LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001405.D
Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.587	590	595	608	rVB	84817	125479	5.49%	0.448%
2	6.199	693	699	715	rVB	476693	585545	25.60%	2.091%
3	7.746	956	962	974	rBV	553932	682200	29.82%	2.436%
4	7.928	987	993	1005	rVB	565033	668374	29.22%	2.387%
5	8.287	1047	1054	1062	rBV	235206	279682	12.23%	0.999%
6	8.528	1089	1095	1099	rBV	418792	510256	22.31%	1.822%
7	8.987	1168	1173	1186	rVB2	22591	37725	1.65%	0.135%
8	9.163	1198	1203	1210	rVB	359744	417757	18.26%	1.492%
9	10.322	1389	1400	1403	rBV	284435	351259	15.36%	1.254%
10	10.351	1403	1405	1413	rVB	116238	128814	5.63%	0.460%
11	11.481	1593	1597	1603	rVB	58657	72983	3.19%	0.261%
12	11.639	1618	1624	1629	rVB	52656	61926	2.71%	0.221%
13	12.098	1693	1702	1706	rBV	662438	728554	31.85%	2.602%
14	12.251	1718	1728	1733	rBV	24522	36203	1.58%	0.129%
15	12.510	1768	1772	1779	rVB3	21594	42834	1.87%	0.153%
16	12.634	1786	1793	1797	rBV	44110	65822	2.88%	0.235%
17	12.675	1797	1800	1805	rVB	28030	33945	1.48%	0.121%
18	12.769	1812	1816	1819	rBV	25601	30714	1.34%	0.110%
19	12.822	1819	1825	1834	rVB3	25962	54401	2.38%	0.194%
20	12.945	1839	1846	1858	rBV2	52734	86347	3.77%	0.308%
21	13.181	1881	1886	1891	rBV	342866	403645	17.65%	1.442%
22	13.233	1891	1895	1900	rVV	164688	190309	8.32%	0.680%
23	13.369	1913	1918	1927	rBV2	12679	29080	1.27%	0.104%
24	13.445	1927	1931	1936	rVB2	25295	31364	1.37%	0.112%
25	13.516	1939	1943	1953	rVB	111870	156972	6.86%	0.561%
26	13.604	1954	1958	1962	rBV	22913	27302	1.19%	0.098%
27	13.722	1973	1978	1982	rBV4	19915	30876	1.35%	0.110%
28	13.769	1982	1986	1990	rVB2	19731	26977	1.18%	0.096%
29	13.869	1997	2003	2006	rBV5	20026	34829	1.52%	0.124%
30	14.004	2022	2026	2031	rBV3	19281	29568	1.29%	0.106%
31	14.080	2035	2039	2046	rVB	175604	216330	9.46%	0.773%
32	14.222	2060	2063	2067	rVB	26885	29537	1.29%	0.105%
33	14.351	2081	2085	2095	rVB2	60503	97351	4.26%	0.348%
34	14.475	2100	2106	2117	rVV2	448115	615289	26.90%	2.197%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001405.D
Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.710	2143	2146	2154	rVB5	14583	25846	1.13%	0.092%
36	14.810	2160	2163	2170	rVB4	23951	45122	1.97%	0.161%
37	14.986	2187	2193	2196	rBV2	39852	74369	3.25%	0.266%
38	15.028	2198	2200	2205	rVV3	23722	30252	1.32%	0.108%
39	15.116	2206	2215	2220	rVV6	17261	47507	2.08%	0.170%
40	15.204	2227	2230	2233	rBV2	36246	51977	2.27%	0.186%
41	15.280	2238	2243	2253	rVB	77532	133248	5.82%	0.476%
42	15.375	2254	2259	2263	rBV2	54485	86426	3.78%	0.309%
43	15.416	2263	2266	2270	rVB	89652	107416	4.70%	0.384%
44	15.498	2277	2280	2284	rVB	27100	28986	1.27%	0.104%
45	15.545	2284	2288	2290	rBV2	24642	30926	1.35%	0.110%
46	15.580	2290	2294	2297	rVV	271341	360791	15.77%	1.289%
47	15.627	2297	2302	2305	rVV	1609036	1838932	80.39%	6.567%
48	15.698	2306	2314	2319	rBV	376070	449477	19.65%	1.605%
49	15.745	2319	2322	2325	rBV	21846	29957	1.31%	0.107%
50	15.904	2346	2349	2352	rBV	32099	33631	1.47%	0.120%
51	15.945	2352	2356	2361	rBV	139011	159551	6.97%	0.570%
52	16.139	2386	2389	2392	rBV2	45539	47433	2.07%	0.169%
53	16.269	2408	2411	2415	rVB	21220	26302	1.15%	0.094%
54	16.339	2419	2423	2426	rVV	186753	216440	9.46%	0.773%
55	16.380	2426	2430	2437	rVB	276994	321893	14.07%	1.150%
56	16.445	2437	2441	2444	rBV	105698	137600	6.02%	0.491%
57	16.492	2444	2449	2453	rVV	306358	461528	20.18%	1.648%
58	16.527	2453	2455	2460	rVB	145545	151735	6.63%	0.542%
59	16.727	2486	2489	2492	rVB3	51066	54582	2.39%	0.195%
60	16.774	2493	2497	2499	rBV	161027	212408	9.29%	0.759%
61	16.980	2530	2532	2537	rVB3	41037	51426	2.25%	0.184%
62	17.027	2537	2540	2542	rBV	45820	49774	2.18%	0.178%
63	17.127	2552	2557	2562	rBV2	120333	209963	9.18%	0.750%
64	17.180	2563	2566	2569	rVV3	75588	116062	5.07%	0.414%
65	17.233	2573	2575	2578	rVV2	77543	110282	4.82%	0.394%
66	17.263	2578	2580	2583	rVB	85978	81134	3.55%	0.290%
67	17.345	2588	2594	2597	rBV	2060995	2287520	100.00%	8.170%
68	17.427	2603	2608	2611	rBV3	103258	144585	6.32%	0.516%
69	17.457	2611	2613	2617	rVB2	45071	53720	2.35%	0.192%
70	17.533	2622	2626	2629	rBV2	93850	120984	5.29%	0.432%
71	17.651	2639	2646	2649	rVV2	1563907	2219014	97.01%	7.925%

LSC Area Percent Report

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Data File : BP001405.D
Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	17.686	2649	2652	2654	rVV3	46107	55650	2.43%	0.199%
73	17.716	2654	2657	2660	rVB	90143	89443	3.91%	0.319%
74	17.816	2670	2674	2677	rBV	122824	147231	6.44%	0.526%
75	17.869	2677	2683	2686	rVB2	678968	808593	35.35%	2.888%
76	17.921	2689	2692	2693	rBV	55617	56366	2.46%	0.201%
77	17.951	2694	2697	2700	rVB2	93554	125508	5.49%	0.448%
78	18.092	2718	2721	2726	rVB2	213335	244684	10.70%	0.874%
79	18.180	2733	2736	2739	rBV	99542	99921	4.37%	0.357%
80	18.227	2741	2744	2750	rVV3	205411	259618	11.35%	0.927%
81	18.345	2761	2764	2767	rVB	105349	106613	4.66%	0.381%
82	18.386	2768	2771	2777	rVV3	93726	149802	6.55%	0.535%
83	18.757	2831	2834	2841	rVB	172420	207211	9.06%	0.740%
84	18.904	2855	2859	2861	rBV2	141362	170368	7.45%	0.608%
85	18.945	2863	2866	2868	rVV	149775	181927	7.95%	0.650%
86	18.992	2872	2874	2878	rVV2	98145	128961	5.64%	0.461%
87	19.033	2878	2881	2886	rVB	146488	156469	6.84%	0.559%
88	19.116	2891	2895	2900	rVB3	121563	186273	8.14%	0.665%
89	19.227	2909	2914	2918	rBV2	927893	1501087	65.62%	5.361%
90	19.268	2918	2921	2924	rVB	893455	972088	42.50%	3.472%
91	19.739	2998	3001	3004	rVB	189477	210484	9.20%	0.752%
92	19.780	3005	3008	3012	rVB	114904	129542	5.66%	0.463%
93	20.533	3130	3136	3139	rBV	676783	1303893	57.00%	4.657%
94	20.645	3152	3155	3158	rVB	146421	147107	6.43%	0.525%
95	20.868	3189	3193	3200	rVB	416786	681808	29.81%	2.435%
96	20.945	3200	3206	3209	rBV	640316	855324	37.39%	3.055%
97	21.010	3213	3217	3220	rVV2	239473	327752	14.33%	1.171%
98	21.045	3220	3223	3227	rVB	151371	174070	7.61%	0.622%
99	22.645	3489	3495	3504	rVB2	275392	608005	26.58%	2.171%
100	23.133	3573	3578	3589	rVB	190004	385763	16.86%	1.378%

Sum of corrected areas: 28000609

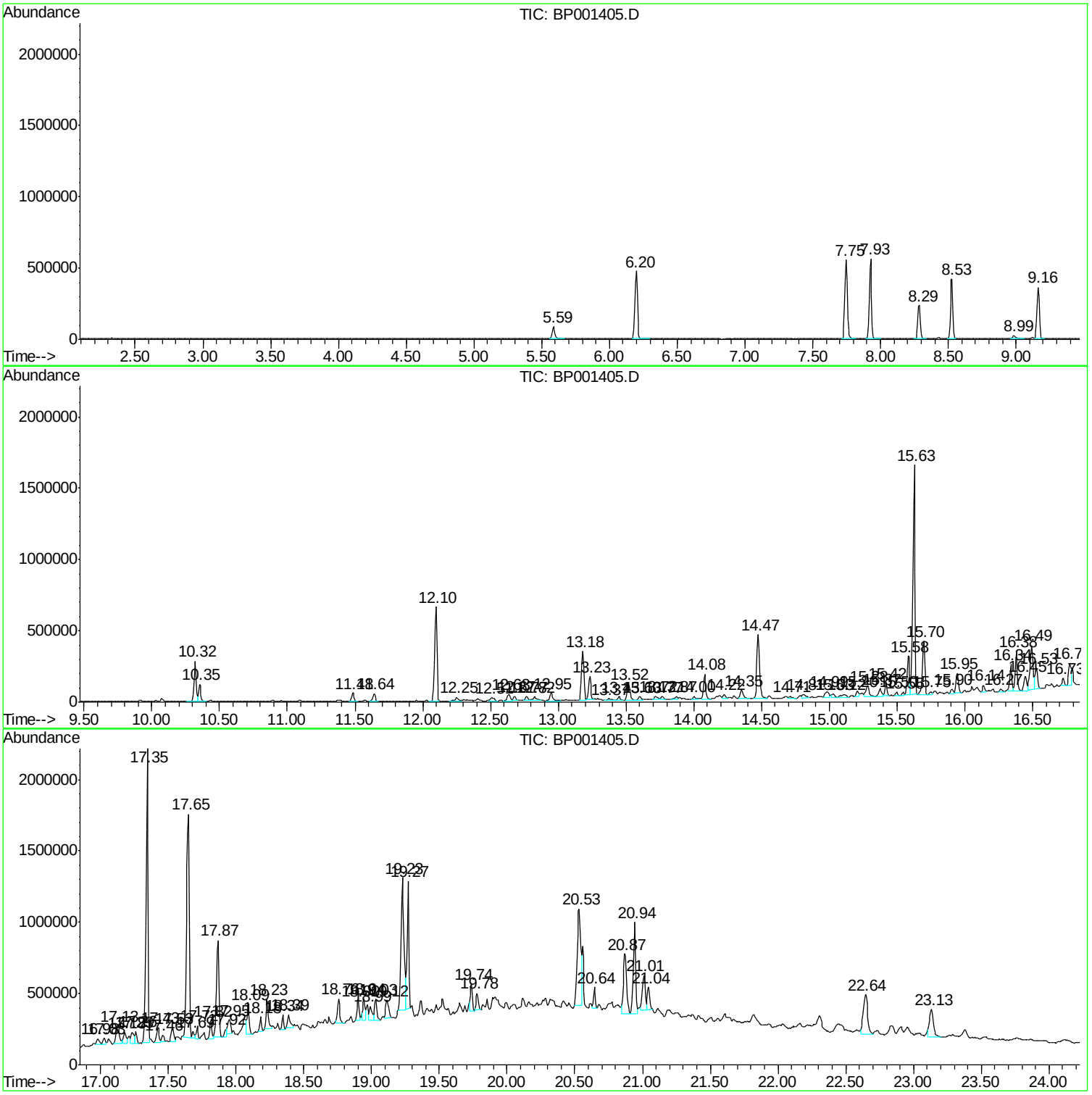
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001405.D
Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001405.D
Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

