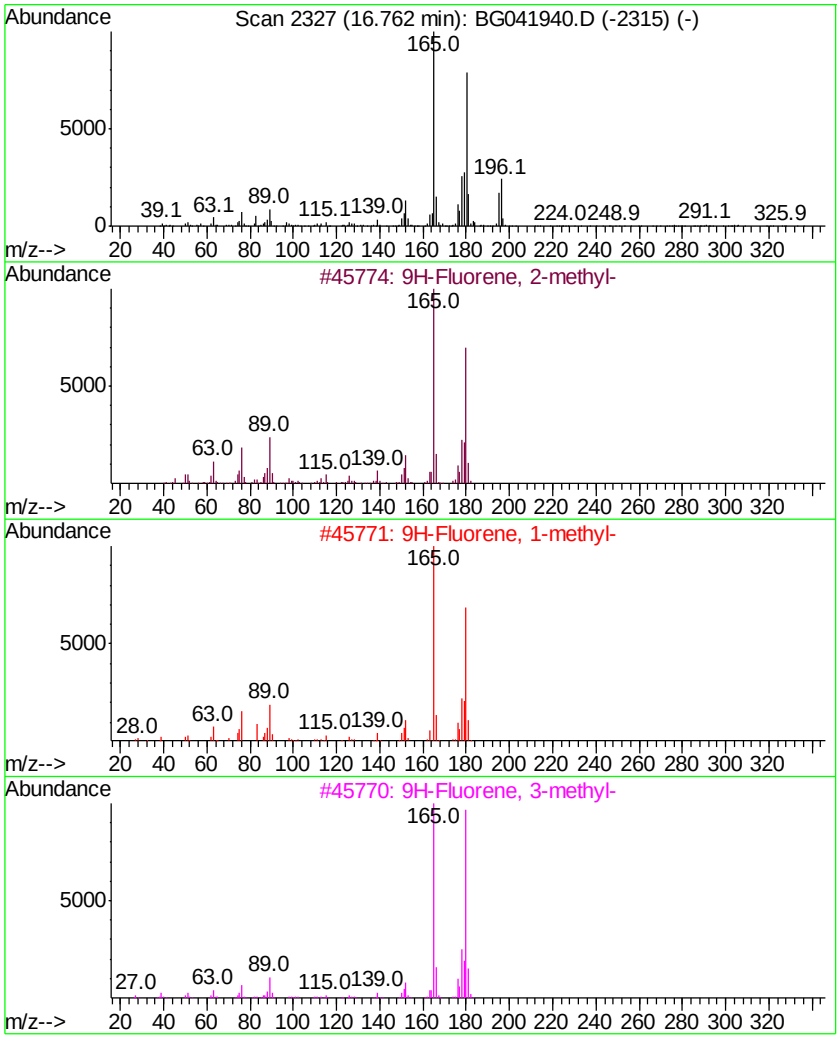
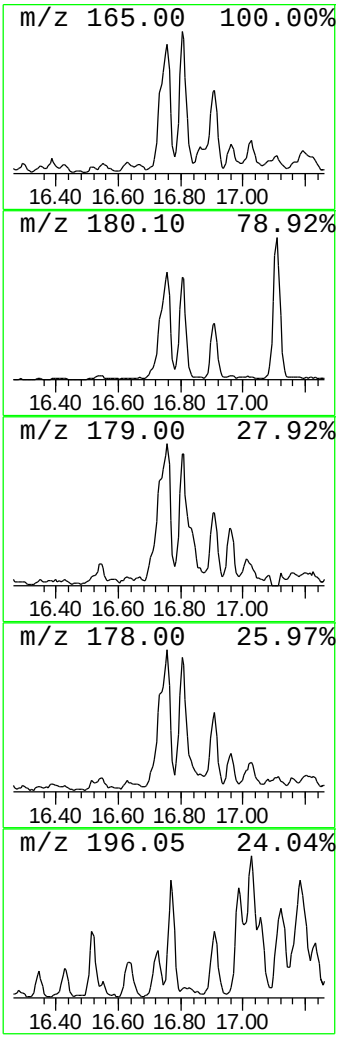
Peak Number 17 9H-Fluorene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.76	23.80 ng/ul	1453950	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	93
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	90





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ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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Peak Number 18 9H-Fluorene, 1-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.80	17.02 ng/ul	1040090	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	76
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	76
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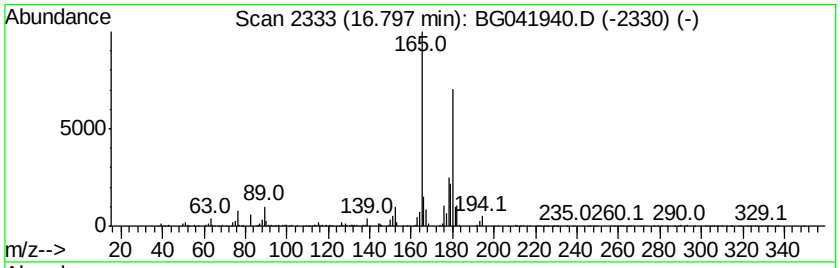

