LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(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_F\Methods\8270-BF120822.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF131700.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.116	3	5	11	rVB	292234	296017	19.49%	1.200%
2	5.075	504	508	514	rBV	177365	202314	13.32%	0.820%
3	5.487	573	578	581	rBV	1501495	1455826	95.83%	5.900%
4	6.504	746	751	754	rBV	1551569	1432288	94.28%	5.805%
5	6.875	810	814	817	rBV	509902	431911	28.43%	1.750%
6	7.439	905	910	913	rBV	1073931	921726	60.67%	3.735%
7	8.163	1029	1033	1035	rBV	651484	517319	34.05%	2.097%
8	8.181	1035	1036	1040	rVB	54094	41667	2.74%	0.169%
9	8.875	1152	1154	1158	rVB	47073	36717	2.42%	0.149%
10	8.975	1168	1171	1174	rBV	52066	42011	2.77%	0.170%
11	9.239	1212	1216	1220	rBV	1761862	1519132	100.00%	6.157%
12	9.581	1270	1274	1276	rVV	42809	39167	2.58%	0.159%
13	9.781	1306	1308	1311	rVB	37013	29293	1.93%	0.119%
14	9.922	1329	1332	1335	rVB	649113	513434	33.80%	2.081%
15	9.957	1335	1338	1341	rVB	155528	123849	8.15%	0.502%
16	10.128	1363	1367	1371	rVB	86575	73483	4.84%	0.298%
17	10.475	1422	1426	1431	rVB	120806	111403	7.33%	0.451%
18	10.639	1450	1454	1457	rVB	487287	398271	26.22%	1.614%
19	10.716	1463	1467	1470	rBV	1002523	803544	52.89%	3.257%
20	10.839	1482	1488	1494	rVB6	21198	31587	2.08%	0.128%
21	11.022	1513	1519	1522	rBV3	32471	52059	3.43%	0.211%
22	11.222	1549	1553	1556	rVB	57086	47342	3.12%	0.192%
23	11.275	1556	1562	1566	rVV5	27371	43835	2.89%	0.178%
24	11.310	1566	1568	1573	rVB	61179	56195	3.70%	0.228%
25	11.416	1582	1586	1588	rBV	544647	471626	31.05%	1.911%
26	11.445	1588	1591	1594	rVV	1183325	1017010	66.95%	4.122%
27	11.492	1594	1599	1602	rVV	253898	212718	14.00%	0.862%
28	11.651	1619	1626	1633	rBV2	95687	114164	7.52%	0.463%
29	11.716	1633	1637	1640	rVV3	28537	34087	2.24%	0.138%
30	11.922	1666	1672	1674	rBV	149710	137405	9.04%	0.557%
31	11.951	1674	1677	1680	rVB	183034	176651	11.63%	0.716%
32	11.998	1680	1685	1687	rBV2	61456	56725	3.73%	0.230%
33	12.033	1687	1691	1693	rBV2	190811	196480	12.93%	0.796%
34	12.057	1693	1695	1698	rVB	86411	69767	4.59%	0.283%
35	12.104	1698	1703	1705	rBV4	17914	29610	1.95%	0.120%
36	12.216	1719	1722	1724	rBV	96481	78453	5.16%	0.318%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(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_F\Methods\8270-BF120822.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	12.245	1724	1727	1730	rVB	109826	96012	6.32%	0.389%
38	12.369	1742	1748	1750	rBV2	34552	40142	2.64%	0.163%
39	12.474	1760	1766	1769	rBV2	71831	97033	6.39%	0.393%
40	12.510	1769	1772	1774	rVV2	44240	55985	3.69%	0.227%
41	12.557	1778	1780	1786	rVB	65148	70567	4.65%	0.286%
42	12.639	1790	1794	1797	rVB	1395923	1134092	74.65%	4.596%
43	12.769	1812	1816	1817	rBV3	30195	35236	2.32%	0.143%
44	12.792	1817	1820	1822	rVV	39311	39377	2.59%	0.160%
45	12.869	1826	1833	1838	rBV	1165302	1185097	78.01%	4.803%
46	12.916	1838	1841	1846	rVB2	59293	66899	4.40%	0.271%
47	12.986	1849	1853	1854	rBV	67011	64214	4.23%	0.260%
48	13.010	1854	1857	1863	rVB	1284586	1103789	72.66%	4.473%
49	13.080	1863	1869	1874	rBV2	76626	142794	9.40%	0.579%
50	13.169	1881	1884	1886	rBV3	65499	85531	5.63%	0.347%
51	13.192	1886	1888	1892	rVB	140833	136303	8.97%	0.552%
52	13.263	1897	1900	1902	rVV	92446	76146	5.01%	0.309%
53	13.298	1902	1906	1909	rVV2	119420	129086	8.50%	0.523%
54	13.392	1919	1922	1925	rBV	67232	56876	3.74%	0.231%
55	13.421	1925	1927	1931	rBV	66214	61459	4.05%	0.249%
56	13.580	1950	1954	1955	rBV3	32652	38799	2.55%	0.157%
57	13.704	1972	1975	1980	rVB	116837	116562	7.67%	0.472%
58	13.816	1988	1994	1997	rBV2	126110	156592	10.31%	0.635%
59	13.845	1997	1999	2001	rVV	111756	96337	6.34%	0.390%
60	13.868	2001	2003	2005	rVV	82202	91555	6.03%	0.371%
61	13.916	2008	2011	2018	rVV2	178784	213901	14.08%	0.867%
62	13.986	2021	2023	2029	rVB	29989	39493	2.60%	0.160%
63	14.068	2029	2037	2040	rBV2	811715	1286248	84.67%	5.213%
64	14.098	2040	2042	2048	rVB	662427	556203	36.61%	2.254%
65	14.174	2053	2055	2058	rVB2	70898	56244	3.70%	0.228%
66	14.263	2068	2070	2072	rVV	63052	62244	4.10%	0.252%
67	14.298	2074	2076	2079	rVV	82803	84682	5.57%	0.343%
68	14.327	2079	2081	2084	rVV2	45151	48017	3.16%	0.195%
69	14.404	2088	2094	2095	rVV4	31830	60576	3.99%	0.245%
70	14.421	2095	2097	2099	rVV	47685	50582	3.33%	0.205%
71	14.457	2099	2103	2106	rVV	158594	187984	12.37%	0.762%
72	14.492	2106	2109	2113	rVV2	90028	113327	7.46%	0.459%
73	14.551	2113	2119	2122	rVV4	83141	180746	11.90%	0.733%
74	14.580	2122	2124	2126	rVV2	82514	94509	6.22%	0.383%
75	14.604	2126	2128	2132	rVV4	74477	99420	6.54%	0.403%
76	14.657	2135	2137	2142	rVB2	52145	60554	3.99%	0.245%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(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_F\Methods\8270-BF120822.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	14.774	2152	2157	2159	rBV3	64705	81785	5.38%	0.331%
78	14.851	2167	2170	2173	rBV4	35071	43852	2.89%	0.178%
79	14.927	2180	2183	2185	rBV2	38072	42616	2.81%	0.173%
80	15.033	2198	2201	2205	rBV2	26197	31883	2.10%	0.129%
81	15.068	2205	2207	2211	rVB	26228	29373	1.93%	0.119%
82	15.133	2212	2218	2221	rBV	566009	910930	59.96%	3.692%
83	15.204	2227	2230	2233	rVB2	45581	51180	3.37%	0.207%
84	15.239	2233	2236	2240	rBV	107795	116995	7.70%	0.474%
85	15.333	2248	2252	2254	rBV2	37449	54253	3.57%	0.220%
86	15.445	2266	2271	2277	rVB	341735	447211	29.44%	1.812%
87	15.510	2277	2282	2288	rVB	516331	604085	39.77%	2.448%
88	15.574	2288	2293	2296	rBV	385104	514122	33.84%	2.084%
89	15.604	2296	2298	2305	rVB2	153225	191875	12.63%	0.778%
90	15.939	2352	2355	2361	rVB3	22572	39909	2.63%	0.162%
91	16.145	2388	2390	2402	rVB3	31651	69440	4.57%	0.281%
92	16.627	2469	2472	2477	rBV5	17851	28744	1.89%	0.116%
93	16.739	2487	2491	2496	rVB8	23742	40681	2.68%	0.165%
94	16.886	2510	2516	2520	rBV3	41713	102624	6.76%	0.416%
95	17.086	2544	2550	2558	rVB2	226619	439756	28.95%	1.782%
96	17.180	2561	2566	2573	rVB5	24204	56665	3.73%	0.230%
97	17.268	2574	2581	2585	rBV2	47924	106740	7.03%	0.433%
98	17.333	2587	2592	2596	rVV2	32635	54408	3.58%	0.220%
99	17.539	2620	2627	2642	rVB	152791	352833	23.23%	1.430%
100	17.786	2663	2669	2676	rBV3	37405	76709	5.05%	0.311%