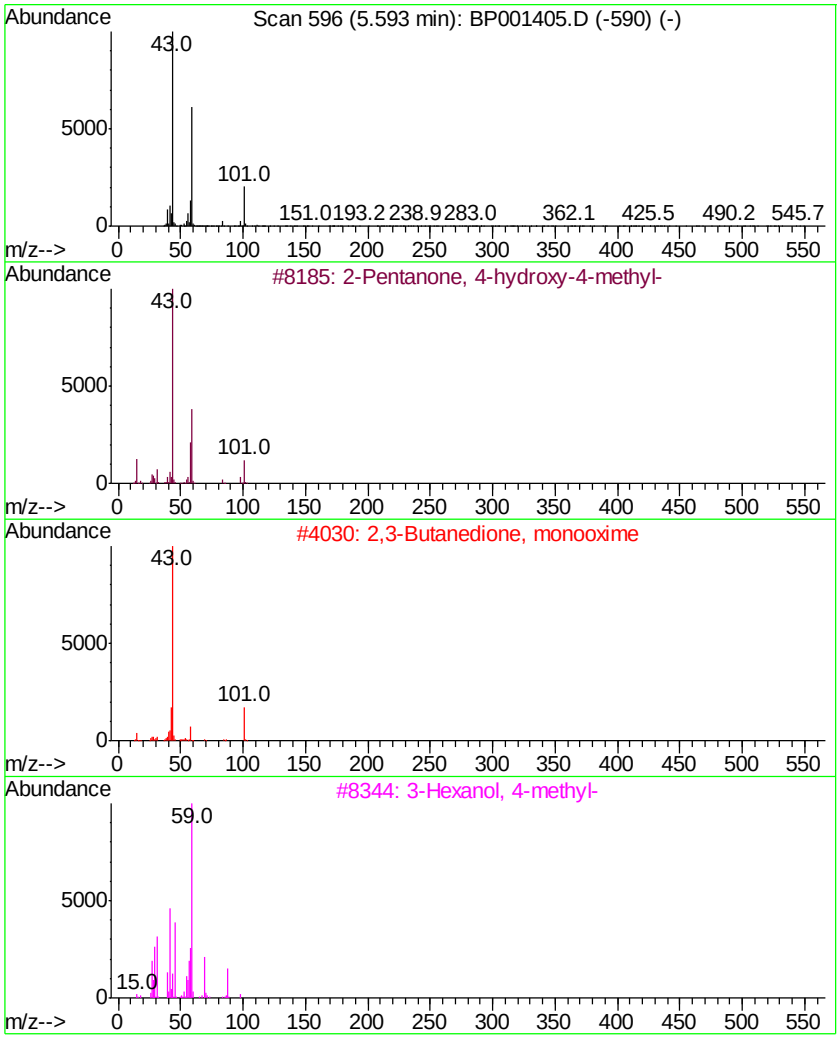
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

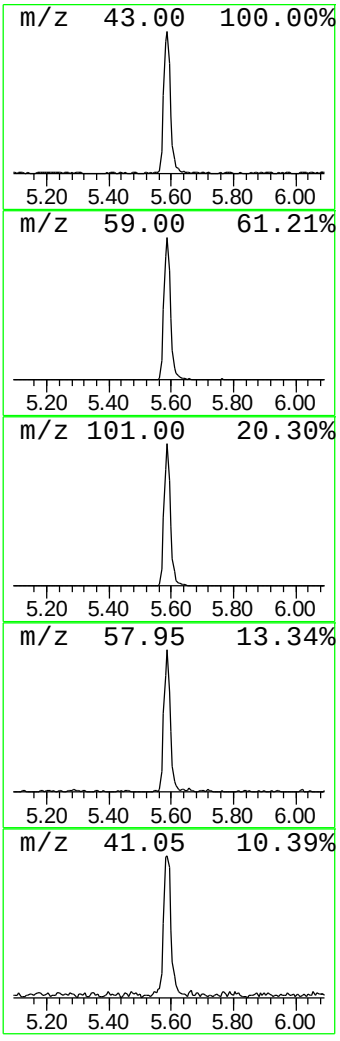
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.59	8.97 ng	125479	1,4-Dichlorobenzene-d4	8.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	35
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	9
4	2-Propanone, 1-(1-methylethoxy)-	116	C6H12O2	042781-12-4	9
5	1,8-Nonanediol, 8-methyl-	174	C10H22O2	054725-73-4	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001405.D
Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

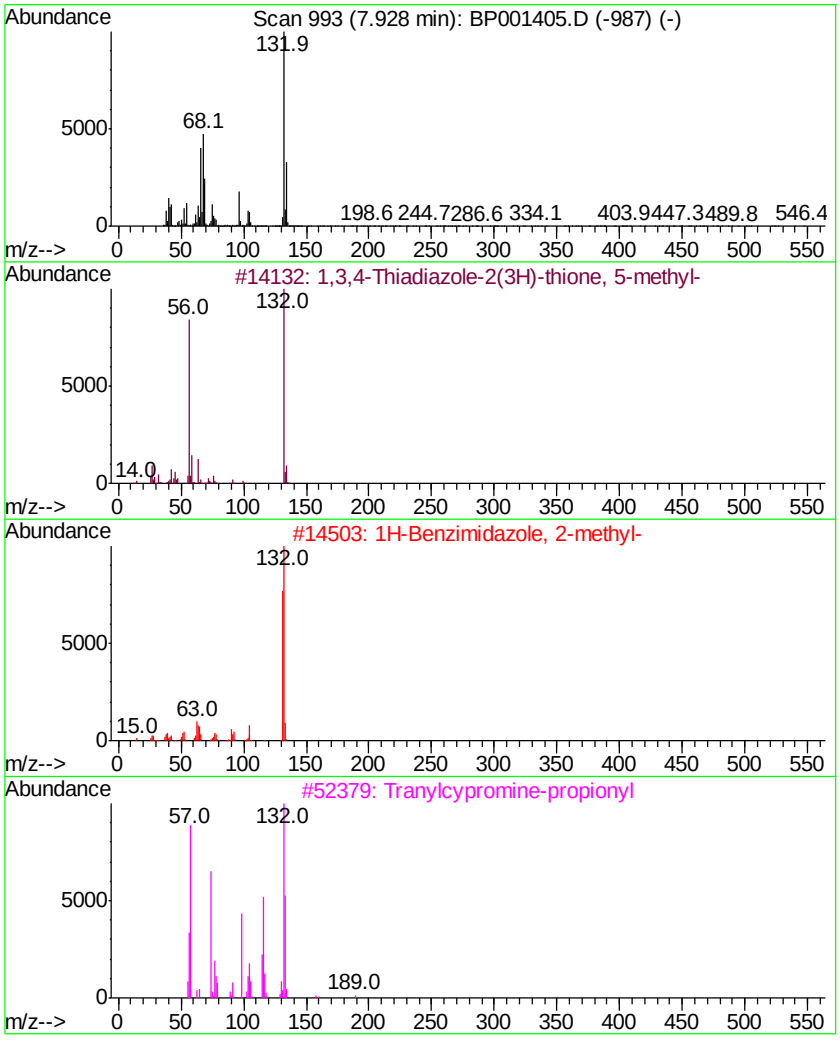
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

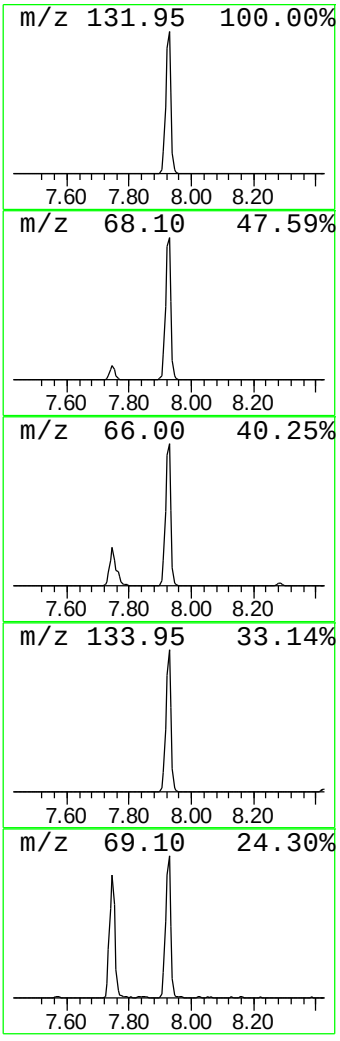
****

Peak Number 2 unknown7.93 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.93	47.80 ng	668374	1,4-Dichlorobenzene-d4	8.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,4-Thiadiazole-2(3H)-thione, ...	132	C3H4N2S2	029490-19-5	14
2	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	14
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	10
5	Pyrazolo(2,3-a)pyridine, 7-methyl-	132	C8H8N2	034760-58-2	10





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Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