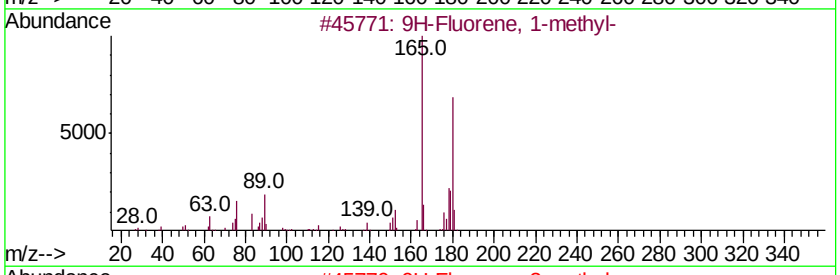

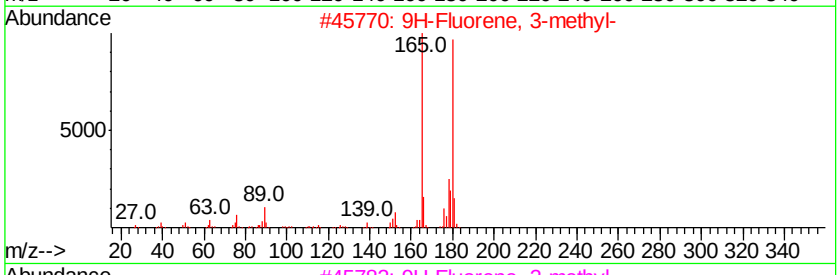

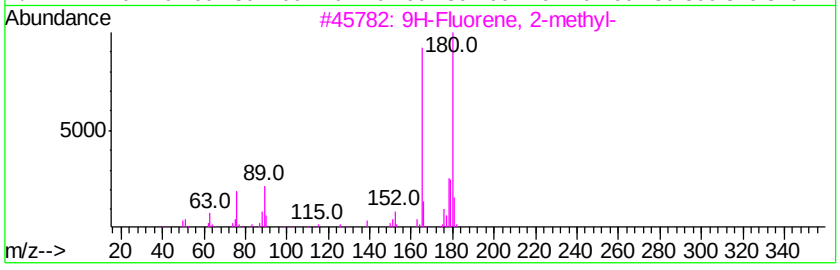

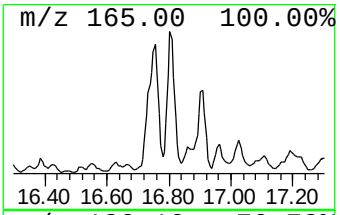

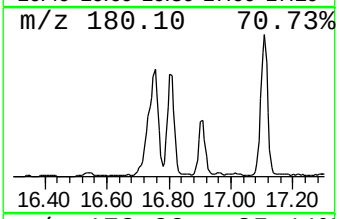

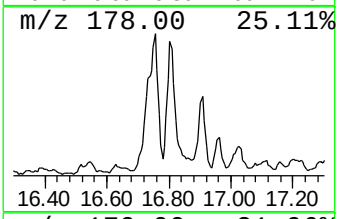

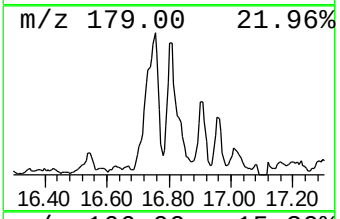

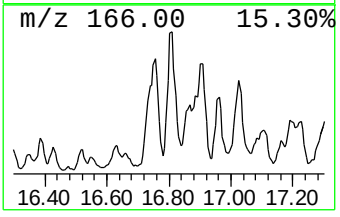

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Data File : BG041940.D
Acq On : 4 Aug 2019 13:07
Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

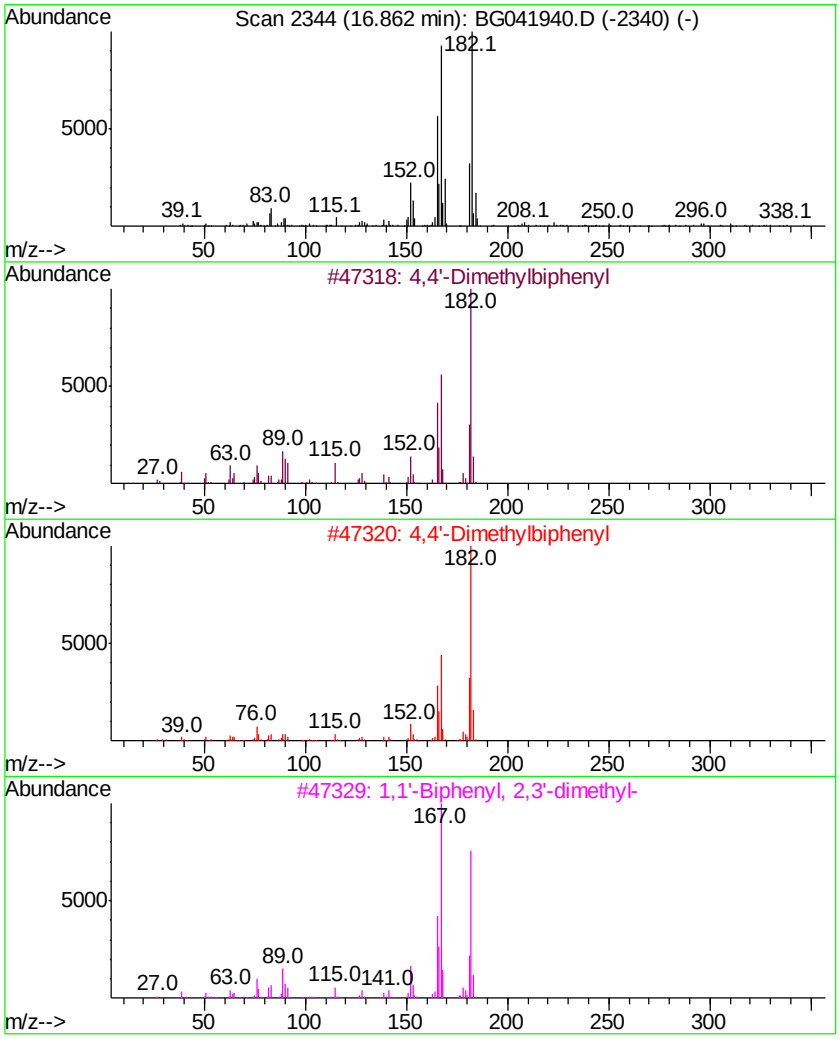
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

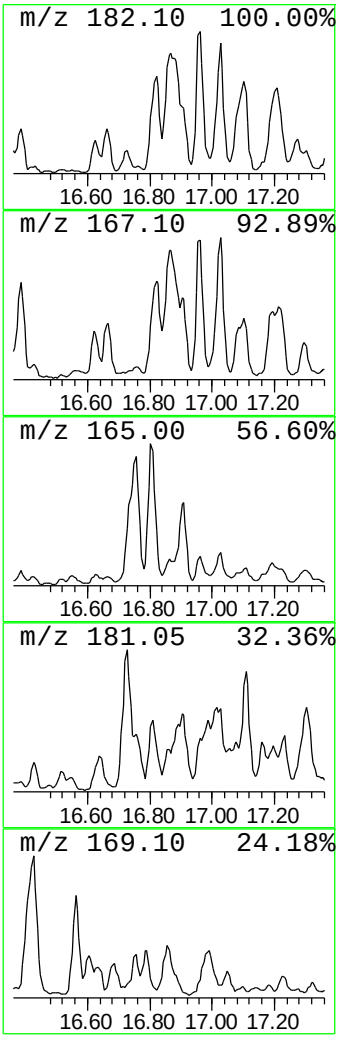
****

Peak Number 19 4,4'-Dimethylbiphenyl Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.86	6.89 ng/ul	420771	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	90
2	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	87
3	1,1'-Biphenyl, 2,3'-dimethyl-	182	C14H14	000611-43-8	74
4	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	74
5	Benzene, 1-methyl-3-(phenylmethyl)-	182	C14H14	000620-47-3	64





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Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

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Quant Title : SVOA CALIBRATION

