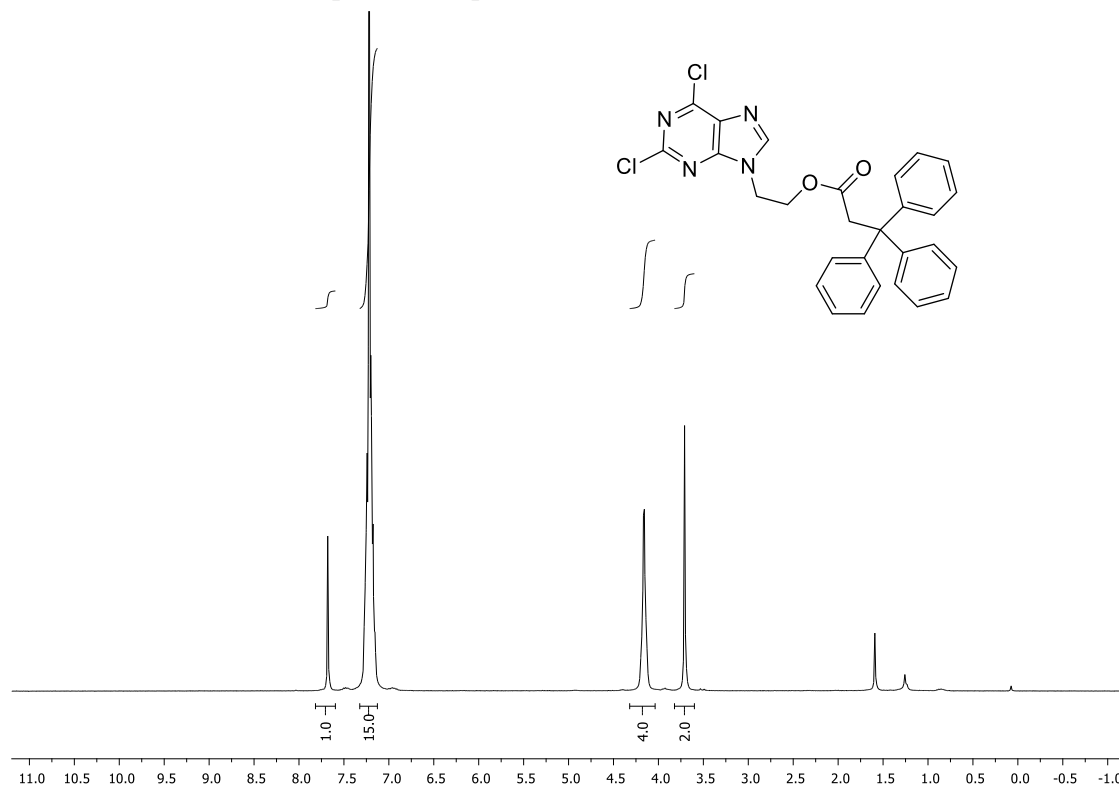


Supplementary Materials

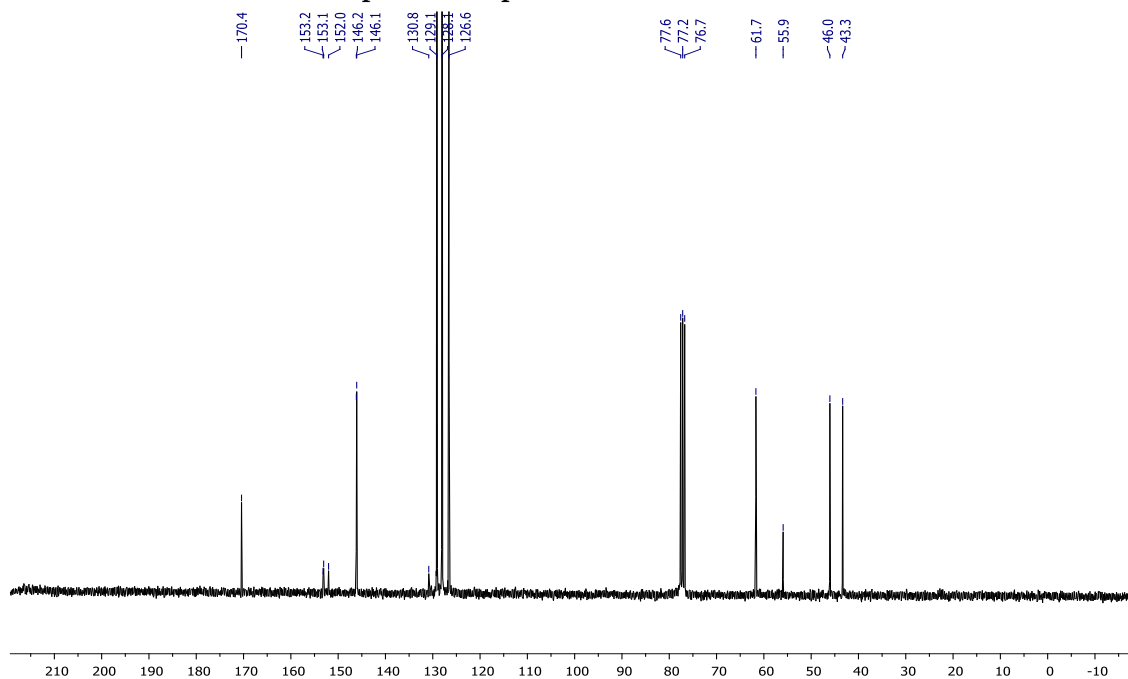
Purine-furan and purine-thiophene conjugates

Zigfrīds Kapilinskis, Irina Novosjolova * and Māris Turks

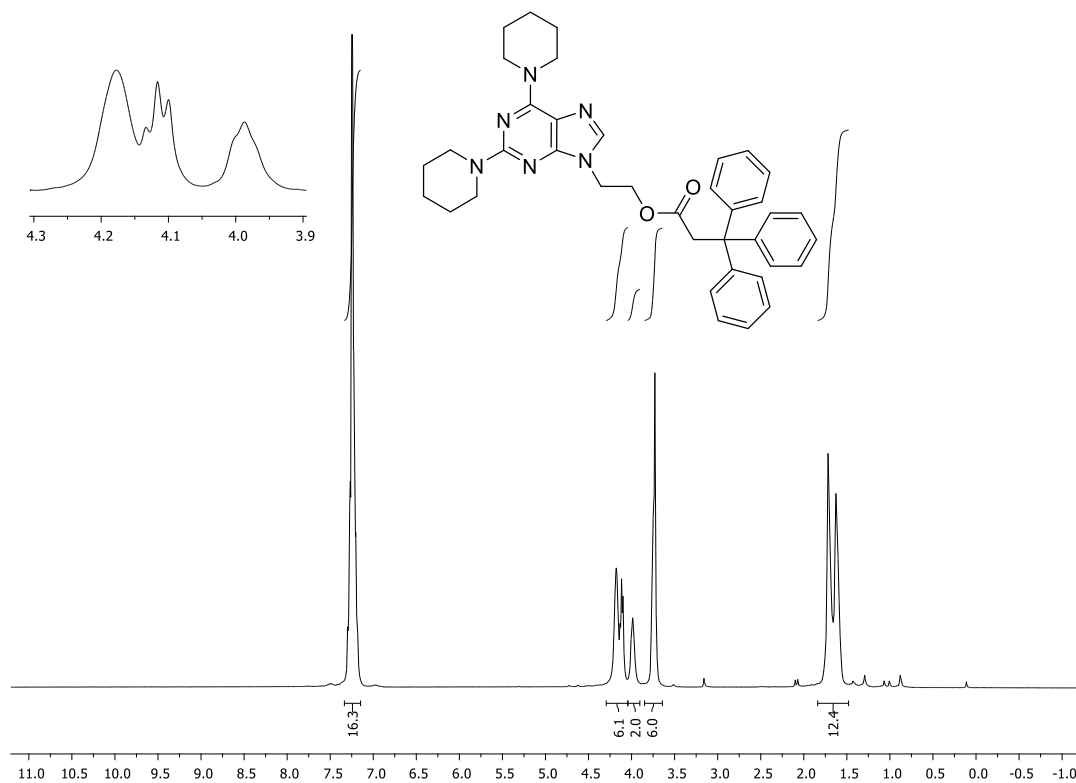
^1H -NMR (300 MHz, CDCl_3) spectrum of product 3:



