LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046367.D
Acq On : 20 Aug 2020 6:09
Operator : CG/JU
Sample : L3633-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMA0

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-BG081320PAH.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	3.140	5	9	28	rVB	1117835	1859385	36.95%	2.652%
2	3.915	137	141	149	rVV	32688	50188	1.00%	0.072%
3	7.106	676	684	697	rBV	274691	484985	9.64%	0.692%
4	7.265	705	711	720	rBV	222109	365195	7.26%	0.521%
5	7.476	740	747	754	rBV	288941	504840	10.03%	0.720%
6	7.940	819	826	834	rBV	333710	574629	11.42%	0.820%
7	8.645	939	946	961	rBV	336796	581517	11.56%	0.830%
8	9.092	1013	1022	1030	rBV	259424	467087	9.28%	0.666%
9	9.814	1134	1145	1155	rBV	222617	404691	8.04%	0.577%
10	10.355	1228	1237	1250	rBV	357129	657670	13.07%	0.938%
11	10.737	1294	1302	1308	rBV	490806	871243	17.31%	1.243%
12	10.866	1316	1324	1342	rVB	260466	506480	10.06%	0.722%
13	13.968	1844	1852	1857	rVV	640921	986680	19.61%	1.407%
14	14.015	1857	1860	1866	rVB	316065	433101	8.61%	0.618%
15	14.256	1889	1901	1919	rBV2	788252	1467522	29.16%	2.093%
16	14.568	1944	1954	1960	rBV2	820659	1276126	25.36%	1.820%
17	14.626	1960	1964	1971	rVB	65707	105475	2.10%	0.150%
18	14.762	1981	1987	2001	rBV	180478	346482	6.89%	0.494%
19	14.967	2016	2022	2028	rVB	65011	105761	2.10%	0.151%
20	15.561	2113	2123	2128	rVV	1065076	1642015	32.63%	2.342%
21	15.614	2128	2132	2137	rVV	119865	180427	3.59%	0.257%
22	15.678	2137	2143	2150	rVV	249658	394996	7.85%	0.563%
23	15.778	2157	2160	2166	rVV5	19760	47066	0.94%	0.067%
24	15.907	2177	2182	2191	rVB	51614	92925	1.85%	0.133%
25	16.054	2200	2207	2215	rVB	53742	119573	2.38%	0.171%
26	16.289	2237	2247	2254	rBV4	30404	58088	1.15%	0.083%
27	16.618	2291	2303	2308	rBV4	41749	127467	2.53%	0.182%
28	16.847	2333	2342	2346	rBV4	52170	108356	2.15%	0.155%
29	16.889	2346	2349	2352	rVV2	45001	57916	1.15%	0.083%
30	16.965	2356	2362	2370	rVB	151479	251004	4.99%	0.358%
31	17.041	2370	2375	2386	rBV5	55078	153425	3.05%	0.219%
32	17.129	2386	2390	2398	rVB	69192	113543	2.26%	0.162%
33	17.312	2414	2421	2424	rBV	1006338	1582408	31.45%	2.257%
34	17.353	2424	2428	2433	rVV	2260040	3318738	65.95%	4.734%

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Operator : CG/JU
Sample : L3633-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMA0

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-BG081320PAH.M
Title : SVOA CALIBRATION

35	17.411	2433	2438	2441	rVV	1102074	1687811	33.54%	2.408%
36	17.441	2441	2443	2449	rVB	271592	340227	6.76%	0.485%
37	17.500	2449	2453	2459	rVB3	39606	62415	1.24%	0.089%
38	17.623	2470	2474	2479	rVB2	31596	48230	0.96%	0.069%
39	17.705	2479	2488	2493	rBV2	103243	205459	4.08%	0.293%
40	17.829	2504	2509	2515	rVB	156809	216576	4.30%	0.309%
41	17.893	2515	2520	2528	rVB4	58972	110377	2.19%	0.157%
42	17.993	2528	2537	2540	rBV4	24250	52670	1.05%	0.075%
43	18.105	2552	2556	2561	rBV2	39932	56569	1.12%	0.081%
44	18.187	2561	2570	2574	rBV	301785	497405	9.88%	0.710%
45	18.234	2574	2578	2586	rVB	417072	612048	12.16%	0.873%
46	18.310	2586	2591	2596	rVB	99019	146106	2.90%	0.208%
47	18.381	2596	2603	2607	rBV2	461867	866554	17.22%	1.236%
48	18.416	2607	2609	2615	rVB	226290	263673	5.24%	0.376%
49	18.498	2616	2623	2625	rBV4	31517	66442	1.32%	0.095%
50	18.681	2649	2654	2658	rVV	493870	704667	14.00%	1.005%
51	18.722	2658	2661	2668	rVV	337129	468233	9.30%	0.668%
52	18.810	2672	2676	2682	rVB3	29102	54793	1.09%	0.078%
53	18.927	2692	2696	2700	rVV2	93241	135133	2.69%	0.193%
54	18.980	2701	2705	2708	rVV	74355	105468	2.10%	0.150%
55	19.015	2708	2711	2716	rVB2	73996	105016	2.09%	0.150%
56	19.104	2720	2726	2730	rVV	213286	380939	7.57%	0.543%
57	19.162	2730	2736	2739	rVV3	102530	242483	4.82%	0.346%
58	19.192	2739	2741	2744	rVV	87214	104863	2.08%	0.150%
59	19.239	2744	2749	2757	rVB	317845	515112	10.24%	0.735%
60	19.362	2764	2770	2777	rVB	3217619	4866535	96.71%	6.942%
61	19.427	2777	2781	2783	rBV	56538	73079	1.45%	0.104%
62	19.462	2783	2787	2791	rVB2	79826	110643	2.20%	0.158%
63	19.509	2791	2795	2799	rBV	231236	298767	5.94%	0.426%
64	19.556	2799	2803	2807	rBV2	84767	134642	2.68%	0.192%
65	19.603	2808	2811	2814	rVB	44042	51374	1.02%	0.073%
66	19.697	2821	2827	2829	rBV3	1759325	2916756	57.96%	4.161%
67	19.726	2829	2832	2839	rVV	3613434	5032181	100.00%	7.178%
68	19.791	2839	2843	2851	rVB2	154858	268389	5.33%	0.383%
69	19.897	2857	2861	2867	rBV	145804	215008	4.27%	0.307%
70	19.956	2868	2871	2877	rVB2	95695	155655	3.09%	0.222%
71	20.044	2879	2886	2893	rBV4	257918	766034	15.22%	1.093%

LSC Area Percent Report

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Operator : CG/JU
Sample : L3633-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMA0

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-BG081320PAH.M
Title : SVOA CALIBRATION

72	20.179	2905	2909	2911	rBV3	185524	292999	5.82%	0.418%
73	20.214	2911	2915	2921	rVB	306858	491325	9.76%	0.701%
74	20.314	2928	2932	2935	rBV	116397	152866	3.04%	0.218%
75	20.373	2935	2942	2946	rVV3	367137	629397	12.51%	0.898%
76	20.414	2946	2949	2952	rVB3	57095	74076	1.47%	0.106%
77	20.455	2952	2956	2961	rBV3	75552	124163	2.47%	0.177%
78	20.514	2962	2966	2969	rVV	210671	279250	5.55%	0.398%
79	20.555	2969	2973	2978	rVB	260215	359366	7.14%	0.513%
80	20.766	3006	3009	3012	rBV3	46039	68971	1.37%	0.098%
81	20.966	3038	3043	3050	rVB	446744	639299	12.70%	0.912%
82	21.136	3067	3072	3077	rBV2	216668	497739	9.89%	0.710%
83	21.189	3077	3081	3084	rVV	342576	498005	9.90%	0.710%
84	21.236	3084	3089	3094	rVV2	413349	749760	14.90%	1.070%
85	21.289	3094	3098	3107	rVB	374186	639725	12.71%	0.913%
86	21.548	3135	3142	3148	rBV3	1786740	4497951	89.38%	6.416%
87	21.607	3148	3152	3164	rVB	1378353	2363545	46.97%	3.372%
88	21.759	3173	3178	3182	rBV3	109434	238611	4.74%	0.340%
89	21.812	3183	3187	3194	rVB	169304	318342	6.33%	0.454%
90	21.947	3206	3210	3217	rBV3	132781	275045	5.47%	0.392%
91	22.270	3260	3265	3270	rVB	244587	428503	8.52%	0.611%
92	22.341	3272	3277	3284	rVB2	178116	381801	7.59%	0.545%
93	22.529	3306	3309	3313	rBV2	91795	134118	2.67%	0.191%
94	23.686	3498	3506	3514	rBV3	924817	3220207	63.99%	4.594%
95	23.933	3542	3548	3556	rVB	179000	402884	8.01%	0.575%
96	24.380	3617	3624	3631	rBV	534391	1434125	28.50%	2.046%
97	24.456	3631	3637	3643	rVV	737358	1874359	37.25%	2.674%
98	24.527	3643	3649	3661	rVB	944481	2433023	48.35%	3.471%
99	24.668	3664	3673	3681	rBV2	668264	1893630	37.63%	2.701%
100	28.181	4261	4271	4288	rVB3	329835	1473761	29.29%	2.102%

Sum of corrected areas: 70102182

LSC Report - Integrated Chromatogram

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Data File : BG046367.D
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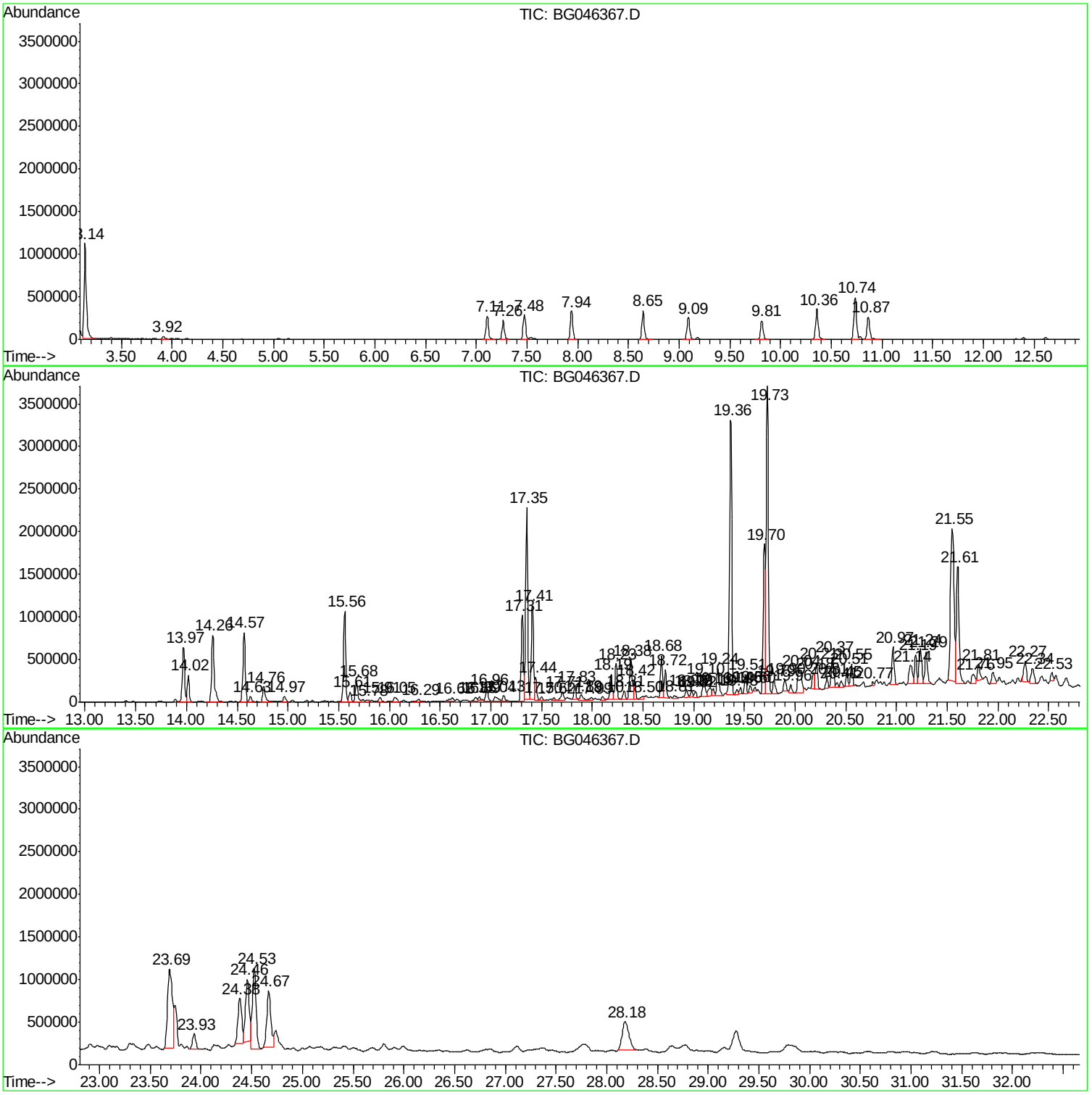
Sample : L3633-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMA0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

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Data File : BG046367.D
Acq On : 20 Aug 2020 6:09
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Sample : L3633-02
Misc :
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Instrument : BNA_G
ClientSampleId : BFMA0

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Quant Title : SVOA CALIBRATION

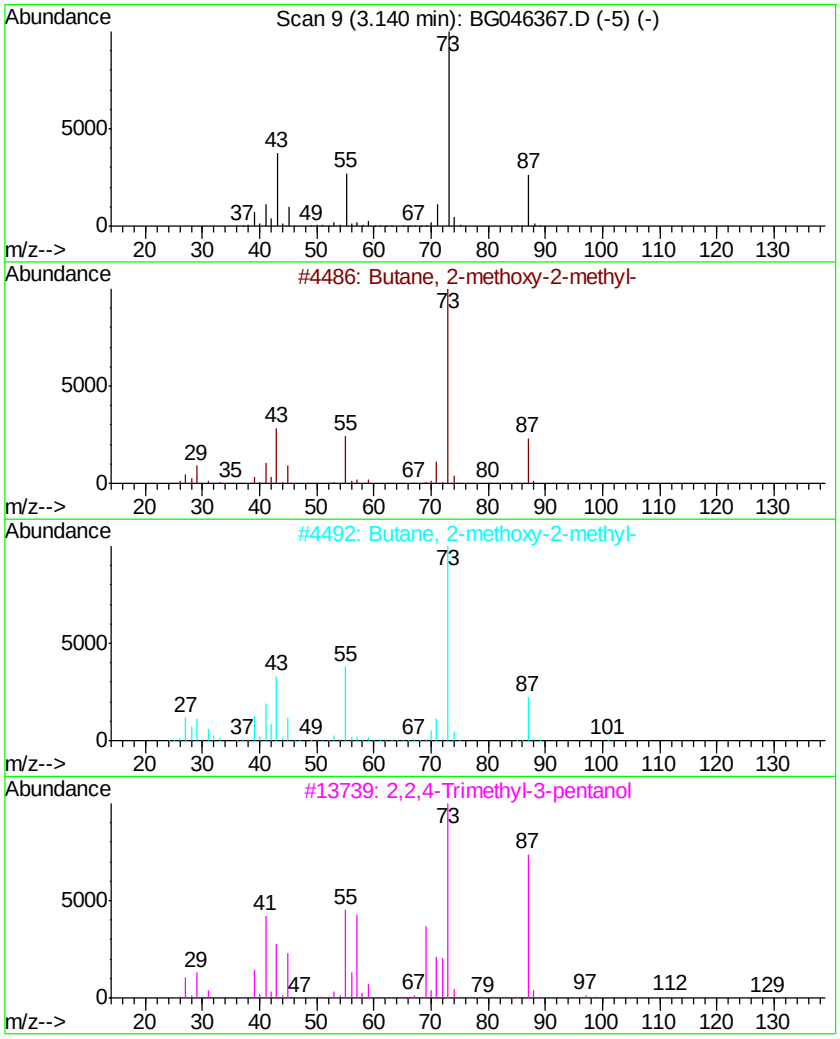
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

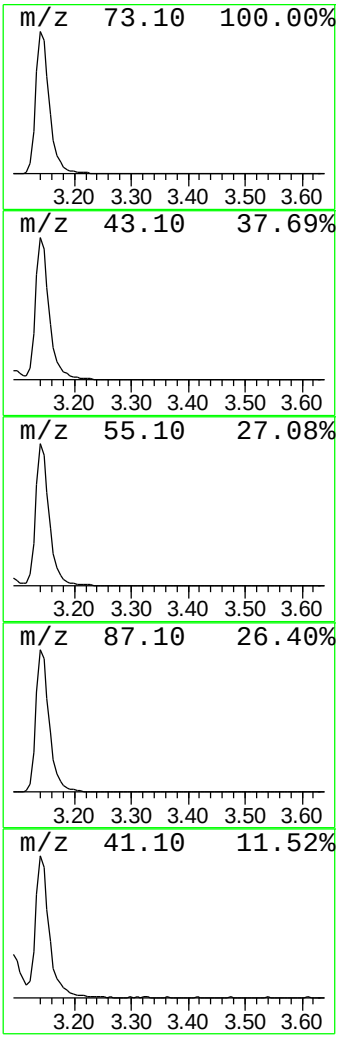
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.14	64.72 ng/ul	1859390	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	74
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	25





Library Search Compound Report

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Sample : L3633-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMA0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