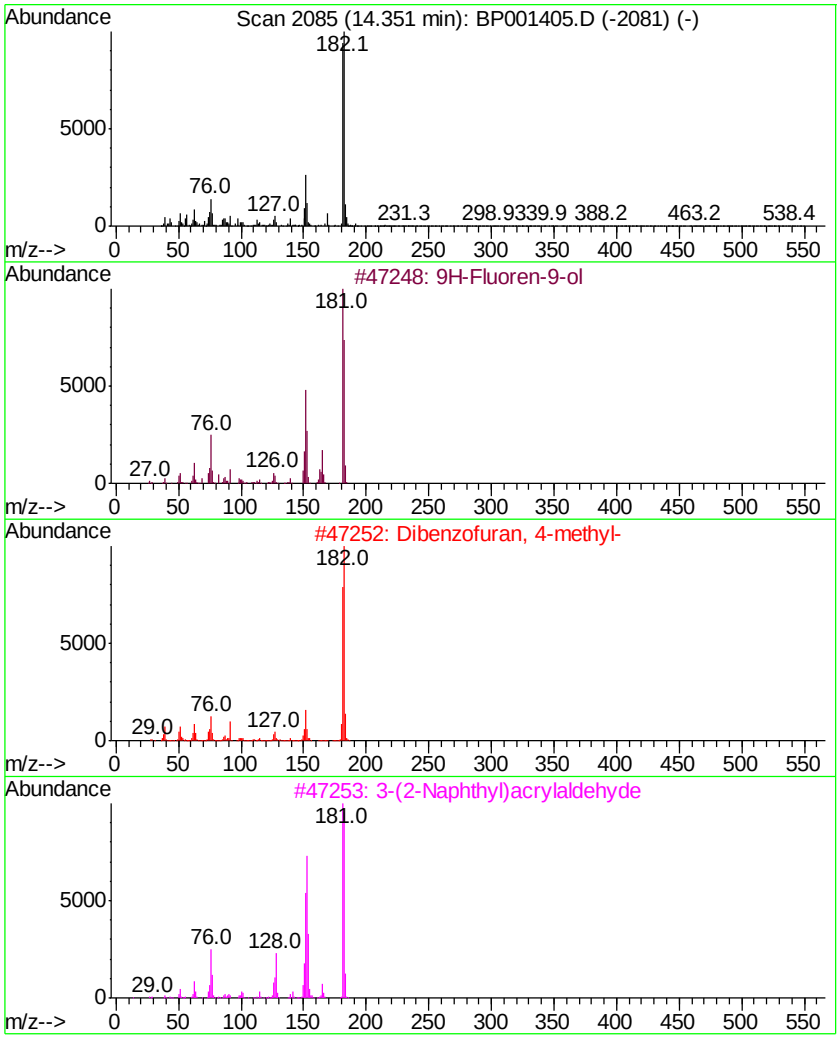
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

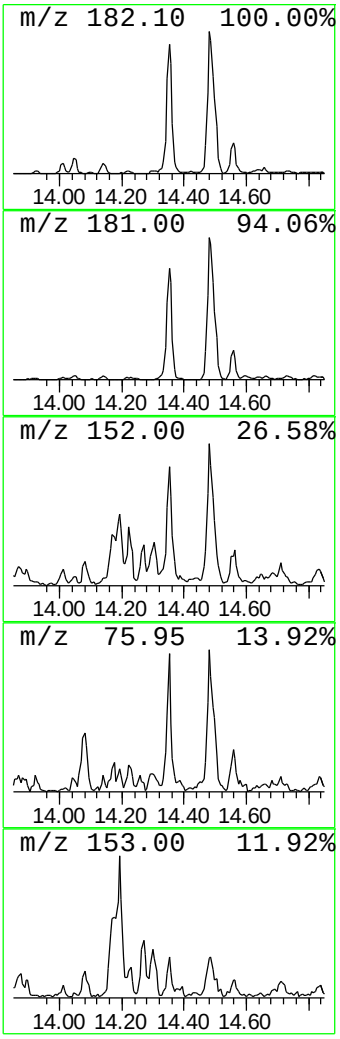
****

Peak Number 4 9H-Fluoren-9-ol Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.35	4.82 ng	97351	Acenaphthene-d10	13.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	91
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
3	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	64
4	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	64
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	62





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001405.D
Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

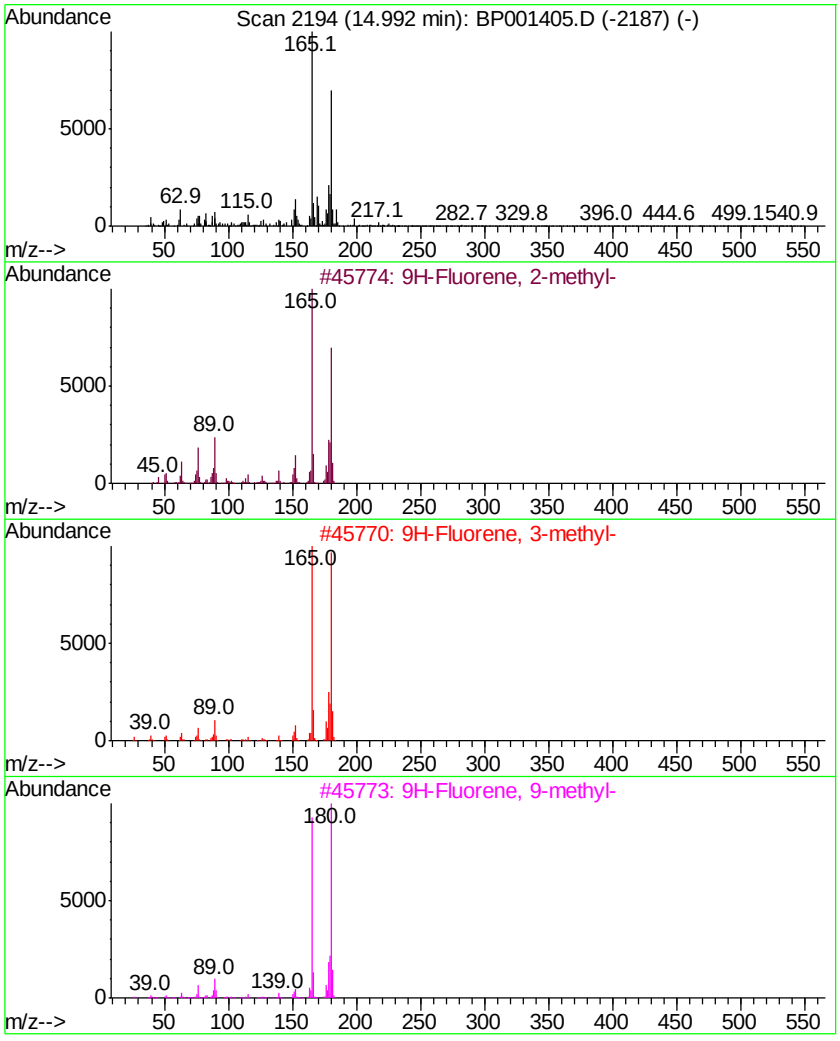
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

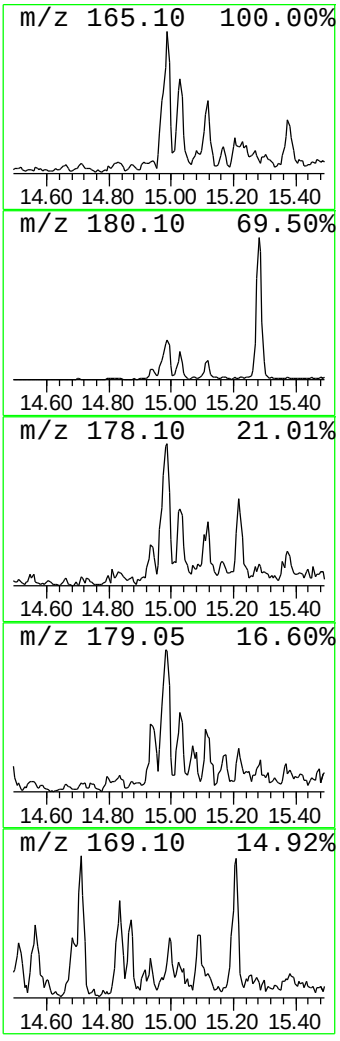
****

Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.99	4.12 ng	74369	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001405.D
Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

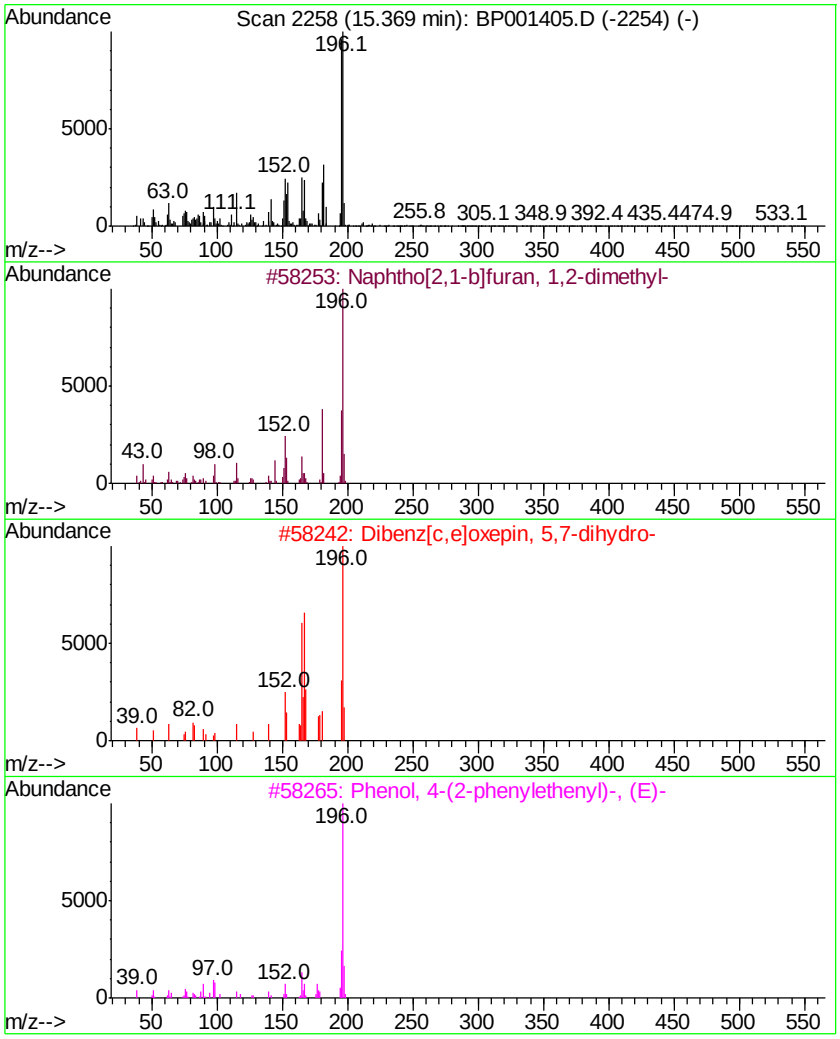
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