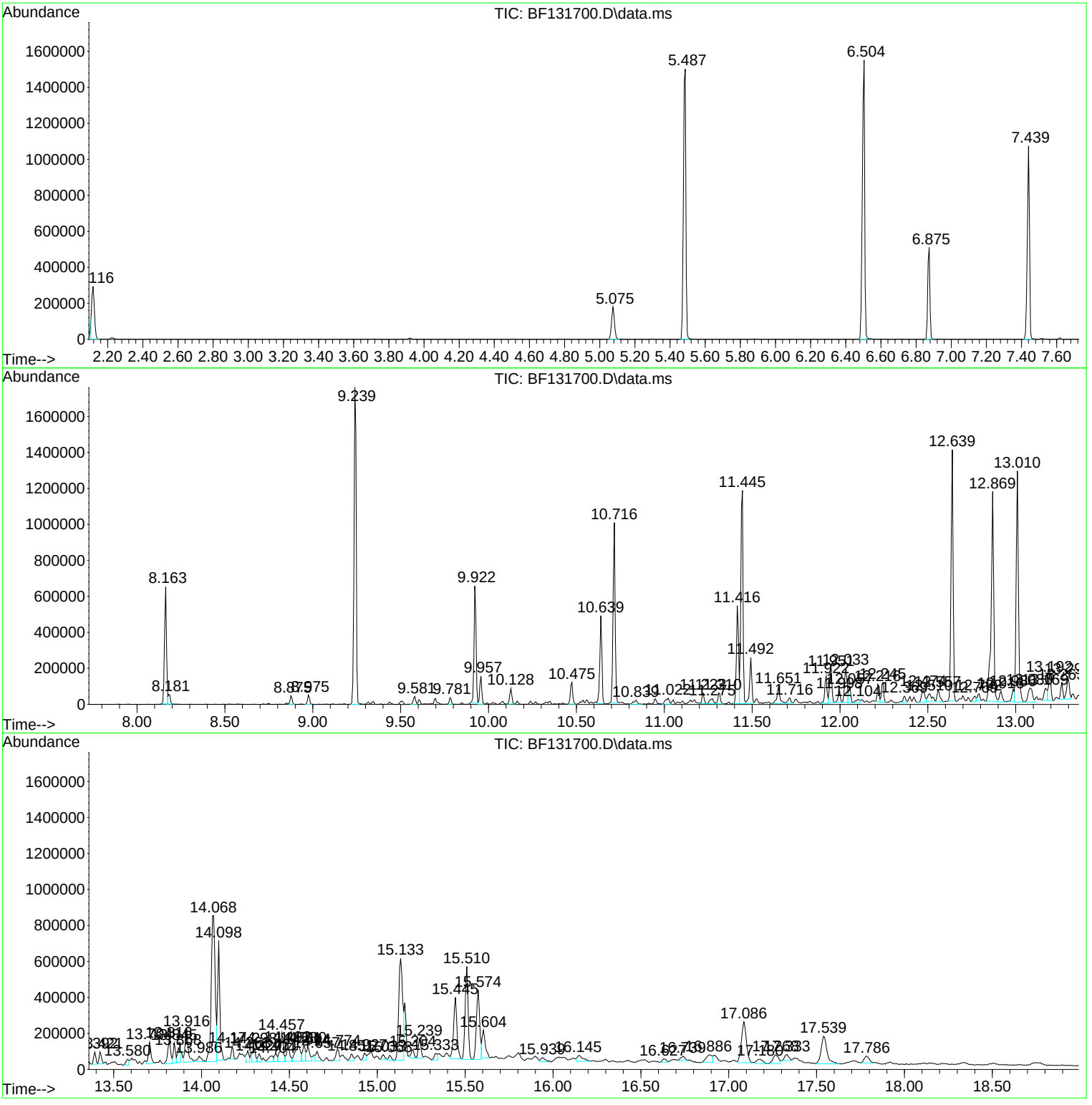
Sum of corrected areas: 24674968

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

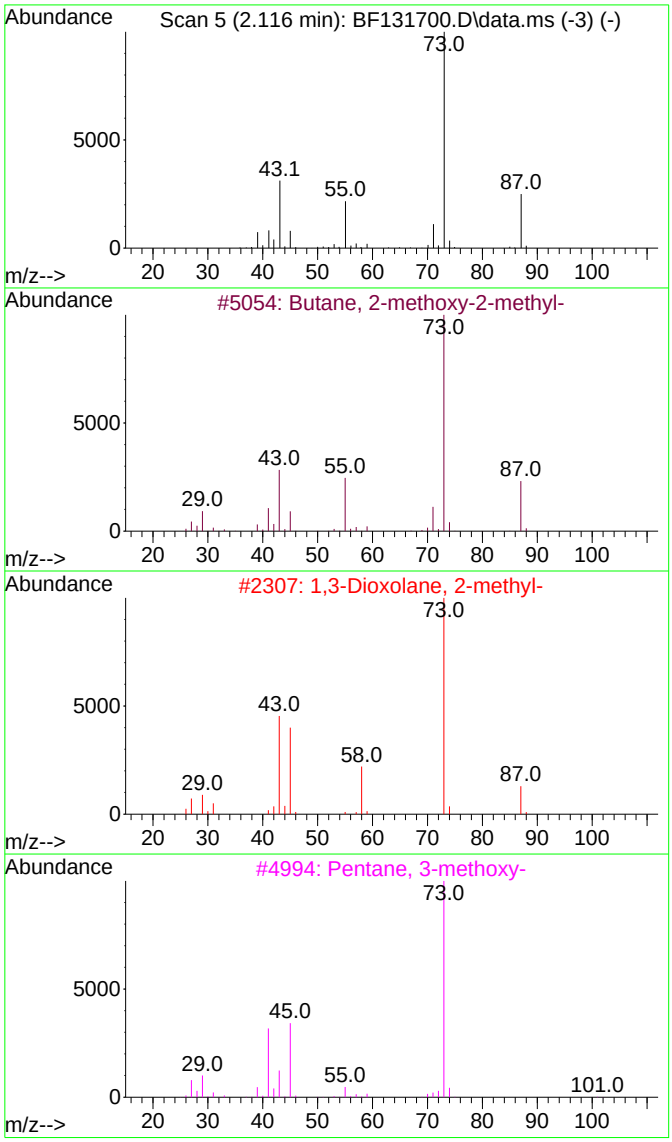
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

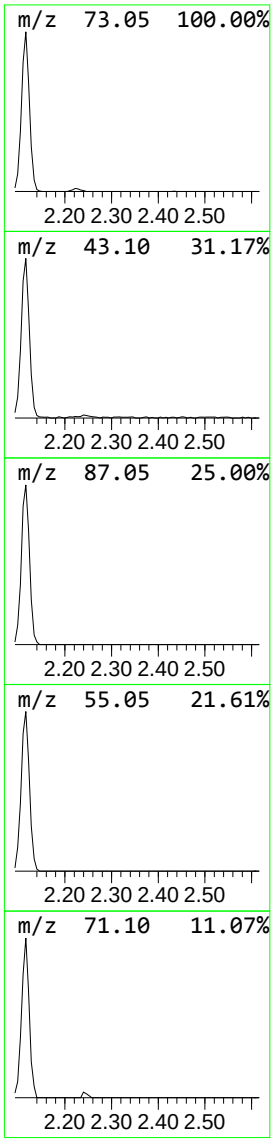
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.116	13.71 ng	296017	1,4-Dichlorobenzene-d4	6.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

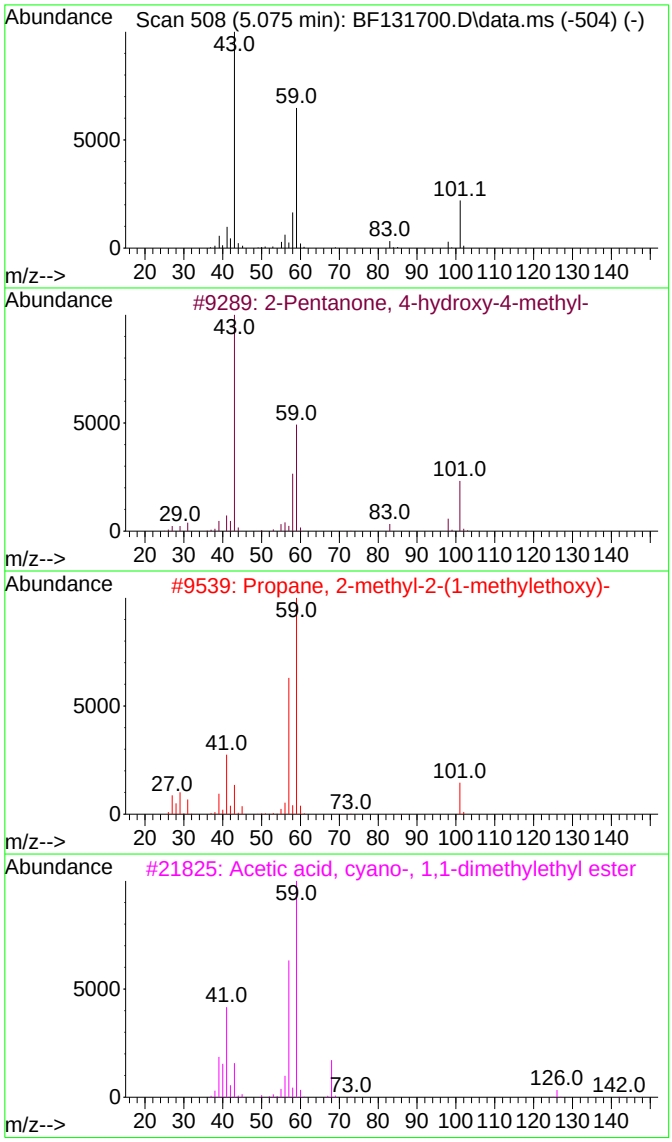
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

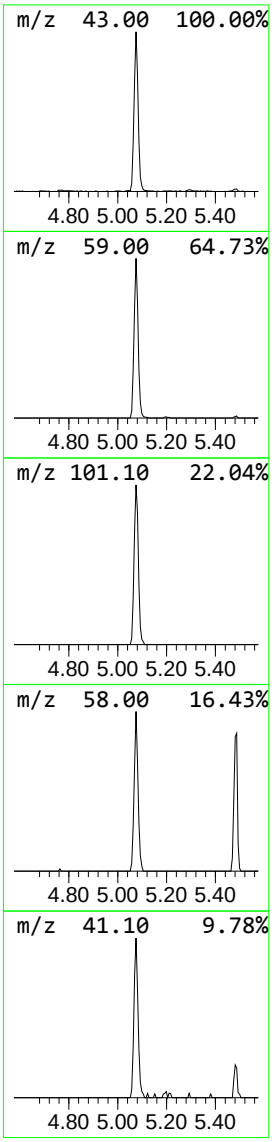
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.075	9.37 ng	202314	1,4-Dichlorobenzene-d4	6.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	53
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

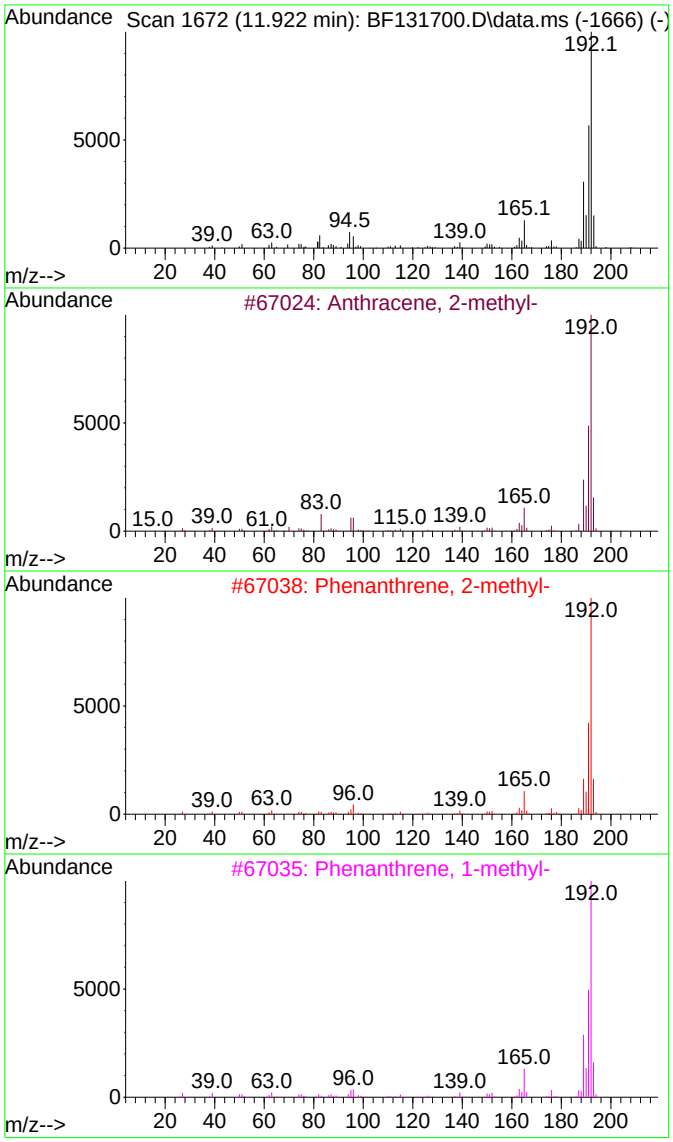
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

