

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD120718AR\
 Data File : FD026779.D
 Signal(s) : FID2B.CH
 Acq On : 08 Dec 2018 2:00
 Sample : J6233-03MSD
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 120718.M
 Title : GC Extractables

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.795	1.671	1.988	PV	57731914	2242674651	100.00%	95.291%
2	2.001	1.988	2.032	VV	1893	36846	0.00%	0.002%
3	2.042	2.032	2.086	VV	1489	23050	0.00%	0.001%
4	2.104	2.086	2.156	VV	2278	24162	0.00%	0.001%
5	2.163	2.156	2.232	VV	539	6361	0.00%	0.000%
6	2.257	2.232	2.299	PV	842	8937	0.00%	0.000%
7	2.315	2.299	2.342	VV	2212	21778	0.00%	0.001%
8	2.360	2.342	2.397	VV	4073	32707	0.00%	0.001%
9	2.409	2.397	2.467	PV	252	3379	0.00%	0.000%
10	2.476	2.467	2.516	VV	555	4736	0.00%	0.000%
11	2.533	2.516	2.601	PV	141723	1026718	0.05%	0.044%
12	2.621	2.601	2.697	PV	109814	1259006	0.06%	0.053%
13	2.724	2.697	2.758	VV	926	10168	0.00%	0.000%
14	2.766	2.758	2.788	VV	249	1734	0.00%	0.000%
15	2.798	2.788	2.826	PV	193	2015	0.00%	0.000%
16	2.843	2.826	2.936	VV	7257	62515	0.00%	0.003%
17	2.943	2.936	3.006	PV	89	1980	0.00%	0.000%
18	3.013	3.006	3.063	VV	152	2821	0.00%	0.000%
19	3.093	3.063	3.176	PV	36435	298015	0.01%	0.013%
20	3.186	3.176	3.229	VV	100	2814	0.00%	0.000%
21	3.240	3.229	3.306	VV	221	5829	0.00%	0.000%
22	3.311	3.306	3.353	VV	217	4135	0.00%	0.000%
23	3.362	3.353	3.376	PV	207	1995	0.00%	0.000%
24	3.389	3.376	3.457	VV	984	14737	0.00%	0.001%
25	3.474	3.457	3.519	VV	378	6988	0.00%	0.000%
26	3.524	3.519	3.582	VV	211	4316	0.00%	0.000%
27	3.586	3.582	3.605	VV	165	1989	0.00%	0.000%
28	3.619	3.605	3.644	VV	287	3243	0.00%	0.000%
29	3.658	3.644	3.734	PV	176	5196	0.00%	0.000%
30	3.755	3.734	3.801	VV	1287	13899	0.00%	0.001%
31	3.809	3.801	3.828	VV	82	1342	0.00%	0.000%
32	3.850	3.828	3.892	VV	256	5566	0.00%	0.000%
33	3.913	3.892	3.947	VV	2586	25559	0.00%	0.001%
34	3.959	3.947	3.989	VV	317	4805	0.00%	0.000%
35	4.077	3.989	4.124	VV	512	17858	0.00%	0.001%
36	4.155	4.124	4.167	VV	40911	352044	0.02%	0.015%

rteres.txt								
37	4.185	4.167	4.211	VV	434010	3676106	0.16%	0.156%
38	4.222	4.211	4.238	VV	2799	27636	0.00%	0.001%
39	4.253	4.238	4.275	VV	2513	32523	0.00%	0.001%
40	4.292	4.275	4.336	VV	5378	60340	0.00%	0.003%
41	4.355	4.336	4.373	VV	703	10040	0.00%	0.000%
42	4.381	4.373	4.446	VV	440	10563	0.00%	0.000%
43	4.449	4.446	4.478	VV	219	3036	0.00%	0.000%
44	4.495	4.478	4.566	VV	380	7895	0.00%	0.000%
45	4.578	4.566	4.589	VV	119	1084	0.00%	0.000%
46	4.597	4.589	4.623	VV	156	1529	0.00%	0.000%
47	4.631	4.623	4.668	PV	201	3317	0.00%	0.000%
48	4.675	4.668	4.697	VV	141	1295	0.00%	0.000%