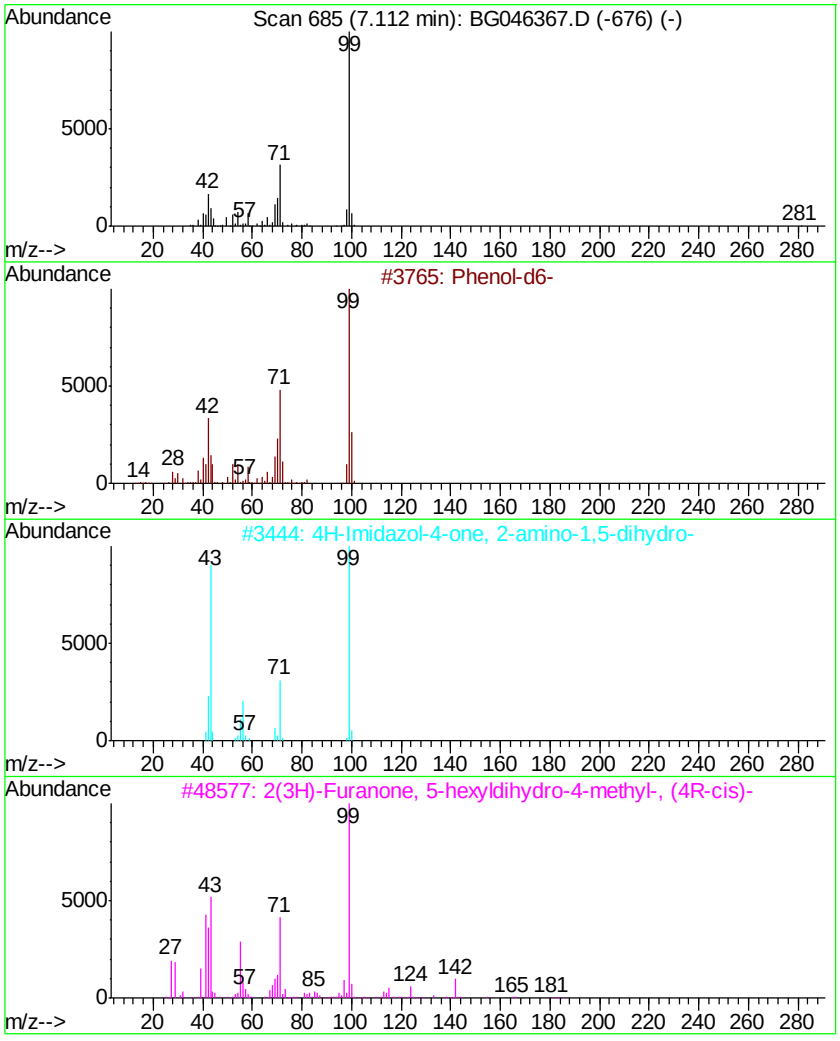
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

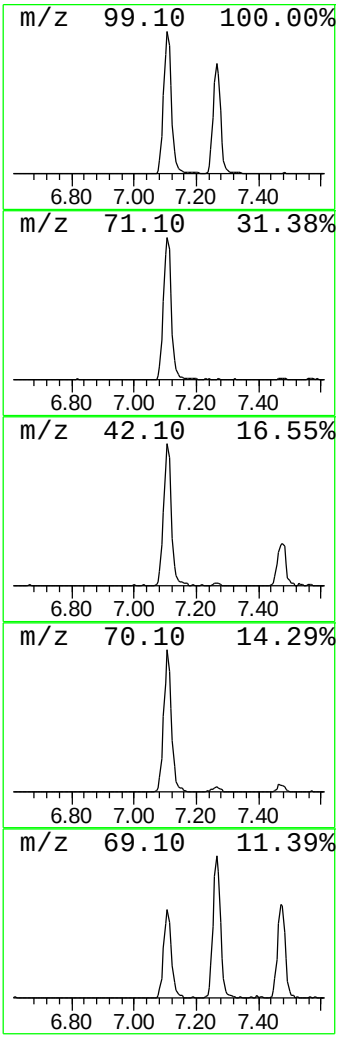
****

Peak Number 2 4H-Imidazol-4-one, 2-amino-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.11	16.88 ng/ul	484985	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol-d6-	100	C6D6O	013127-88-3	64
2	4H-Imidazol-4-one, 2-amino-1,5-d...	99	C3H5N3O	000503-86-6	64
3	2(3H)-Furanone, 5-hexyldihydro-4...	184	C11H20O2	121644-12-0	64
4	2-Furancarboxylic acid, tetrahyd...	144	C6H8O4	022073-04-7	59
5	2(3H)-Furanone, 5-hexyldihydro-4...	184	C11H20O2	147254-33-9	56





Library Search Compound Report

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Instrument : BNA_G
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

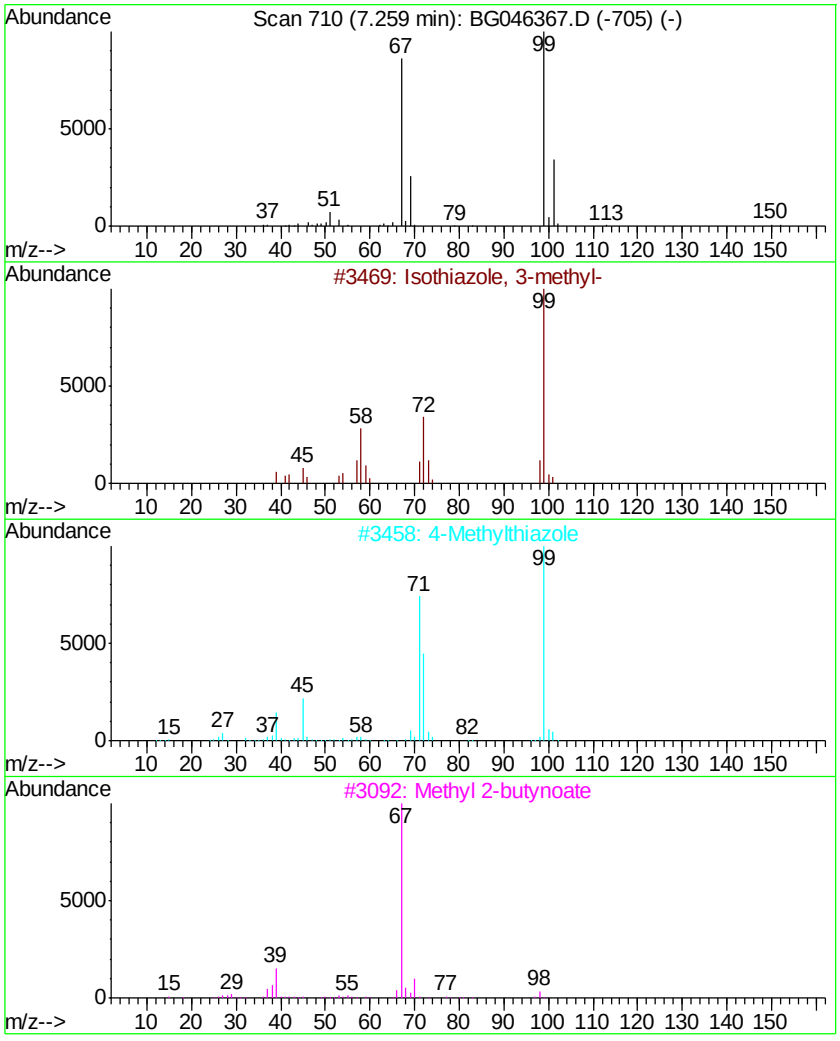
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

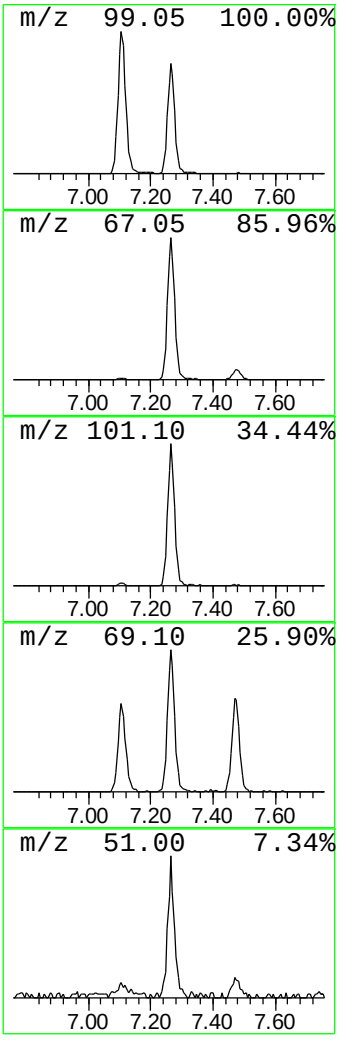
****

Peak Number 3 unknown-01 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.26	12.71 ng/ul	365195	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isothiazole, 3-methyl-	99	C4H5NS	000693-92-5	9
2	4-Methylthiazole	99	C4H5NS	000693-95-8	9
3	Methyl 2-butynoate	98	C5H6O2	023326-27-4	9
4	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	9
5	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	7





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Instrument : BNA_G
ClientSampleId : BFMA0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

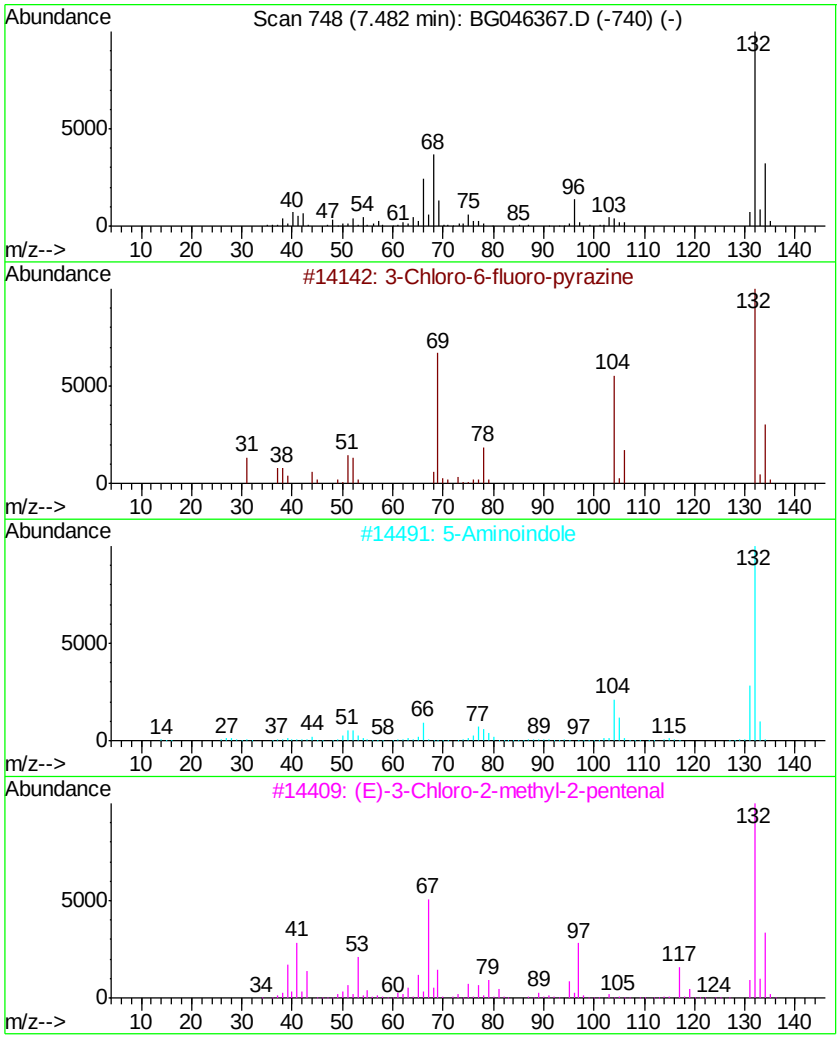
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

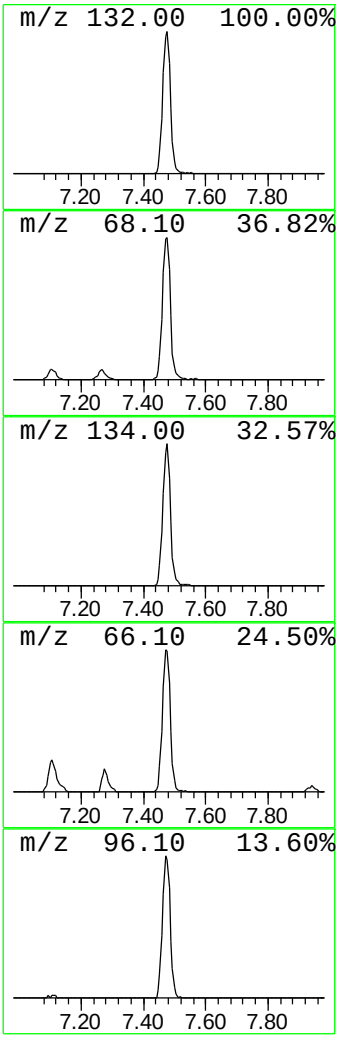
****

Peak Number 4 unknown-02 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.48	17.57 ng/ul	504840	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	5-Aminoindole	132	C8H8N2	005192-03-0	27
3	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
4	1-Isoquinolinemethanol, .alpha.-...	191	C12H17NO	114608-92-3	12
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





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Misc :
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Instrument : BNA_G
ClientSampleId : BFMA0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

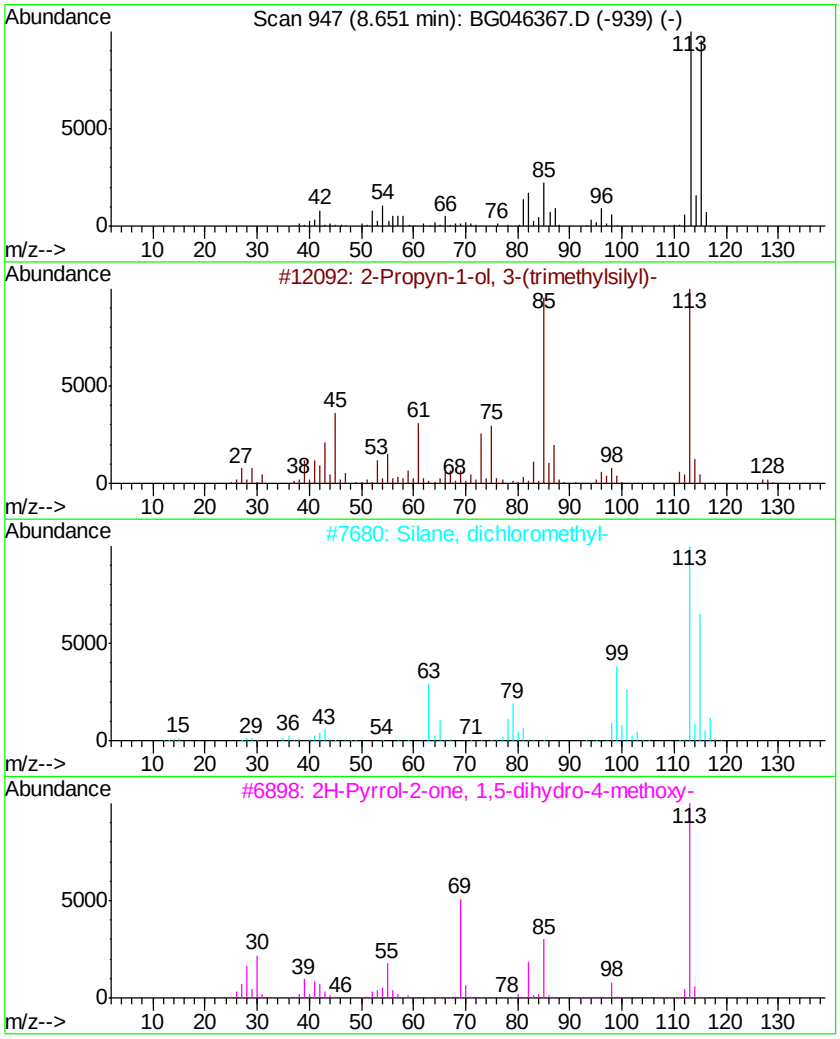
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

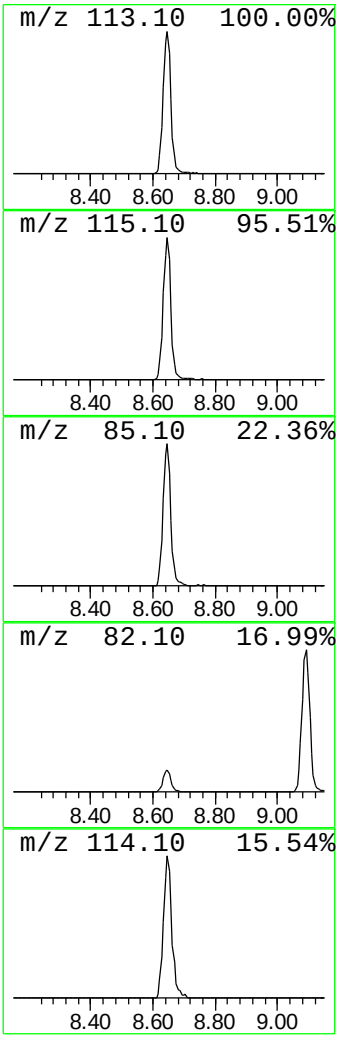
****

Peak Number 5 unknown-03 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.65	20.24 ng/ul	581517	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propyn-1-ol, 3-(trimethylsilyl)-	128	C6H12OSi	005272-36-6	43
2	Silane, dichloromethyl-	114	CH4Cl2Si	000075-54-7	38
3	2H-Pyrrol-2-one, 1,5-dihydro-4-m...	113	C5H7NO2	069778-83-2	32
4	Heptanoic acid, anhydride	242	C14H26O3	000626-27-7	27
5	Butanedioyl dihydrazide	146	C4H10N4O2	004146-43-4	25





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Operator : CG/JU
Sample : L3633-02
Misc :
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Instrument : BNA_G
ClientSampleId : BFMA0

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Quant Title : SVOA CALIBRATION