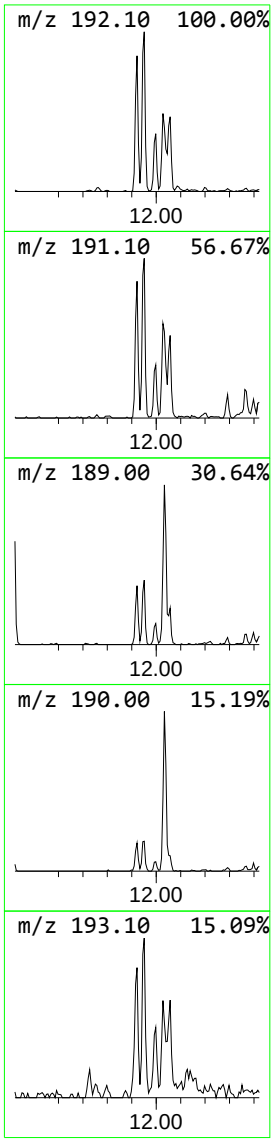
****

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	5.83 ng	137405	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

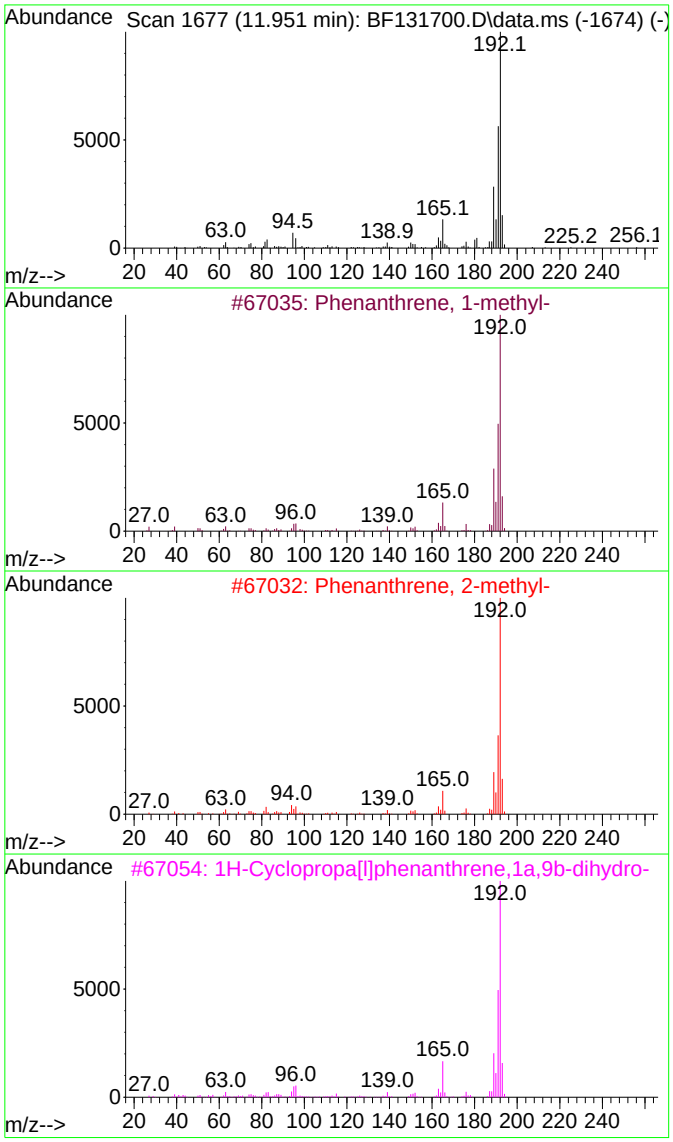
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

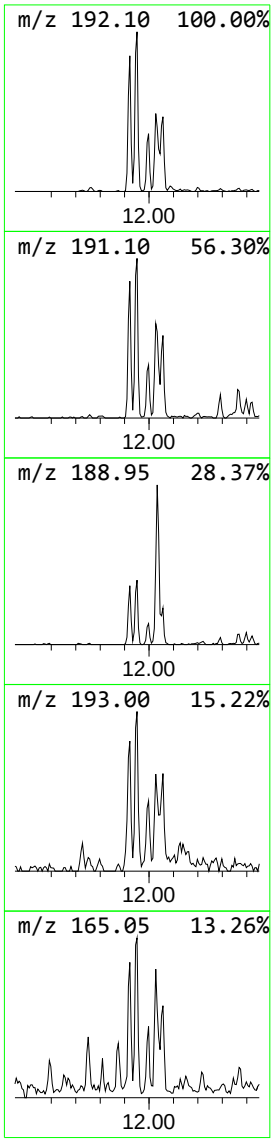
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	7.49 ng	176651	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

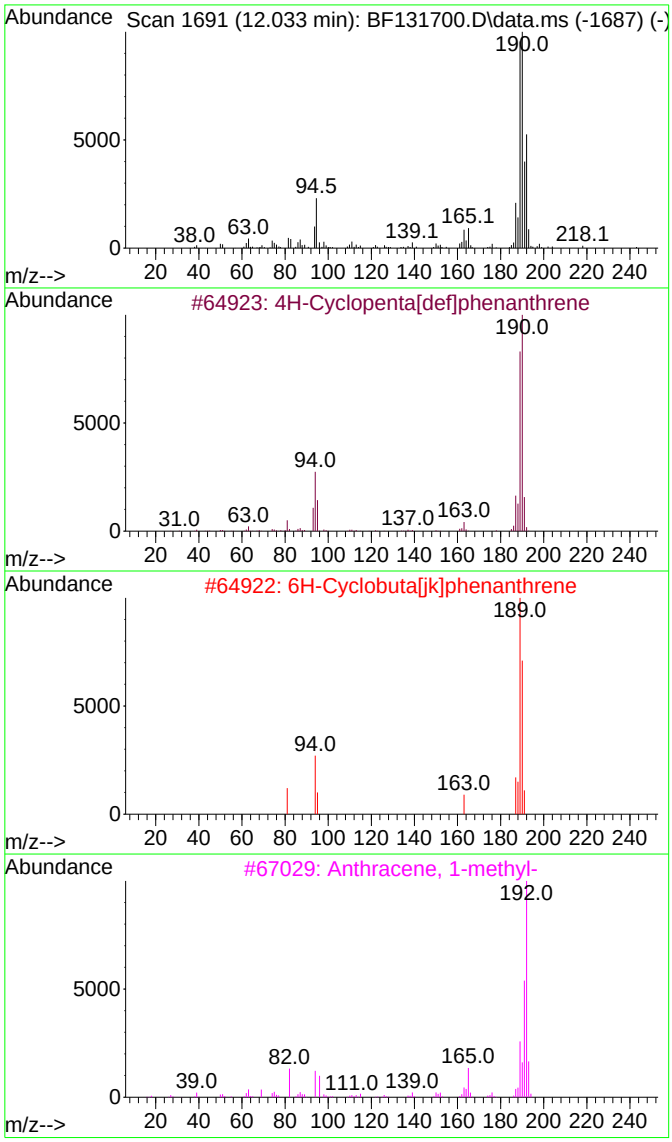
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

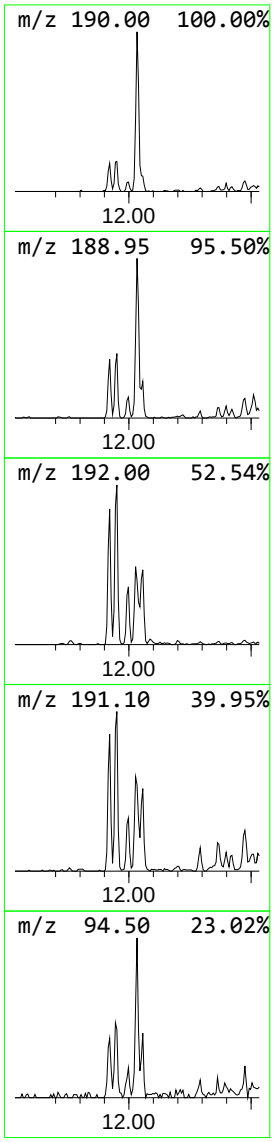
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.033	8.33 ng	196480	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	30
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	30
5	Cyclohexanone, 2-(2-furanylmethy...	190	C12H14O2	056053-07-7	27





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Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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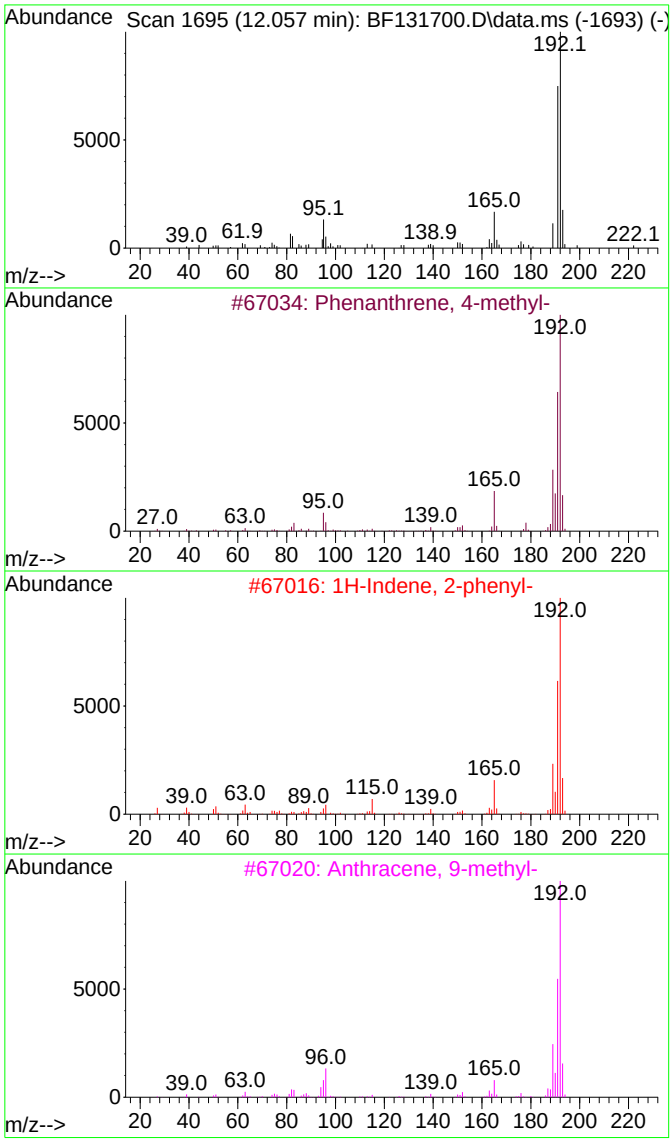
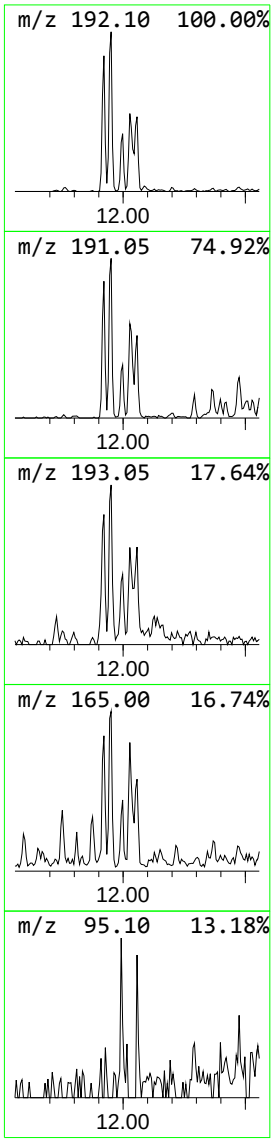
Peak Number 6 Phenanthrene, 4-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.057	2.96 ng	69767	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	87
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	83