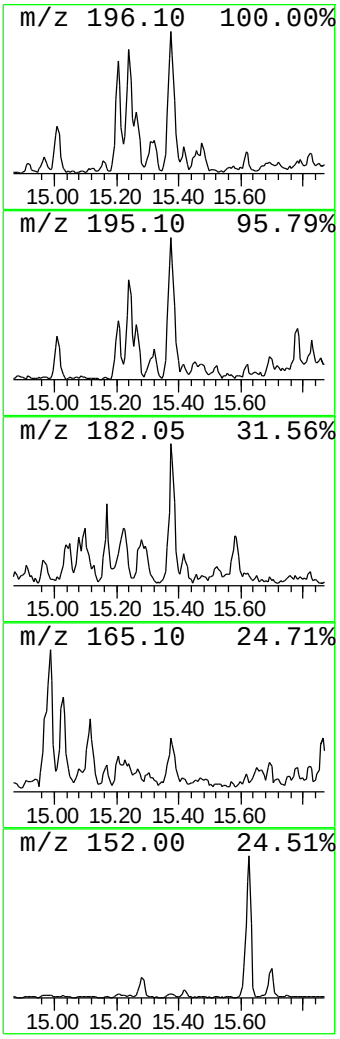
****

Peak Number 7 Naphtho[2,1-b]furan, 1,2-di... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	4.79 ng	86426	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	55
2	Dibenz[c,e]oxepin, 5,7-dihydro-	196	C14H12O	001136-22-7	50
3	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	50
4	Benzenamine, 3-[2-(4-pyridinyl)e...	196	C13H12N2	1000337-31-3	49
5	Methanone, diphenyl-, hydrazone	196	C13H12N2	005350-57-2	38





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Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
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ClientSampleId : SB-4-(0-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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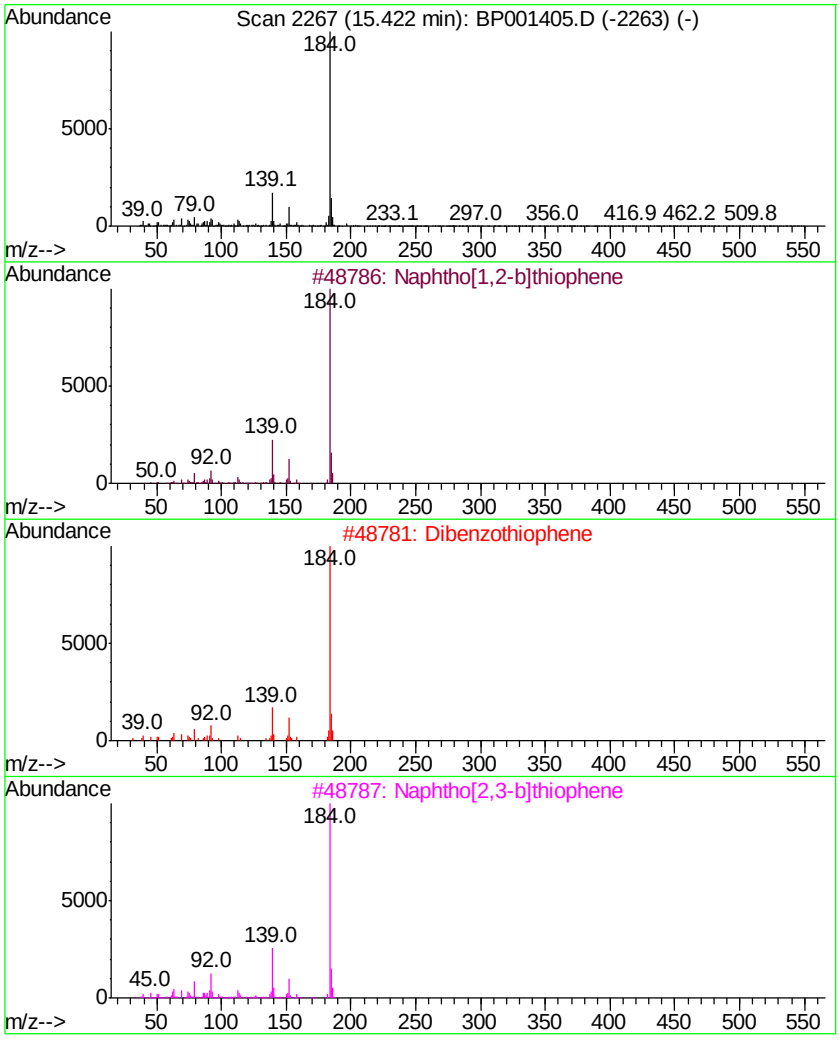
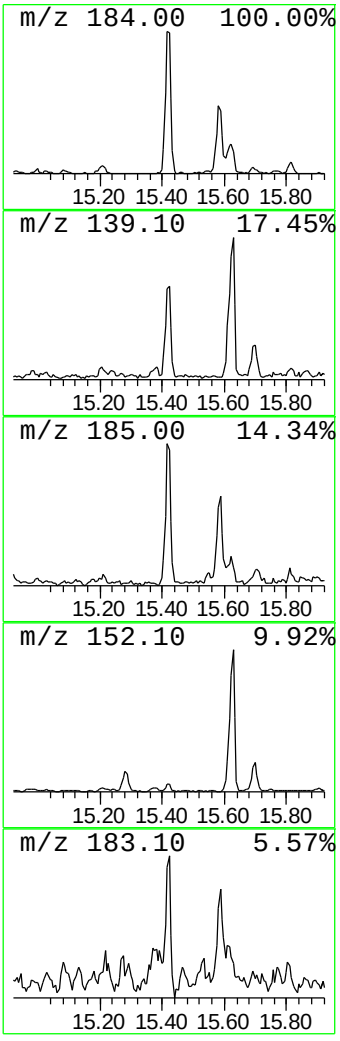
Peak Number 8 Naphtho[1,2-b]thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.42	5.95 ng	107416	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	91
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	80





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ClientSampleId : SB-4-(0-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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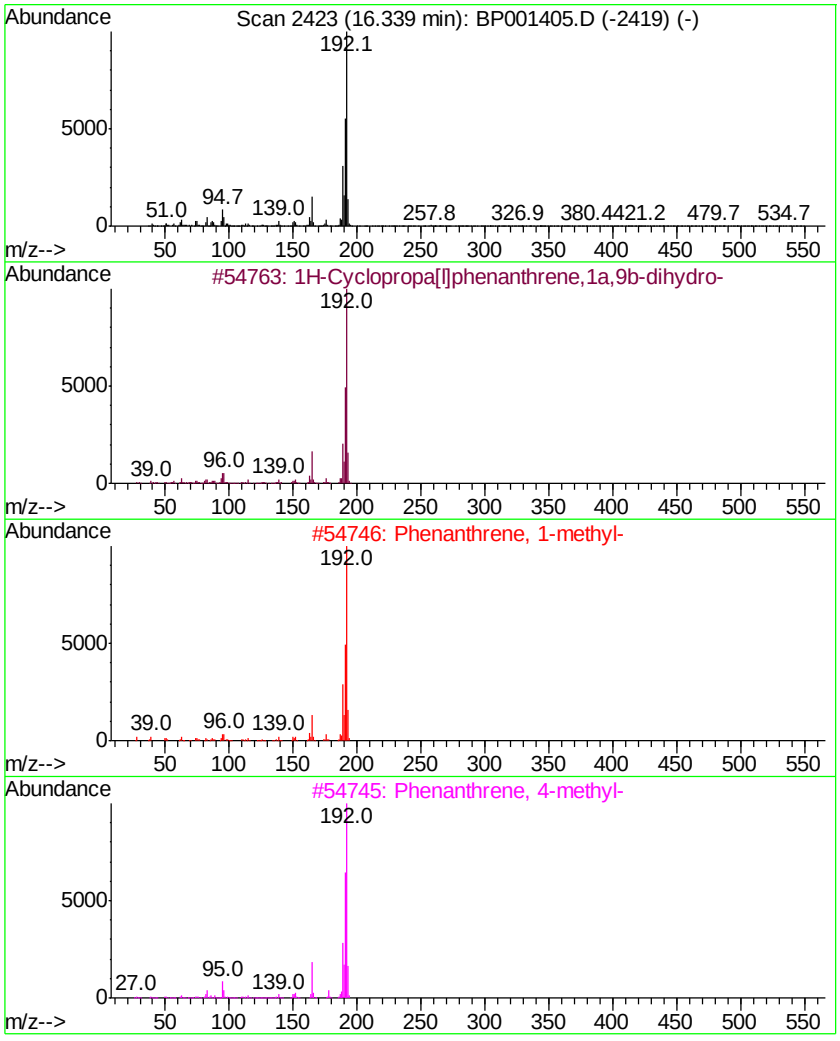
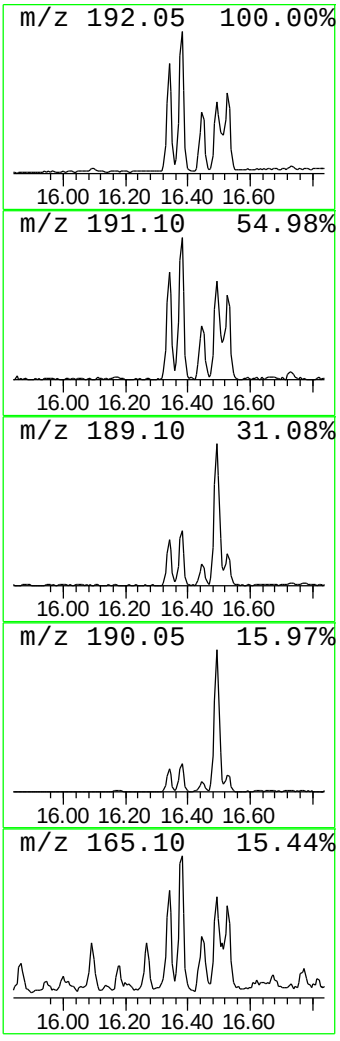
Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.34	12.00 ng	216440	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