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

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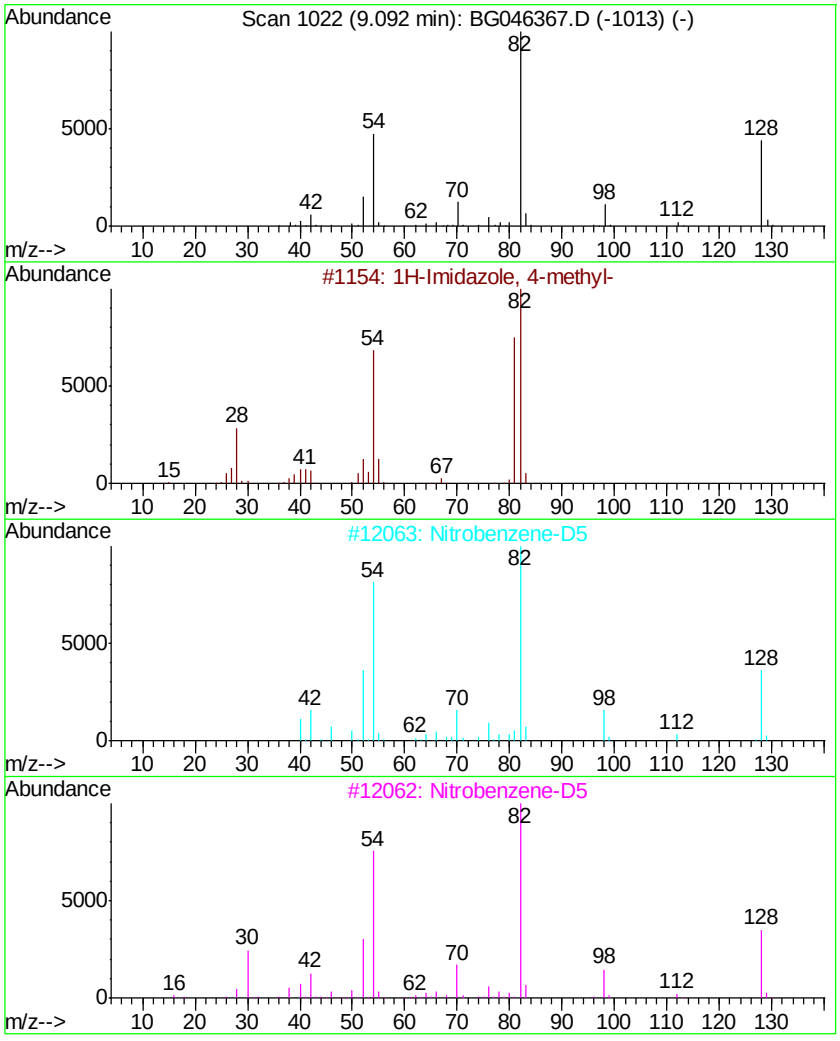
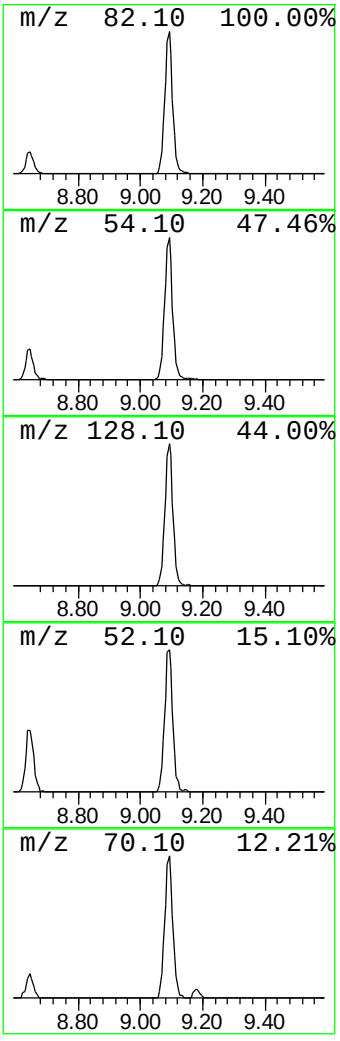
Peak Number 6 1H-Imidazole, 4-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	16.26 ng/ul	467087	1,4-Dichlorobenzene-d4	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Imidazole, 4-methyl-	82	C4H6N2	000822-36-6	50
2	Nitrobenzene-D5	128	C6D5NO2	004165-60-0	43
3	Nitrobenzene-D5	128	C6D5NO2	004165-60-0	38
4	1H-Imidazole, 2-methyl-	82	C4H6N2	000693-98-1	38
5	1H-Imidazole, 4-methyl-	82	C4H6N2	000822-36-6	38





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Instrument : BNA_G
ClientSampleId : BFMA0

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Quant Title : SVOA CALIBRATION

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

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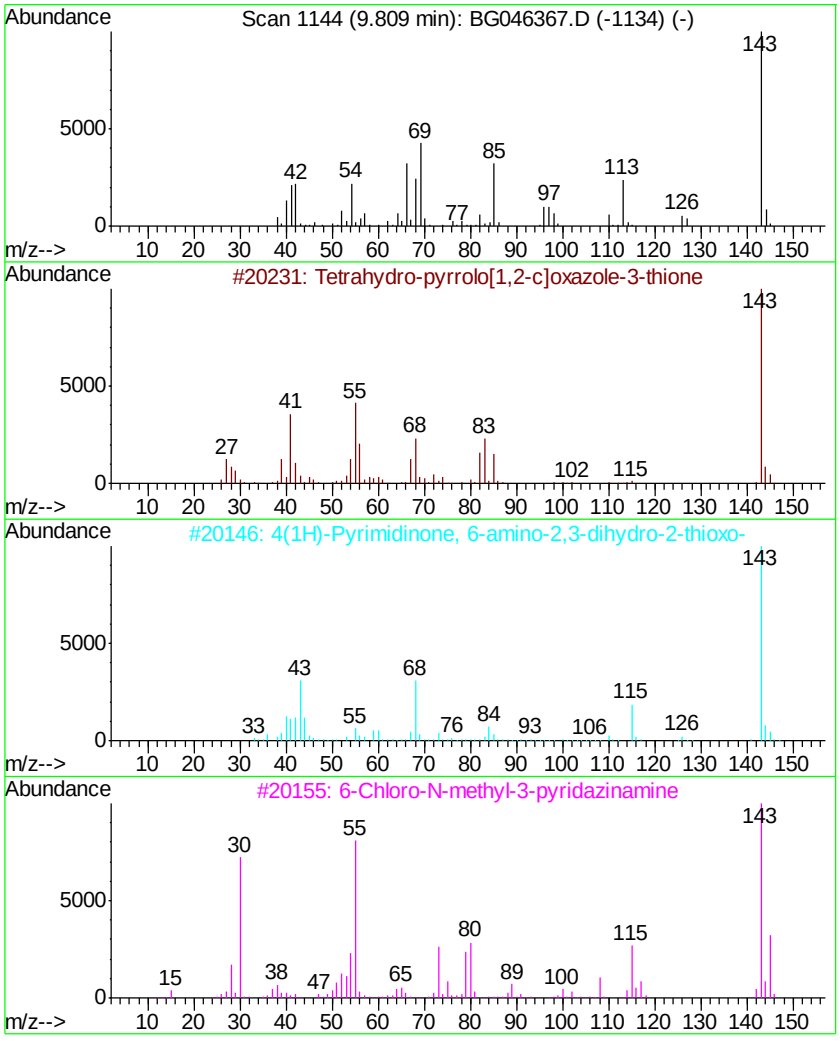
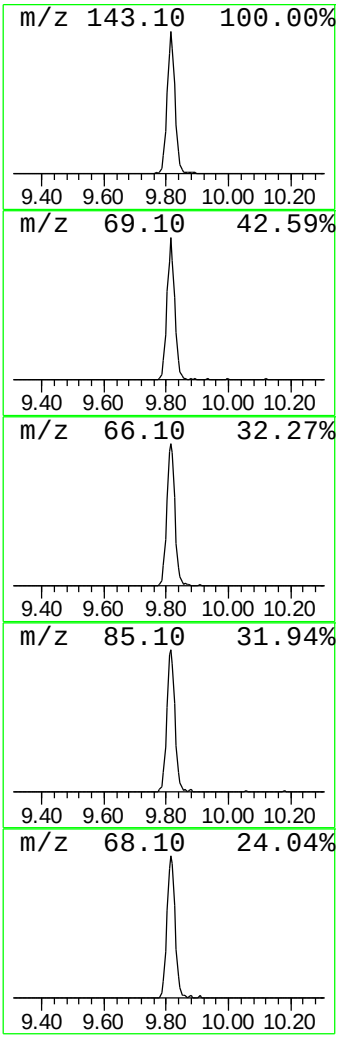
Peak Number 7 unknown-04 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.81	9.29 ng/ul	404691	Naphthalene-d8	10.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetrahydro-pyrrolo[1,2-c]oxazole...	143	C6H9NOS	1000190-53-6	25
2	4(1H)-Pyrimidinone, 6-amino-2,3-...	143	C4H5N3OS	001004-40-6	12
3	6-Chloro-N-methyl-3-pyridazinamine	143	C5H6ClN3	014959-32-1	12
4	3H-1,2,4-Triazole-3-thione,2,4-d...	143	C5H9N3S	037526-42-4	10
5	1,2-Benzenedicarbonitrile, 4-amino-	143	C8H5N3	056765-79-8	10





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Quant Title : SVOA CALIBRATION

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

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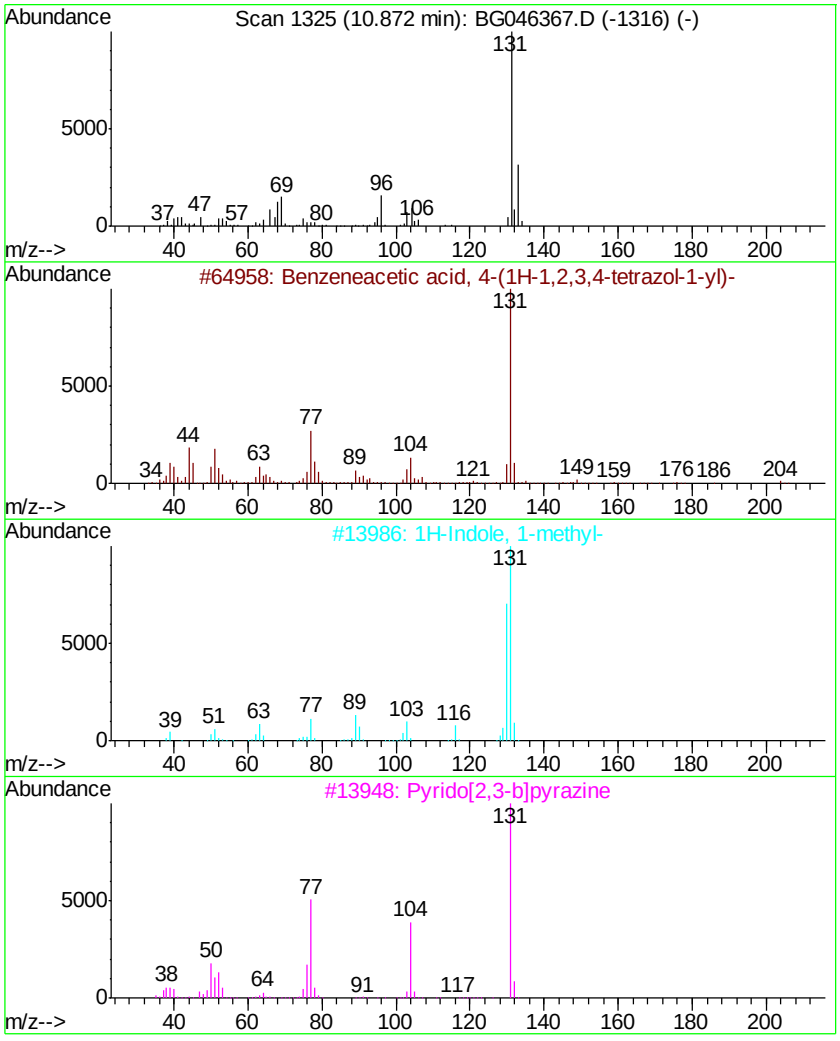
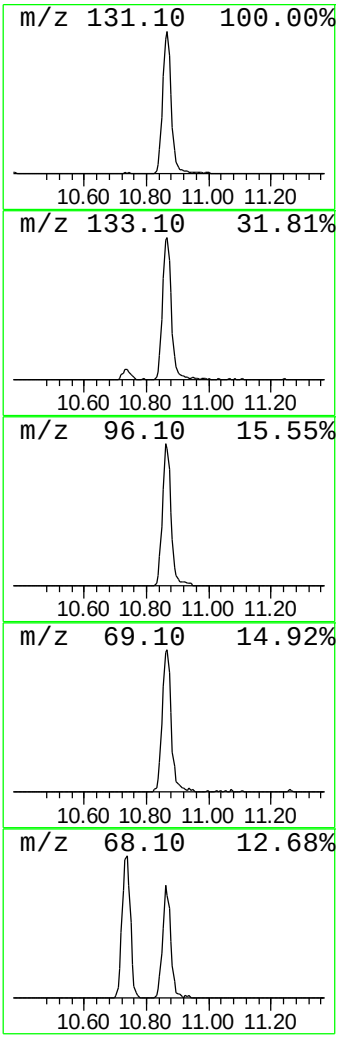
Peak Number 8 unknown-05 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.87	11.63 ng/ul	506480	Naphthalene-d8	10.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneacetic acid, 4-(1H-1,2,3,...	204	C9H8N4O2	1000351-56-5	33
2	1H-Indole, 1-methyl-	131	C9H9N	000603-76-9	25
3	Pyrido[2,3-b]pyrazine	131	C7H5N3	000322-46-3	9
4	4-Pyrimidinamine, 2,6-difluoro-	131	C4H3F2N3	000675-12-7	9
5	1H-Indole, 7-methyl-	131	C9H9N	000933-67-5	9





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Quant Title : SVOA CALIBRATION

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

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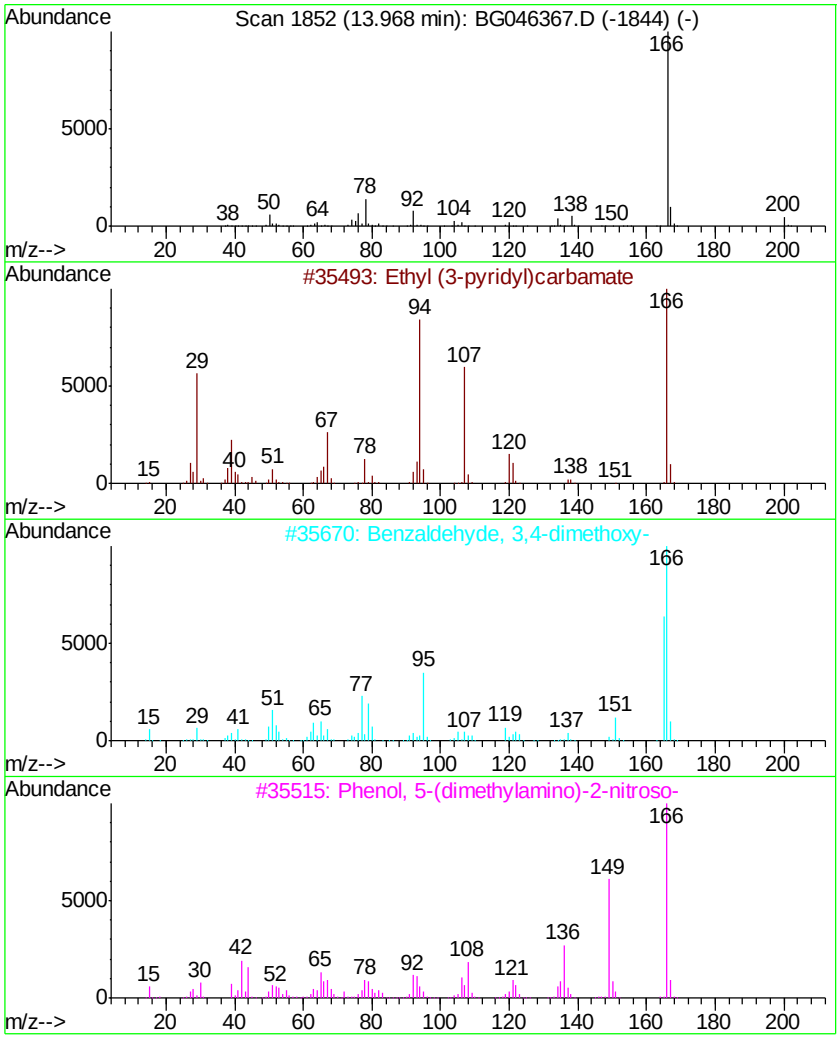
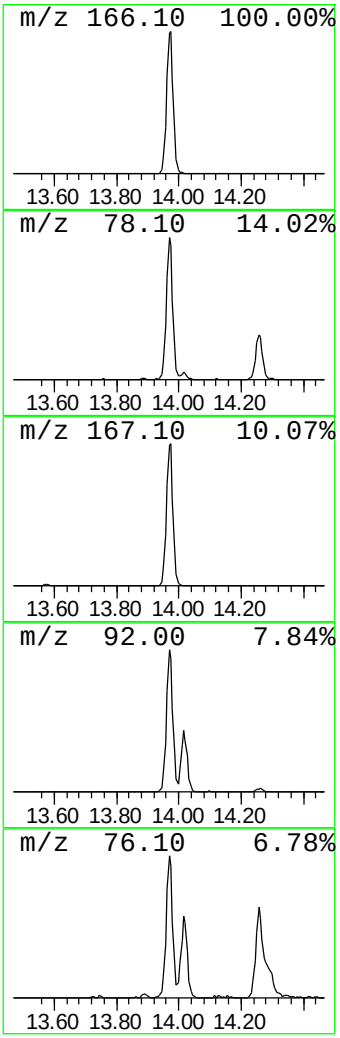
Peak Number 9 unknown-06 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	15.46 ng/ul	986680	Acenaphthene-d10	14.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl (3-pyridyl)carbamate	166	C8H10N2O2	006276-11-5	39
2	Benzaldehyde, 3,4-dimethoxy-	166	C9H10O3	000120-14-9	38
3	Phenol, 5-(dimethylamino)-2-nitr...	166	C8H10N2O2	016761-04-9	38
4	1H-Benzimidazole-2-ethanamine, 5...	195	C9H10ClN3	135875-16-0	38
5	Benzenamine, N,N-dimethyl-4-nitro-	166	C8H10N2O2	000100-23-2	38





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Quant Title : SVOA CALIBRATION