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Misc :
ALS Vial : 18 Sample Multiplier: 1

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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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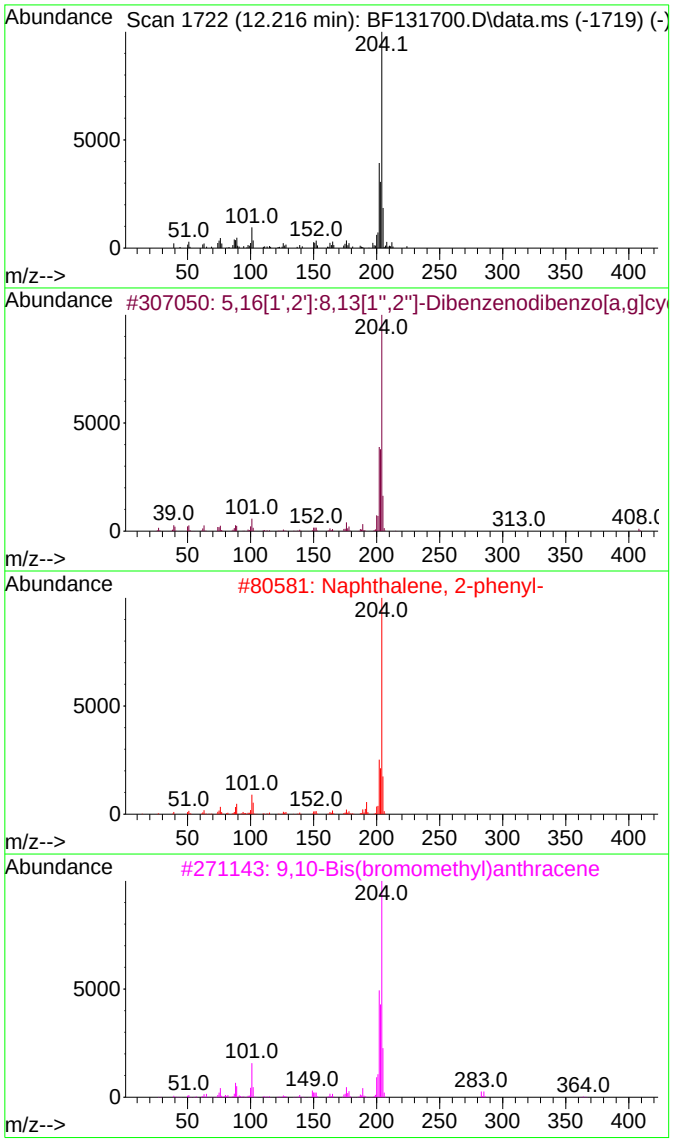
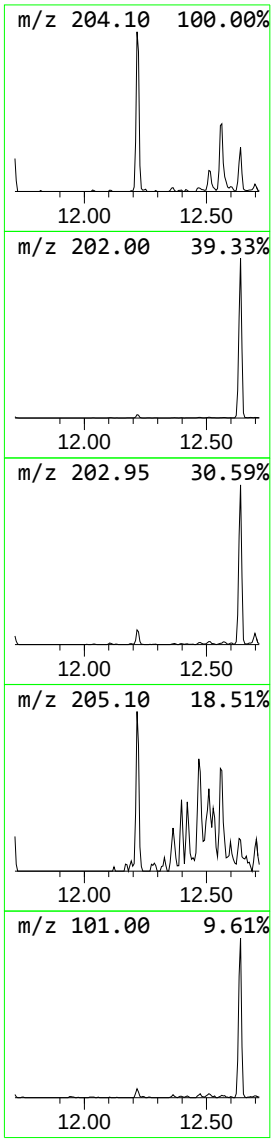
Peak Number 7 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.216	3.33 ng	78453	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	53





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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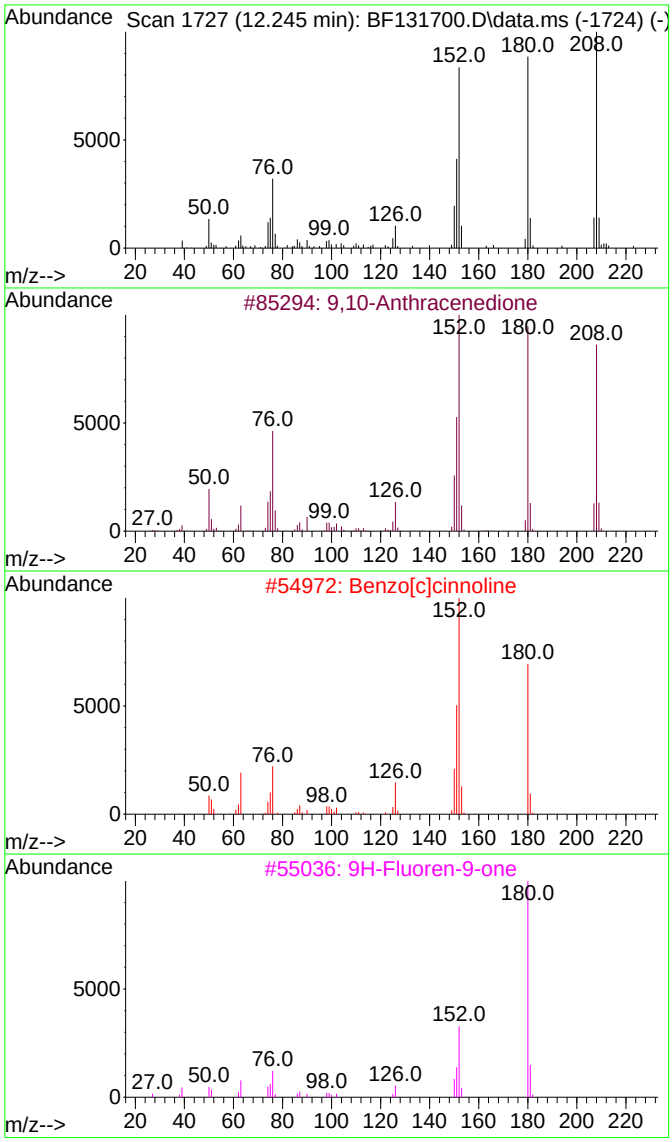
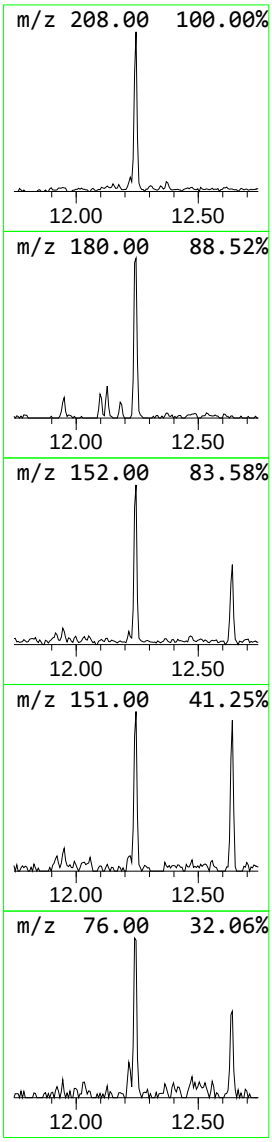
Peak Number 8 9,10-Anthracenedione Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.245	4.07 ng	96012	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	58





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Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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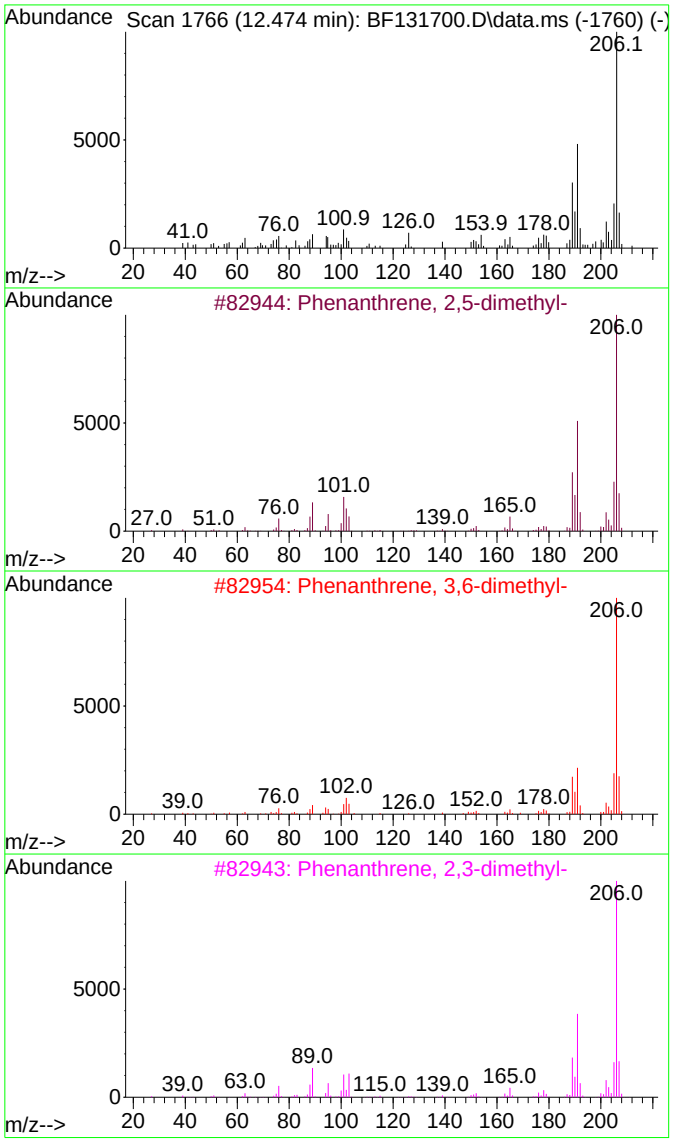
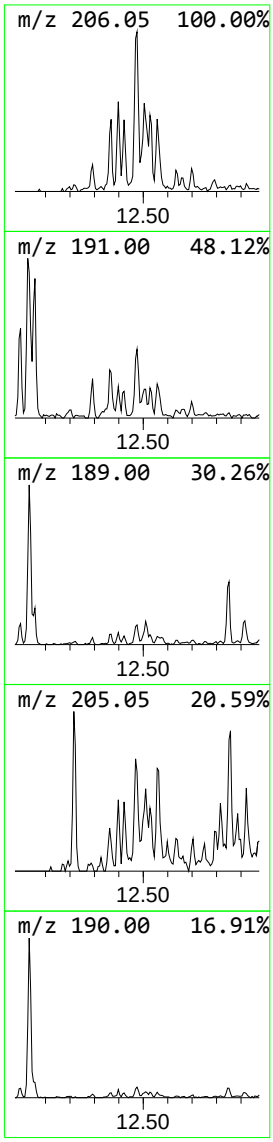
Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.474	4.11 ng	97033	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	92