49	4.705	4.697	4.722	VV	223	1625	0.00%	0.000%
50	4.729	4.722	4.767	VV	140	2690	0.00%	0.000%
51	4.785	4.767	4.816	PV	904	8769	0.00%	0.000%
52	4.841	4.816	4.869	PV	426	5808	0.00%	0.000%
53	4.876	4.869	4.885	VV	119	1097	0.00%	0.000%
54	4.893	4.885	4.936	VV	153	3621	0.00%	0.000%
55	4.951	4.936	4.961	VV	181	1884	0.00%	0.000%
56	4.975	4.961	4.992	VV	549	4317	0.00%	0.000%
57	5.008	4.992	5.049	VV	1028	12793	0.00%	0.001%
58	5.060	5.049	5.125	VV	207	3312	0.00%	0.000%
59	5.152	5.125	5.169	VV	211	2556	0.00%	0.000%
60	5.186	5.169	5.211	VV	664	8578	0.00%	0.000%
61	5.228	5.211	5.257	VV	531	7197	0.00%	0.000%
62	5.284	5.257	5.322	VV	305	4983	0.00%	0.000%
63	5.366	5.322	5.427	PV	366	9695	0.00%	0.000%
64	5.434	5.427	5.461	VV	120	2002	0.00%	0.000%
65	5.496	5.461	5.531	VV	217	5536	0.00%	0.000%
66	5.538	5.531	5.566	VV	204	3346	0.00%	0.000%
67	5.575	5.566	5.583	VV	228	1672	0.00%	0.000%
68	5.607	5.583	5.622	VV	307	5553	0.00%	0.000%
69	5.638	5.622	5.660	VV	363	6510	0.00%	0.000%
70	5.714	5.660	5.754	VV	476806	4155620	0.19%	0.177%
71	5.762	5.754	5.786	VV	1217	16028	0.00%	0.001%
72	5.799	5.786	5.812	VV	618	9195	0.00%	0.000%
73	5.825	5.812	5.858	VV	667	15186	0.00%	0.001%
74	5.897	5.858	5.986	VV	1439	42090	0.00%	0.002%
75	6.010	5.986	6.032	VV	410	6564	0.00%	0.000%
76	6.055	6.032	6.110	VV	233	6362	0.00%	0.000%
77	6.164	6.110	6.235	VV	40970	388215	0.02%	0.016%
78	6.245	6.235	6.302	VV	143	3021	0.00%	0.000%
79	6.342	6.330	6.399	VV	163	3802	0.00%	0.000%
80	6.431	6.416	6.454	VV	188	1967	0.00%	0.000%
81	6.464	6.454	6.512	PV	178	2726	0.00%	0.000%
82	6.529	6.512	6.564	VV	323	5315	0.00%	0.000%
83	6.586	6.564	6.610	VV	184	3832	0.00%	0.000%
84	6.634	6.610	6.645	VV	248	4007	0.00%	0.000%
85	6.673	6.645	6.697	VV	2667	29310	0.00%	0.001%
86	6.709	6.697	6.731	VV	375	6718	0.00%	0.000%
87	6.766	6.731	6.797	VV	461519	4296427	0.19%	0.183%
88	6.812	6.797	6.874	VV	1219	28469	0.00%	0.001%
89	6.898	6.874	6.925	VV	3543	38697	0.00%	0.002%

					rteres.txt			
90	6.945	6.925	6.954	VV	664	8314	0.00%	0.000%
91	6.963	6.954	7.028	VV	752	16040	0.00%	0.001%
92	7.051	7.028	7.067	VV	1006	12606	0.00%	0.001%
93	7.081	7.067	7.122	VV	571	9360	0.00%	0.000%
94	7.148	7.122	7.207	VV	517	9195	0.00%	0.000%
95	7.225	7.207	7.274	PV	470	8221	0.00%	0.000%
96	7.301	7.274	7.317	PV	362	5570	0.00%	0.000%
97	7.380	7.317	7.431	VV	422625	3941744	0.18%	0.167%
98	7.506	7.431	7.619	VV	2076	88864	0.00%	0.004%
99	7.652	7.619	7.664	VV	216	3716	0.00%	0.000%
100	7.702	7.664	7.724	VV	328	6081	0.00%	0.000%
101	7.735	7.724	7.749	VV	242	2105	0.00%	0.000%
102	7.757	7.749	7.778	VV	210	2372	0.00%	0.000%
103	7.788	7.778	7.797	VV	150	1290	0.00%	0.000%