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

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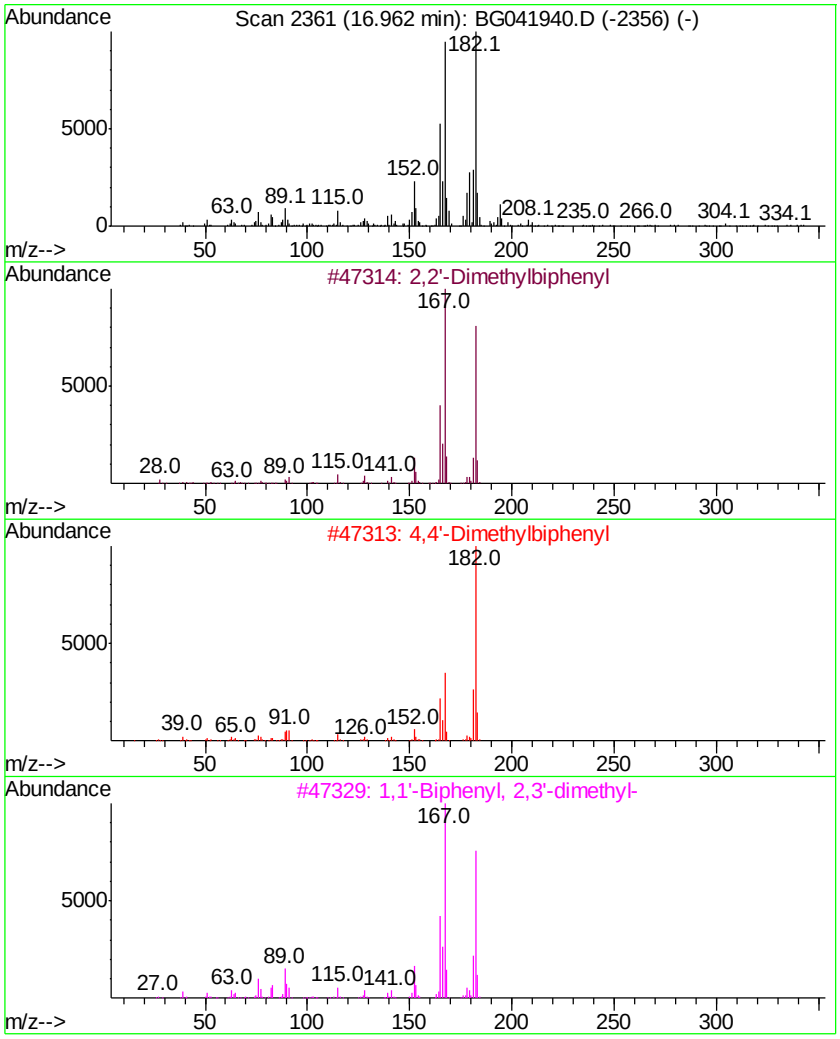
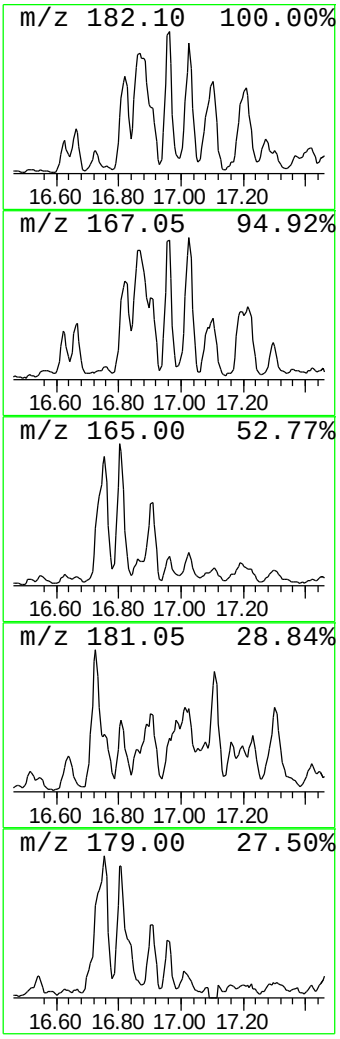
Peak Number 21 2,2'-Dimethylbiphenyl Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.96	7.50 ng/ul	458240	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	93
2	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	93
3	1,1'-Biphenyl, 2,3'-dimethyl-	182	C14H14	000611-43-8	91
4	1,1'-Biphenyl, 2-ethyl-	182	C14H14	001812-51-7	90
5	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	90





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Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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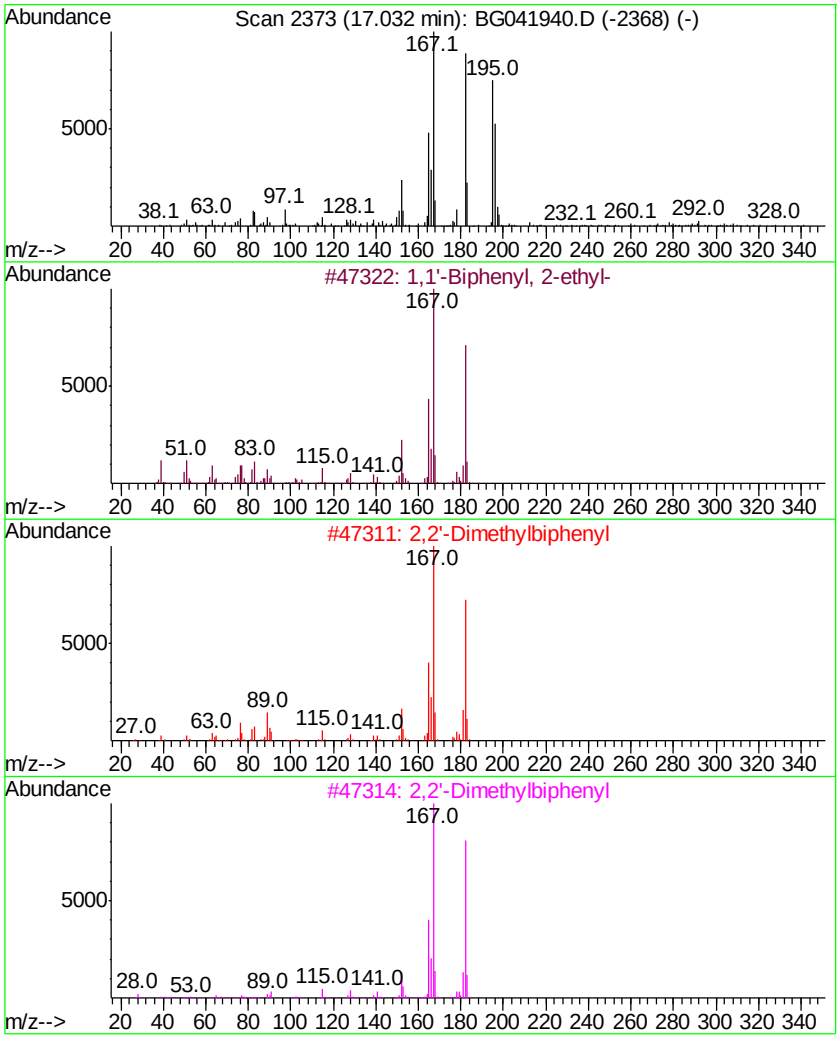
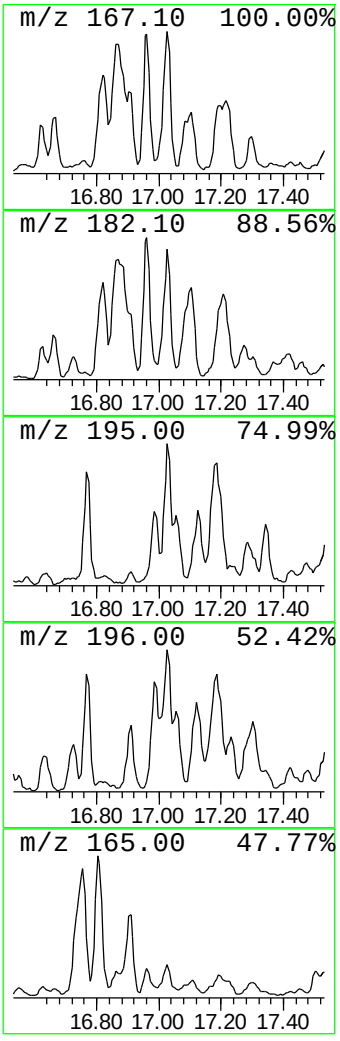
Peak Number 22 1,1'-Biphenyl, 2-ethyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.03	11.13 ng/ul	680167	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2-ethyl-	182	C14H14	001812-51-7	86
2	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	62
3	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	62
4	p-Ethyldiphenylmethane	196	C15H16	000620-85-9	60
5	1,1'-Biphenyl, 2,3'-dimethyl-	182	C14H14	000611-43-8	58