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Misc :
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Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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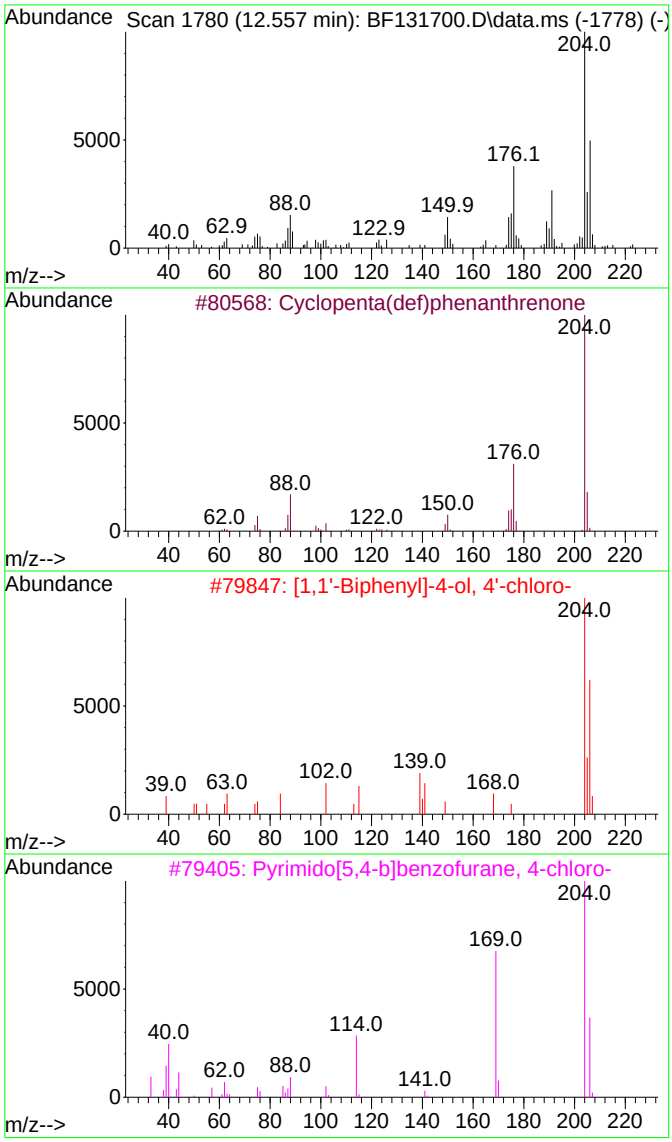
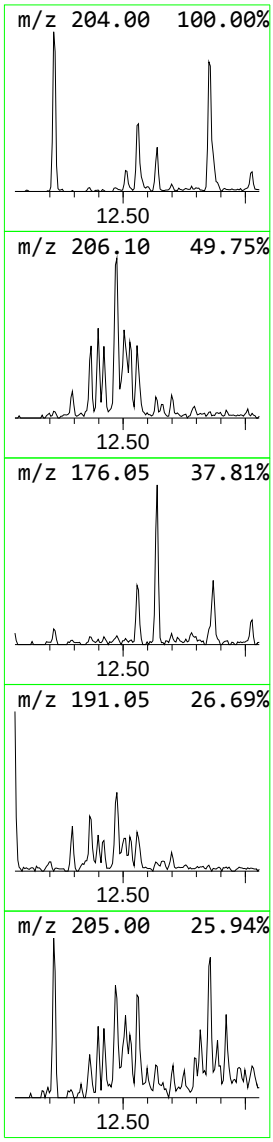
Peak Number 10 Cyclopenta(def)phenanthrenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.557	2.99 ng	70567	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	52
3	Pyrimido[5,4-b]benzofurane, 4-ch...	204	C10H5ClN2O	039876-88-5	38
4	5,6,7,8-Tetrahydrothieno[2,3-b]q...	204	C11H12N2S	122914-50-5	38
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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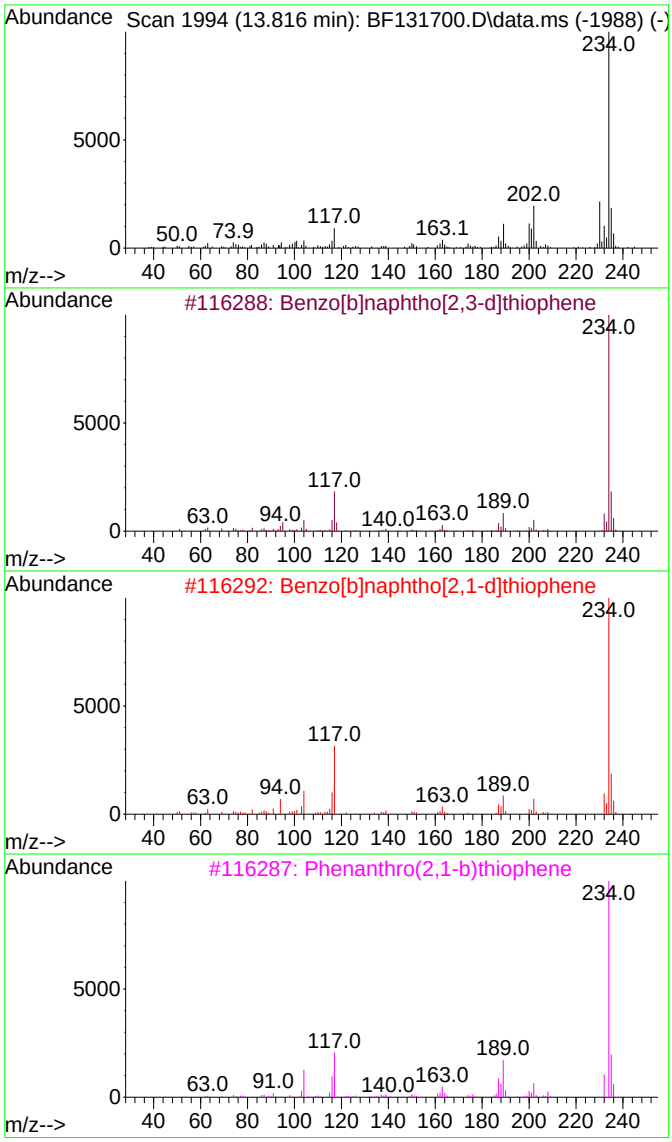
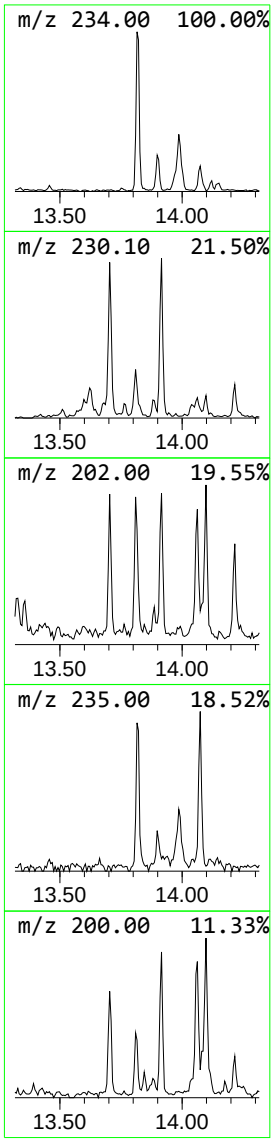
Peak Number 11 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.816	2.43 ng	156592	Chrysene-d12	14.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	86
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	70
3	Phenanthro(2,1-b)thiophene	234	C16H10S	000219-25-0	60
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	58
5	Phenanthro[4,3-b]thiophene	234	C16H10S	000195-68-6	47





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Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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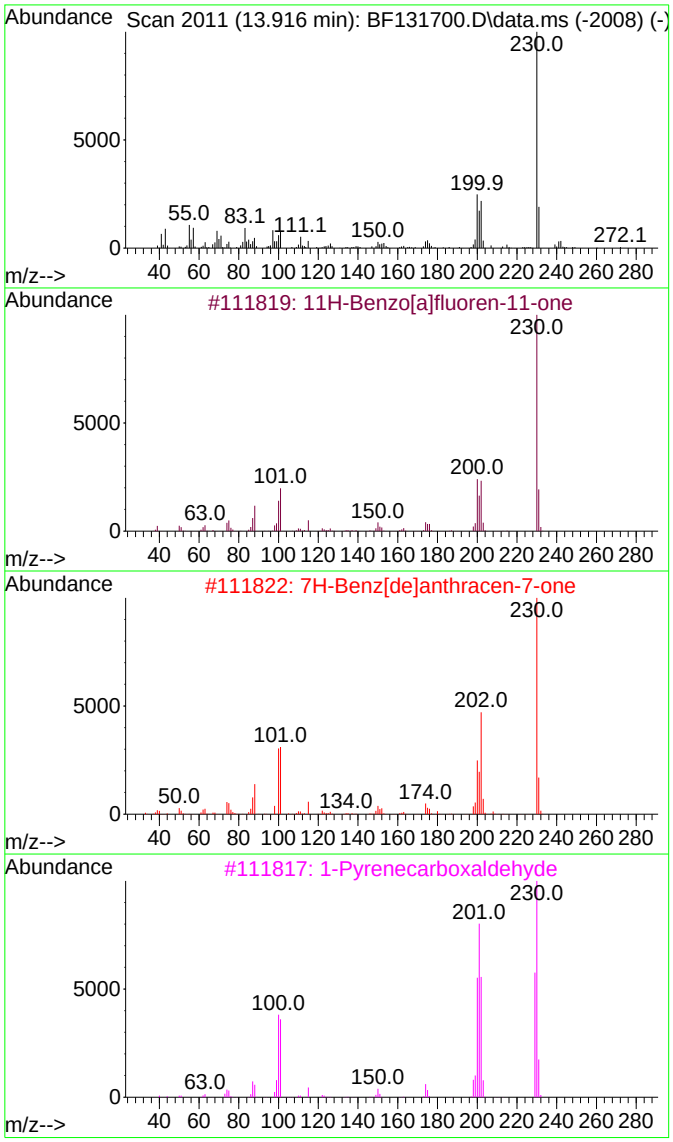
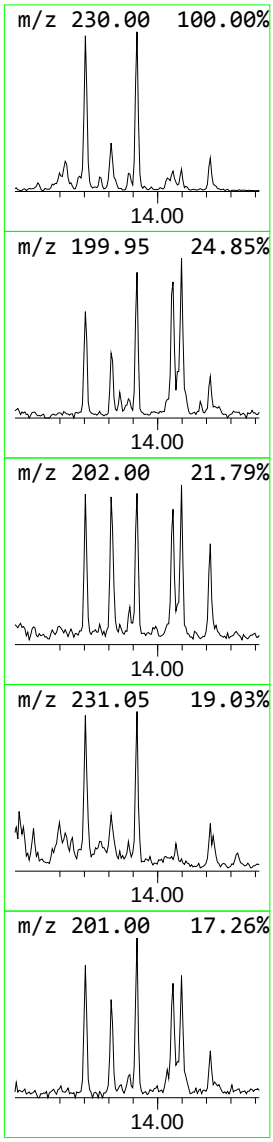
Peak Number 12 11H-Benzo[a]fluoren-11-one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.916	3.33 ng	213901	Chrysene-d12	14.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	95
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	56
4	4-Methoxy-2-(p-methoxyphenyl)-6-...	230	C13H14N2O2	063896-93-5	53
5	p-Terphenyl	230	C18H14	000092-94-4	50