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

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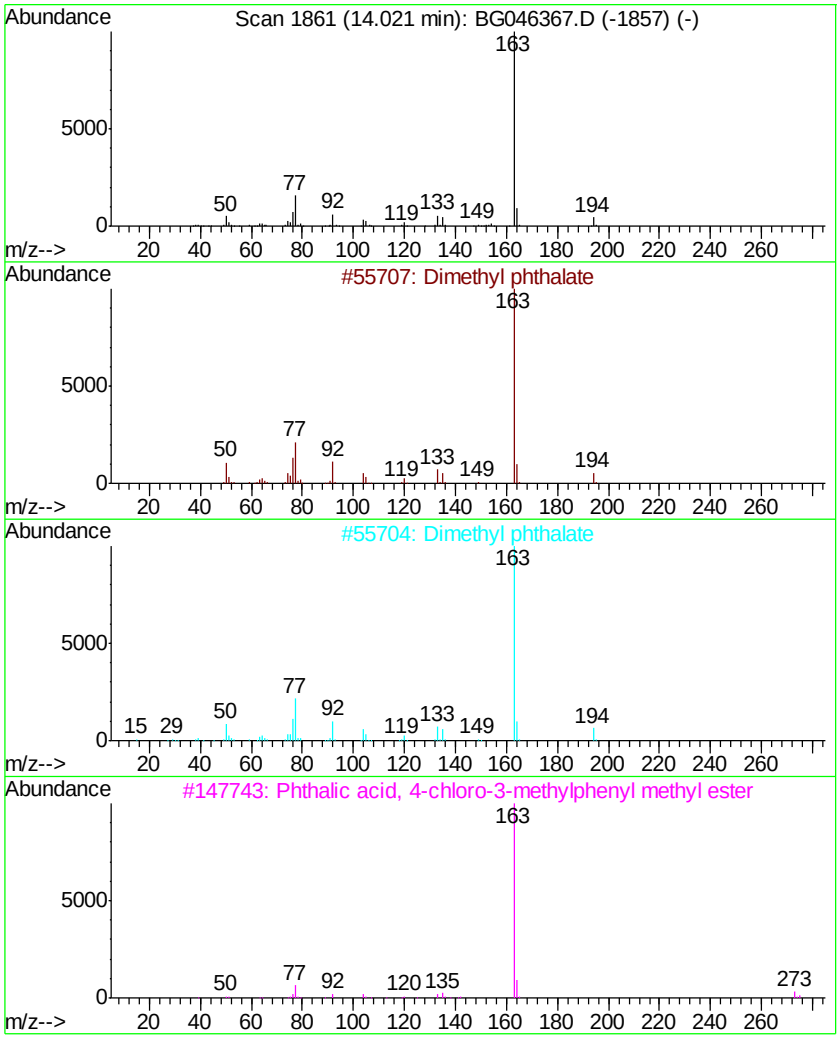
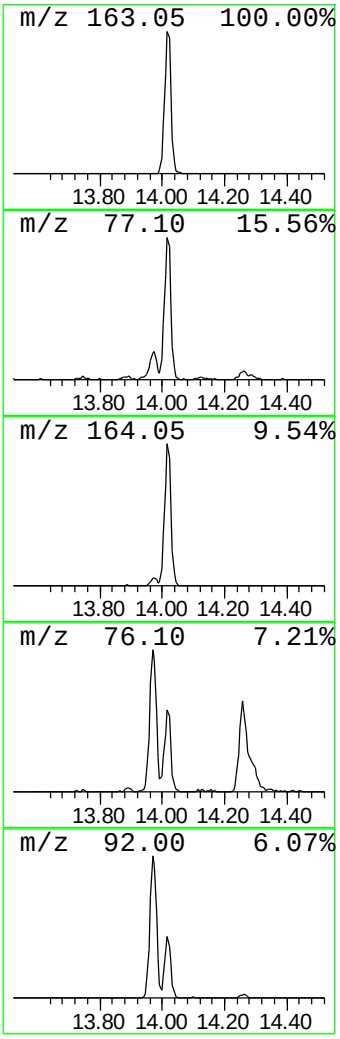
Peak Number 10 Dimethyl phthalate Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.02	6.79 ng/ul	433101	Acenaphthene-d10	14.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl phthalate	194	C10H10O4	000131-11-3	94
2	Dimethyl phthalate	194	C10H10O4	000131-11-3	93
3	Phthalic acid, 4-chloro-3-methyl...	304	C16H13ClO4	1000315-71-2	83
4	Phthalic acid, 4-fluoro-2-nitrop...	319	C15H10FNO6	1000315-63-4	83
5	Hexyl methyl phthalate	264	C15H20O4	1000373-89-7	83





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Quant Title : SVOA CALIBRATION

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

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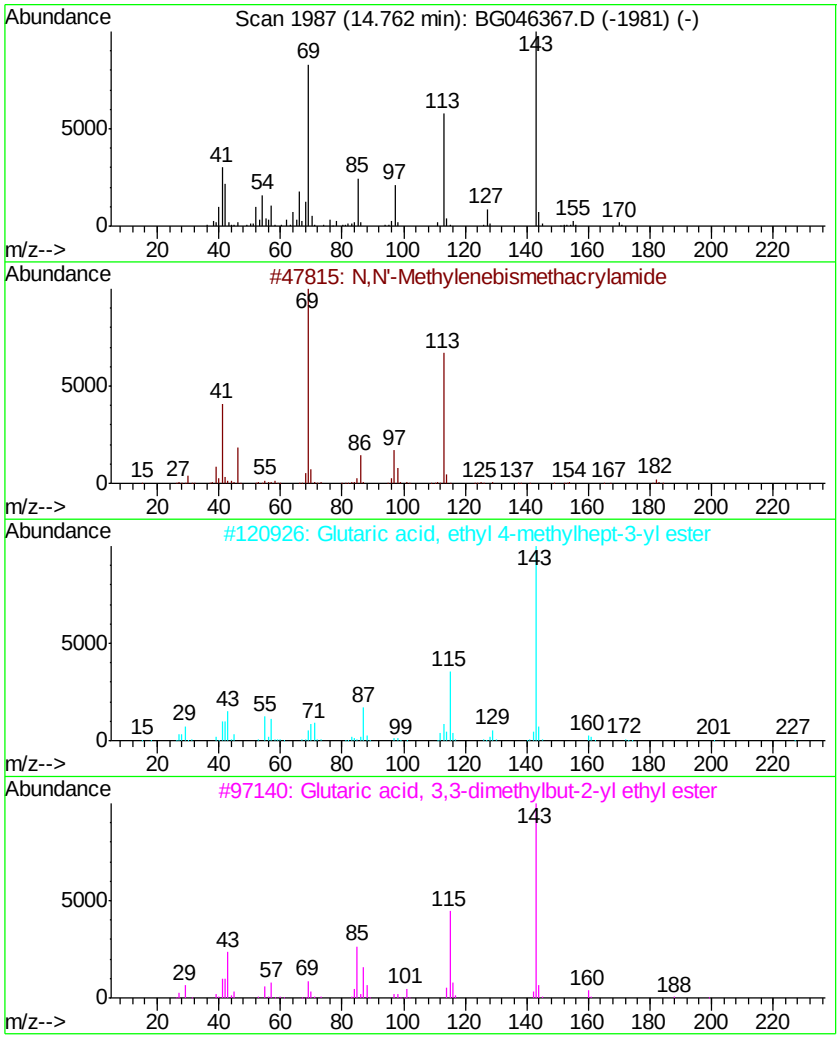
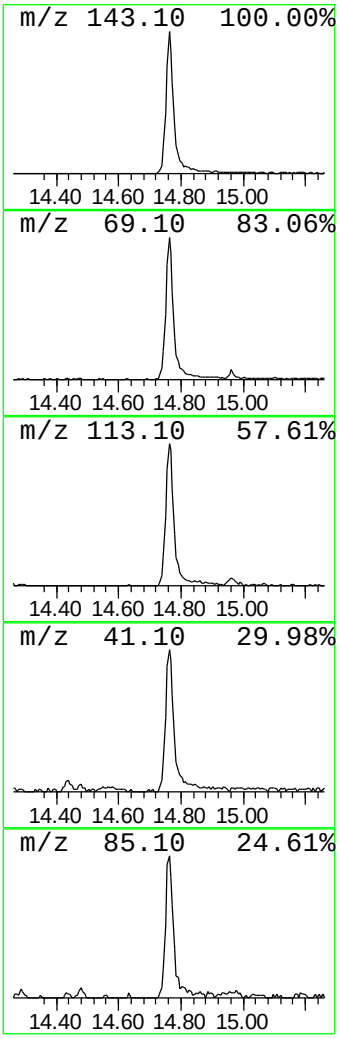
Peak Number 11 unknown-07 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.76	5.43 ng/ul	346482	Acenaphthene-d10	14.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	N,N'-Methylenebismethacrylamide	182	C9H14N2O2	002359-15-1	25
2	Glutaric acid, ethyl 4-methylhep...	272	C15H28O4	1000377-14-9	22
3	Glutaric acid, 3,3-dimethylbut-2...	244	C13H24O4	1000359-74-7	16
4	Phenol, 3-amino-2-chloro-	143	C6H6ClNO	056962-01-7	14
5	1-Cyclopentylethanol, trifluoroa...	210	C9H13F3O2	1000364-11-9	12





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Quant Title : SVOA CALIBRATION

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

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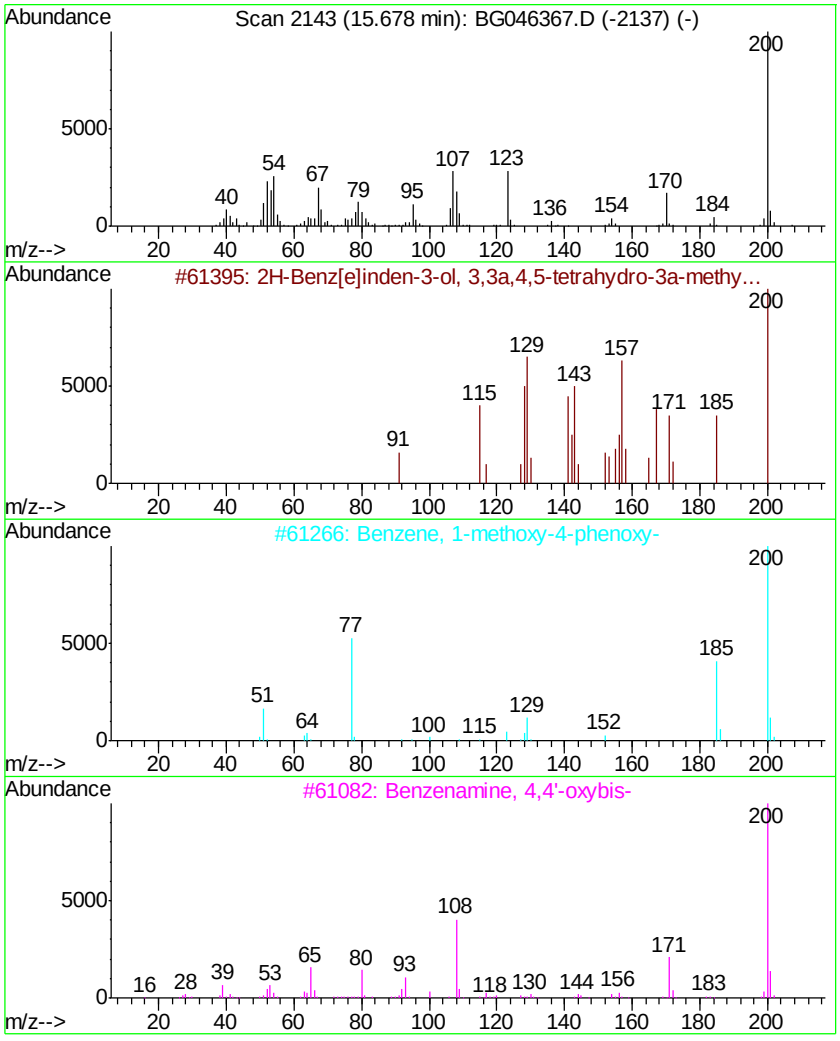
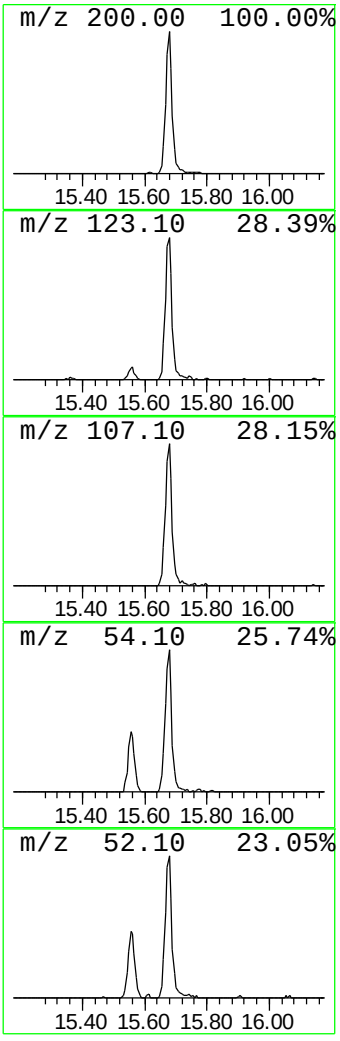
Peak Number 12 unknown-08 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.68	6.19 ng/ul	394996	Acenaphthene-d10	14.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Benz[e]inden-3-ol, 3,3a,4,5-t...	200	C14H16O	071805-91-9	35
2	Benzene, 1-methoxy-4-phenoxy-	200	C13H12O2	001655-69-2	14
3	Benzenamine, 4,4'-oxybis-	200	C12H12N2O	000101-80-4	10
4	2,3-Dihydro-6-isopropyl-1,2,4-tr...	200	C6H8N4S2	014778-89-3	9
5	Tetrafluoroisophthalonitrile	200	C8F4N2	002377-81-3	9





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Quant Title : SVOA CALIBRATION

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

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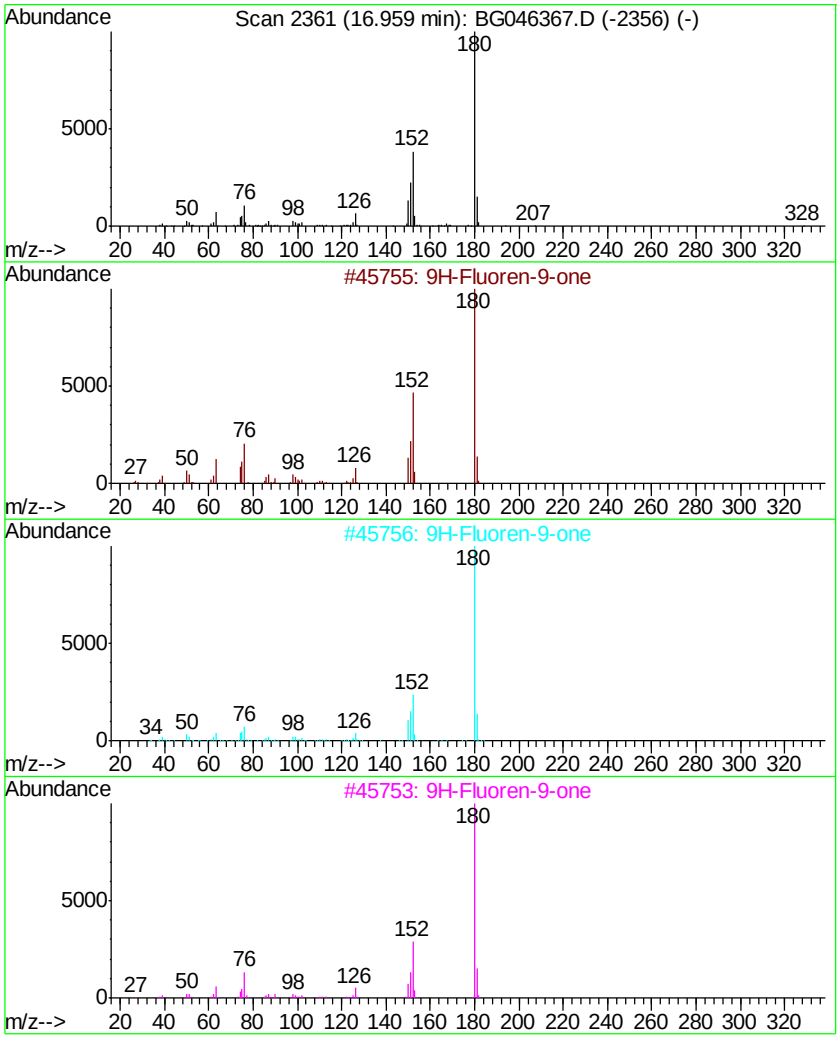
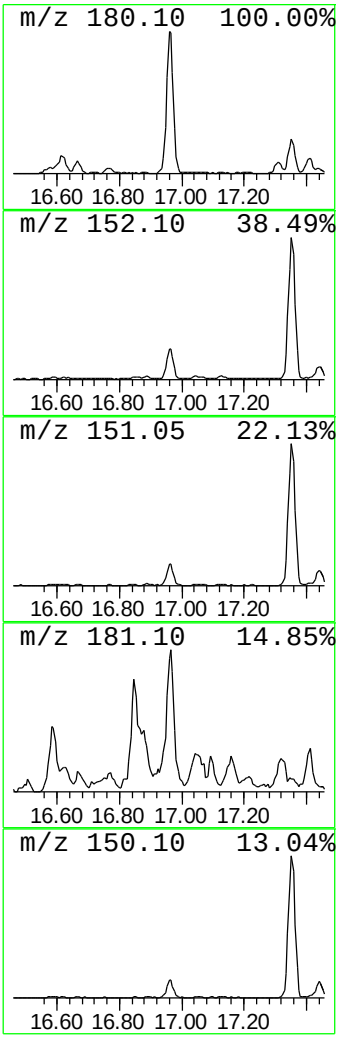
Peak Number 13 9H-Fluoren-9-one Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.96	3.17 ng/ul	251004	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	78





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Quant Title : SVOA CALIBRATION