104	7.845	7.797	7.876	VV	518	13200	0.00%	0.001%
105	7.950	7.876	7.979	VV	38520	395937	0.02%	0.017%
106	8.035	7.979	8.073	VV	442424	4235600	0.19%	0.180%
107	8.098	8.073	8.173	VV	659	17851	0.00%	0.001%
108	8.189	8.173	8.201	VV	213	1669	0.00%	0.000%
109	8.231	8.201	8.277	VV	279041	2688257	0.12%	0.114%
110	8.331	8.277	8.419	VV	458231	4403659	0.20%	0.187%
111	8.446	8.419	8.491	VV	1646	24773	0.00%	0.001%
112	8.502	8.491	8.511	VV	212	1819	0.00%	0.000%
113	8.530	8.511	8.552	VV	754	8365	0.00%	0.000%
114	8.572	8.552	8.584	VV	251	3244	0.00%	0.000%
115	8.601	8.584	8.634	VV	682	8805	0.00%	0.000%
116	8.671	8.634	8.712	VV	1207	22159	0.00%	0.001%
117	8.768	8.712	8.808	VV	368	12278	0.00%	0.001%
118	8.827	8.808	8.879	VV	234	6023	0.00%	0.000%
119	8.892	8.879	8.911	VV	205	2680	0.00%	0.000%
120	8.963	8.911	9.035	VV	2580	49773	0.00%	0.002%
121	9.059	9.035	9.070	VV	330	3330	0.00%	0.000%
122	9.109	9.070	9.181	VV	448182	4392099	0.20%	0.187%
123	9.196	9.181	9.236	VV	420	8086	0.00%	0.000%
124	9.261	9.236	9.296	VV	584	10457	0.00%	0.000%
125	9.318	9.296	9.351	VV	5420	58131	0.00%	0.002%
126	9.368	9.351	9.402	VV	307	6305	0.00%	0.000%
127	9.429	9.402	9.441	VV	532	7912	0.00%	0.000%
128	9.466	9.441	9.511	VV	1271	25267	0.00%	0.001%
129	9.542	9.511	9.576	VV	36458	395308	0.02%	0.017%
130	9.583	9.576	9.613	VV	173	2955	0.00%	0.000%
131	9.630	9.613	9.667	VV	304	4056	0.00%	0.000%
132	9.712	9.687	9.767	PV	188	3573	0.00%	0.000%
133	9.790	9.767	9.844	VV	1431	16303	0.00%	0.001%
134	9.879	9.844	9.909	VV	274	5366	0.00%	0.000%
135	9.925	9.909	9.939	VV	278	3362	0.00%	0.000%
136	9.955	9.939	10.004	VV	326	4958	0.00%	0.000%
137	10.022	10.004	10.058	PV	114	2149	0.00%	0.000%
138	10.082	10.058	10.098	VV	307	4488	0.00%	0.000%
139	10.116	10.098	10.133	VV	349	5052	0.00%	0.000%
140	10.151	10.133	10.173	VV	583	7760	0.00%	0.000%
141	10.227	10.173	10.246	VV	1591	31816	0.00%	0.001%

					rteres.txt				
142	10.285	10.246	10.318	VV	8782	119364	0.01%	0.005%	
143	10.358	10.318	10.435	VV	720	23969	0.00%	0.001%	
144	10.499	10.435	10.536	VV	437987	4551626	0.20%	0.193%	
145	10.574	10.536	10.632	VV	443085	4547071	0.20%	0.193%	
146	10.649	10.632	10.698	VV	683	19838	0.00%	0.001%	
147	10.712	10.698	10.742	VV	479	8736	0.00%	0.000%	
148	10.792	10.742	10.825	VV	1291	23181	0.00%	0.001%	
149	10.835	10.825	10.875	VV	379	7291	0.00%	0.000%	
150	10.907	10.875	10.922	VV	925	12713	0.00%	0.001%	
151	10.940	10.922	10.950	VV	1480	17078	0.00%	0.001%	
152	10.976	10.950	11.007	VV	34345	394040	0.02%	0.017%	
153	11.024	11.007	11.035	VV	505	5871	0.00%	0.000%	
154	11.053	11.035	11.098	VV	826	14550	0.00%	0.001%	
155	11.118	11.098	11.149	VV	138	3375	0.00%	0.000%	