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Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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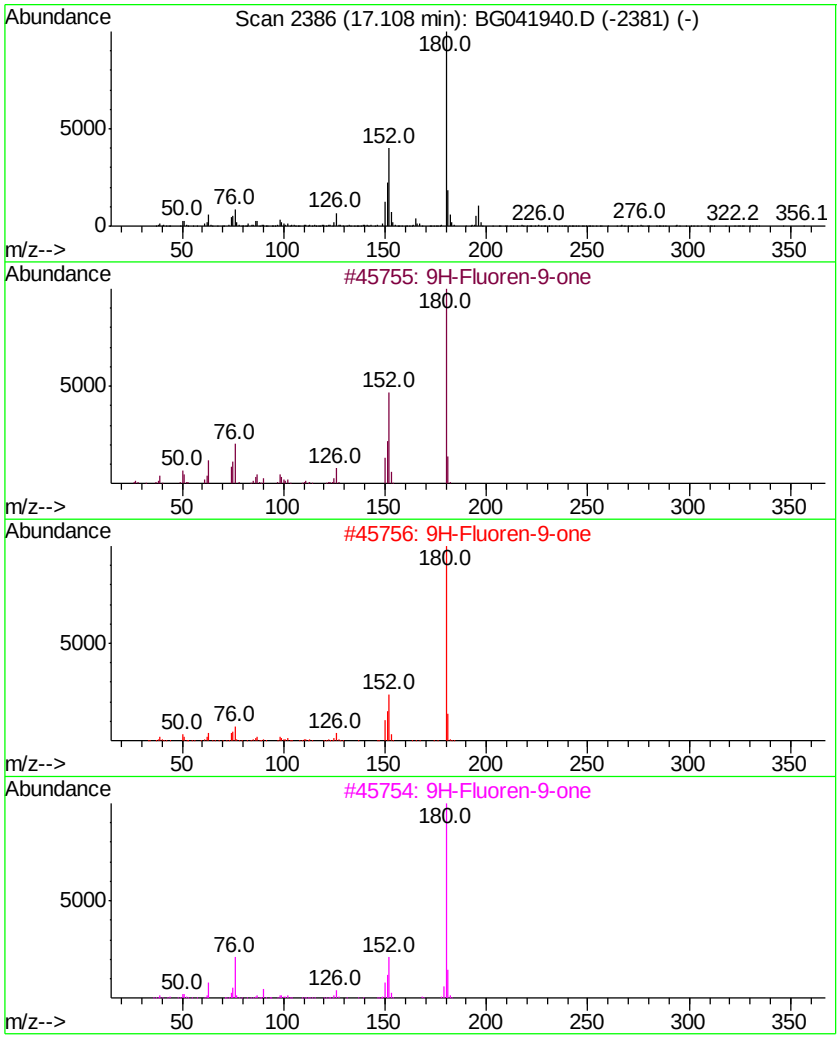
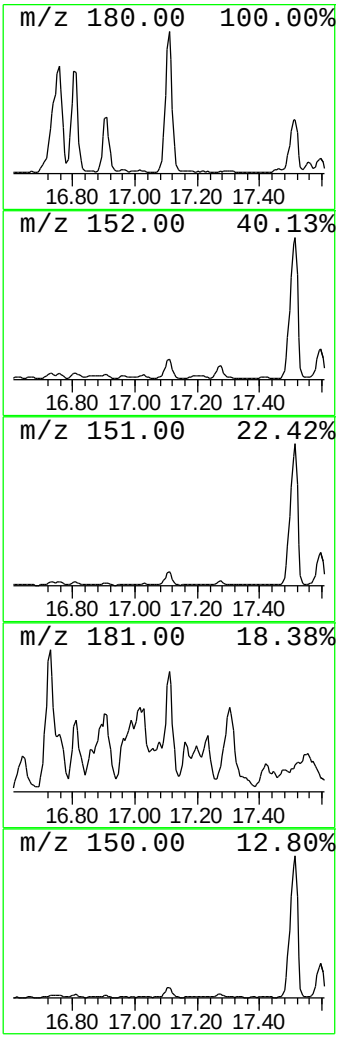
Peak Number 23 9H-Fluoren-9-one Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.11	15.21 ng/ul	929150	Phenanthrene-d10	17.46

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	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	80





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Sample : K3850-08
Misc :
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Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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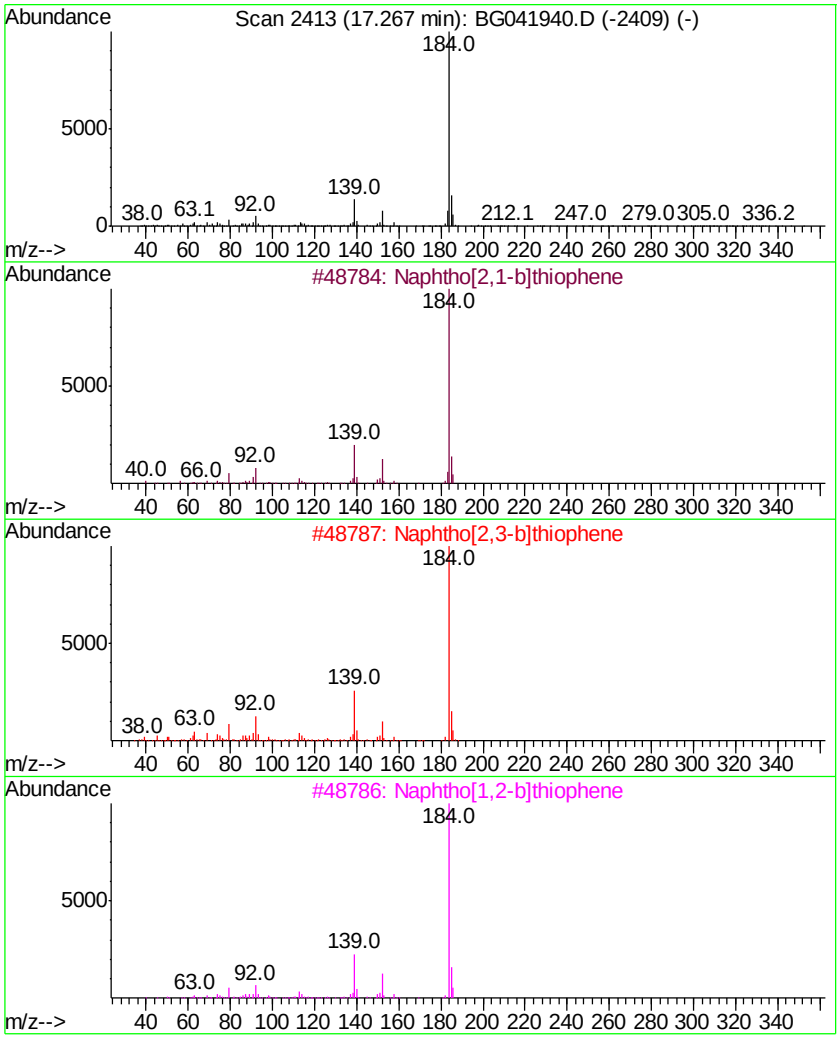
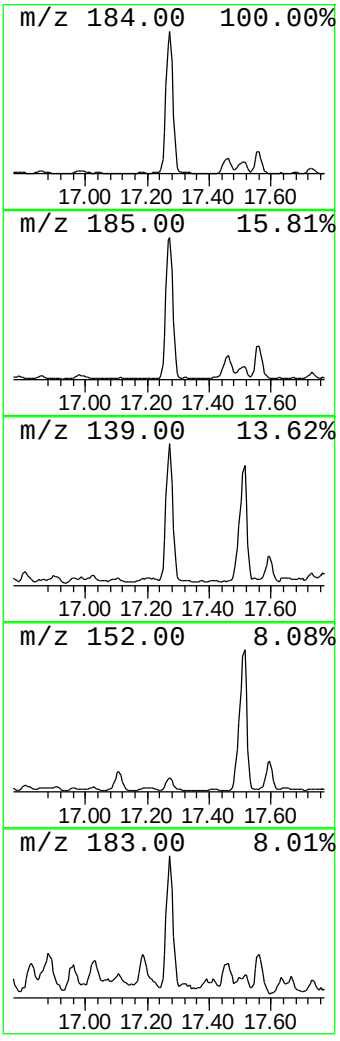
Peak Number 25 Naphtho[2,1-b]thiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.27	30.38 ng/ul	1855910	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
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	94
5	Dibenzothiophene	184	C12H8S	000132-65-0	93