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

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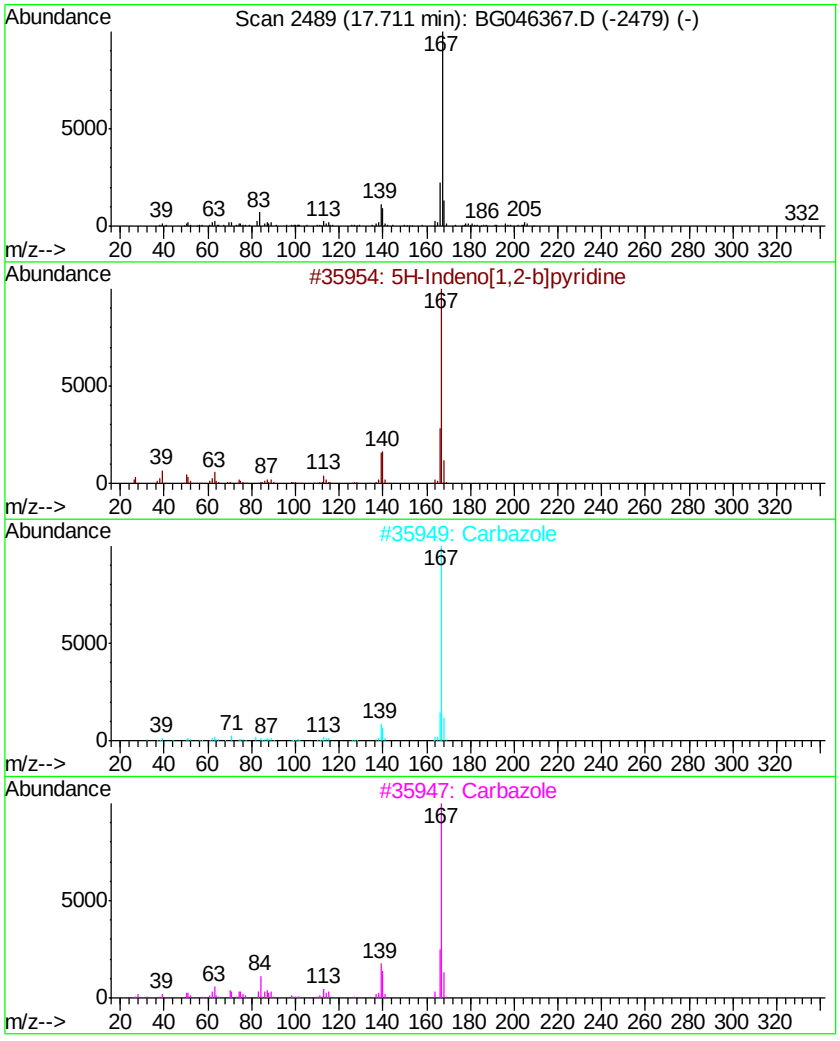
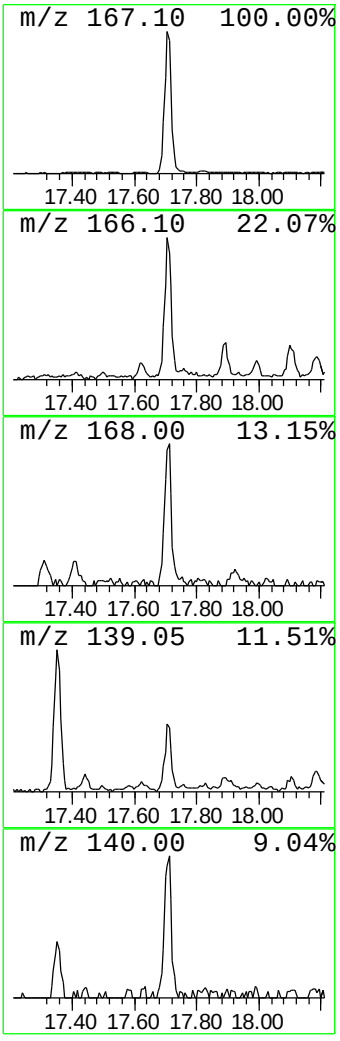
Peak Number 14 5H-Indeno[1,2-b]pyridine Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.71	2.60 ng/ul	205459	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	87
2	Carbazole	167	C12H9N	000086-74-8	87
3	Carbazole	167	C12H9N	000086-74-8	87
4	Carbazole	167	C12H9N	000086-74-8	86
5	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	78





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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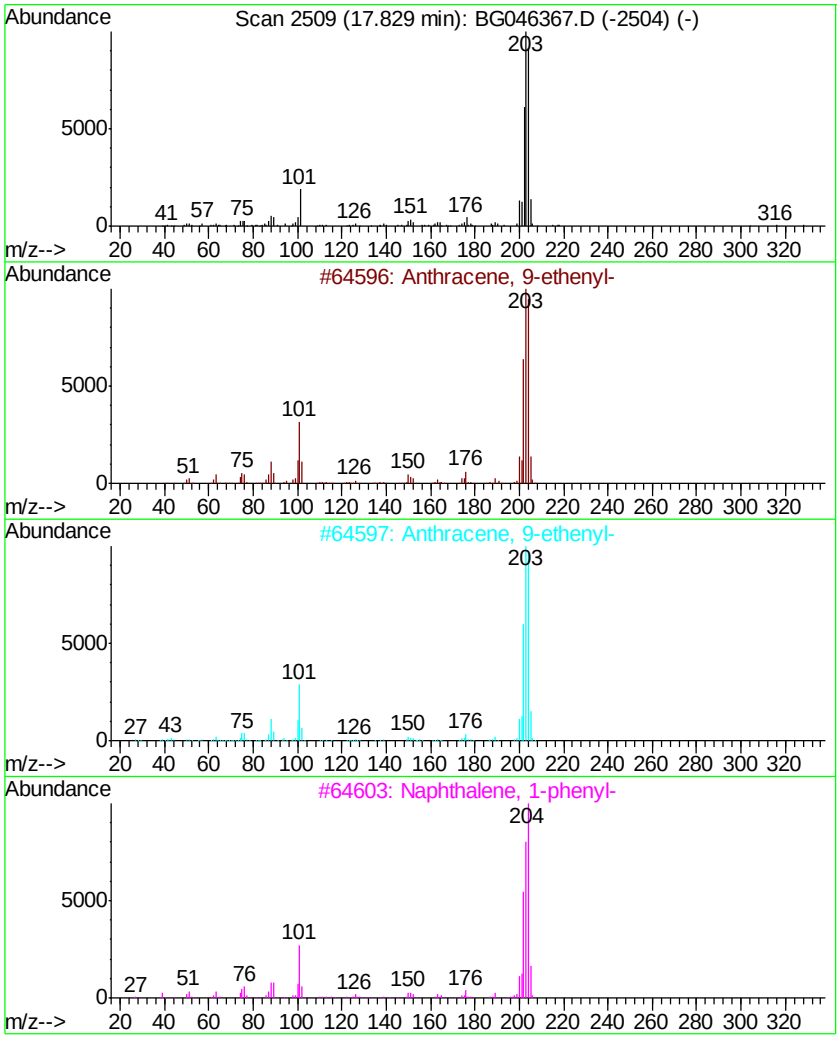
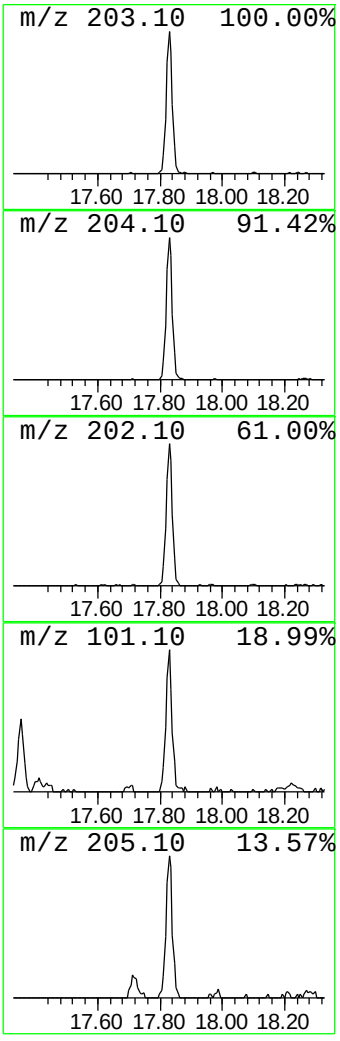
Peak Number 15 Anthracene, 9-ethenyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	2.74 ng/ul	216576	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	93
2	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	90
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	90
4	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	81
5	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	81





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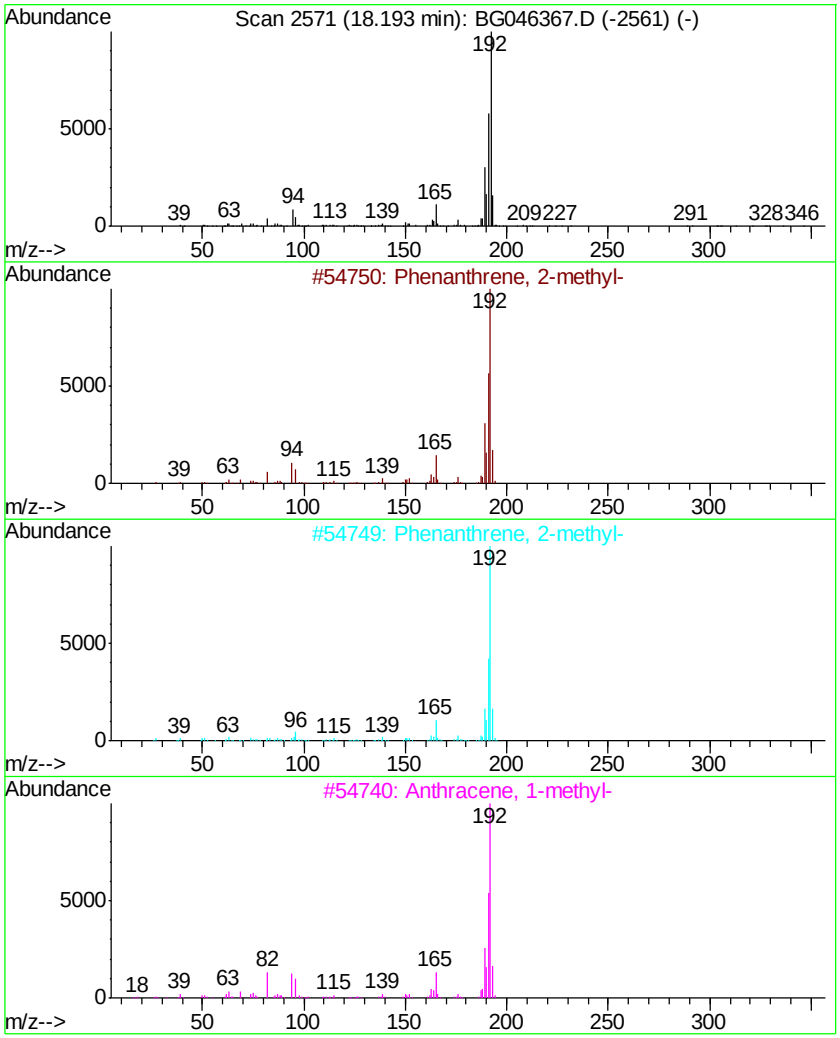
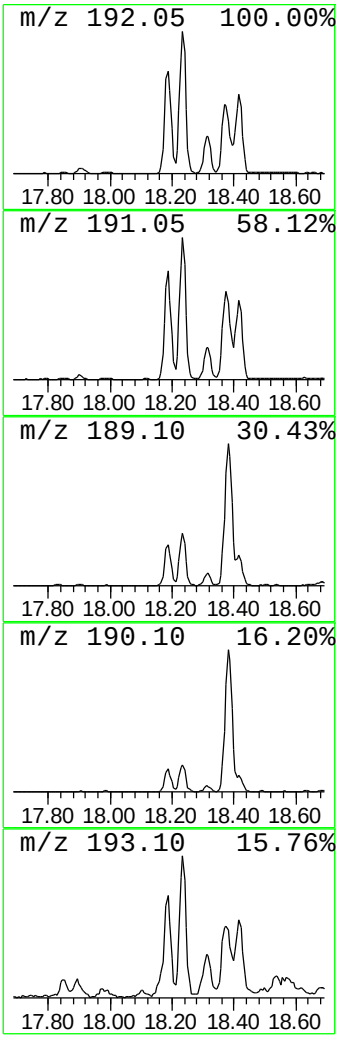
Peak Number 16 Phenanthrene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	6.29 ng/ul	497405	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





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Sample : L3633-02
Misc :
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Instrument : BNA_G
ClientSampleId : BFMA0

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Quant Title : SVOA CALIBRATION

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

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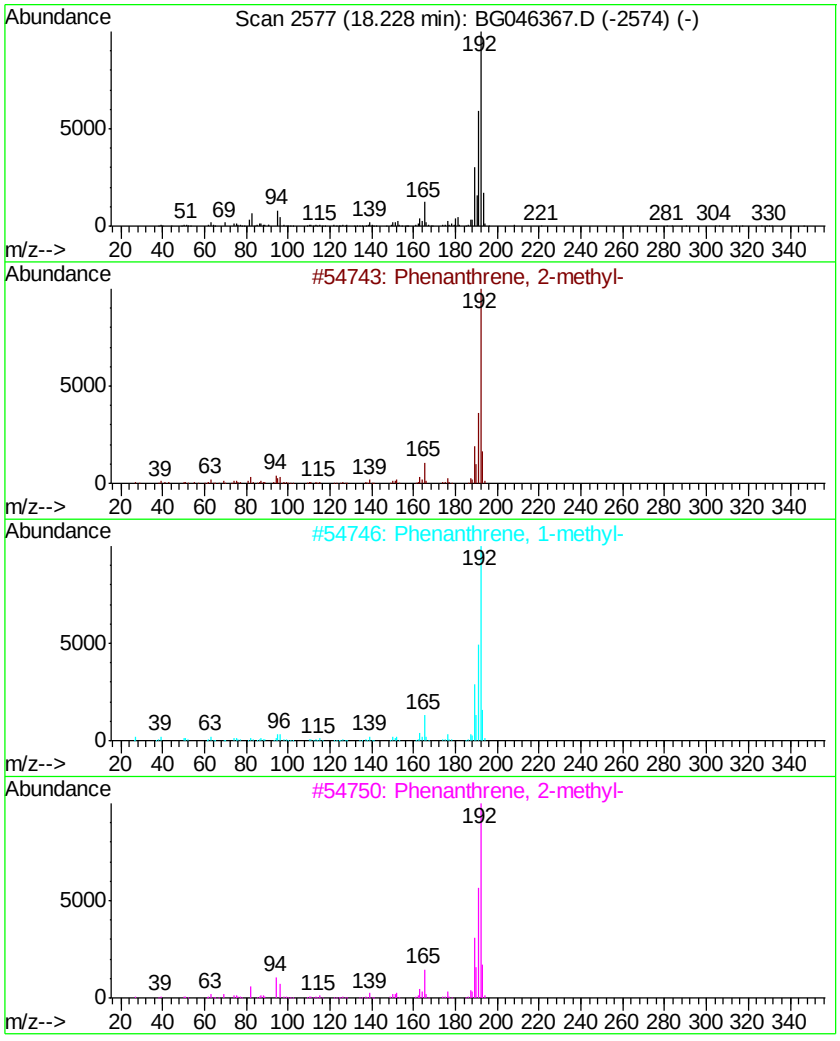
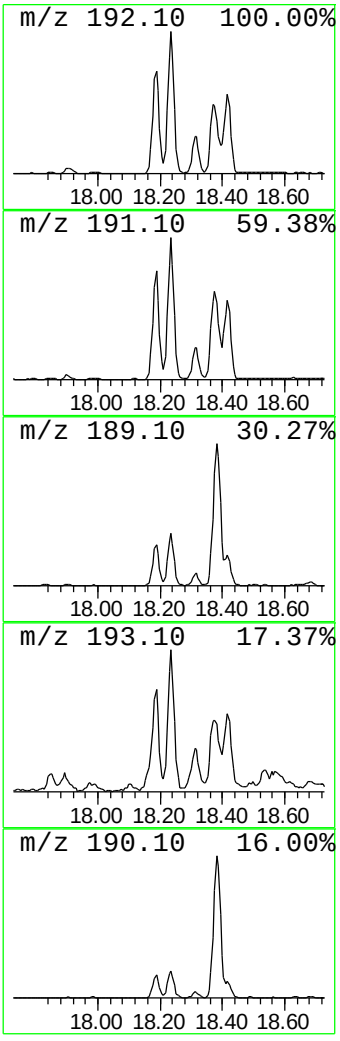
Peak Number 17 Phenanthrene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.23	7.74 ng/ul	612048	Phenanthrene-d10	17.31

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	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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Misc :
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Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

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

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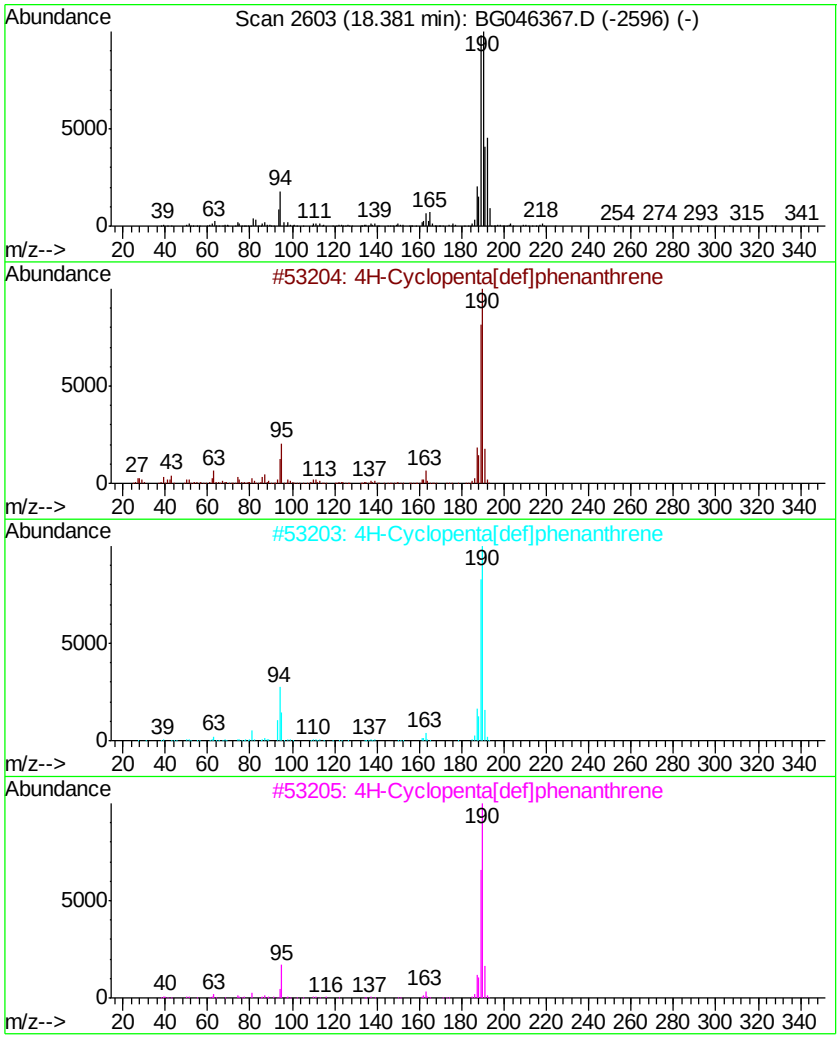
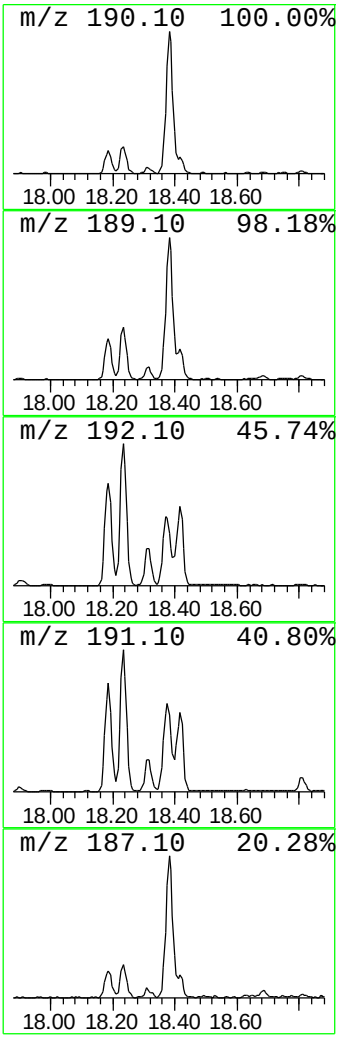
Peak Number 18 4H-Cyclopenta[def]phenanthrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.38	10.95 ng/ul	866554	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	91
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	53
5	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	53