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ClientSampleId : SB-4-(0-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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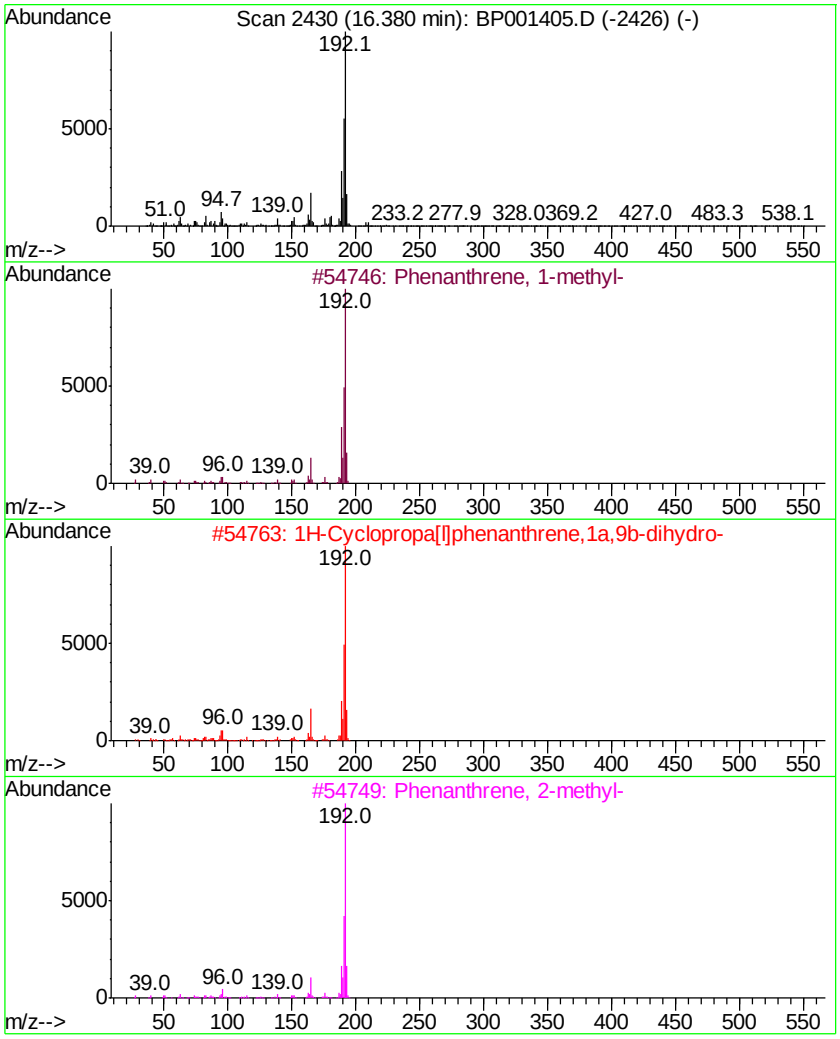
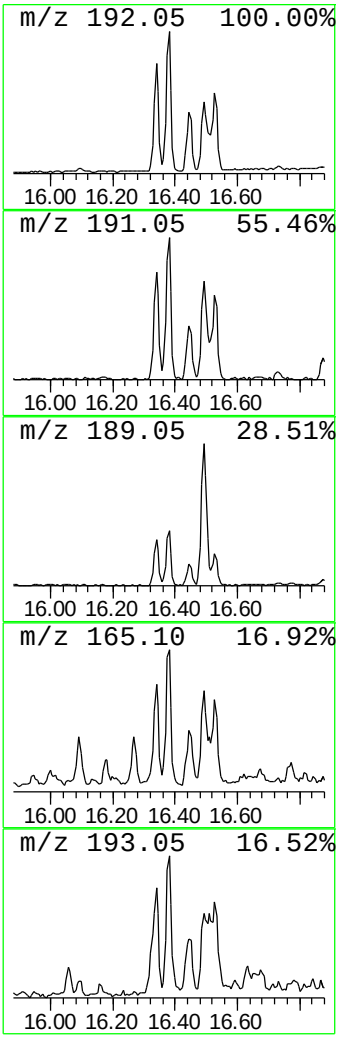
Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.38	17.84 ng	321893	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





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ClientSampleId : SB-4-(0-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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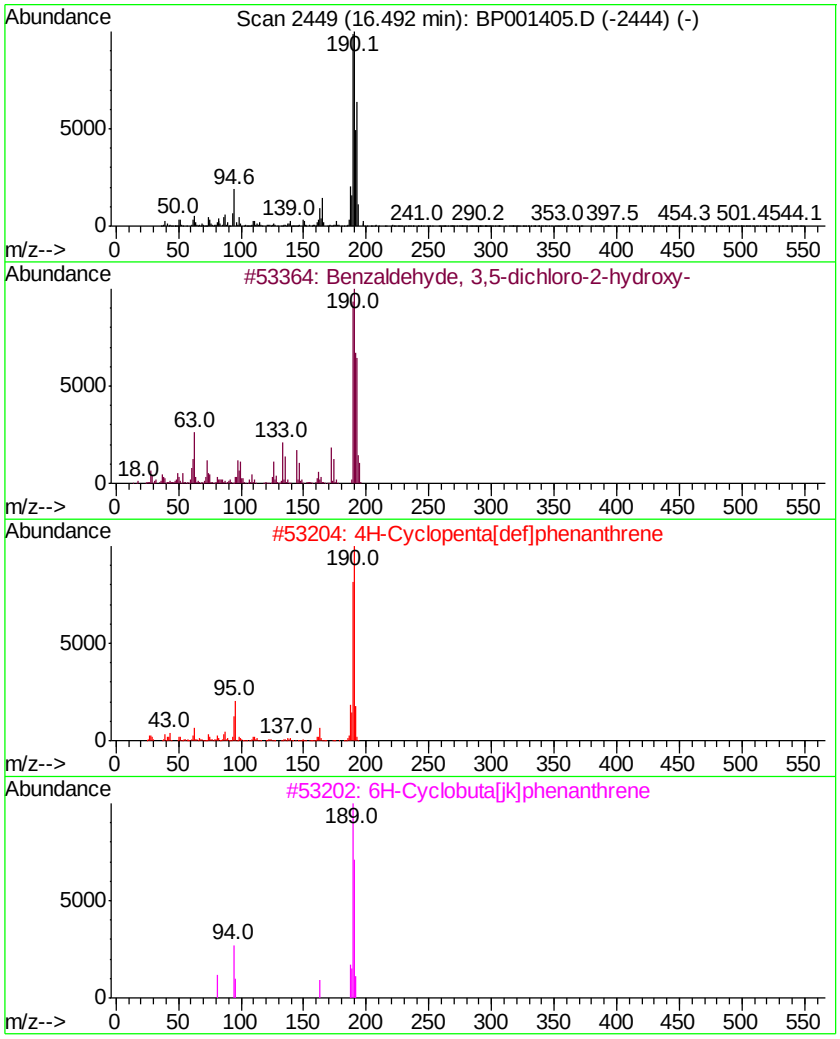
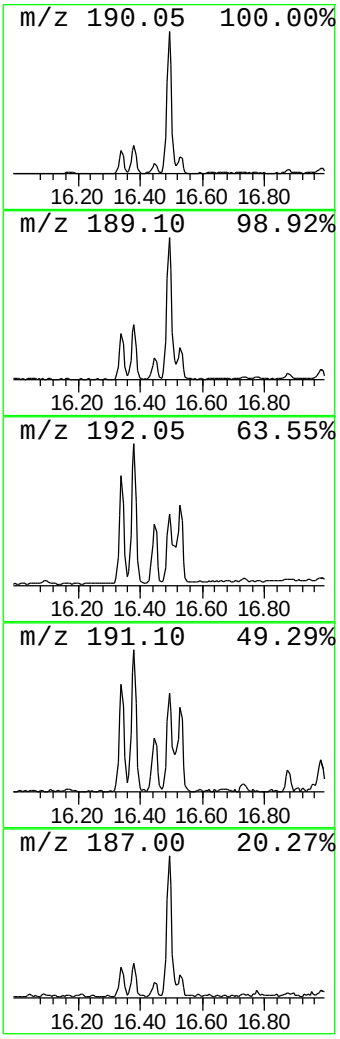
Peak Number 12 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.49	25.58 ng	461528	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	52
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	25
5	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	25





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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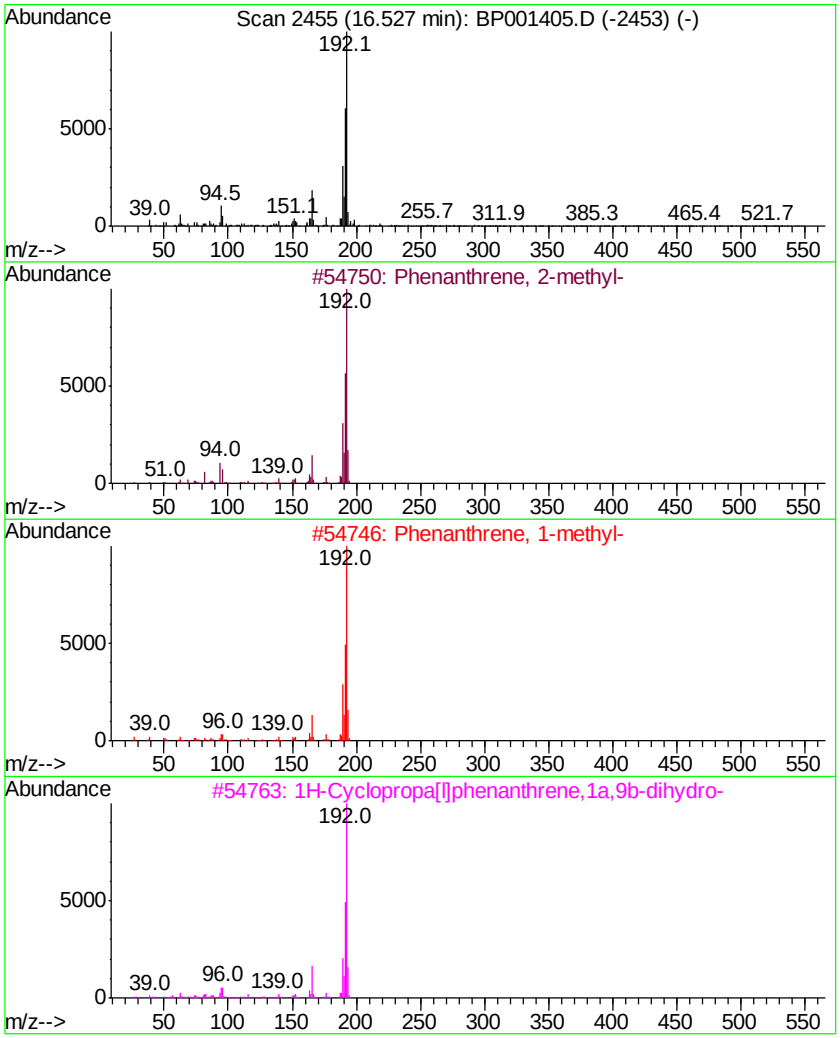
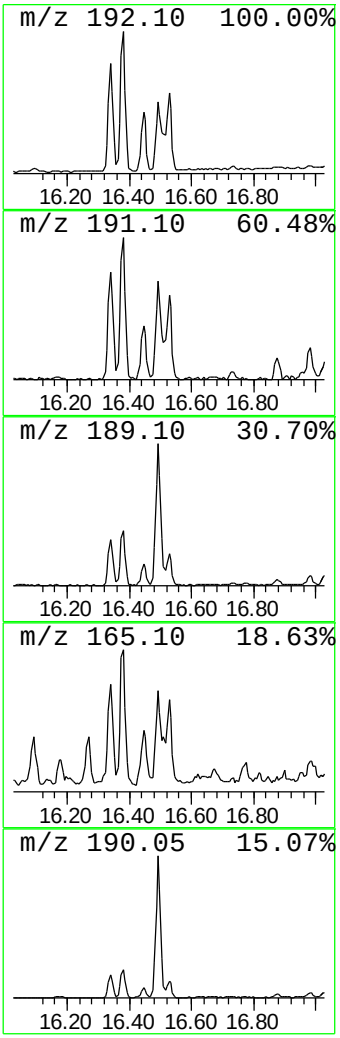
Peak Number 13 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.53	8.41 ng	151735	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	89
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	81
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	76