Library Search Compound Report

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Acq On : 4 Aug 2019 13:07
Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

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Quant Title : SVOA CALIBRATION

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

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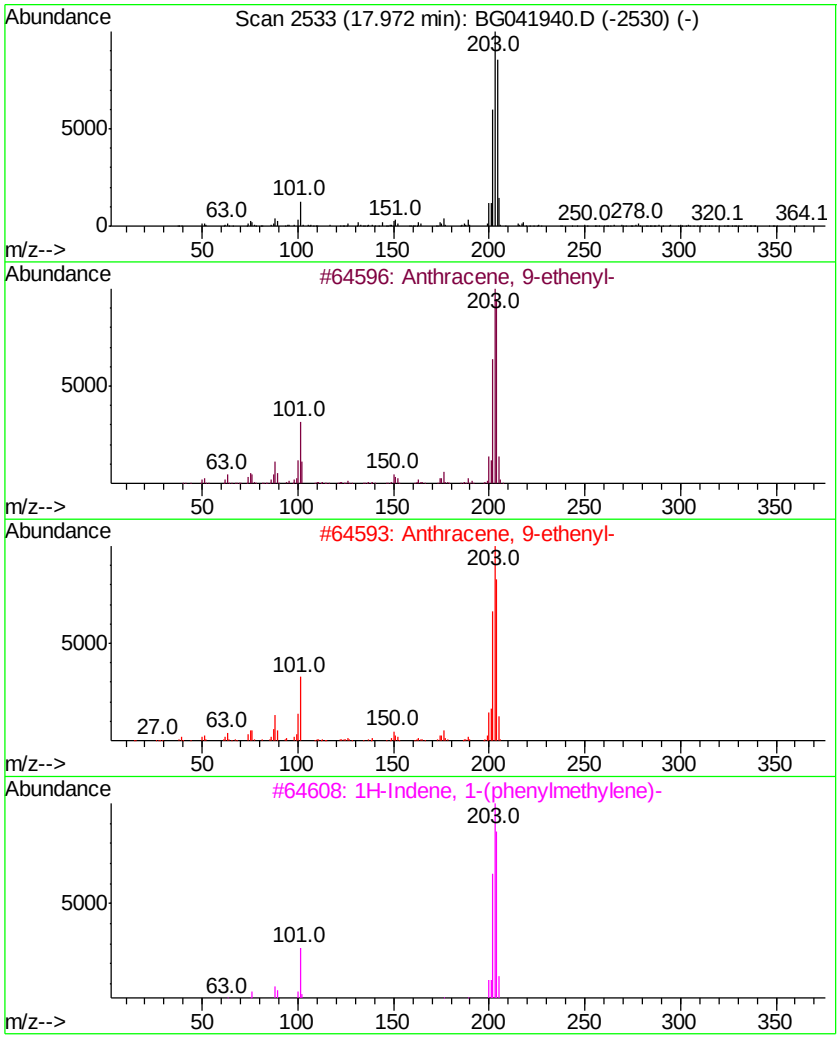
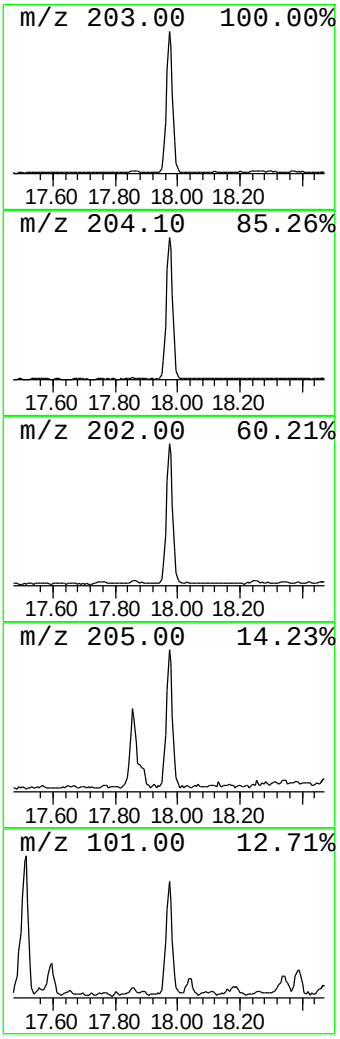
Peak Number 26 Anthracene, 9-ethenyl- Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.97	6.43 ng/ul	392534	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	90
2	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	81
3	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	81
4	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	76
5	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	74





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Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

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Quant Title : SVOA CALIBRATION