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ClientSampleId : BFMA0

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Quant Title : SVOA CALIBRATION

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

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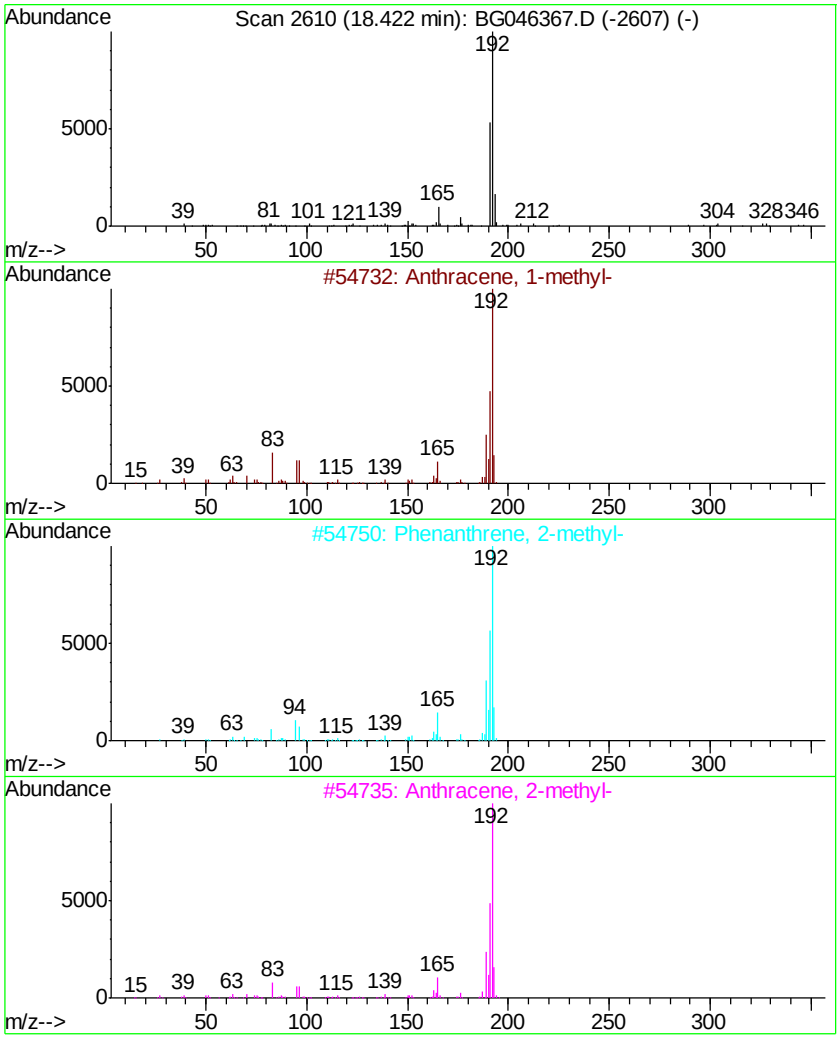
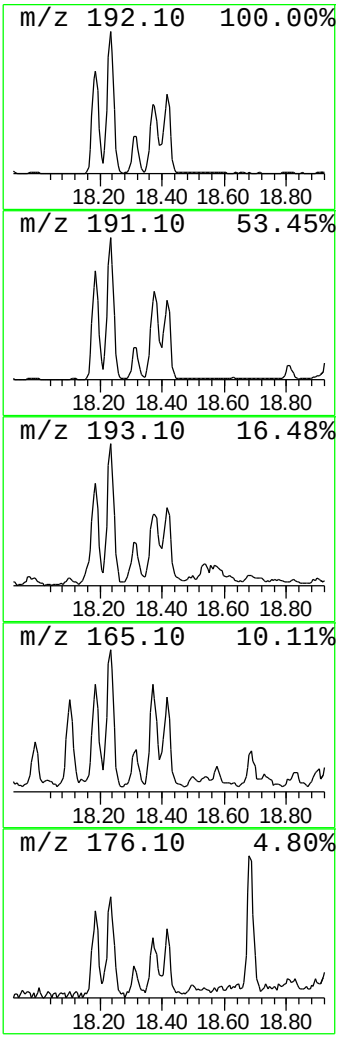
Peak Number 19 Anthracene, 1-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.42	3.33 ng/ul	263673	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	86
4	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	86
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	86





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ClientSampleId : BFMA0

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Quant Title : SVOA CALIBRATION

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

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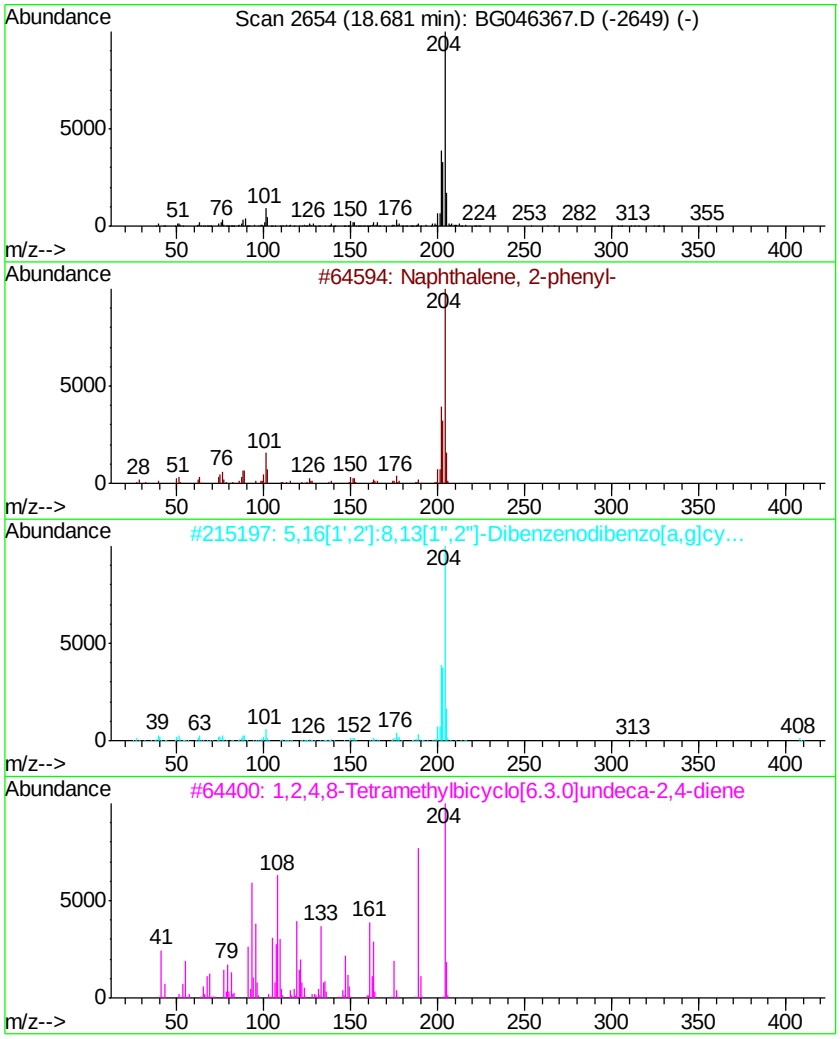
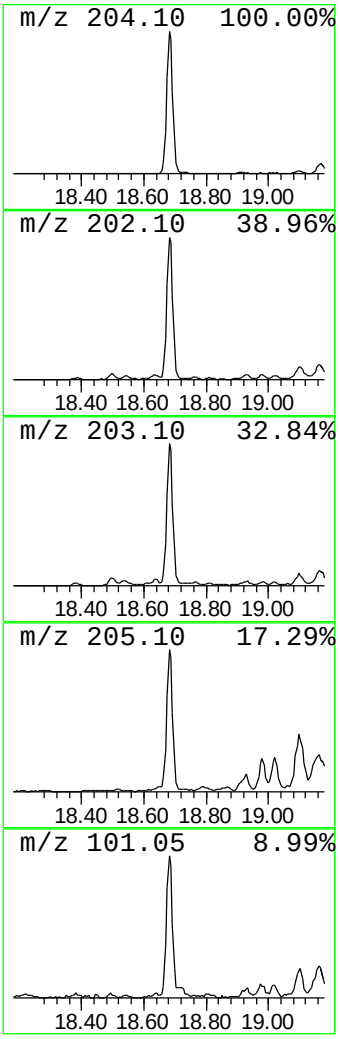
Peak Number 20 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.68	8.91 ng/ul	704667	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	83
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70





Library Search Compound Report

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Quant Title : SVOA CALIBRATION

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

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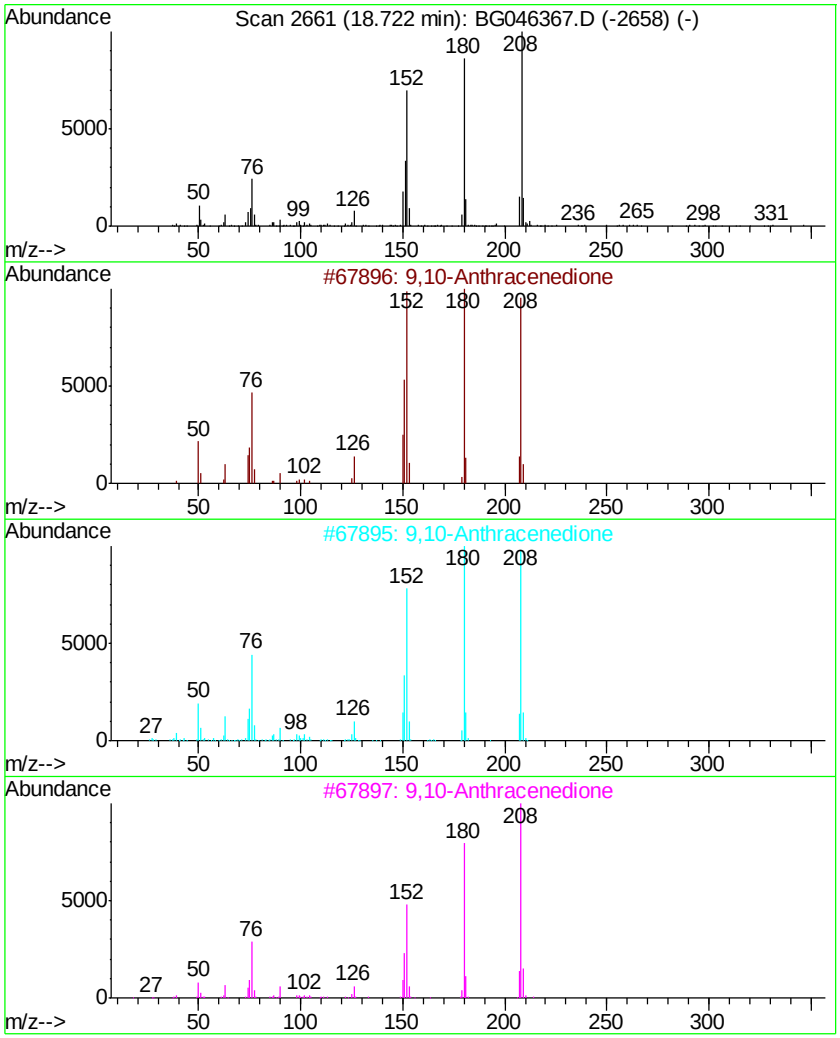
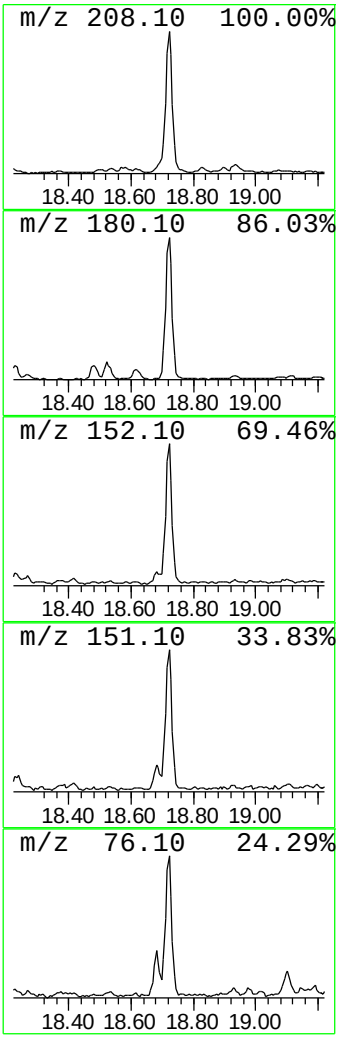
Peak Number 21 9,10-Anthracenedione Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.72	5.92 ng/ul	468233	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	53





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Quant Title : SVOA CALIBRATION

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

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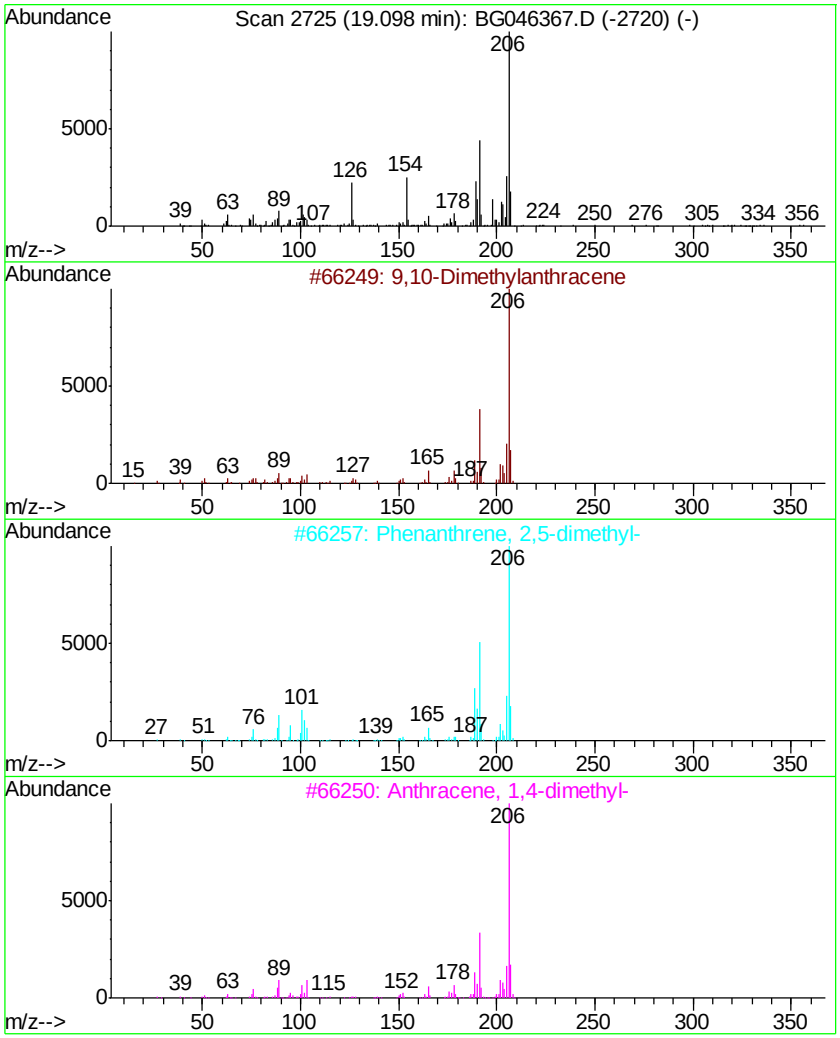
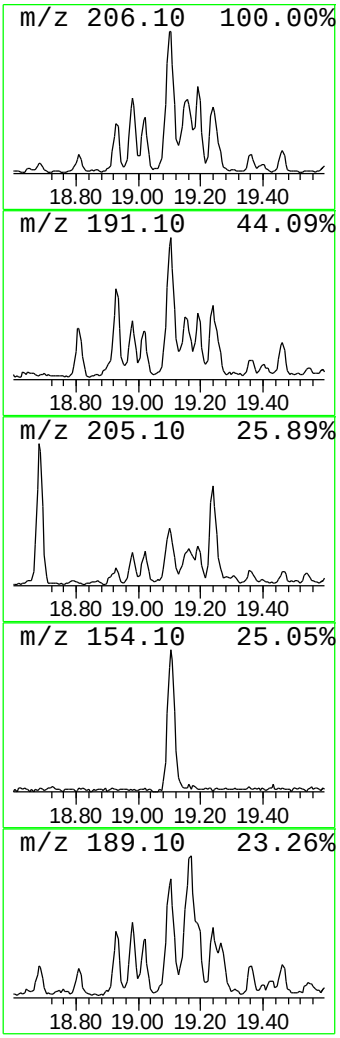
Peak Number 22 9,10-Dimethylanthracene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.10	4.81 ng/ul	380939	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	83
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	76





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Quant Title : SVOA CALIBRATION