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ClientSampleId : SB-4-(0-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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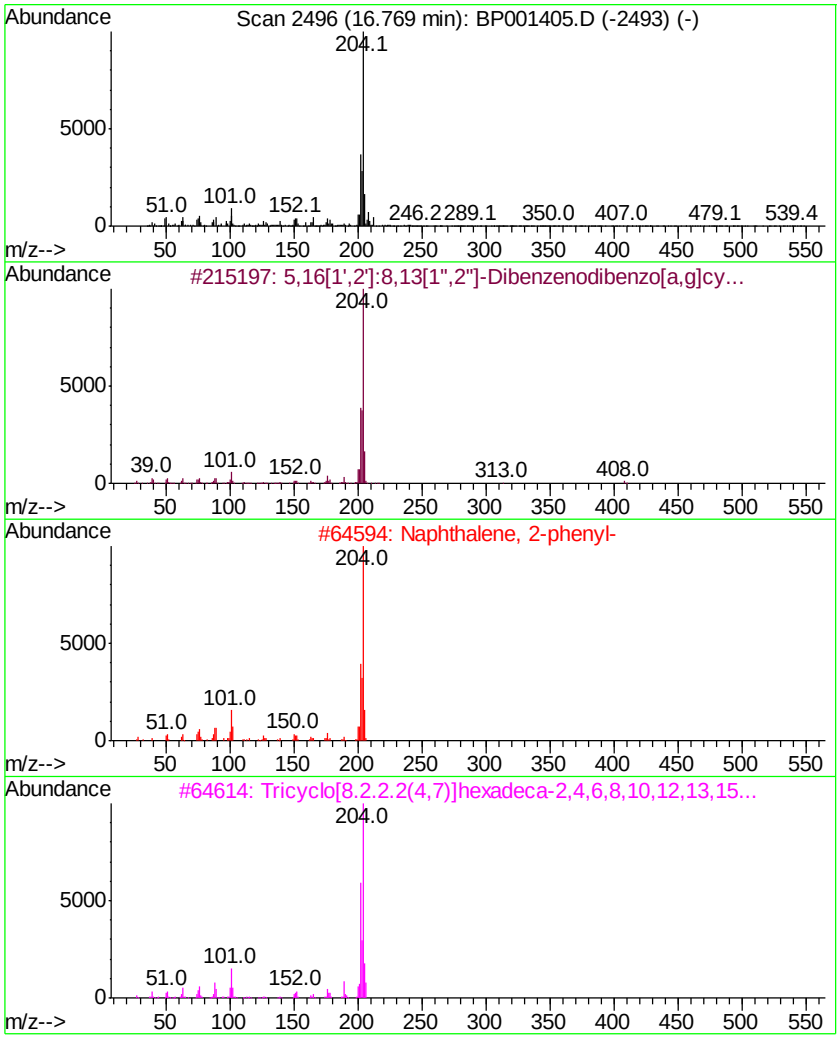
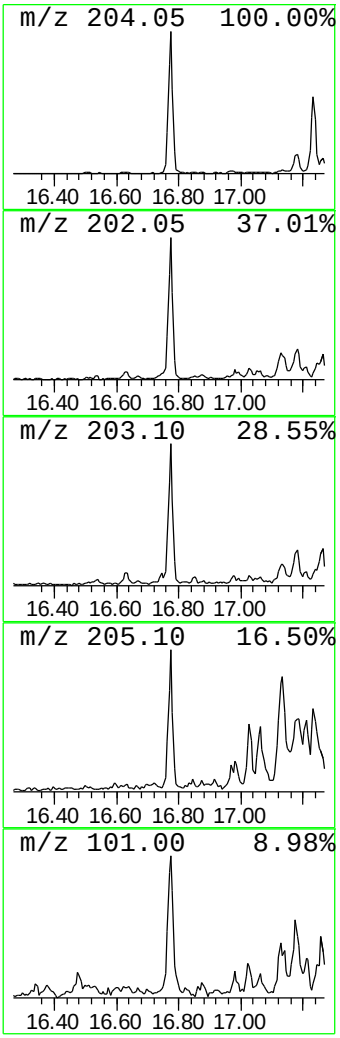
Peak Number 14 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.77	11.77 ng	212408	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	52
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	49
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	49





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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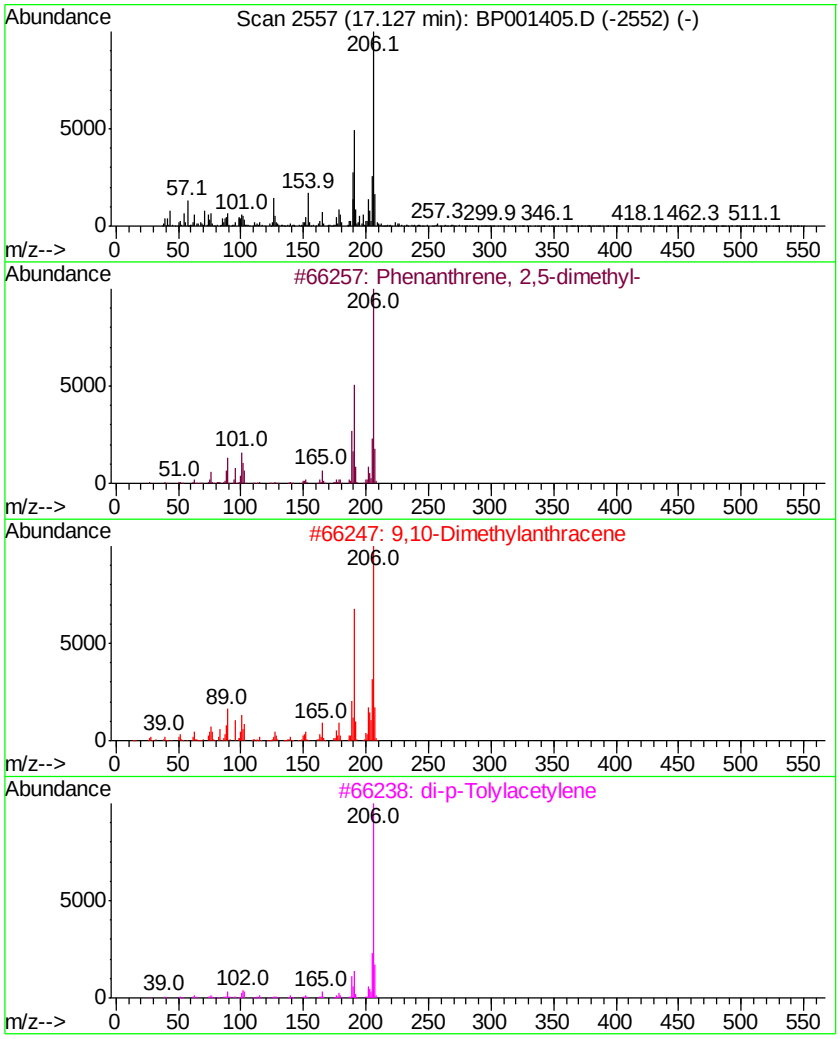
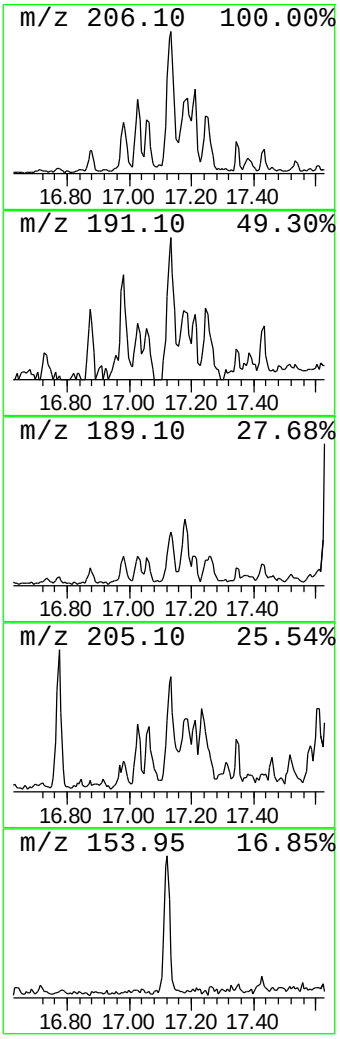
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.13	11.64 ng	209963	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	81
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	76