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

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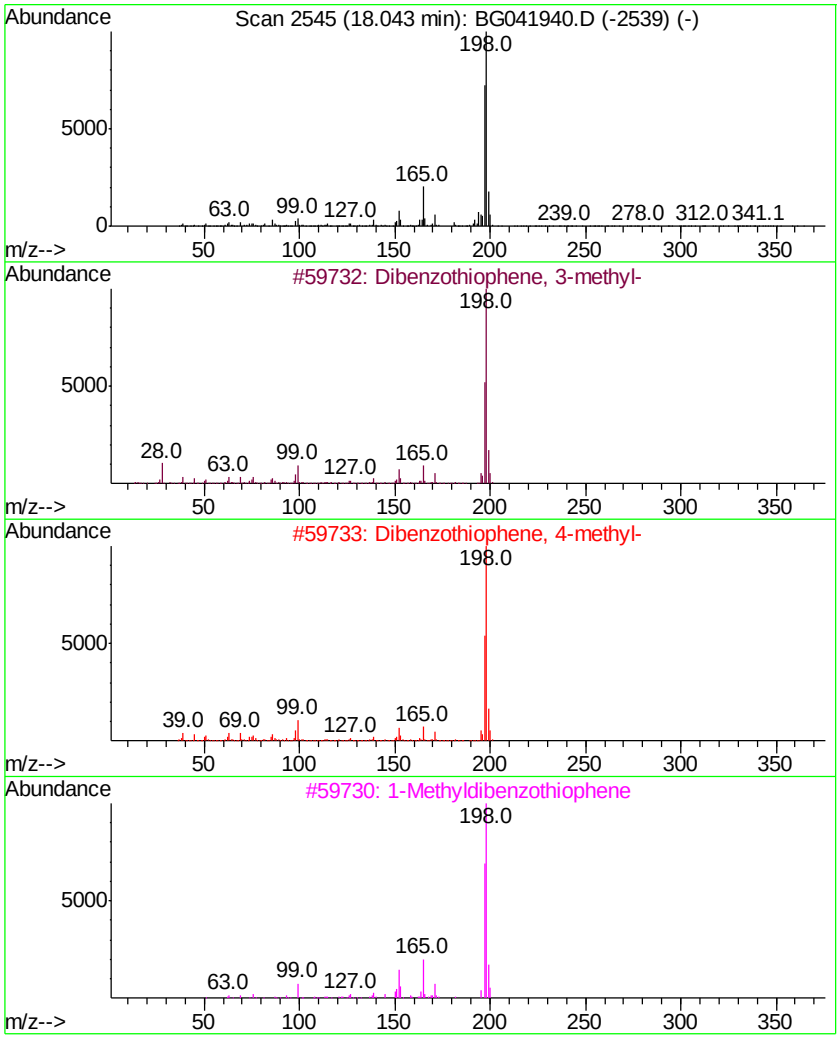
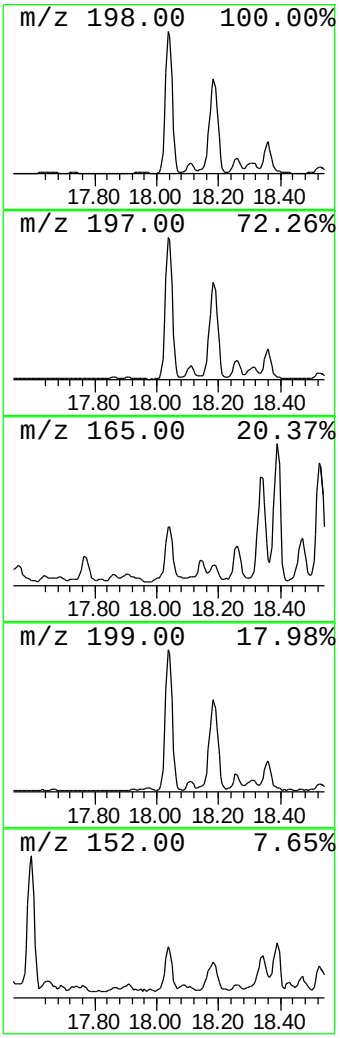
Peak Number 27 Dibenzothiophene, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.04	28.50 ng/ul	1740840	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	91
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
3	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	86
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	64
5	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	64





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Acq On : 4 Aug 2019 13:07
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Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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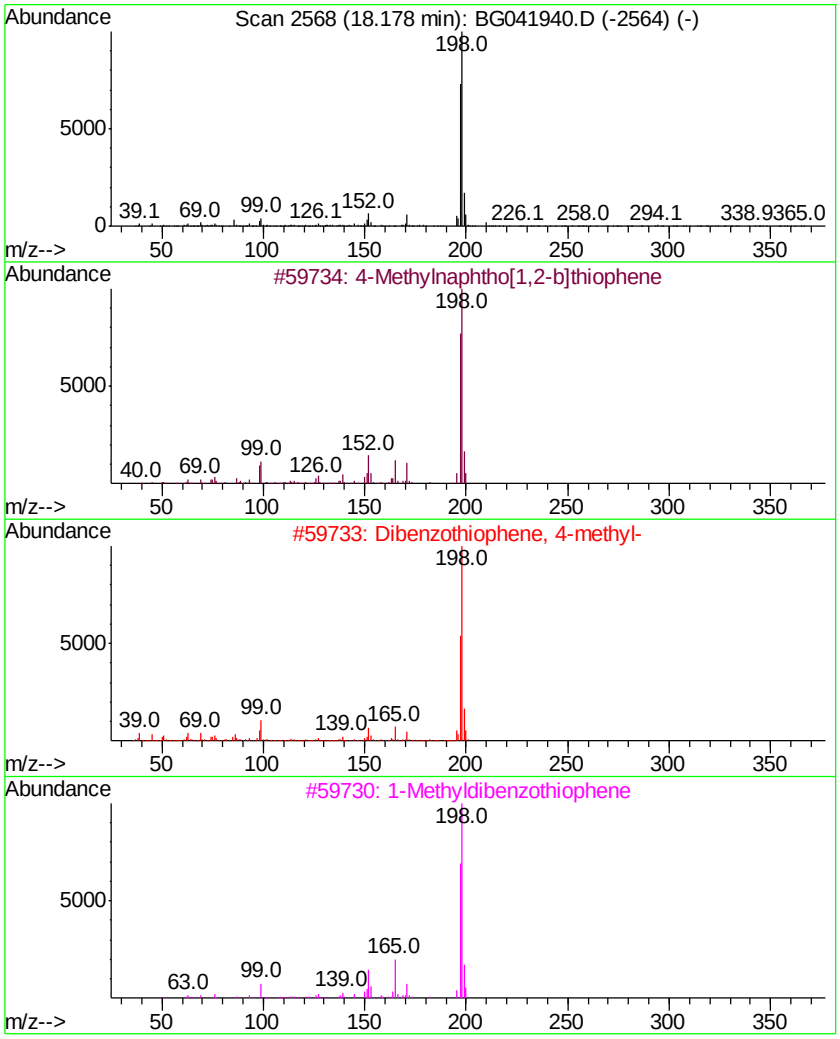
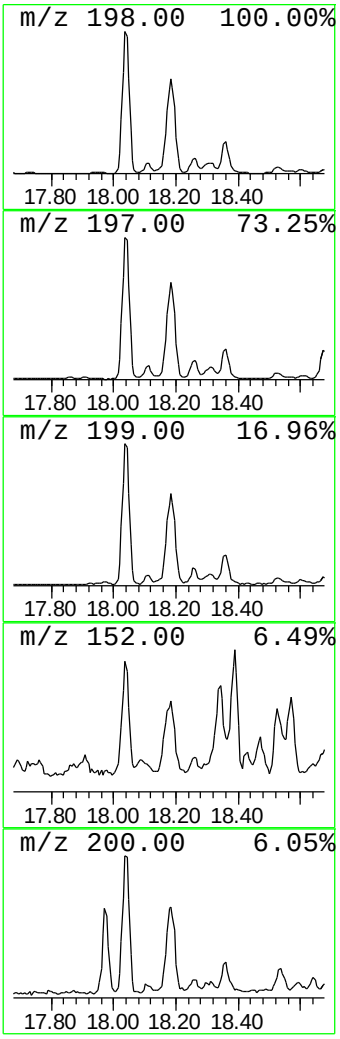
Peak Number 28 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.18	19.41 ng/ul	1185580	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	91
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
3	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	87
4	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	80
5	Tacrine	198	C13H14N2	000321-64-2	80





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Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

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Quant Title : SVOA CALIBRATION