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ALS Vial : 18 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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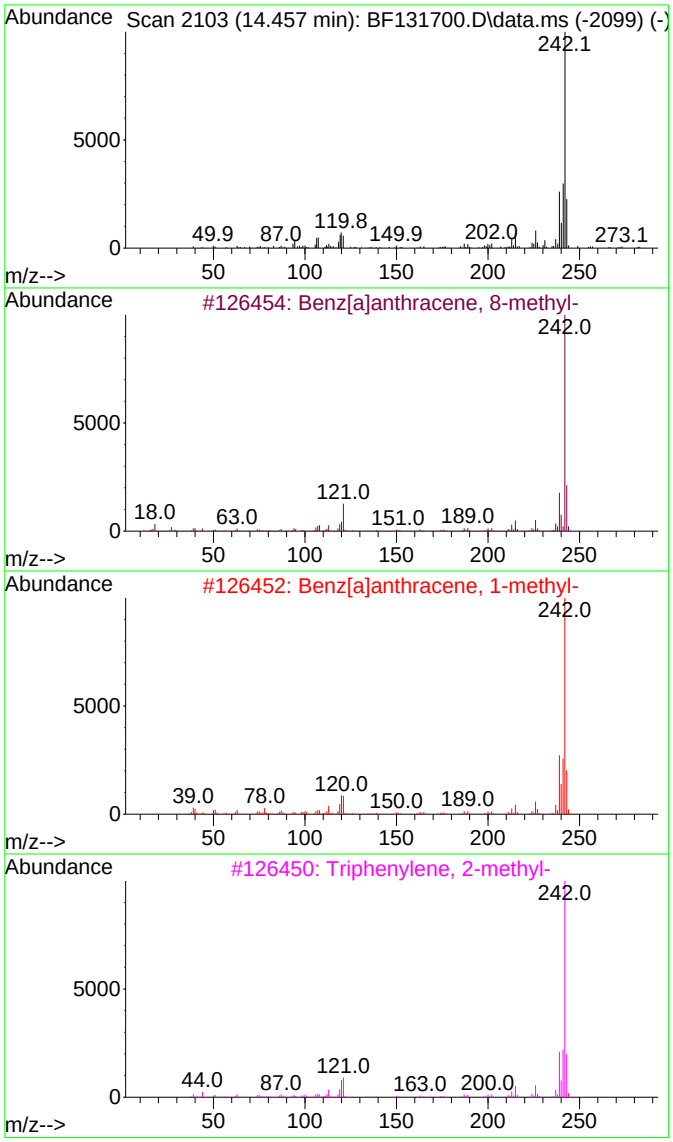
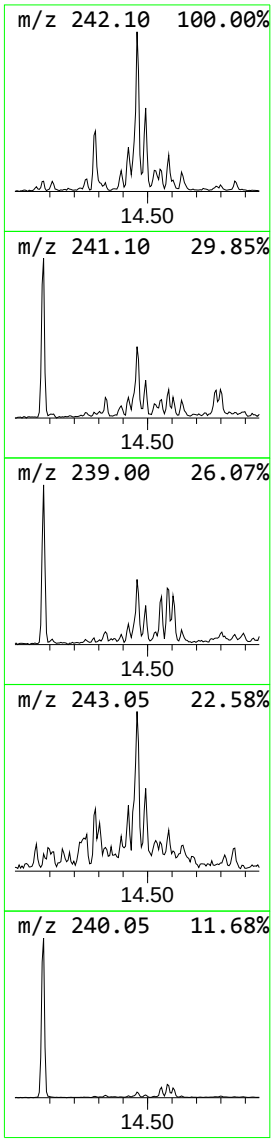
Peak Number 13 Benz[a]anthracene, 8-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.457	2.92 ng	187984	Chrysene-d12	14.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	92
2	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	92
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	90
4	Benz[a]anthracene, 2-methyl-	242	C19H14	002498-76-2	90
5	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	90





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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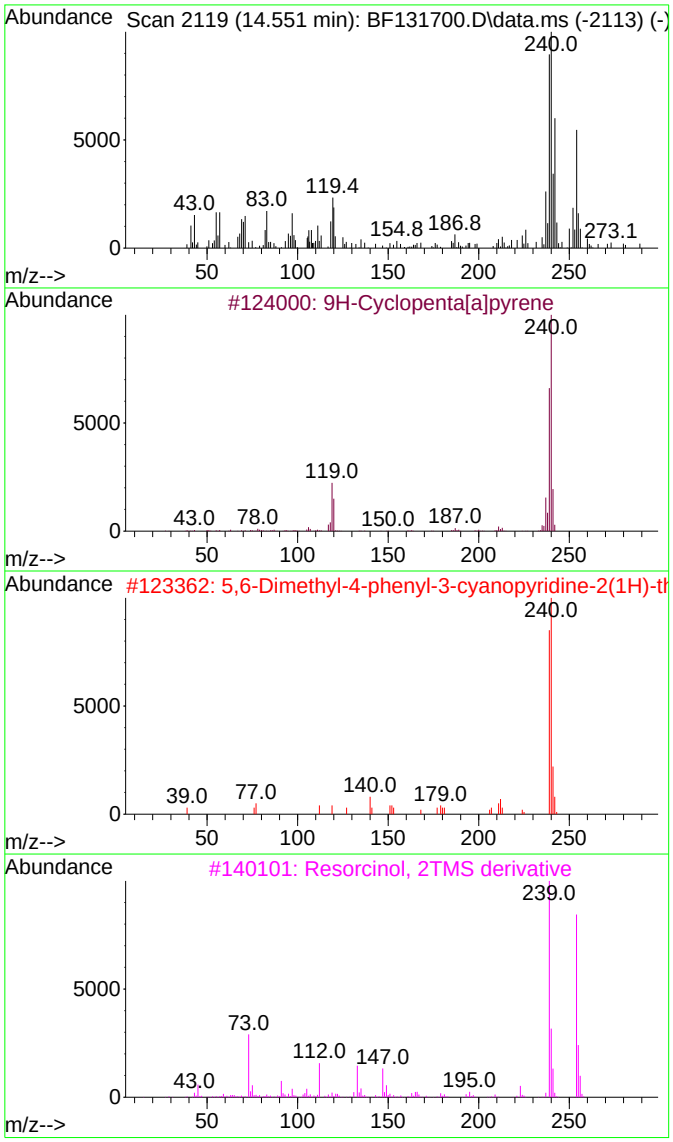
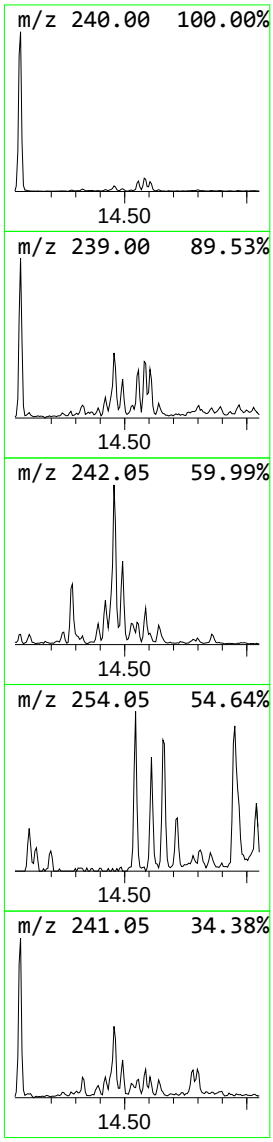
Peak Number 14 9H-Cyclopenta[a]pyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.551	2.81 ng	180746	Chrysene-d12	14.074

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Cyclopenta[a]pyrene	240	C19H12	050861-05-7	58
2	5,6-Dimethyl-4-phenyl-3-cyanopyr...	240	C14H12N2S	094639-18-6	43
3	Resorcinol, 2TMS derivative	254	C12H22O2Si2	004520-29-0	35
4	(2E)-1,3-Bis(3-hydroxyphenyl)-2-...	240	C15H12O3	142784-23-4	35
5	Hydroquinone, 2TMS derivative	254	C12H22O2Si2	002117-24-0	27





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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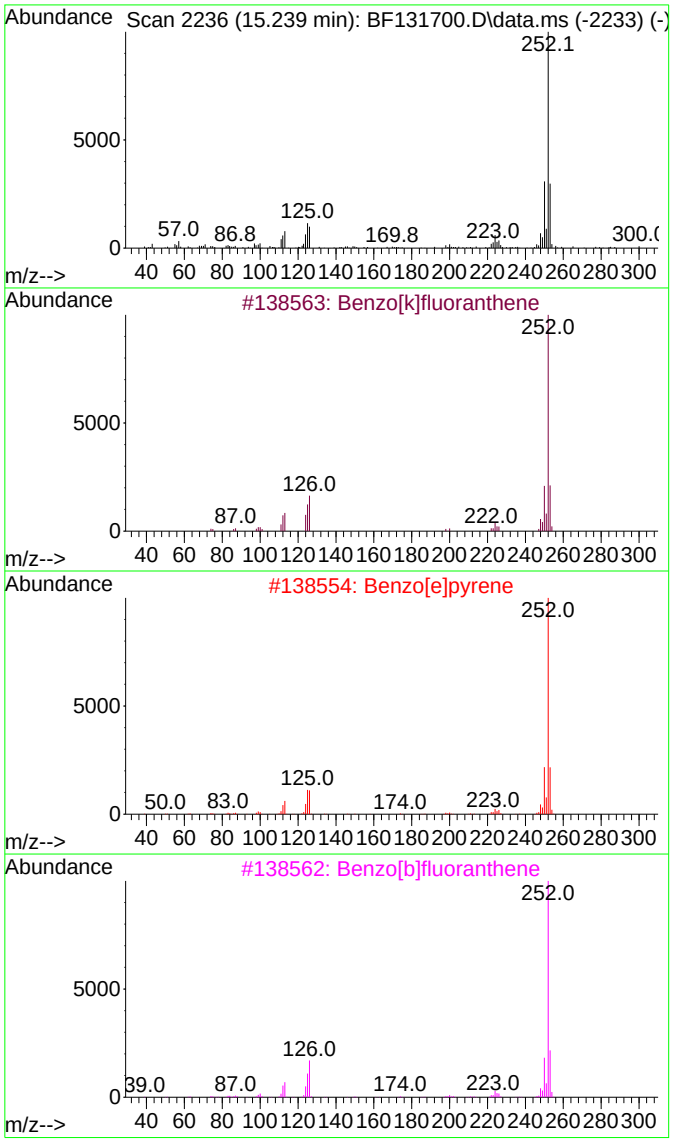
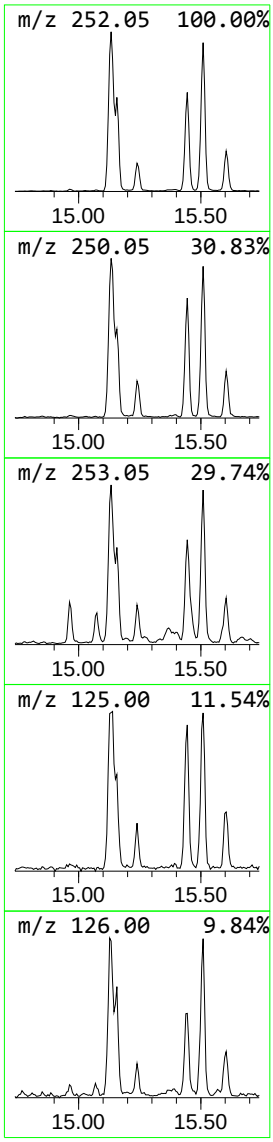
Peak Number 15 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.239	4.55 ng	116995	Perylene-d12	15.574