156	11.163	11.149	11.195	VV	147	1946	0.00%	0.000%	
157	11.275	11.241	11.315	VV	375459	4030704	0.18%	0.171%	
158	11.327	11.315	11.344	VV	234	3452	0.00%	0.000%	
159	11.395	11.344	11.433	VV	1399	28213	0.00%	0.001%	
160	11.441	11.433	11.458	VV	405	4373	0.00%	0.000%	
161	11.475	11.458	11.491	VV	157	2558	0.00%	0.000%	
162	11.516	11.491	11.592	VV	385	9564	0.00%	0.000%	
163	11.623	11.592	11.669	PV	871	16942	0.00%	0.001%	
164	11.694	11.669	11.716	VV	1568	20294	0.00%	0.001%	
165	11.732	11.716	11.759	VV	502	8181	0.00%	0.000%	
166	11.795	11.759	11.818	VV	252	6879	0.00%	0.000%	
167	11.841	11.818	11.857	VV	281	4406	0.00%	0.000%	
168	11.892	11.857	12.018	VV	922	37031	0.00%	0.002%	
169	12.026	12.018	12.035	VV	234	2090	0.00%	0.000%	
170	12.041	12.035	12.054	VV	253	2419	0.00%	0.000%	
171	12.078	12.054	12.102	VV	1571	20159	0.00%	0.001%	
172	12.132	12.102	12.155	VV	283	7287	0.00%	0.000%	
173	12.190	12.155	12.200	VV	326	6628	0.00%	0.000%	
174	12.235	12.200	12.251	VV	1012	20505	0.00%	0.001%	
175	12.304	12.251	12.382	VV	401555	5075485	0.23%	0.216%	
176	12.411	12.382	12.458	VV	1071	21347	0.00%	0.001%	
177	12.483	12.458	12.520	VV	3699	43313	0.00%	0.002%	
178	12.535	12.520	12.557	VV	381	5817	0.00%	0.000%	
179	12.599	12.557	12.630	VV	417348	4636515	0.21%	0.197%	
180	12.653	12.630	12.681	VV	6988	82566	0.00%	0.004%	
181	12.717	12.681	12.745	VV	60061	763037	0.03%	0.032%	
182	12.760	12.745	12.781	VV	2112	26178	0.00%	0.001%	
183	12.795	12.781	12.849	VV	726	17042	0.00%	0.001%	
184	12.888	12.849	12.919	VV	30980	381186	0.02%	0.016%	
185	12.940	12.919	12.963	VV	1066	15973	0.00%	0.001%	
186	12.983	12.963	12.995	VV	200	3728	0.00%	0.000%	
187	12.999	12.995	13.015	VV	214	1729	0.00%	0.000%	
188	13.043	13.015	13.054	VV	216	3905	0.00%	0.000%	
189	13.075	13.054	13.100	VV	271	5815	0.00%	0.000%	
190	13.133	13.100	13.170	VV	612	17650	0.00%	0.001%	
191	13.184	13.170	13.214	VV	318	6172	0.00%	0.000%	
192	13.239	13.214	13.263	VV	258	5173	0.00%	0.000%	
193	13.291	13.263	13.318	VV	855	14963	0.00%	0.001%	
194	13.346	13.318	13.393	VV	1021	19897	0.00%	0.001%	

					rteres.txt			
195	13.421	13.393	13.440	VV	710	11707	0.00%	0.000%
196	13.472	13.440	13.521	VV	30529	380856	0.02%	0.016%
197	13.545	13.521	13.611	VV	183	7189	0.00%	0.000%
198	13.694	13.611	13.712	PV	286	7933	0.00%	0.000%
199	13.740	13.712	13.804	VV	353	13532	0.00%	0.001%
200	13.869	13.804	13.893	VV	8256	107229	0.00%	0.005%
201	13.904	13.893	13.936	VV	870	11444	0.00%	0.000%
202	13.966	13.936	13.997	VV	334	6407	0.00%	0.000%
203	14.029	13.997	14.064	VV	237	5977	0.00%	0.000%
204	14.088	14.064	14.154	VV	1047	15946	0.00%	0.001%
205	14.200	14.171	14.307	PV	1090	22047	0.00%	0.001%