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

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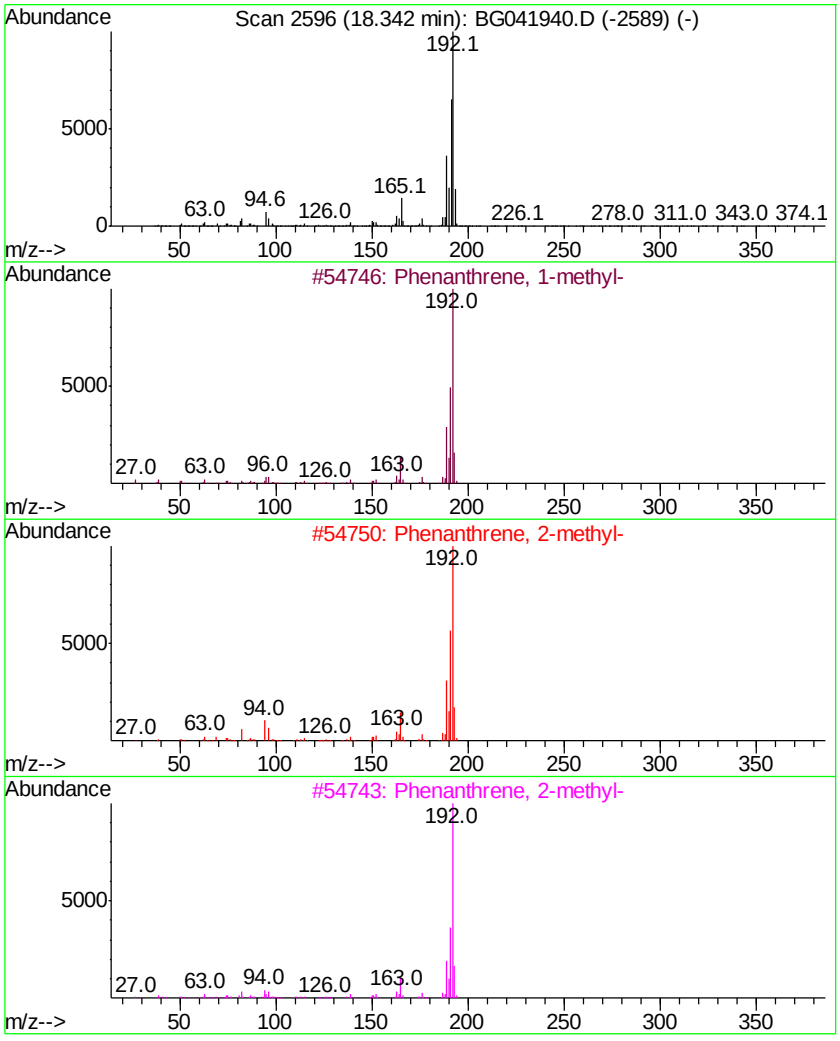
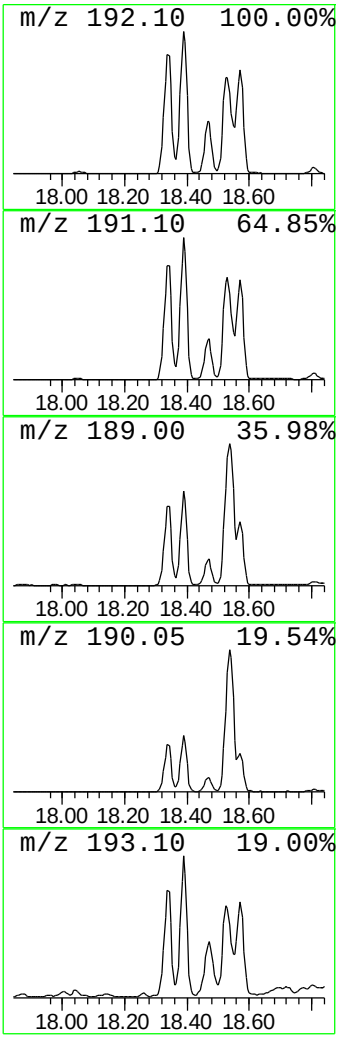
Peak Number 29 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	92.33 ng/ul	5640980	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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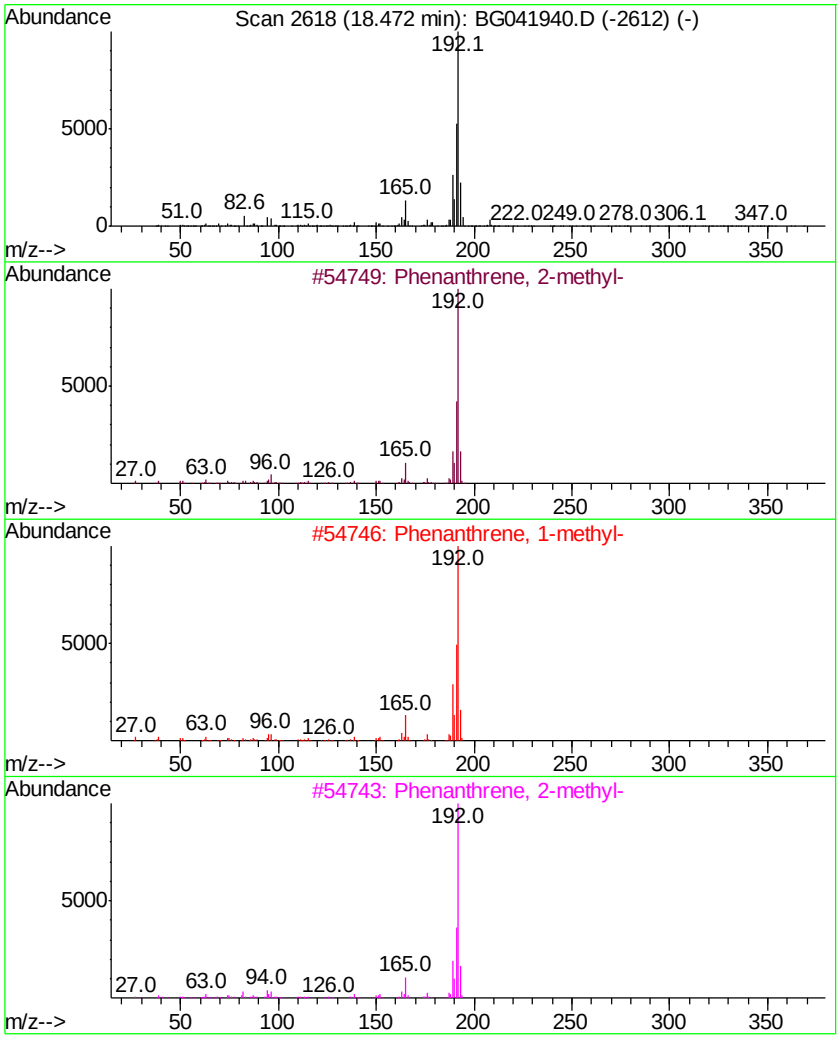
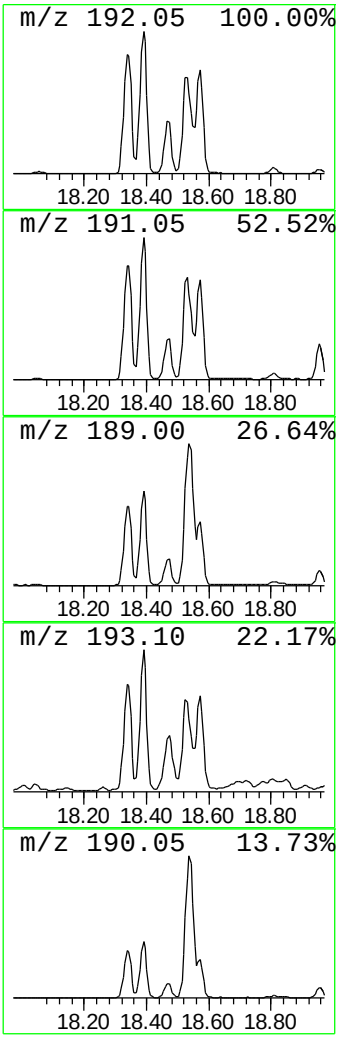
Peak Number 31 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.47	33.70 ng/ul	2058680	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