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	94
3	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	86





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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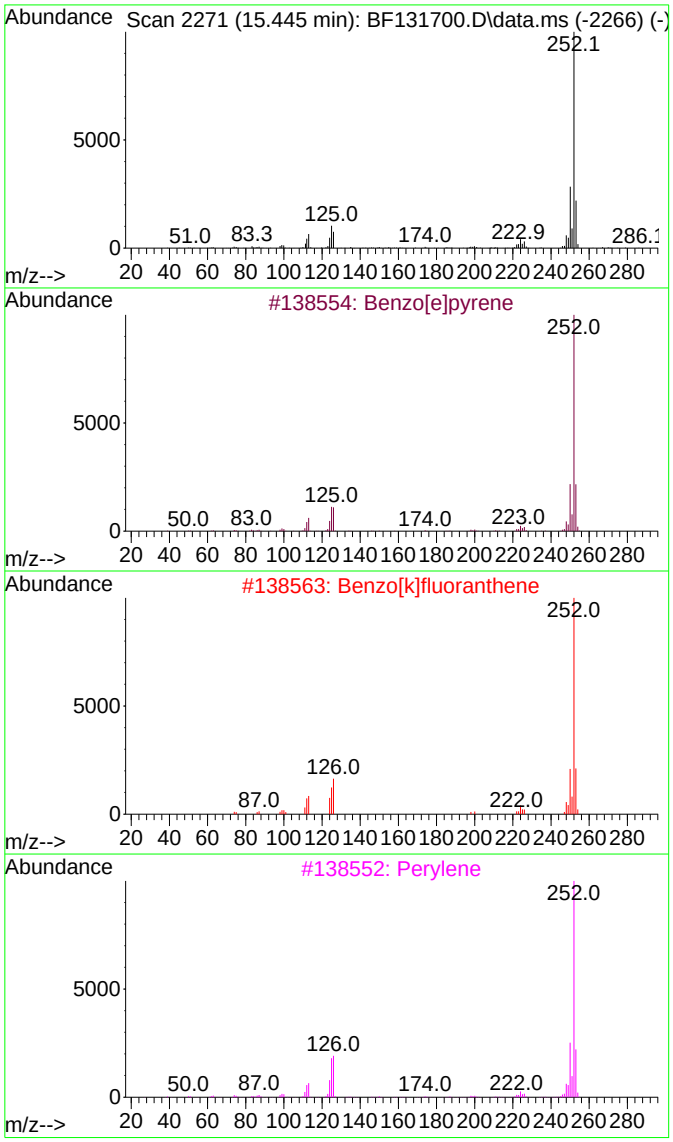
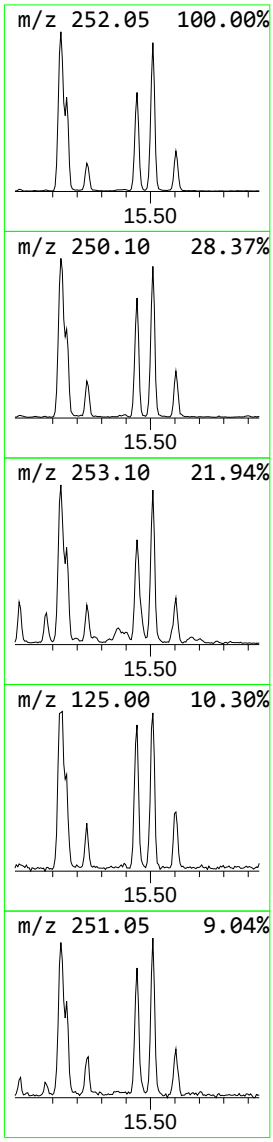
Peak Number 16 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.445	17.40 ng	447211	Perylene-d12	15.574

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Perylene	252	C20H12	000198-55-0	94
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





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Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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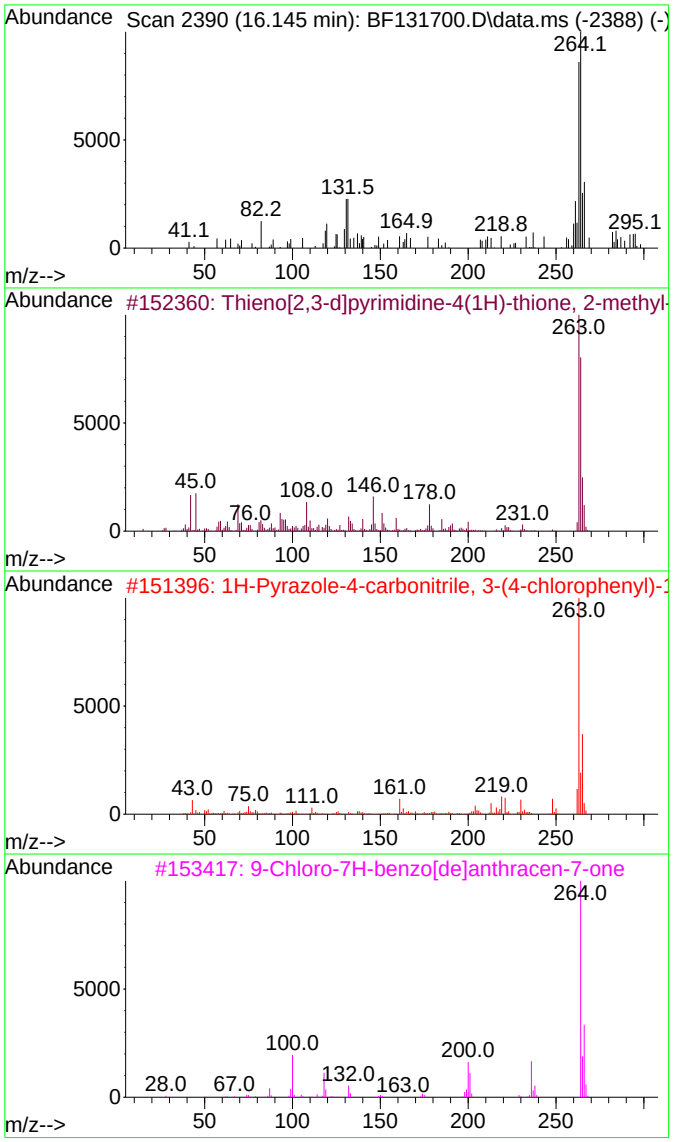
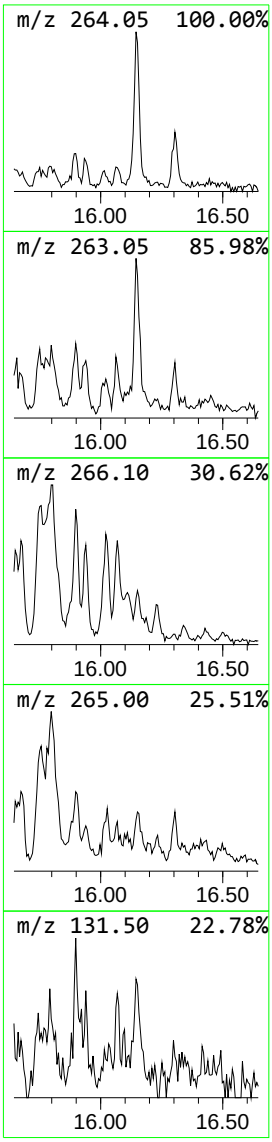
Peak Number 17 unknown16.145 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.145	2.70 ng	69440	Perylene-d12	15.574

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thieno[2,3-d]pyrimidine-4(1H)-th...	264	C11H8N2S3	732292-19-2	47
2	1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	30
3	9-Chloro-7H-benzo[de]anthracen-7...	264	C17H9ClO	024092-47-5	27
4	p-Terphenyl, 4-chloro-	264	C18H13Cl	001762-83-0	27
5	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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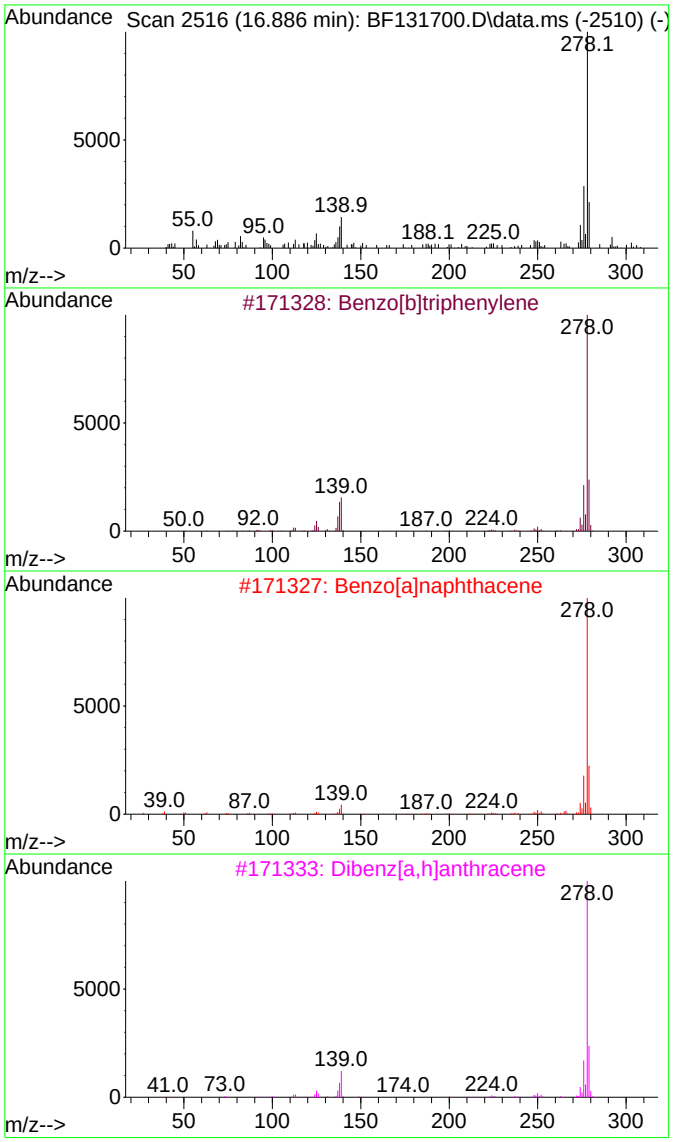
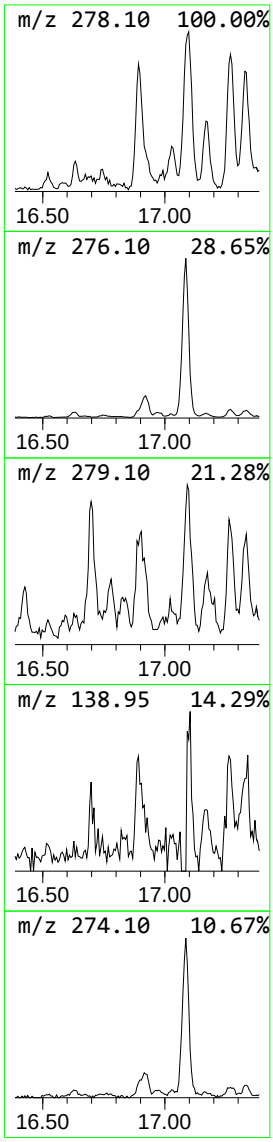
Peak Number 18 Benzo[b]triphenylene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.886	3.99 ng	102624	Perylene-d12	15.574