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

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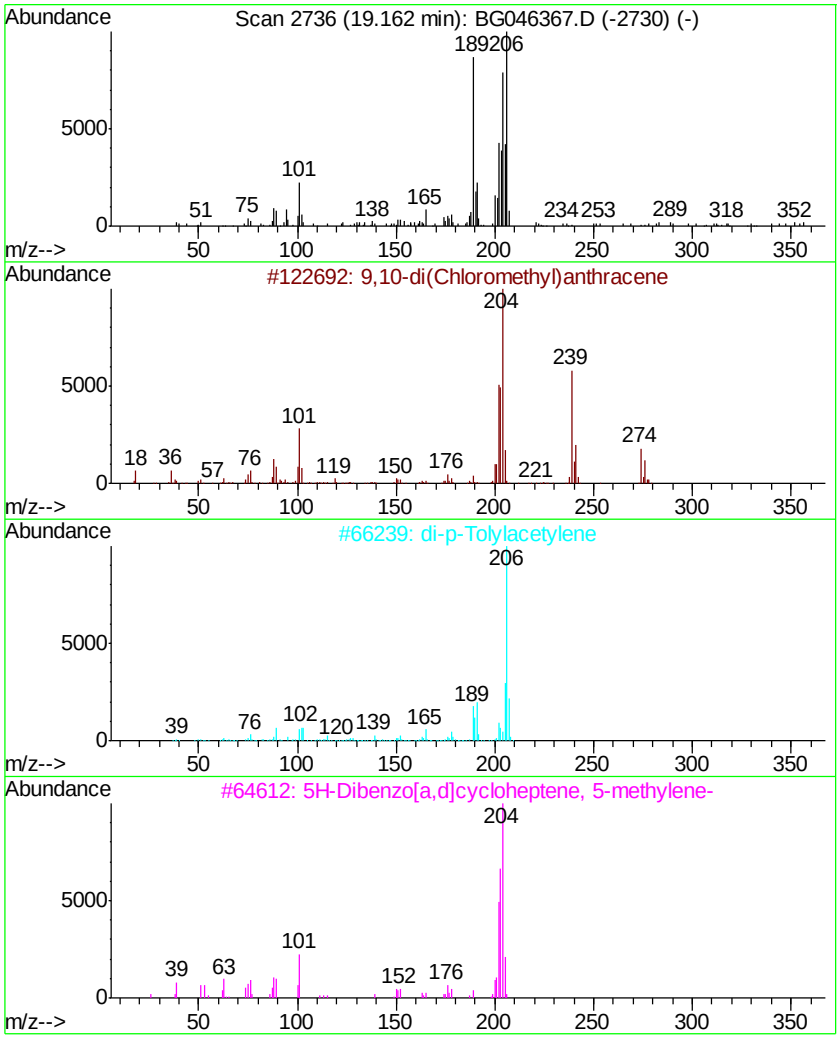
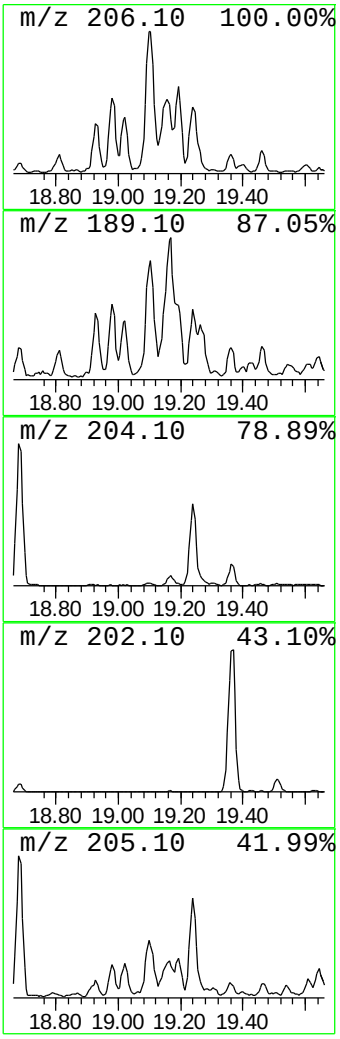
Peak Number 23 unknown-09 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.16	3.06 ng/ul	242483	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	38
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	30
3	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	30
4	Isoquinoline, 1-phenyl-	205	C15H11N	003297-72-1	18
5	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	18





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Quant Title : SVOA CALIBRATION

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

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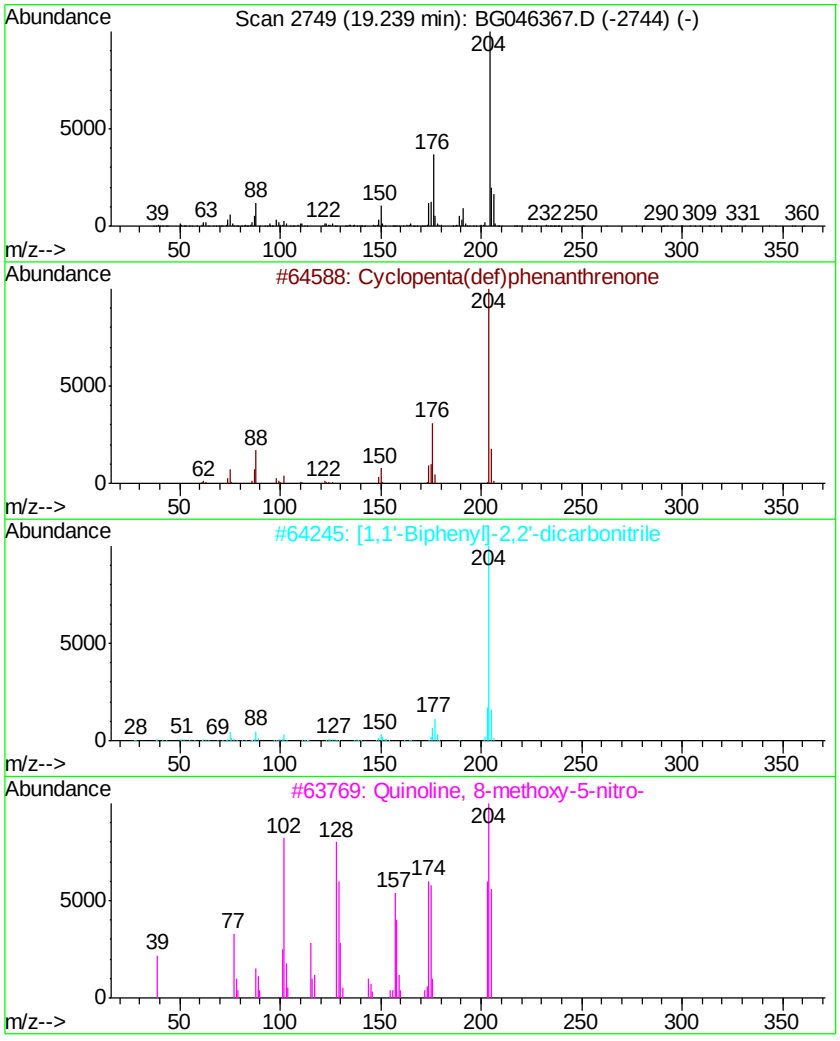
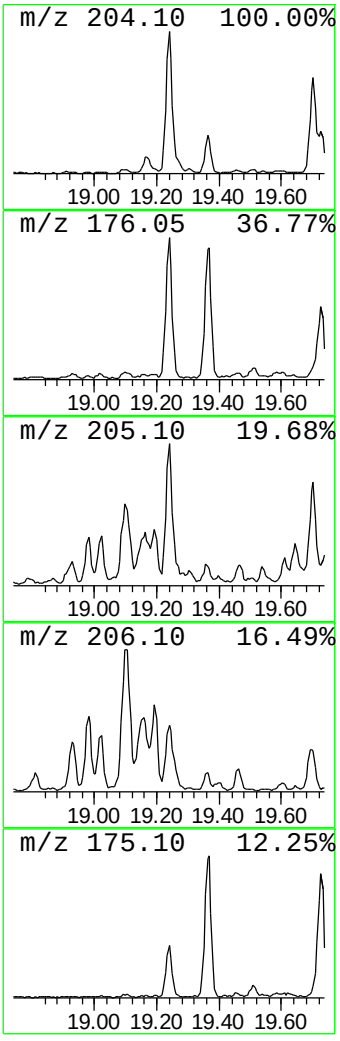
Peak Number 24 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.24	6.51 ng/ul	515112	Phenanthrene-d10	17.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	59
3	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	47
4	Tetracyano-p-quinodimethane	204	C12H4N4	001518-16-7	46
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	46





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Misc :
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Instrument : BNA_G
ClientSampleId : BFMA0

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Quant Title : SVOA CALIBRATION

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

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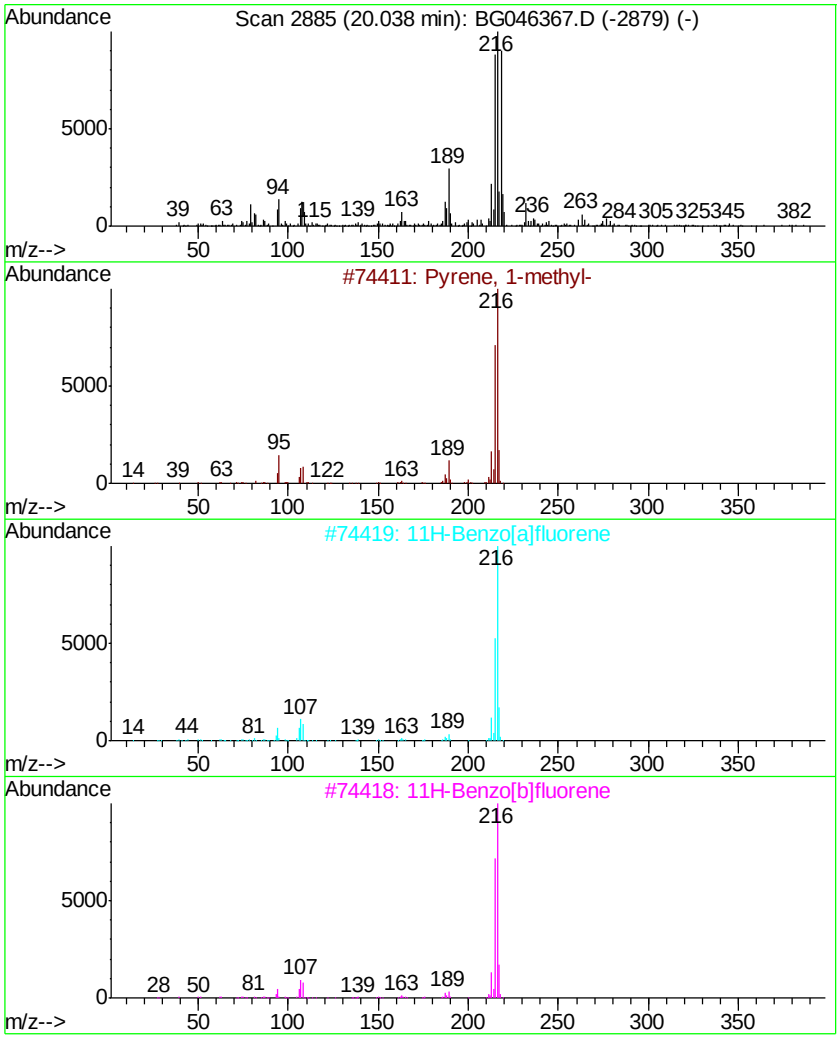
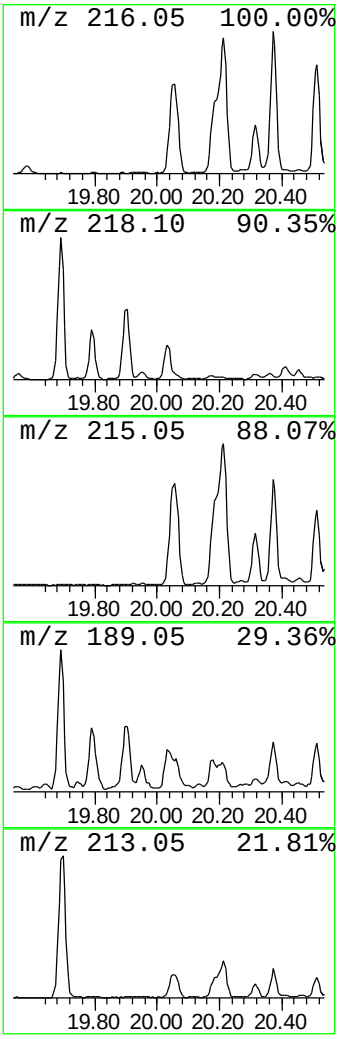
Peak Number 25 Pyrene, 1-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.04	3.41 ng/ul	766034	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	92
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





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Quant Title : SVOA CALIBRATION

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

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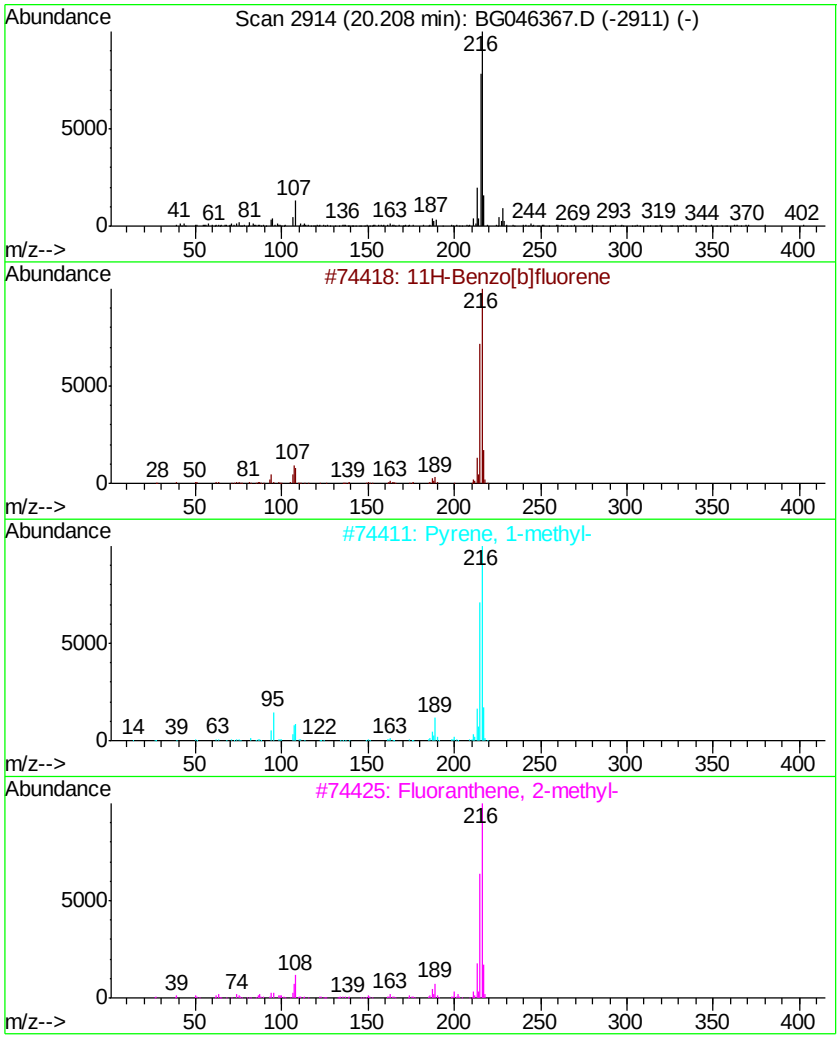
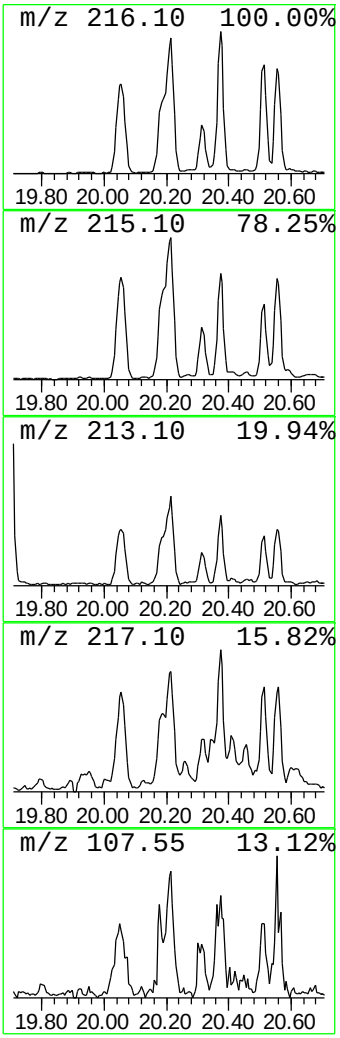
Peak Number 26 11H-Benzo[b]fluorene Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.21	2.18 ng/ul	491325	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	72





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Quant Title : SVOA CALIBRATION