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Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION

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

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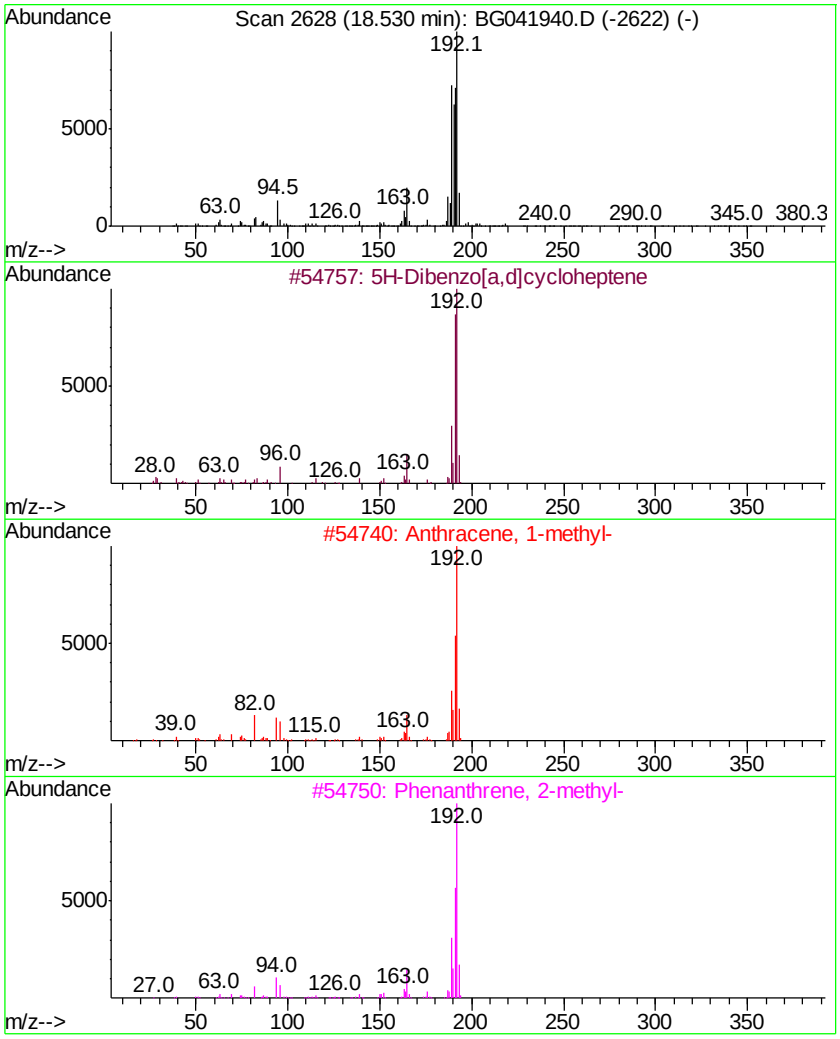
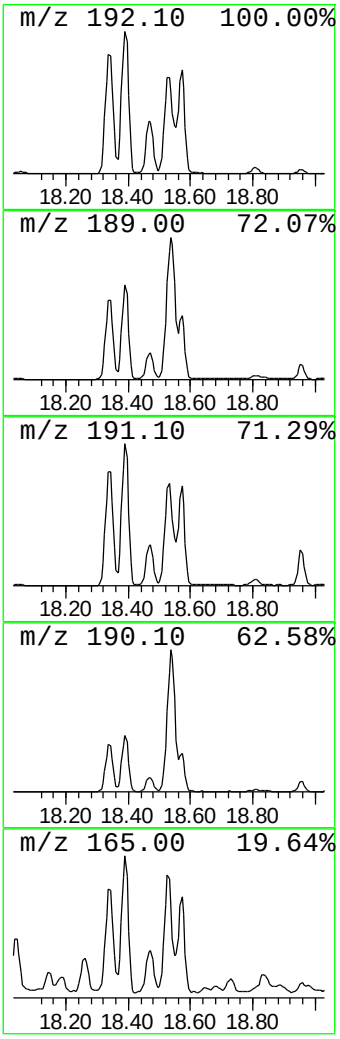
Peak Number 32 5H-Dibenzo[a,d]cycloheptene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	120.49 ng/ul	7360990	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	60
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	58
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	55
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	53





Tentatively Identified Compound (LSC) summary

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Operator : HP/JU
Sample : K3850-08
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BENQ1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.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
Butane, 2-methoxy...	3.15	18.6	ng/ul	534322	1	8.04	573724	20.0
Naphthalene, 1-me...	12.74	28.6	ng/ul	1237280	2	10.86	866536	20.0
Naphthalene, 1-et...	13.73	11.9	ng/ul	948605	3	14.70	1587150	20.0
Naphthalene, 2,6-...	13.87	14.2	ng/ul	1129160	3	14.70	1587150	20.0
Naphthalene, 1,6-...	14.26	8.7	ng/ul	689116	3	14.70	1587150	20.0
1-Isopropenylnaph...	15.01	10.6	ng/ul	843538	3	14.70	1587150	20.0
Naphthalene, 1,6,...	15.18	6.7	ng/ul	535002	3	14.70	1587150	20.0
Naphthalene, 2,3,...	15.32	5.2	ng/ul	410244	3	14.70	1587150	20.0
Naphthalene, 1,4,...	15.49	7.2	ng/ul	568555	3	14.70	1587150	20.0
Benzeneethanol, ...	15.92	11.0	ng/ul	872067	3	14.70	1587150	20.0
Benzeneacetamide,...	16.00	7.2	ng/ul	568232	3	14.70	1587150	20.0
2,4,6-Cycloheptat...	16.04	9.3	ng/ul	735218	3	14.70	1587150	20.0
unknown-01	16.42	12.1	ng/ul	739516	4	17.46	1221860	20.0
9H-Fluorene, 2-me...	16.76	23.8	ng/ul	1453950	4	17.46	1221860	20.0
9H-Fluorene, 1-me...	16.80	17.0	ng/ul	1040090	4	17.46	1221860	20.0
4,4'-Dimethylbiph...	16.86	6.9	ng/ul	420771	4	17.46	1221860	20.0
2,2'-Dimethylbiph...	16.96	7.5	ng/ul	458240	4	17.46	1221860	20.0
1,1'-Biphenyl, 2-...	17.03	11.1	ng/ul	680167	4	17.46	1221860	20.0
9H-Fluoren-9-one	17.11	15.2	ng/ul	929150	4	17.46	1221860	20.0
Naphtho[2,1-b]thi...	17.27	30.4	ng/ul	1855910	4	17.46	1221860	20.0
Anthracene, 9-eth...	17.97	6.4	ng/ul	392534	4	17.46	1221860	20.0
Dibenzothiophene,...	18.04	28.5	ng/ul	1740840	4	17.46	1221860	20.0
4-Methylnaphtho[1...	18.18	19.4	ng/ul	1185580	4	17.46	1221860	20.0
Phenanthrene, 1-m...	18.34	92.3	ng/ul	5640980	4	17.46	1221860	20.0
Phenanthrene, 2-m...	18.47	33.7	ng/ul	2058680	4	17.46	1221860	20.0
5H-Dibenzo[a,d]cy...	18.53	120.5	ng/ul	7360990	4	17.46	1221860	20.0