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ClientSampleId : SB-4-(0-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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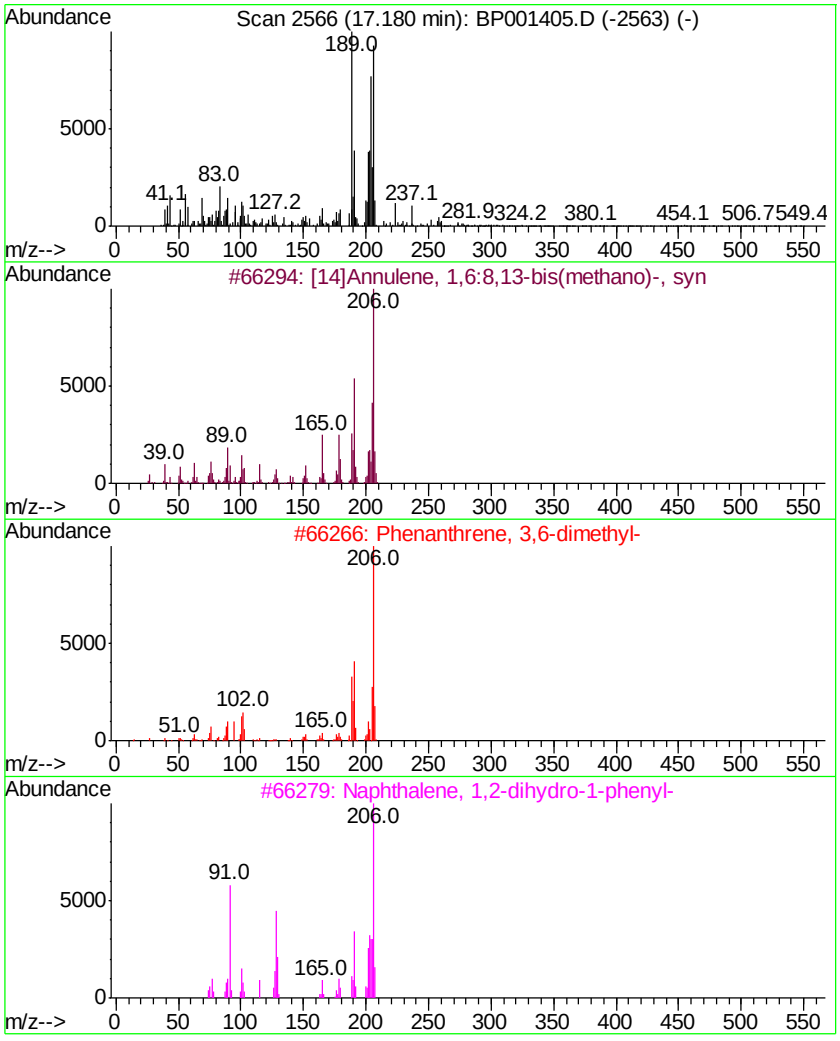
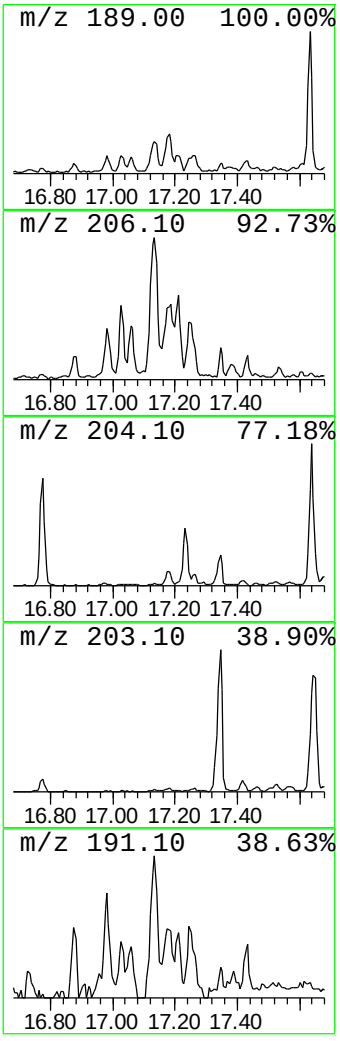
Peak Number 16 unknown17.18 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.18	6.43 ng	116062	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	42
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	42
3	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	38
4	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	38
5	Benzene, 1,1'-(1,3-butadienylide...	206	C16H14	004165-81-5	30





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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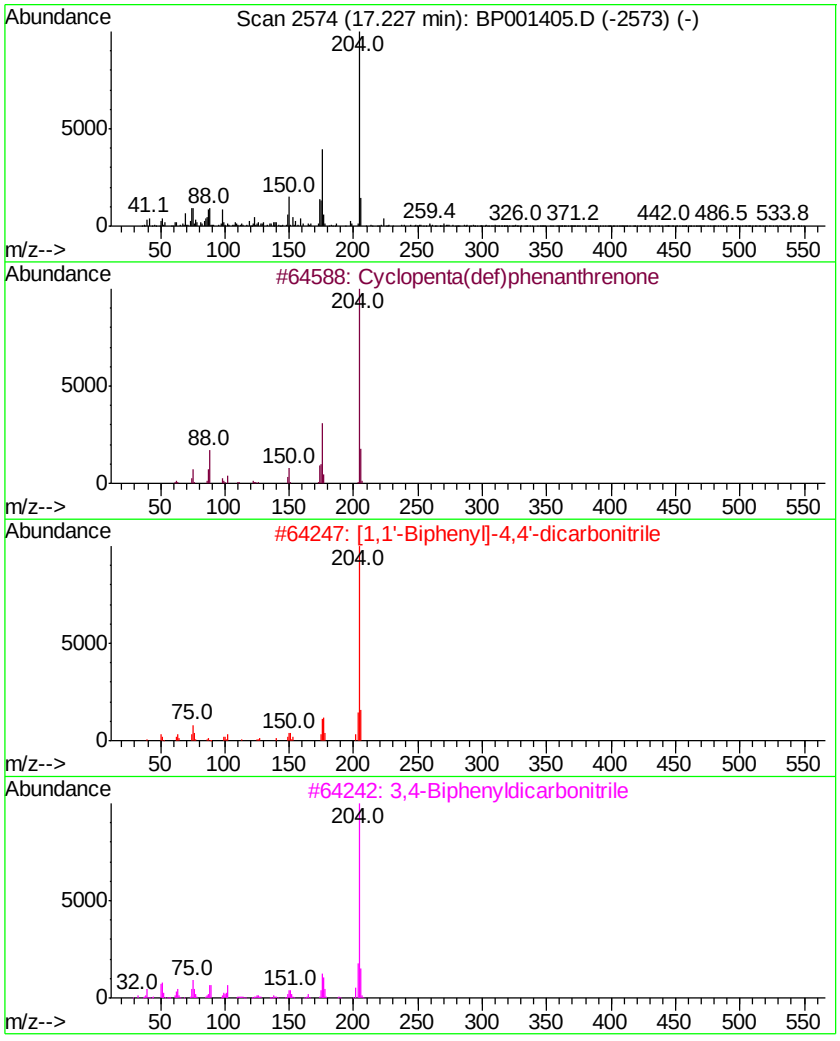
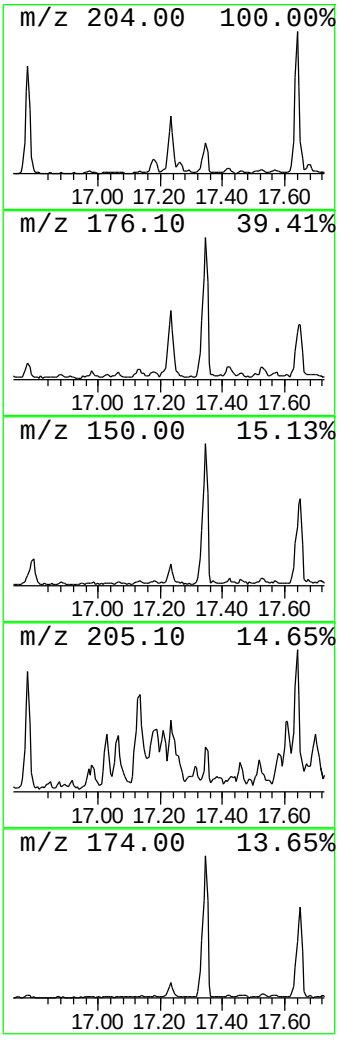
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.23	6.11 ng	110282	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
3	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
5	(E)-Ethyl 3-oxo-2-(pyrid-2-yl)me...	219	C12H13NO3	1000147-59-7	50





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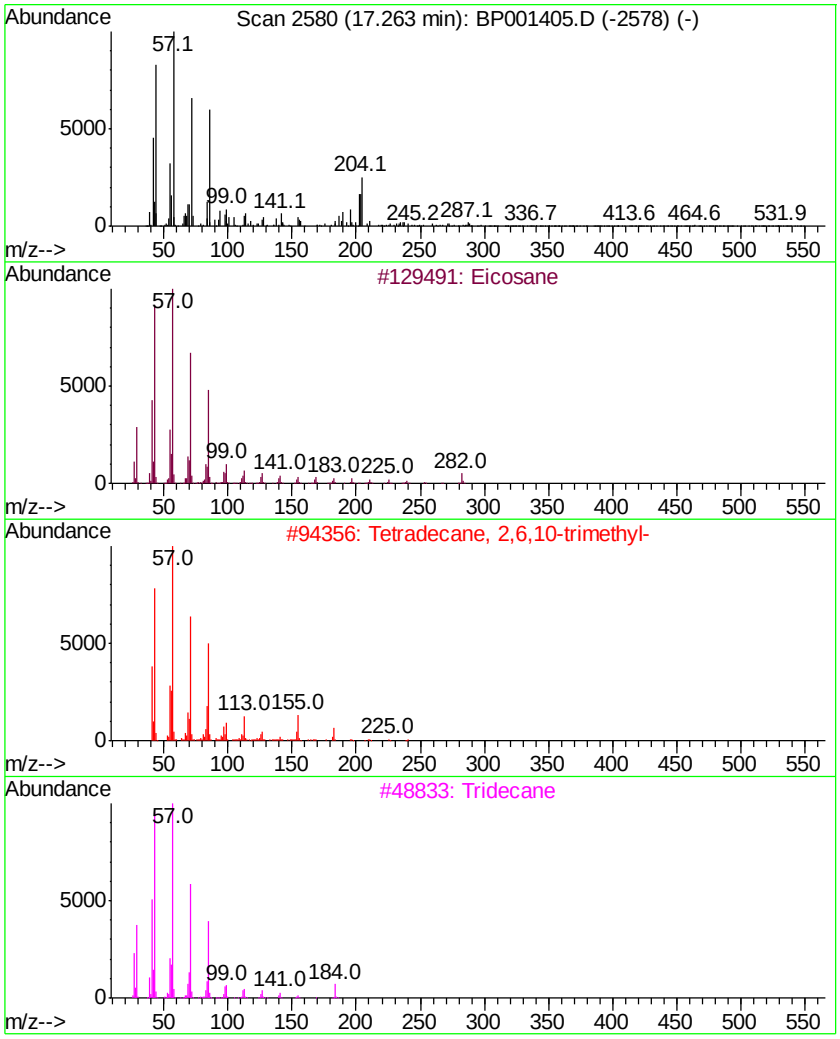
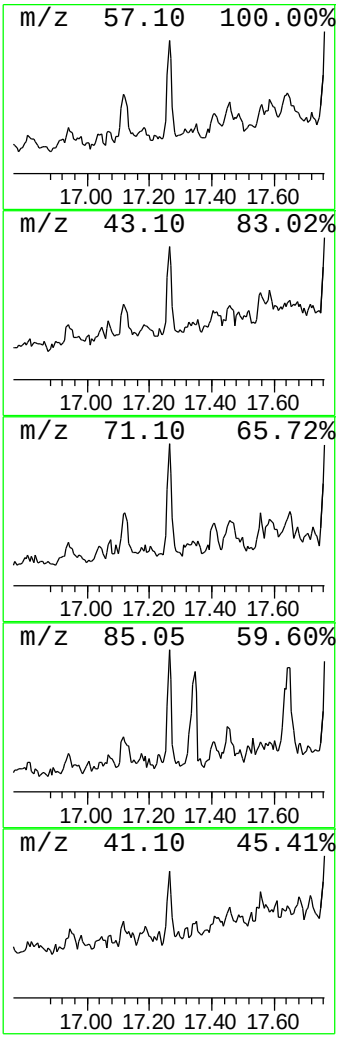
Peak Number 18 Eicosane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.26	4.50 ng	81134	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	58
2	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	52
3	Tridecane	184	C13H28	000629-50-5	52
4	Octadecane, 4-methyl-	268	C19H40	010544-95-3	46
5	Docosane, 11-butyl-	366	C26H54	013475-76-8	46