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
2	Benzo[a]naphthacene	278	C22H14	000226-88-0	87
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	76
4	Pentaphene	278	C22H14	000222-93-5	76
5	Benzo[b]chrysene	278	C22H14	000214-17-5	68





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Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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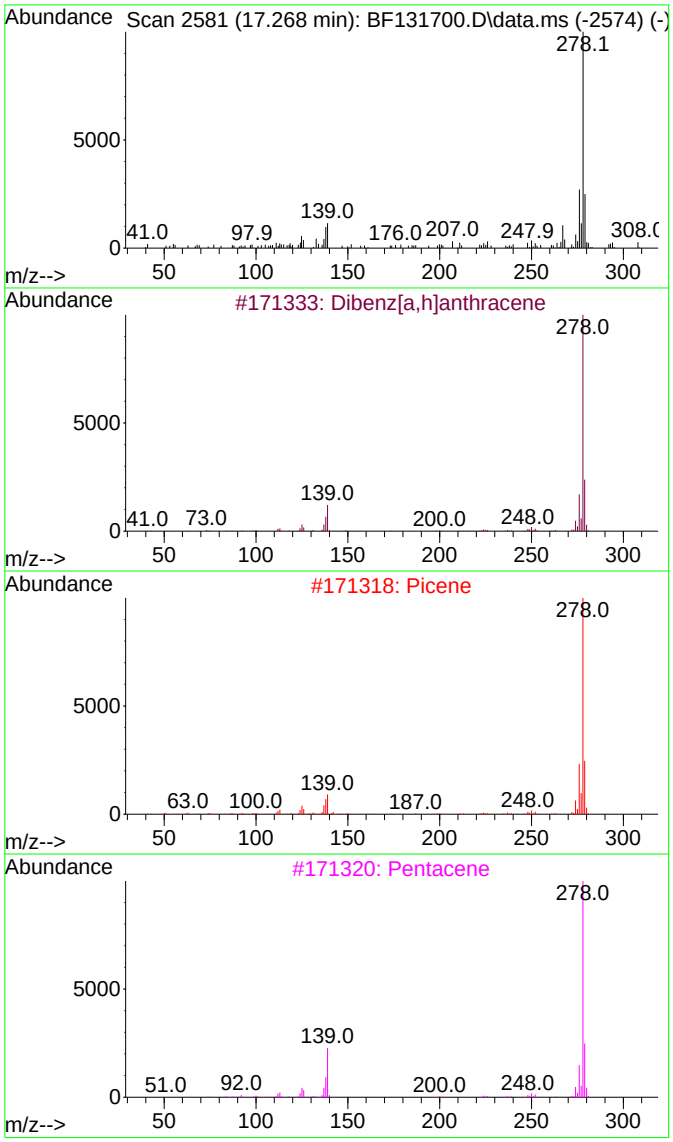
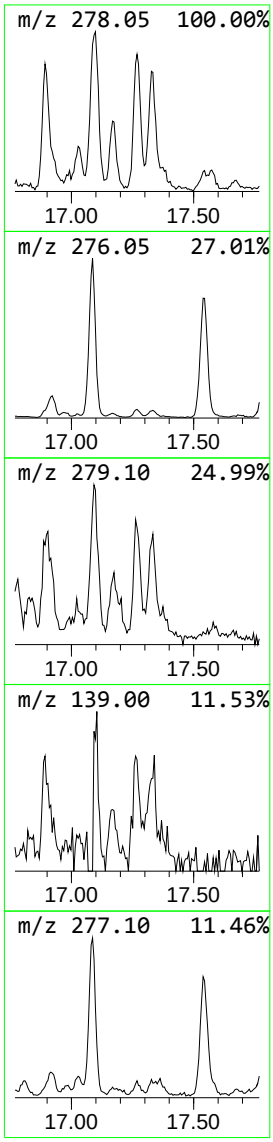
Peak Number 19 Picene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.268	4.15 ng	106740	Perylene-d12	15.574

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
2	Picene	278	C22H14	000213-46-7	95
3	Pentacene	278	C22H14	000135-48-8	95
4	Pentaphene	278	C22H14	000222-93-5	89
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	89





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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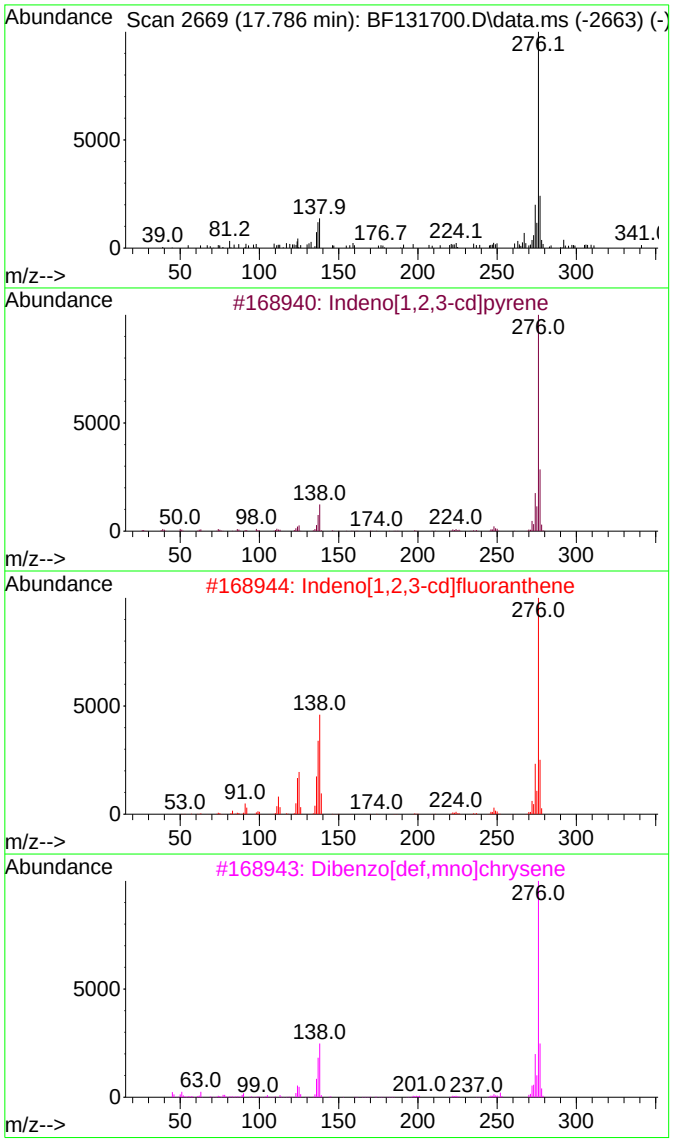
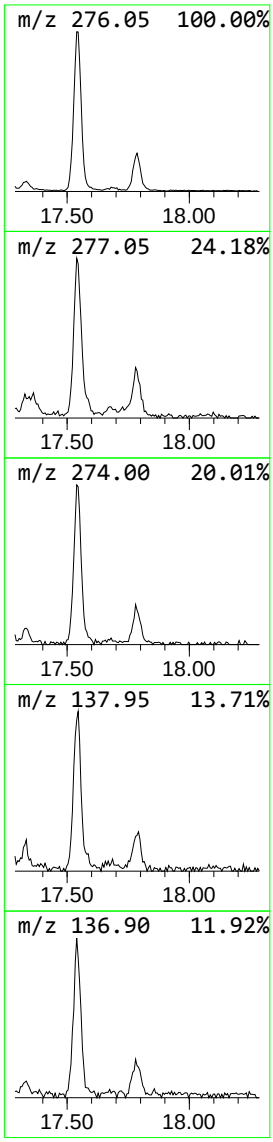
Peak Number 20 Indeno[1,2,3-cd]fluoranthene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.786	2.98 ng	76709	Perylene-d12	15.574

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	94
2	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	93
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	90
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	81
5	1H-Cyclopenta[4,5]pyrido[1,2-a]b...	276	C17H16N4	329707-31-5	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121922\
Data File : BF131700.D
Acq On : 19 Dec 2022 21:12
Operator : CG\JU
Sample : N6038-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-37-(0-2)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.116	13.7	ng	296017	1	6.875	431911	20.0
2-Pentanone, 4-...	5.075	9.4	ng	202314	1	6.875	431911	20.0
Anthracene, 2-m...	11.922	5.8	ng	137405	4	11.416	471626	20.0
Phenanthrene, 1...	11.951	7.5	ng	176651	4	11.416	471626	20.0
4H-Cyclopenta[d...	12.033	8.3	ng	196480	4	11.416	471626	20.0
Phenanthrene, 4...	12.057	3.0	ng	69767	4	11.416	471626	20.0
5,16[1',2']:8,1...	12.216	3.3	ng	78453	4	11.416	471626	20.0
9,10-Anthracene...	12.245	4.1	ng	96012	4	11.416	471626	20.0
Phenanthrene, 2...	12.474	4.1	ng	97033	4	11.416	471626	20.0
Cyclopenta(def)...	12.557	3.0	ng	70567	4	11.416	471626	20.0
Benzo[b]naphtho...	13.816	2.4	ng	156592	5	14.074	1286250	20.0
11H-Benzo[a]flu...	13.916	3.3	ng	213901	5	14.074	1286250	20.0
Benz[a]anthrace...	14.457	2.9	ng	187984	5	14.074	1286250	20.0
9H-Cyclopenta[a...	14.551	2.8	ng	180746	5	14.074	1286250	20.0
Benzo[e]pyrene	15.239	4.5	ng	116995	6	15.574	514122	20.0
Perylene	15.445	17.4	ng	447211	6	15.574	514122	20.0
unknown16.145	16.145	2.7	ng	69440	6	15.574	514122	20.0
Benzo[b]triphen...	16.886	4.0	ng	102624	6	15.574	514122	20.0
Picene	17.268	4.2	ng	106740	6	15.574	514122	20.0
Indeno[1,2,3-cd...	17.786	3.0	ng	76709	6	15.574	514122	20.0