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

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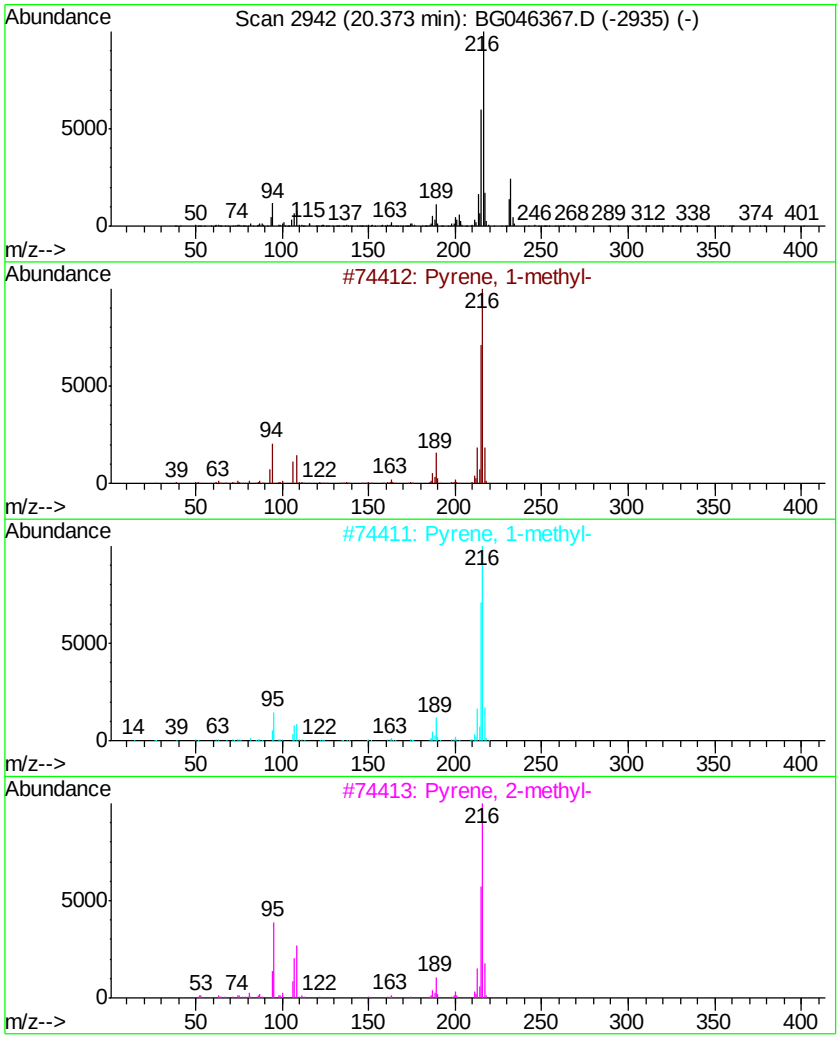
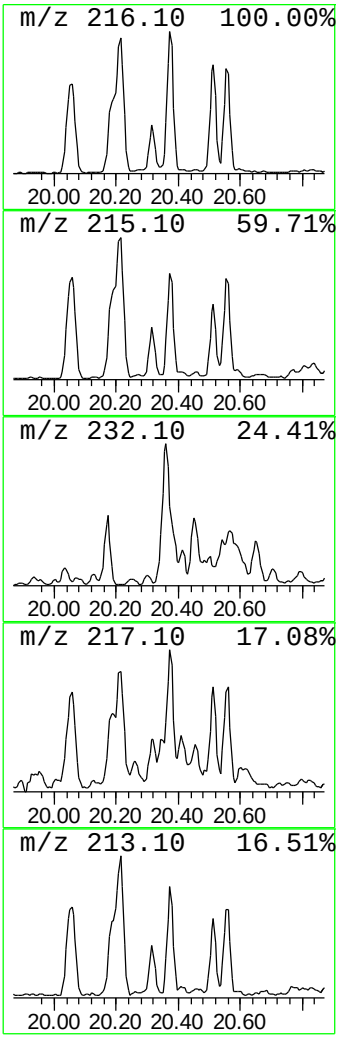
Peak Number 27 Pyrene, 2-methyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.37	2.80 ng/ul	629397	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89





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Quant Title : SVOA CALIBRATION

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

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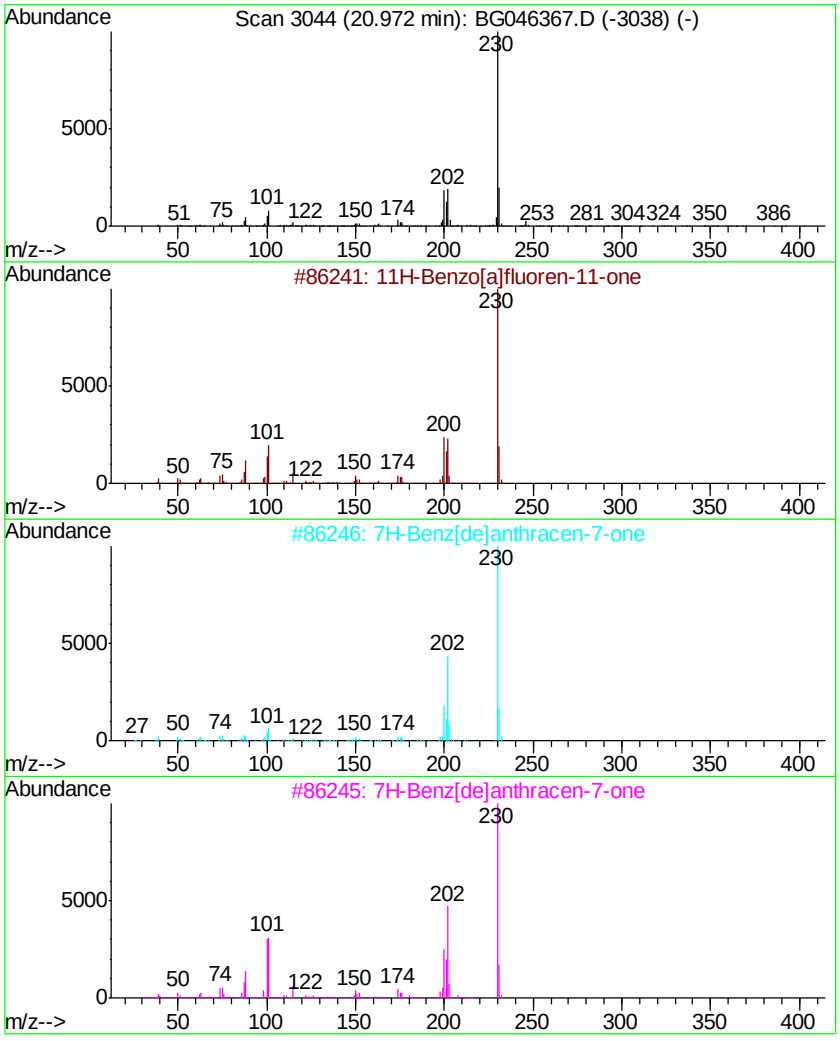
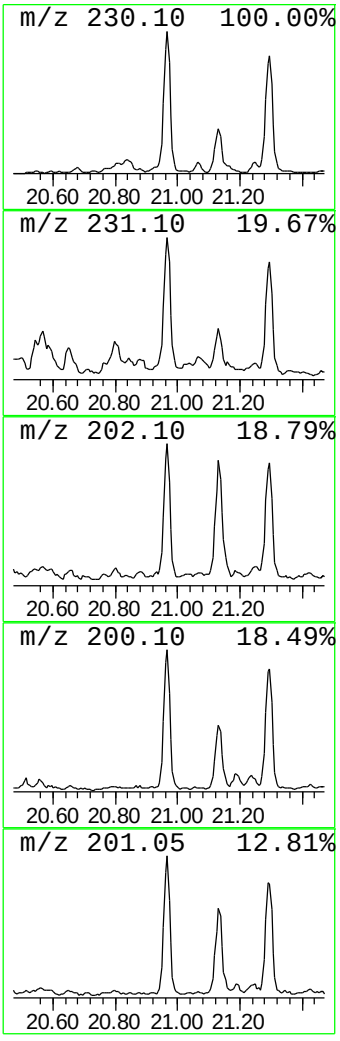
Peak Number 28 11H-Benzo[a]fluoren-11-one Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.97	2.84 ng/ul	639299	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046367.D
Acq On : 20 Aug 2020 6:09
Operator : CG/JU
Sample : L3633-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMA0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

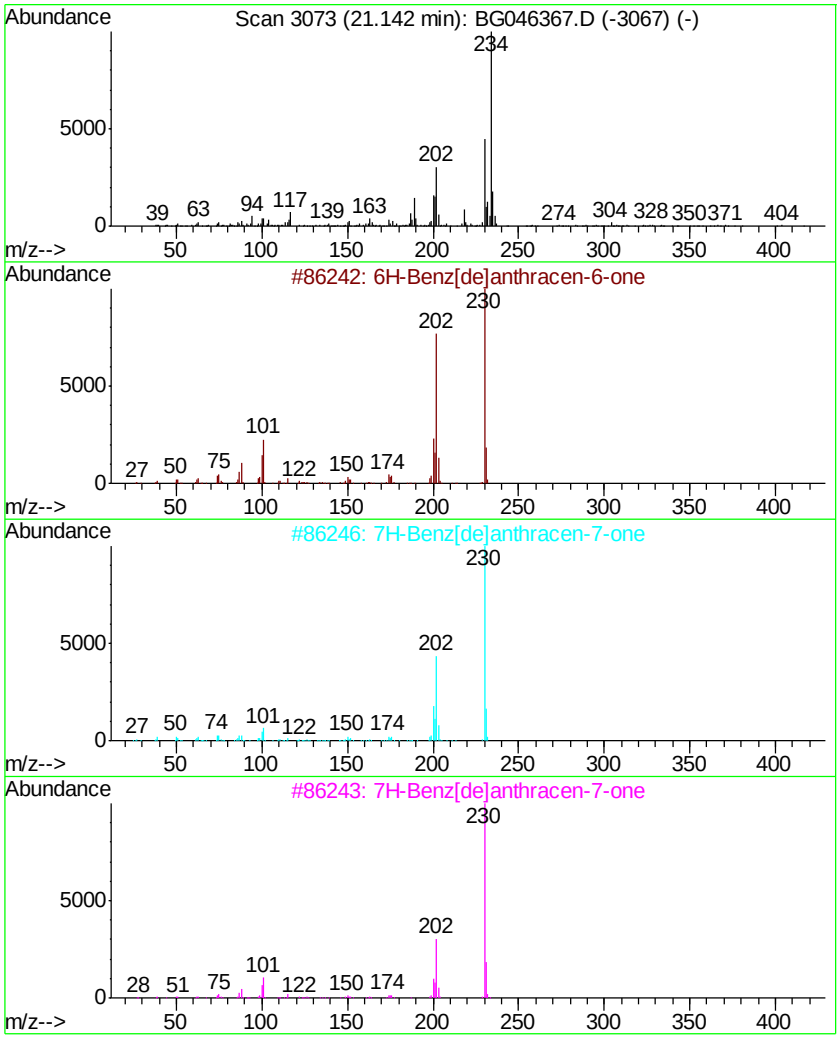
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

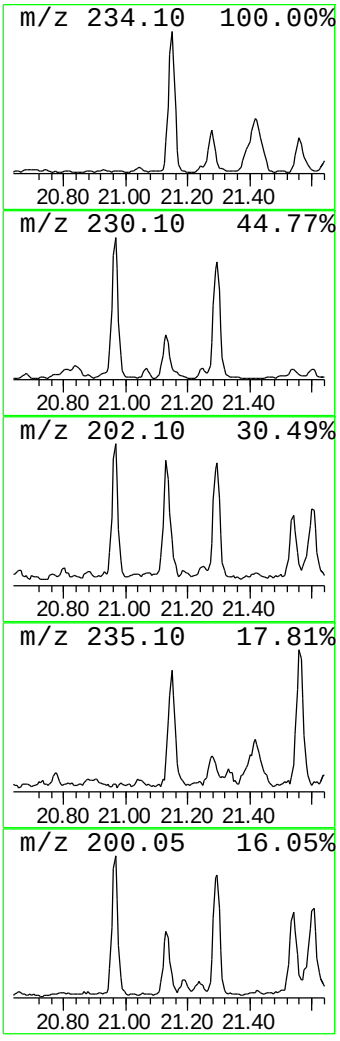
****

Peak Number 29 6H-Benz[de]anthracen-6-one Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.14	2.21 ng/ul	497739	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	91
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	78
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046367.D
Acq On : 20 Aug 2020 6:09
Operator : CG/JU
Sample : L3633-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMA0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

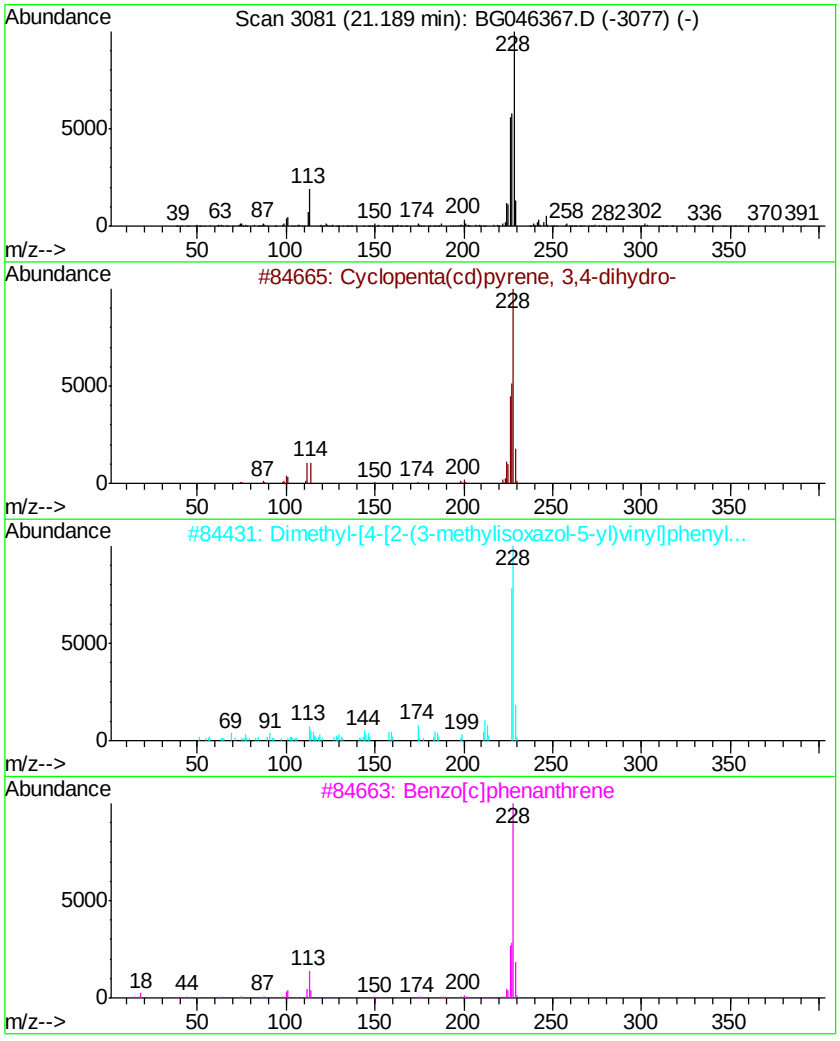
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

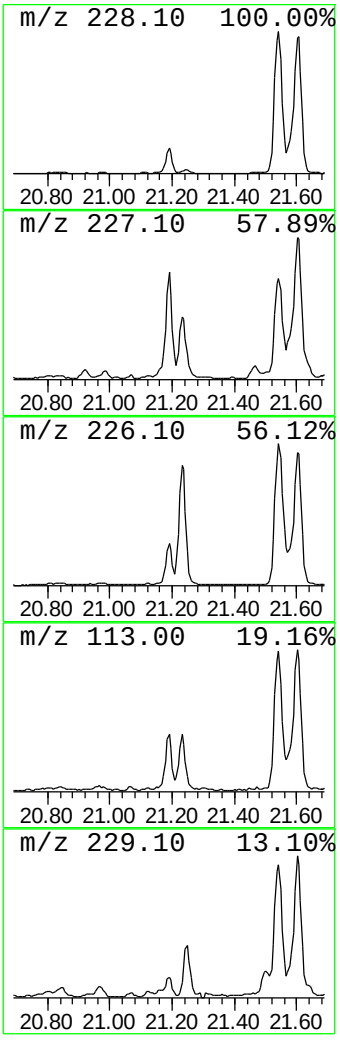
****

Peak Number 30 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.19	2.21 ng/ul	498005	Chrysene-d12	21.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	55
2	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	47
3	Benzo[c]phenanthrene	228	C18H12	000195-19-7	47
4	Benz[a]anthracene	228	C18H12	000056-55-3	43
5	Chrysene	228	C18H12	000218-01-9	38





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG081920\
Data File : BG046367.D
Acq On : 20 Aug 2020 6:09
Operator : CG/JU
Sample : L3633-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BFMA0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.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...	3.14	64.7	ng/ul	1859390	1	7.94	574629	20.0
4H-Imidazol-4-one...	7.11	16.9	ng/ul	484985	1	7.94	574629	20.0
unknown-01	7.26	12.7	ng/ul	365195	1	7.94	574629	20.0
unknown-02	7.48	17.6	ng/ul	504840	1	7.94	574629	20.0
unknown-03	8.65	20.2	ng/ul	581517	1	7.94	574629	20.0
1H-Imidazole, 4-m...	9.09	16.3	ng/ul	467087	1	7.94	574629	20.0
unknown-04	9.81	9.3	ng/ul	404691	2	10.74	871243	20.0
unknown-05	10.87	11.6	ng/ul	506480	2	10.74	871243	20.0
unknown-06	13.97	15.5	ng/ul	986680	3	14.57	1276130	20.0
Dimethyl phthalate	14.02	6.8	ng/ul	433101	3	14.57	1276130	20.0
unknown-07	14.76	5.4	ng/ul	346482	3	14.57	1276130	20.0
unknown-08	15.68	6.2	ng/ul	394996	3	14.57	1276130	20.0
9H-Fluoren-9-one	16.96	3.2	ng/ul	251004	4	17.31	1582410	20.0
5H-Indeno[1,2-b]p...	17.71	2.6	ng/ul	205459	4	17.31	1582410	20.0
Anthracene, 9-eth...	17.83	2.7	ng/ul	216576	4	17.31	1582410	20.0
Phenanthrene, 2-m...	18.19	6.3	ng/ul	497405	4	17.31	1582410	20.0
Phenanthrene, 1-m...	18.23	7.7	ng/ul	612048	4	17.31	1582410	20.0
4H-Cyclopenta[def...	18.38	10.9	ng/ul	866554	4	17.31	1582410	20.0
Anthracene, 1-met...	18.42	3.3	ng/ul	263673	4	17.31	1582410	20.0
Naphthalene, 2-ph...	18.68	8.9	ng/ul	704667	4	17.31	1582410	20.0
9,10-Anthracenedione	18.72	5.9	ng/ul	468233	4	17.31	1582410	20.0
9,10-Dimethylanth...	19.10	4.8	ng/ul	380939	4	17.31	1582410	20.0
unknown-09	19.16	3.1	ng/ul	242483	4	17.31	1582410	20.0
Cyclopenta(def)ph...	19.24	6.5	ng/ul	515112	4	17.31	1582410	20.0
Pyrene, 1-methyl-	20.04	3.4	ng/ul	766034	5	21.56	4497950	20.0
11H-Benzo[b]fluorene	20.21	2.2	ng/ul	491325	5	21.56	4497950	20.0
Pyrene, 2-methyl-	20.37	2.8	ng/ul	629397	5	21.56	4497950	20.0
11H-Benzo[a]fluor...	20.97	2.8	ng/ul	639299	5	21.56	4497950	20.0
6H-Benz[de]anthra...	21.14	2.2	ng/ul	497739	5	21.56	4497950	20.0
Cyclopenta(cd)pyr...	21.19	2.2	ng/ul	498005	5	21.56	4497950	20.0