206	14.337	14.307	14.373	VV	297	5346	0.00%	0.000%
207	14.407	14.373	14.426	PV	650	8590	0.00%	0.000%
208	14.469	14.426	14.489	VV	364329	4720577	0.21%	0.201%
209	14.513	14.489	14.541	VV	427130	4720832	0.21%	0.201%
210	14.569	14.541	14.618	VV	29747	387294	0.02%	0.016%
211	14.639	14.618	14.670	VV	2048	30981	0.00%	0.001%
212	14.685	14.670	14.693	VV	287	3396	0.00%	0.000%
213	14.722	14.693	14.747	VV	434	10507	0.00%	0.000%
214	14.767	14.747	14.831	VV	392	9303	0.00%	0.000%
215	14.854	14.831	14.869	VV	145	1923	0.00%	0.000%
216	14.896	14.869	14.929	VV	211	4005	0.00%	0.000%
217	14.991	14.929	15.068	VV	1285	35784	0.00%	0.002%
218	15.097	15.068	15.119	VV	875	13614	0.00%	0.001%
219	15.135	15.119	15.192	VV	251	5932	0.00%	0.000%
220	15.229	15.192	15.267	VV	88	2738	0.00%	0.000%
221	15.304	15.267	15.355	PV	936	13486	0.00%	0.001%
222	15.390	15.355	15.451	VV	376	13847	0.00%	0.001%
223	15.468	15.451	15.491	VV	354	7300	0.00%	0.000%
224	15.508	15.491	15.531	VV	347	6983	0.00%	0.000%
225	15.587	15.531	15.625	VV	29374	380615	0.02%	0.016%
226	15.658	15.625	15.680	VV	401	9981	0.00%	0.000%
227	15.696	15.680	15.704	VV	318	3897	0.00%	0.000%
228	15.737	15.704	15.773	VV	1703	33522	0.00%	0.001%
229	15.783	15.773	15.824	VV	410	9376	0.00%	0.000%
230	15.841	15.824	15.858	VV	289	4484	0.00%	0.000%
231	15.862	15.858	15.874	VV	250	1709	0.00%	0.000%
232	16.016	15.874	16.032	VV	338399	4945206	0.22%	0.210%
233	16.052	16.032	16.107	VV	418286	4794762	0.21%	0.204%
234	16.139	16.107	16.171	VV	1258	21034	0.00%	0.001%
235	16.202	16.171	16.232	VV	320	7463	0.00%	0.000%
236	16.259	16.232	16.295	VV	153	2811	0.00%	0.000%
237	16.316	16.295	16.345	VV	151	1970	0.00%	0.000%
238	16.392	16.345	16.420	PV	358437	4783230	0.21%	0.203%
239	16.435	16.420	16.470	VV	1861	29773	0.00%	0.001%
240	16.529	16.470	16.559	VV	28297	392581	0.02%	0.017%
241	16.573	16.559	16.621	VV	2810	37037	0.00%	0.002%
242	16.655	16.621	16.671	PV	169	3584	0.00%	0.000%
243	16.683	16.671	16.701	VV	135	1602	0.00%	0.000%
244	16.767	16.722	16.795	VV	308	8716	0.00%	0.000%
245	16.834	16.795	16.856	VV	578	13720	0.00%	0.001%
246	16.911	16.856	16.924	VV	648	19583	0.00%	0.001%

					rteres.txt				
247	16.979	16.924	17.025	VV	1646	45712	0.00%	0.002%	
248	17.091	17.025	17.131	VV	2055	50157	0.00%	0.002%	
249	17.139	17.131	17.147	VV	373	3133	0.00%	0.000%	
250	17.188	17.147	17.248	VV	1500	29254	0.00%	0.001%	
251	17.283	17.248	17.341	VV	299	8737	0.00%	0.000%	
252	17.415	17.341	17.449	PV	29003	397600	0.02%	0.017%	
253	17.501	17.449	17.533	VV	953	23156	0.00%	0.001%	
254	17.564	17.533	17.590	VV	440	13324	0.00%	0.001%	