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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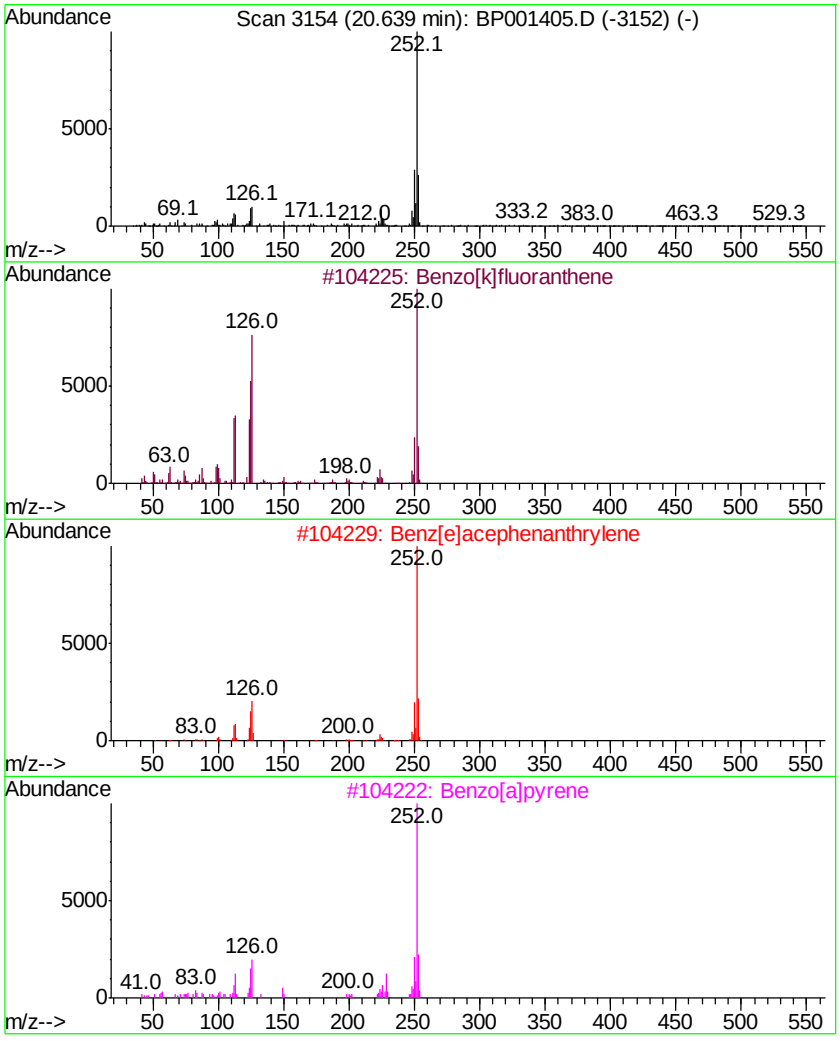
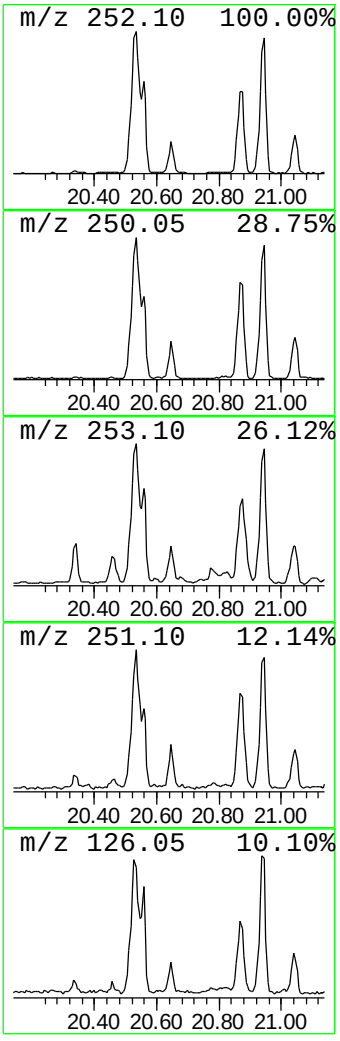
Peak Number 19 Perylene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.64	8.98 ng	147107	Perylene-d12	21.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	83
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	81
3	Benzo[a]pyrene	252	C20H12	000050-32-8	81
4	Perylene	252	C20H12	000198-55-0	70
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	68





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Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

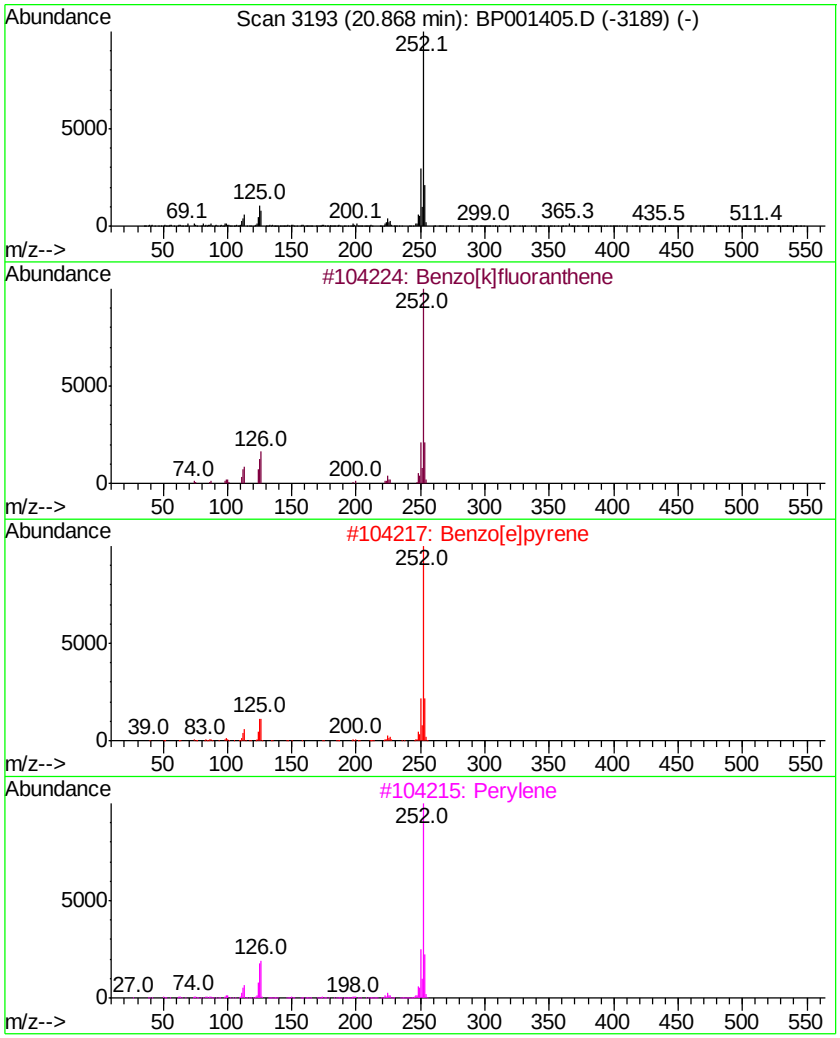
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

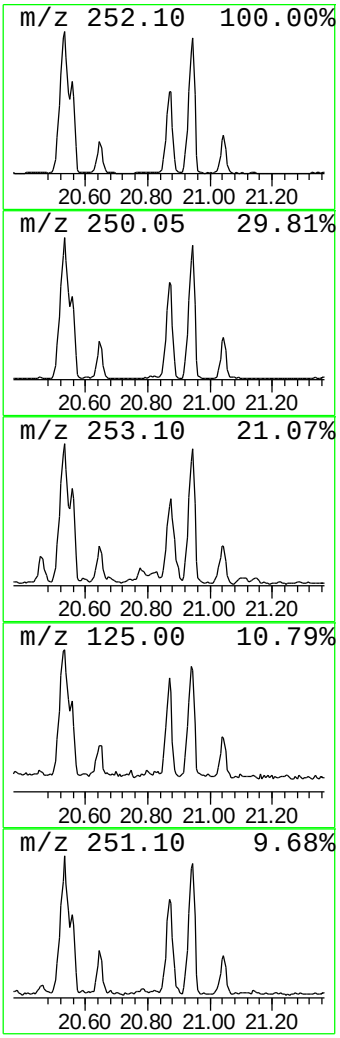
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.87	41.61 ng	681808	Perylene-d12	21.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
2	Benzo[e]pyrene	252	C20H12	000192-97-2	95
3	Perylene	252	C20H12	000198-55-0	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP122419\
Data File : BP001405.D
Acq On : 25 Dec 2019 00:33
Operator : JU
Sample : K6396-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-4-(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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
2-Pentanone, 4-hy...	5.59	9.0	ng	125479	1	8.29	279682	20.0
unknown7.93	7.93	47.8	ng	668374	1	8.29	279682	20.0
9H-Fluoren-9-ol	14.35	4.8	ng	97351	3	13.18	403645	20.0
9H-Fluorene, 2-me...	14.99	4.1	ng	74369	4	15.58	360791	20.0
Naphtho[2,1-b]fur...	15.37	4.8	ng	86426	4	15.58	360791	20.0
Naphtho[1,2-b]thi...	15.42	6.0	ng	107416	4	15.58	360791	20.0
1H-Cyclopropa[l]p...	16.34	12.0	ng	216440	4	15.58	360791	20.0
Phenanthrene, 1-m...	16.38	17.8	ng	321893	4	15.58	360791	20.0
Benzaldehyde, 3,5...	16.49	25.6	ng	461528	4	15.58	360791	20.0
Phenanthrene, 2-m...	16.53	8.4	ng	151735	4	15.58	360791	20.0
5,16[1',2']:8,13[...	16.77	11.8	ng	212408	4	15.58	360791	20.0
Phenanthrene, 2,5...	17.13	11.6	ng	209963	4	15.58	360791	20.0
unknown17.18	17.18	6.4	ng	116062	4	15.58	360791	20.0
Cyclopenta(def)ph...	17.23	6.1	ng	110282	4	15.58	360791	20.0
Eicosane	17.26	4.5	ng	81134	4	15.58	360791	20.0
Perylene	20.64	9.0	ng	147107	6	21.01	327752	20.0
Benzo[e]pyrene	20.87	41.6	ng	681808	6	21.01	327752	20.0