255	17.623	17.590	17.651	VV	616	18067	0.00%	0.001%	
256	17.756	17.651	17.773	VV	326993	5006370	0.22%	0.213%	
257	17.798	17.773	17.889	VV	363778	4901631	0.22%	0.208%	
258	17.915	17.889	17.944	VV	1077	23791	0.00%	0.001%	
259	18.012	17.944	18.054	VV	349761	4979158	0.22%	0.212%	
260	18.073	18.054	18.084	VV	157	1471	0.00%	0.000%	
261	18.122	18.084	18.138	VV	228	4809	0.00%	0.000%	
262	18.155	18.138	18.165	VV	220	2569	0.00%	0.000%	
263	18.241	18.165	18.313	VV	29344	472432	0.02%	0.020%	
264	18.336	18.313	18.371	VV	1726	45068	0.00%	0.002%	
265	18.390	18.371	18.405	VV	1199	23314	0.00%	0.001%	
266	18.411	18.405	18.442	VV	1192	22070	0.00%	0.001%	
267	18.470	18.442	18.489	VV	1231	25918	0.00%	0.001%	
268	18.503	18.489	18.547	VV	734	19908	0.00%	0.001%	
269	18.561	18.547	18.580	VV	457	6701	0.00%	0.000%	
270	18.638	18.580	18.664	VV	1378	34712	0.00%	0.001%	
271	18.687	18.664	18.707	VV	1012	19537	0.00%	0.001%	
272	18.727	18.707	18.744	VV	782	14042	0.00%	0.001%	
273	18.819	18.744	18.858	VV	3545	110466	0.00%	0.005%	
274	18.864	18.858	18.874	VV	1653	15256	0.00%	0.001%	
275	18.887	18.874	18.908	VV	1581	29117	0.00%	0.001%	
276	18.924	18.908	18.968	VV	1331	40039	0.00%	0.002%	
277	19.021	18.968	19.099	VV	27798	441060	0.02%	0.019%	
278	19.163	19.099	19.178	PV	380	11560	0.00%	0.000%	
279	19.335	19.178	19.366	VV	4051	146952	0.01%	0.006%	
280	19.393	19.366	19.461	VV	2496	96027	0.00%	0.004%	
281	19.495	19.461	19.508	VV	1328	32067	0.00%	0.001%	
282	19.656	19.508	19.718	VV	5112	334033	0.01%	0.014%	
283	19.758	19.718	19.789	VV	25977	450197	0.02%	0.019%	
284	19.821	19.789	19.865	VV	5201	151939	0.01%	0.006%	
285	19.897	19.865	19.924	VV	4219	114576	0.01%	0.005%	
286	20.030	19.924	20.057	VV	5085	350904	0.02%	0.015%	
287	20.069	20.057	20.085	VV	4999	81883	0.00%	0.003%	
288	20.107	20.085	20.178	VV	4950	213818	0.01%	0.009%	
289	20.284	20.178	20.333	VV	8103	470920	0.02%	0.020%	
290	20.409	20.333	20.419	VV	5782	277161	0.01%	0.012%	
291	20.456	20.419	20.494	VV	25105	516891	0.02%	0.022%	
292	20.596	20.494	20.611	VV	7233	392924	0.02%	0.017%	
293	20.643	20.611	20.712	VV	7411	398902	0.02%	0.017%	
294	20.757	20.712	20.854	VV	7406	447311	0.02%	0.019%	
295	20.922	20.854	20.931	VV	4678	173099	0.01%	0.007%	
296	20.941	20.931	21.015	VV	4287	192065	0.01%	0.008%	
297	21.026	21.015	21.058	VV	3622	86992	0.00%	0.004%	
298	21.074	21.058	21.091	VV	3066	59606	0.00%	0.003%	
299	21.106	21.091	21.205	VV	3082	120184	0.01%	0.005%	

					rteres.txt			
300	21.248	21.205	21.285	PV	14933	297032	0.01%	0.013%
301	21.309	21.285	21.363	VV	2085	47768	0.00%	0.002%
					Sum of corrected areas: 2353509237			

Aromatic EPH 120718.M Mon Dec 10 09:01:27 2018