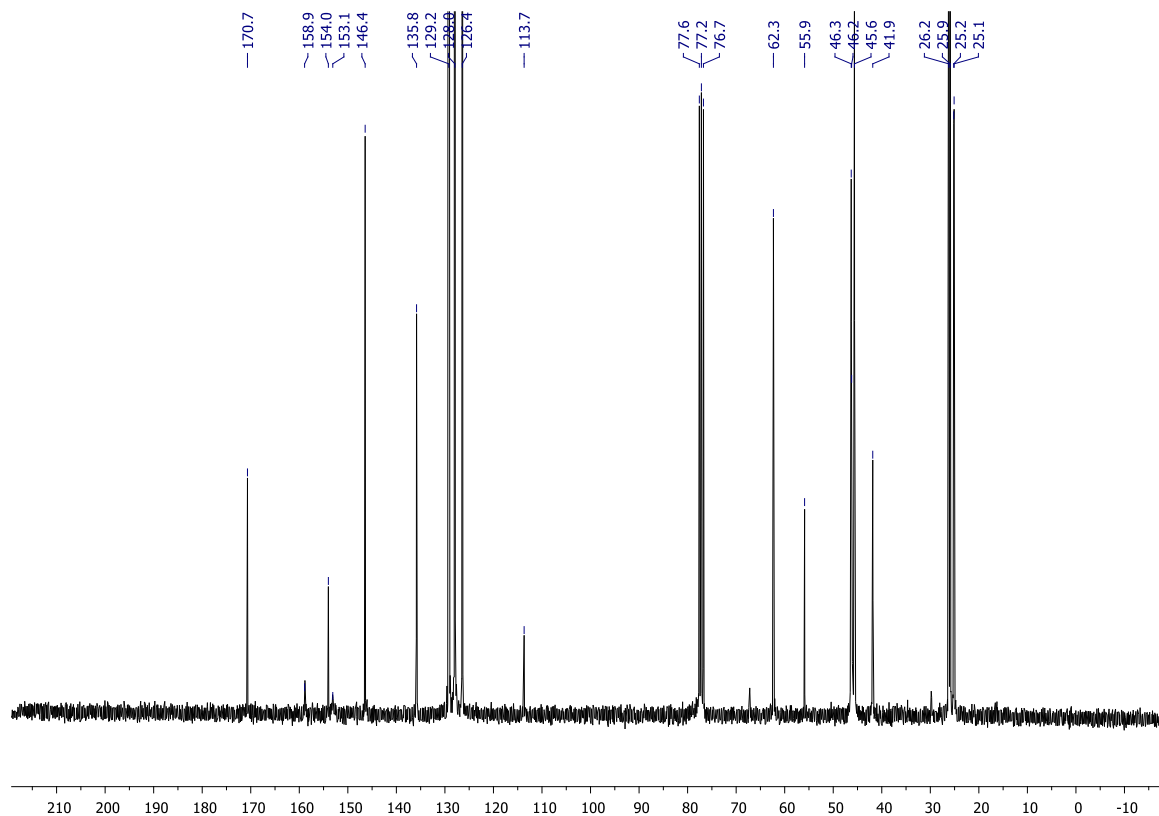
^{13}C -NMR (75.5 MHz, CDCl_3) spectrum of product 3:



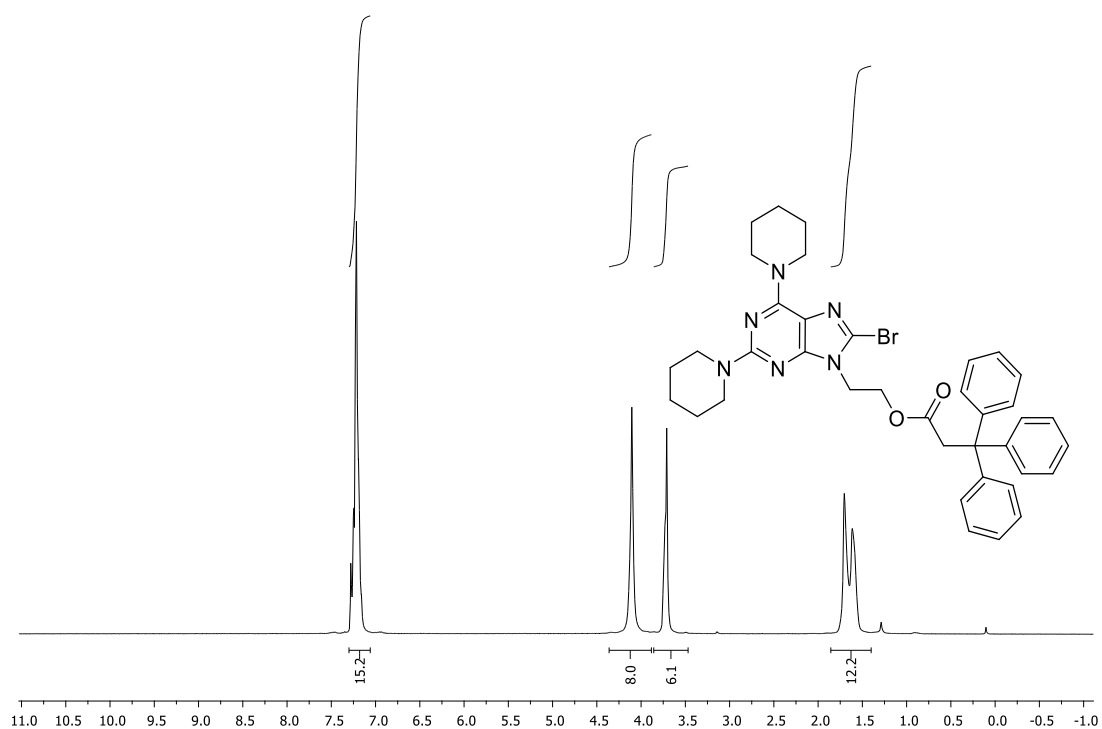
^1H -NMR (300 MHz, CDCl_3) spectrum of product 4:



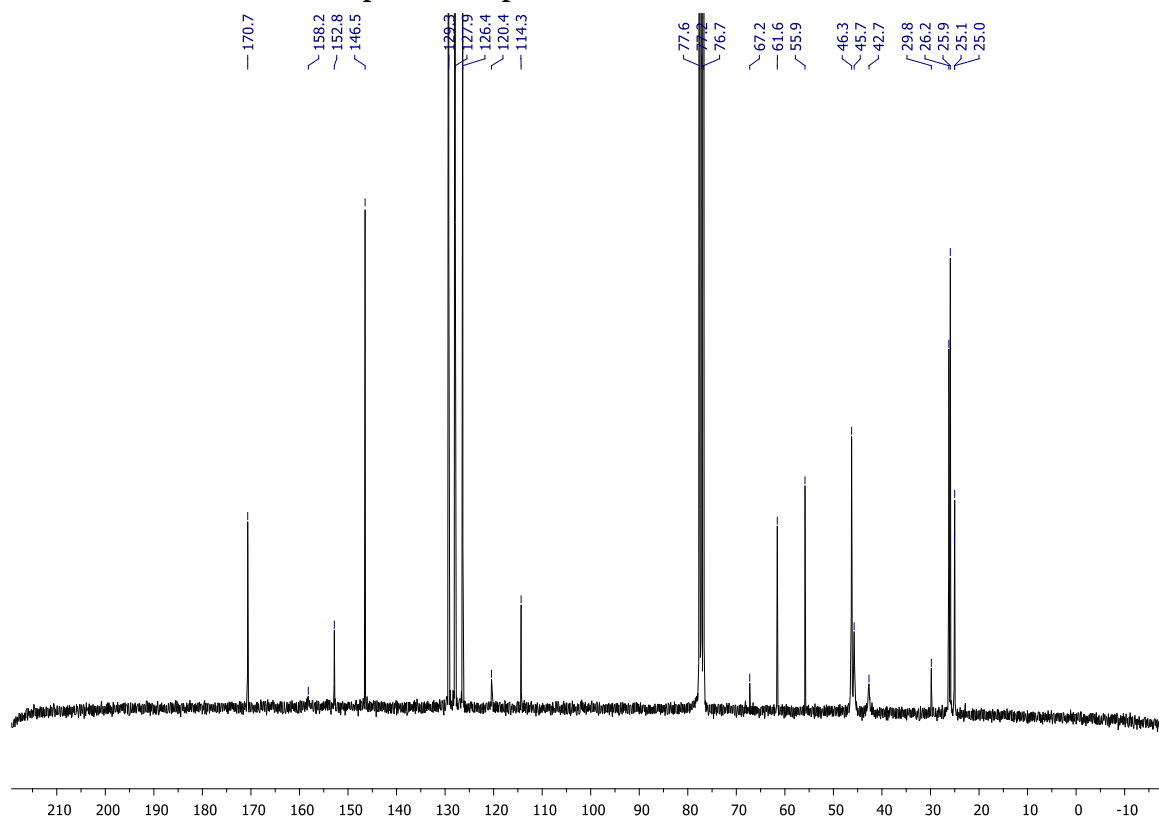
^{13}C -NMR (75.5 MHz, CDCl_3) spectrum of product 4:



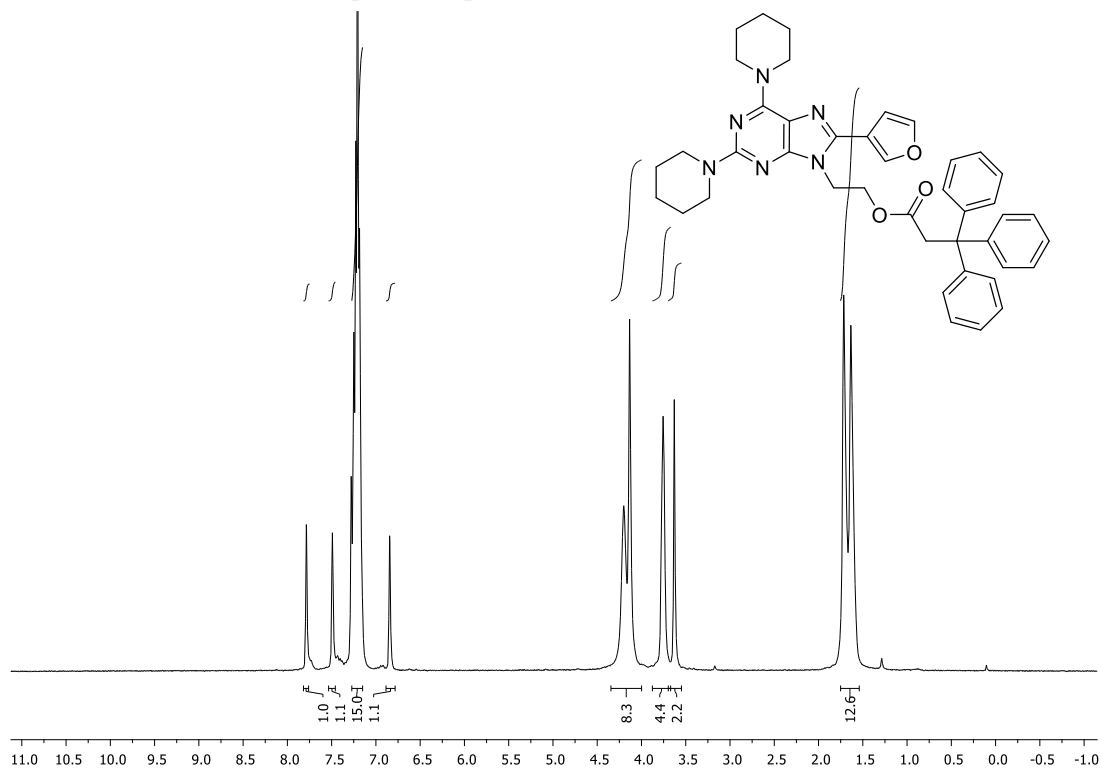
^1H -NMR (300 MHz, CDCl_3) spectra of product 5:



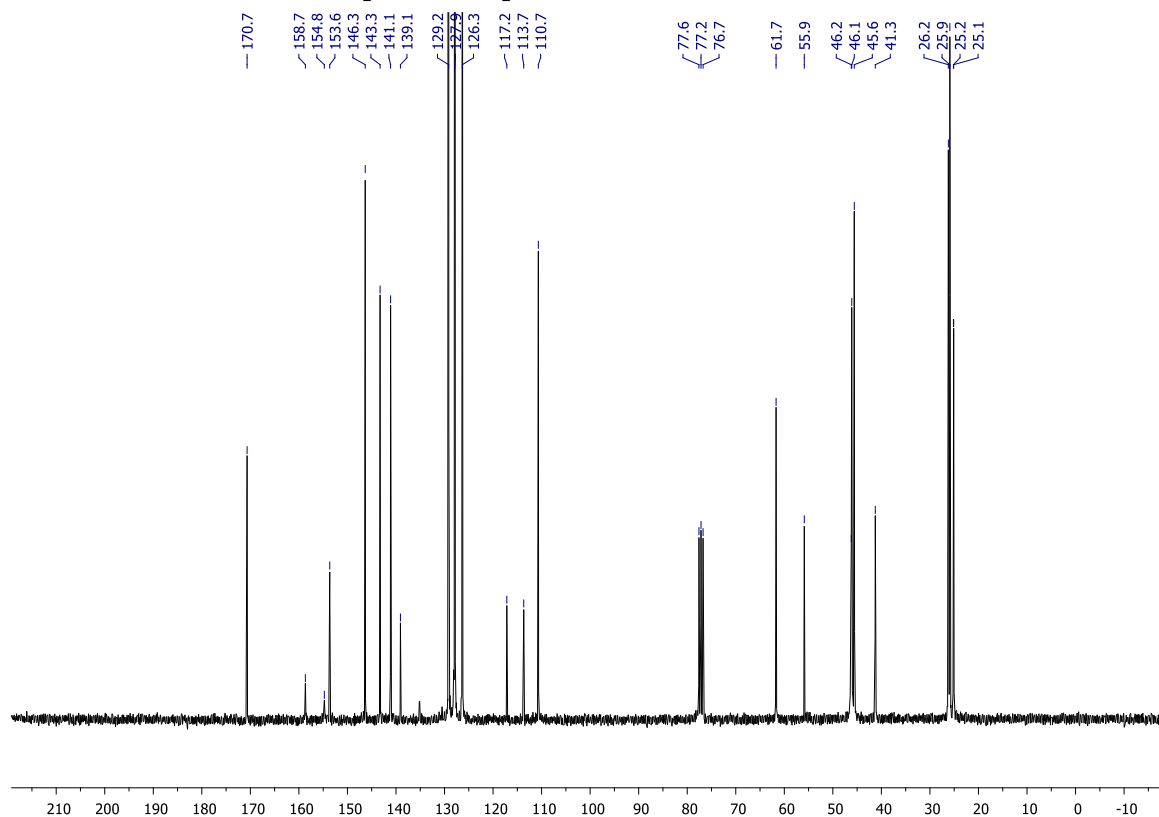
^{13}C -NMR (75.5 MHz, CDCl_3) spectrum of product 5:



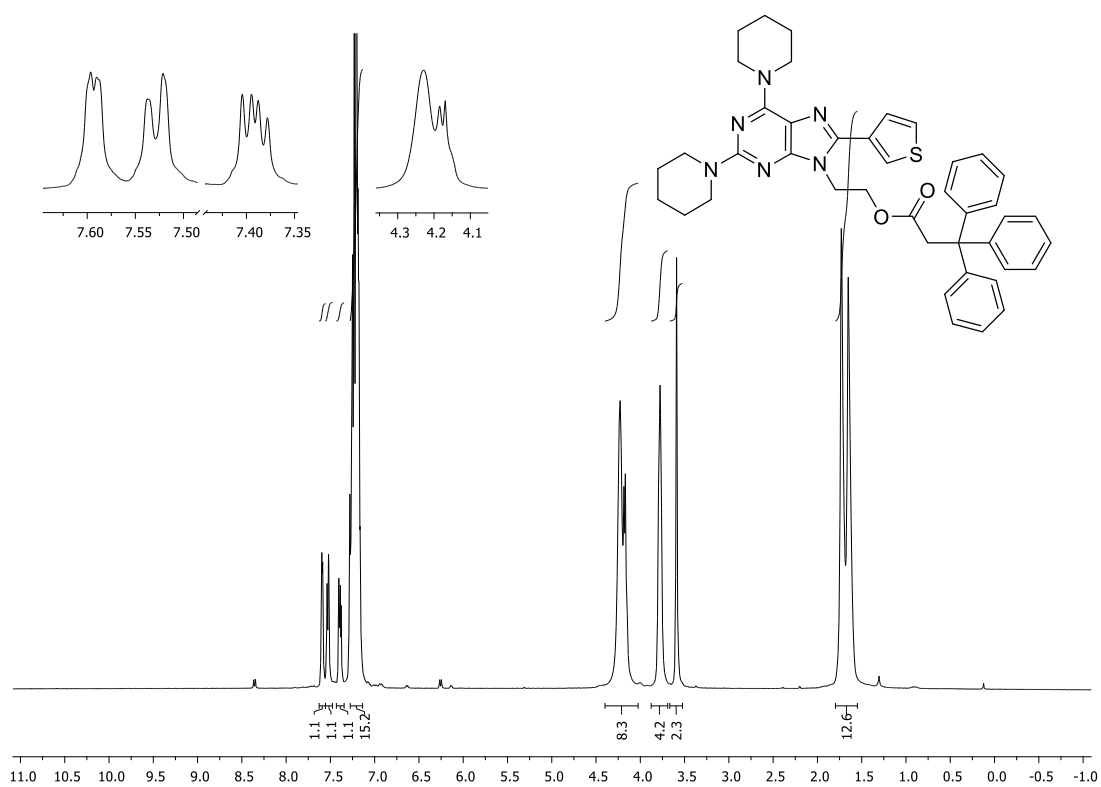
^1H -NMR (300 MHz, CDCl_3) spectra of product 6a:



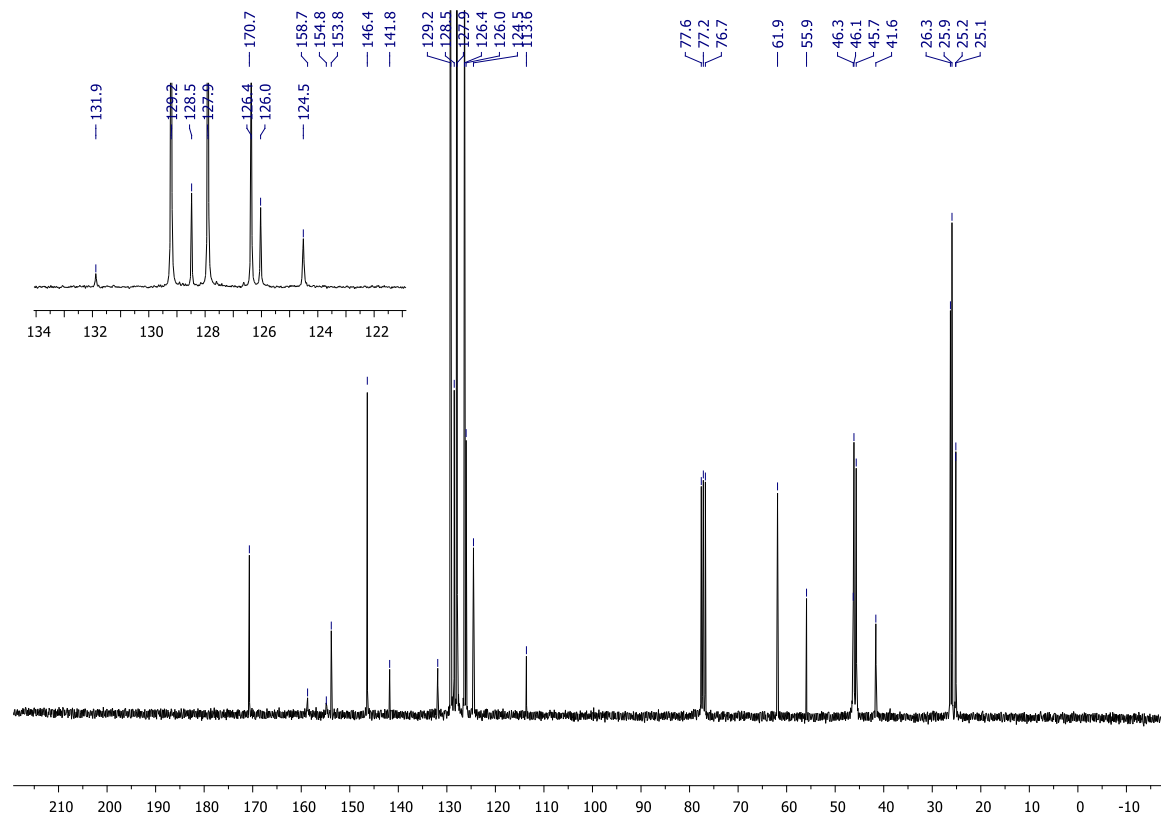
^{13}C -NMR (75.5 MHz, CDCl_3) spectrum of product 6a:



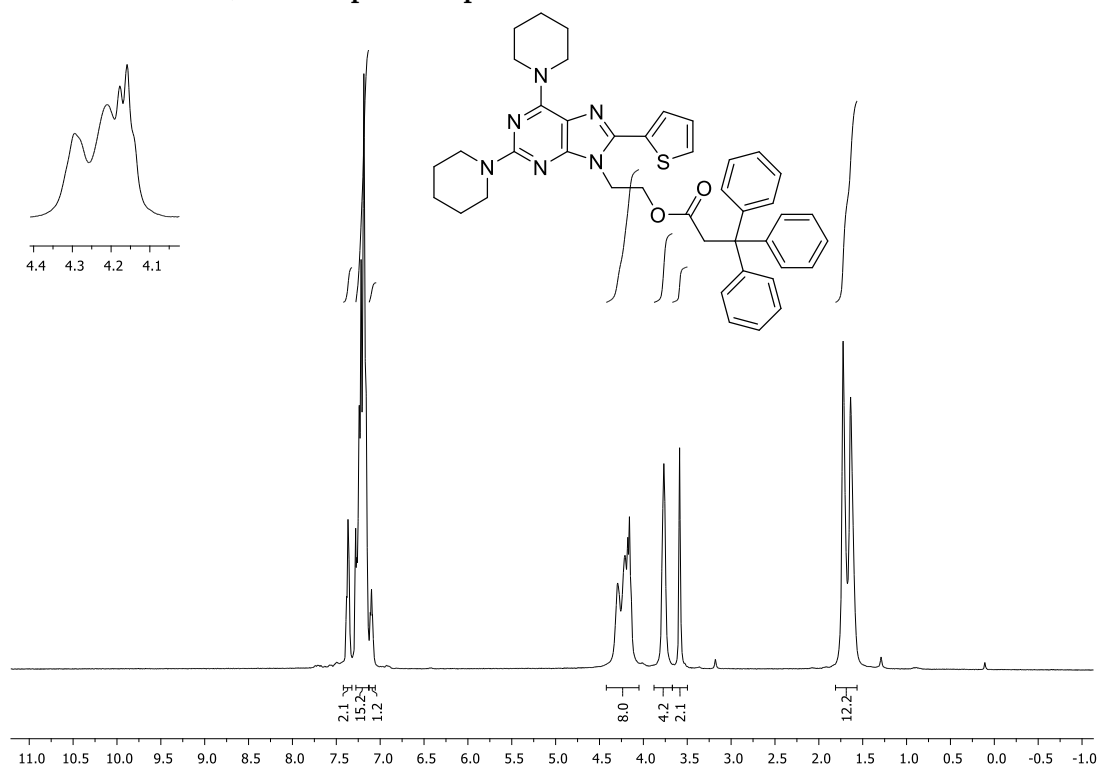
¹H-NMR (300 MHz, CDCl₃) spectra of product 6b:



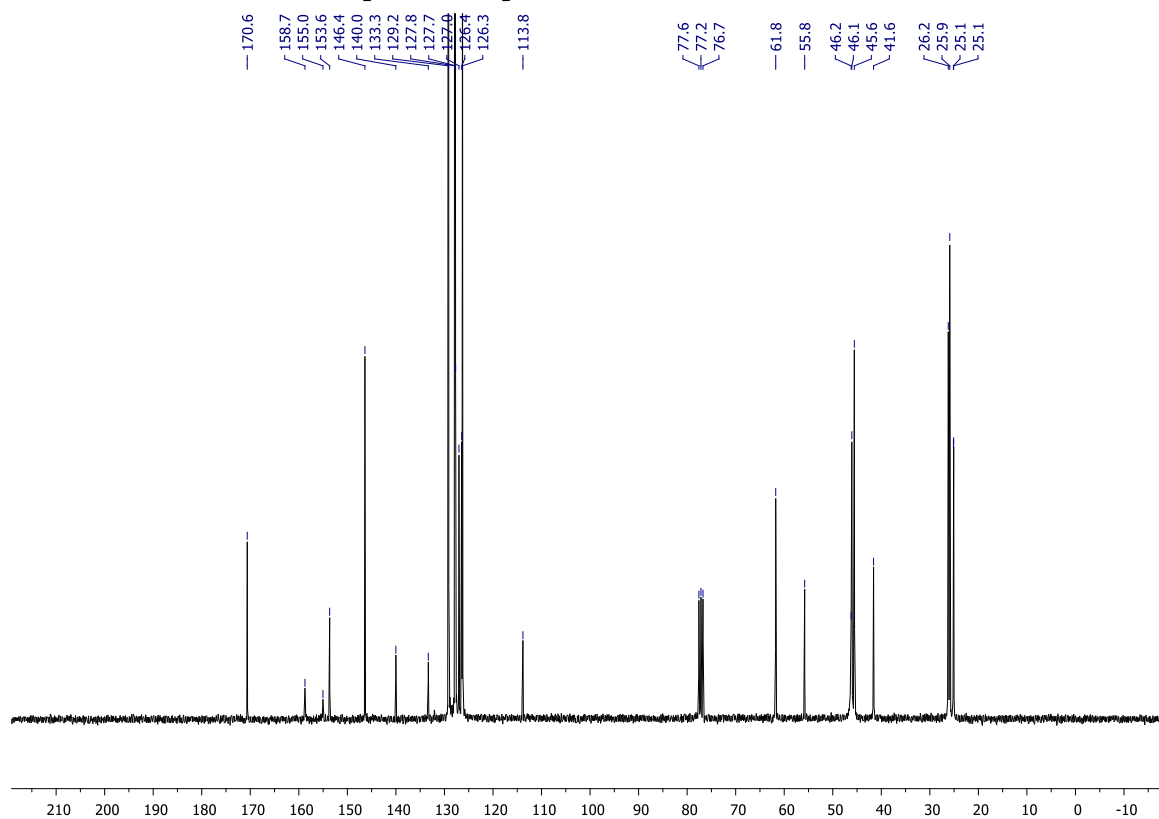
¹³C-NMR (75.5 MHz, CDCl₃) spectrum of product 6b:



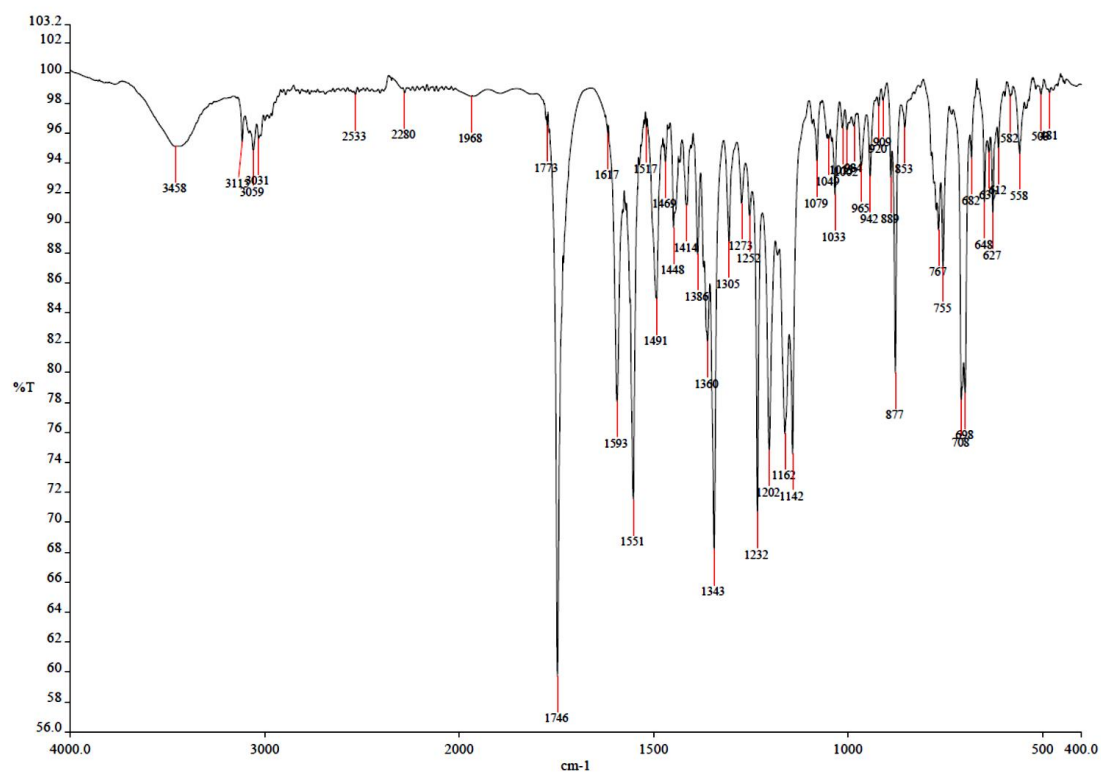
¹H-NMR (300 MHz, CDCl₃) spectra of product 6c:



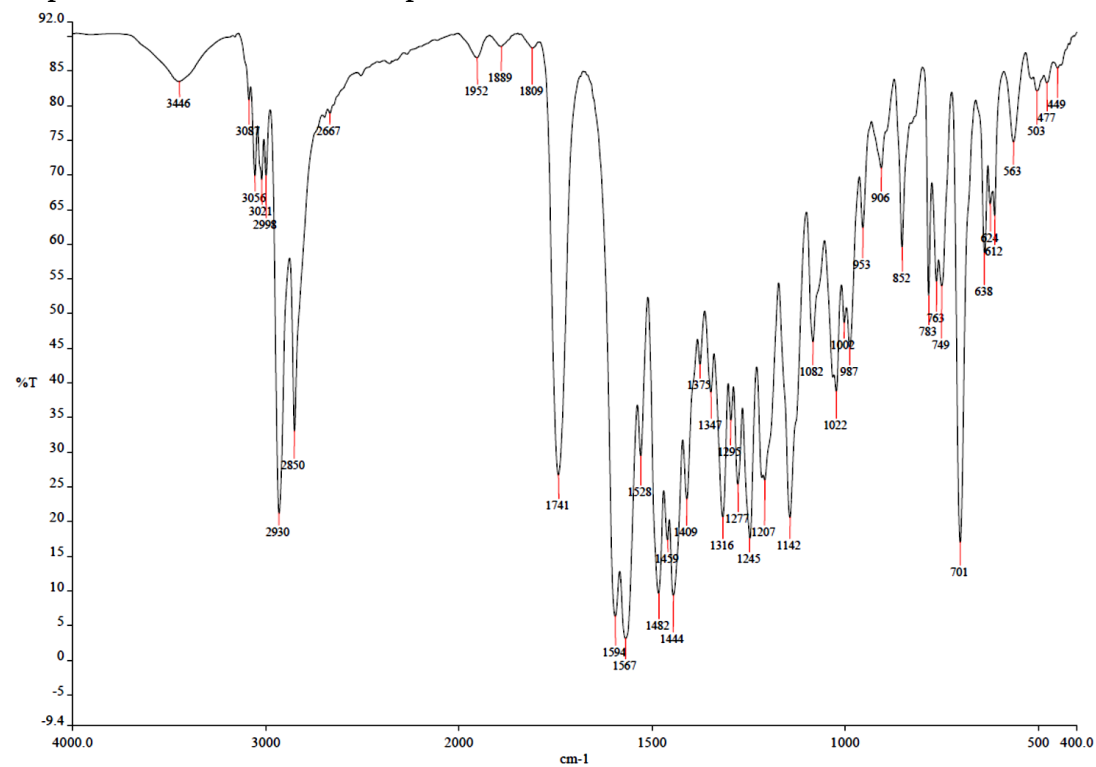
¹³C-NMR (75.5 MHz, CDCl₃) spectrum of product 6c:



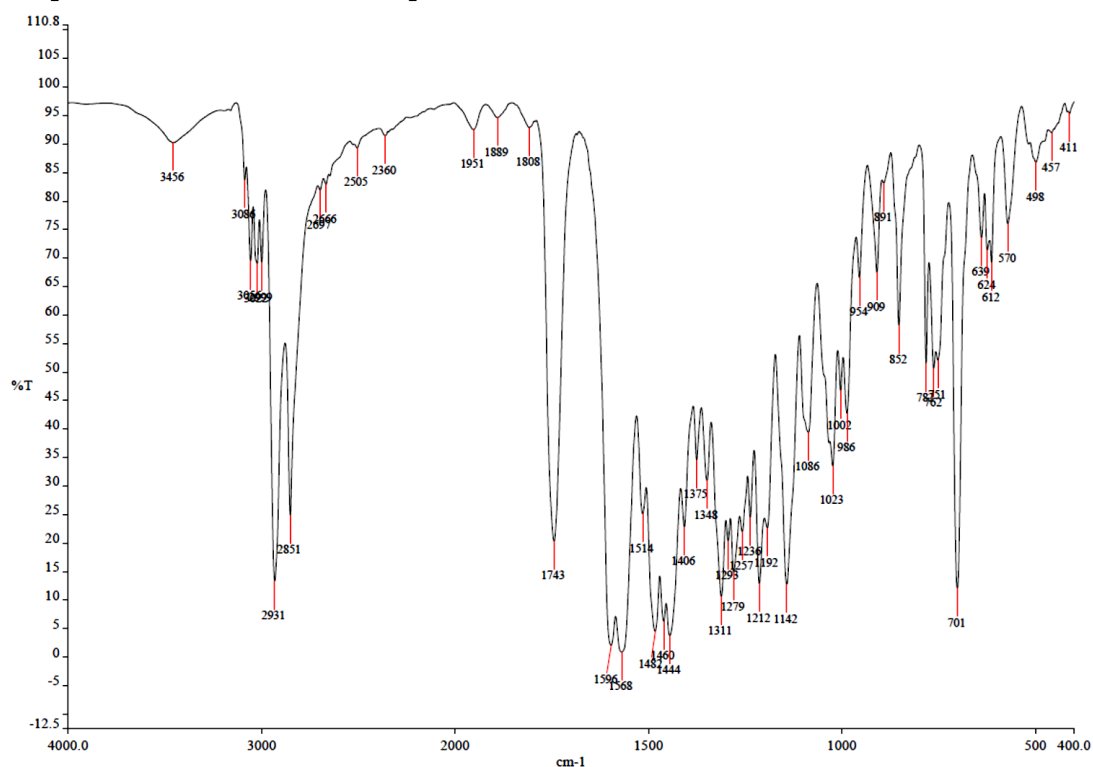
IR spectrum (KBr) ν (cm^{-1}) of compound 3:



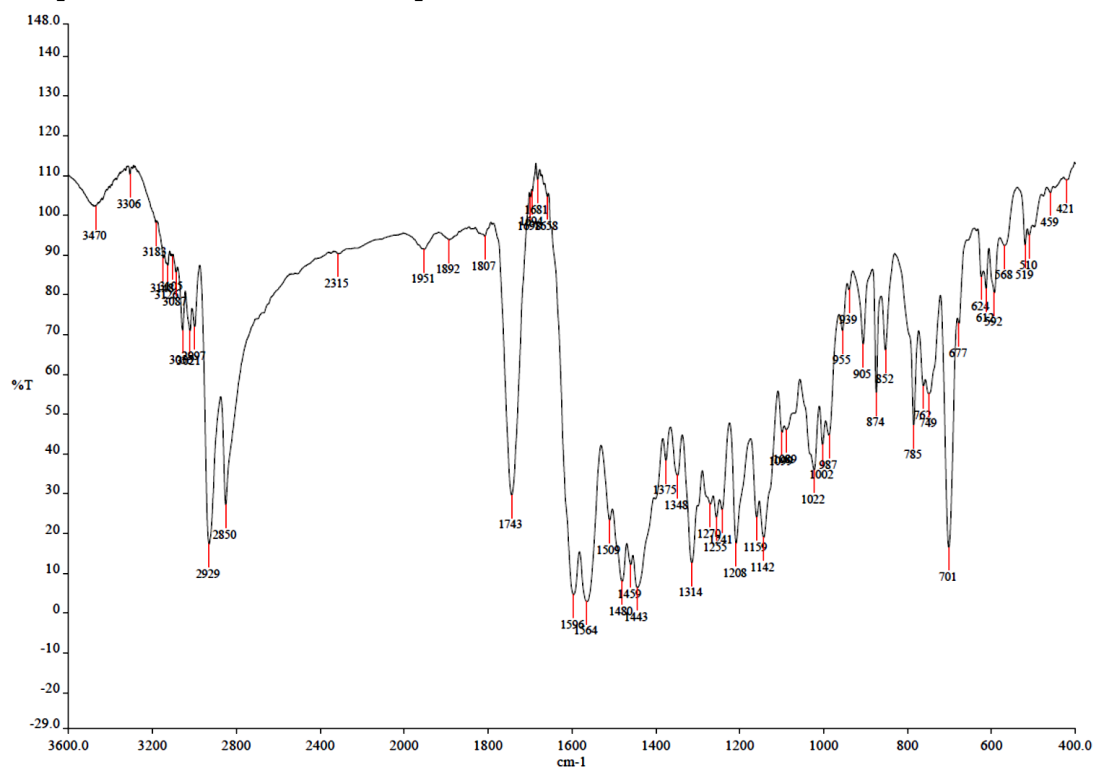
IR spectrum (KBr) ν (cm^{-1}) of compound 4:



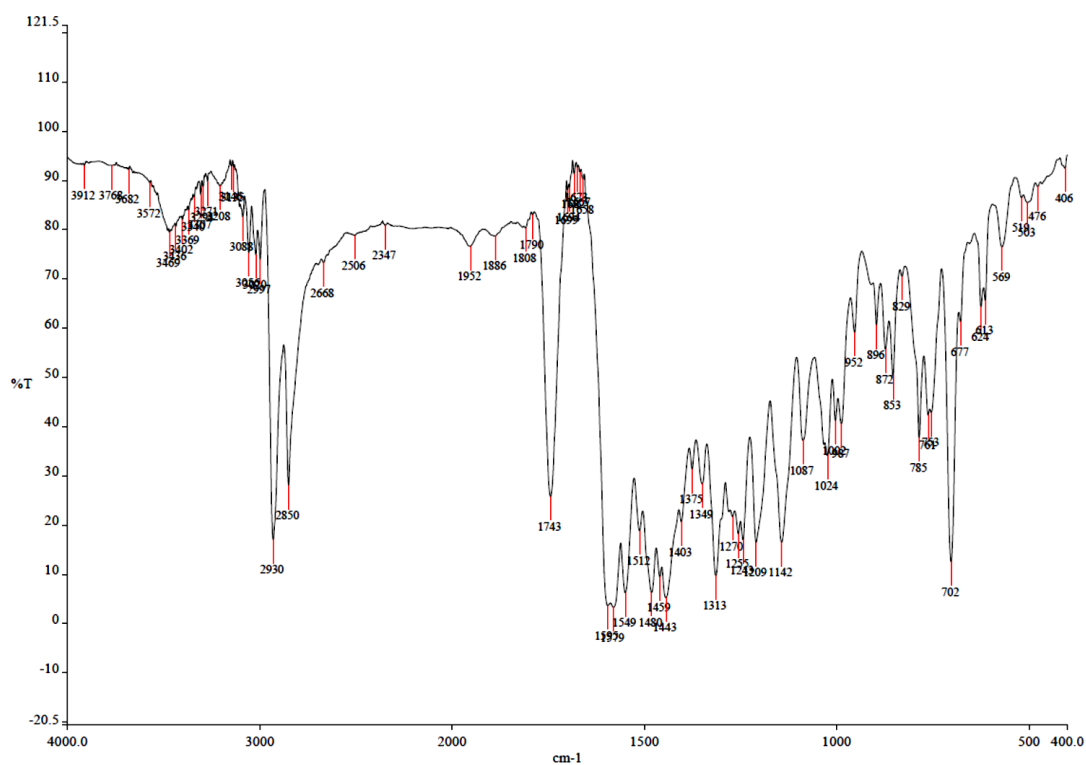
IR spectrum (KBr) ν (cm^{-1}) of compound 5:



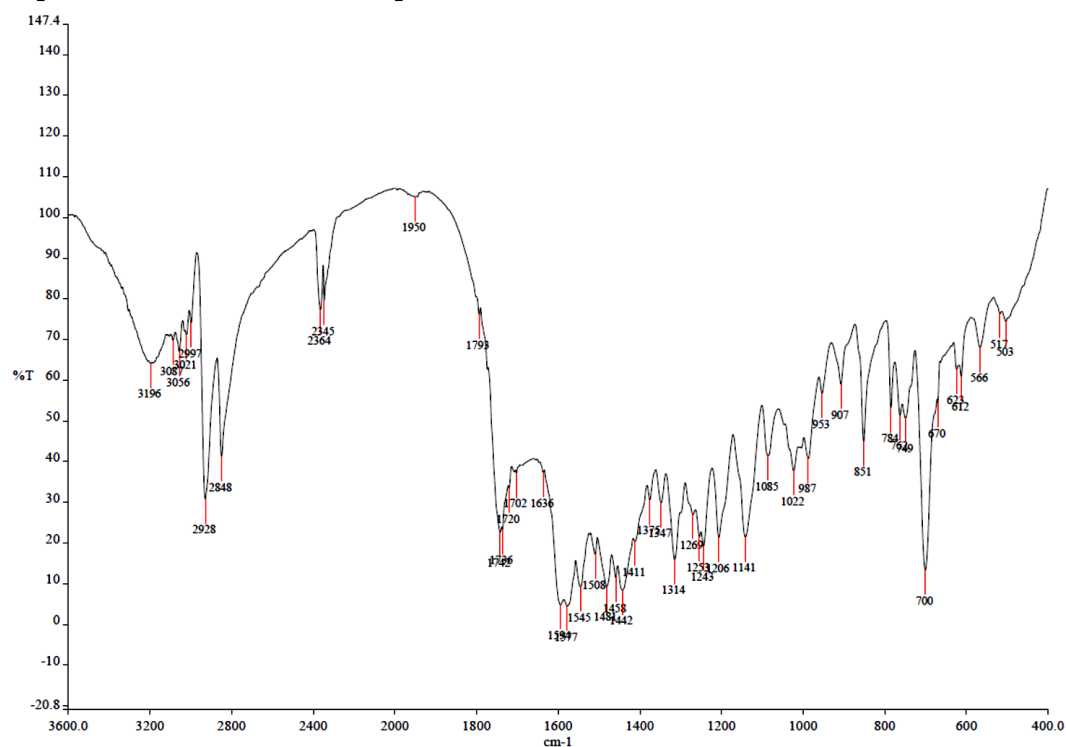
IR spectrum (KBr) ν (cm^{-1}) of compound 6a:



IR spectrum (KBr) ν (cm^{-1}) of compound 6b:



IR spectrum (KBr) ν (cm^{-1}) of compound 6c:



Absorption spectra results in DCM solution ($c = 0.5 \cdot 10^{-4}$ M; $l = 1$ cm)

Compound 6a		Compound 6b		Compound 6c	
Wavelength, nm	A	Wavelength, nm	A	Wavelength, nm	A
250	1.3795	250	1.2965	250	1.2008
251	1.4142	251	1.3016	251	1.2168
252	1.4468	252	1.3079	252	1.2333
253	1.4765	253	1.3159	253	1.2503
254	1.5027	254	1.3249	254	1.2677
255	1.5231	255	1.3335	255	1.2836
256	1.5352	256	1.3395	256	1.2968
257	1.5404	257	1.3436	257	1.3086
258	1.5397	258	1.3463	258	1.3192
259	1.5326	259	1.3465	259	1.3278
260	1.5189	260	1.3432	260	1.3342
261	1.4982	261	1.3349	261	1.3374
262	1.4700	262	1.3212	262	1.3370
263	1.4344	263	1.3023	263	1.3338
264	1.3917	264	1.2779	264	1.3271
265	1.3416	265	1.2479	265	1.3171
266	1.2842	266	1.2128	266	1.3046
267	1.2199	267	1.1722	267	1.2882
268	1.1491	268	1.1259	268	1.2681
269	1.0742	269	1.0751	269	1.2446
270	0.9990	270	1.0217	270	1.2184
271	0.9264	271	0.9673	271	1.1900
272	0.8569	272	0.9111	272	1.1574
273	0.7922	273	0.8533	273	1.1196
274	0.7345	274	0.7963	274	1.0776
275	0.6857	275	0.7424	275	1.0328
276	0.6466	276	0.6933	276	0.9855
277	0.6165	277	0.6495	277	0.9355
278	0.5937	278	0.6108	278	0.8833
279	0.5767	279	0.5770	279	0.8299
280	0.5643	280	0.5478	280	0.7764
281	0.5550	281	0.5227	281	0.7238
282	0.5479	282	0.5016	282	0.6735
283	0.5424	283	0.4840	283	0.6263
284	0.5381	284	0.4696	284	0.5828
285	0.5351	285	0.4581	285	0.5436
286	0.5336	286	0.4490	286	0.5083
287	0.5340	287	0.4421	287	0.4769
288	0.5362	288	0.4370	288	0.4493
289	0.5405	289	0.4335	289	0.4255
290	0.5466	290	0.4316	290	0.4056
291	0.5541	291	0.4309	291	0.3889
292	0.5625	292	0.4314	292	0.3747
293	0.5716	293	0.4332	293	0.3616
294	0.5809	294	0.4362	294	0.3486

295	0.5906	295	0.4407	295	0.3357
296	0.6009	296	0.4464	296	0.3235
297	0.6128	297	0.4536	297	0.3131
298	0.6268	298	0.4625	298	0.3047
299	0.6433	299	0.4728	299	0.2986
300	0.6624	300	0.4847	300	0.2947
301	0.6843	301	0.4981	301	0.2928
302	0.7088	302	0.5129	302	0.2926
303	0.7356	303	0.5291	303	0.2939
304	0.7642	304	0.5469	304	0.2966
305	0.7943	305	0.5660	305	0.3005
306	0.8251	306	0.5865	306	0.3059
307	0.8560	307	0.6082	307	0.3127
308	0.8867	308	0.6311	308	0.3206
309	0.9165	309	0.6548	309	0.3299
310	0.9453	310	0.6792	310	0.3404
311	0.9728	311	0.7041	311	0.3522
312	0.9982	312	0.7293	312	0.3649
313	1.0221	313	0.7546	313	0.3784
314	1.0446	314	0.7800	314	0.3928
315	1.0654	315	0.8048	315	0.4077
316	1.0842	316	0.8288	316	0.4230
317	1.1015	317	0.8522	317	0.4388
318	1.1171	318	0.8747	318	0.4551
319	1.1305	319	0.8962	319	0.4715
320	1.1417	320	0.9163	320	0.4883
321	1.1508	321	0.9351	321	0.5054
322	1.1574	322	0.9527	322	0.5228
323	1.1601	323	0.9687	323	0.5403
324	1.1589	324	0.9832	324	0.5578
325	1.1536	325	0.9961	325	0.5751
326	1.1439	326	1.0073	326	0.5923
327	1.1282	327	1.0173	327	0.6098
328	1.1077	328	1.0256	328	0.6273
329	1.0859	329	1.0316	329	0.6442
330	1.0624	330	1.0372	330	0.6610
331	1.0366	331	1.0410	331	0.6778
332	1.0091	332	1.0427	332	0.6943
333	0.9810	333	1.0428	333	0.7106
334	0.9525	334	1.0407	334	0.7269
335	0.9238	335	1.0366	335	0.7431
336	0.8942	336	1.0300	336	0.7587
337	0.8633	337	1.0210	337	0.7738
338	0.8313	338	1.0102	338	0.7884
339	0.7973	339	0.9967	339	0.8021
340	0.7606	340	0.9805	340	0.8146
341	0.7208	341	0.9617	341	0.8257
342	0.6781	342	0.9409	342	0.8357
343	0.6326	343	0.9182	343	0.8450

344	0.5846	344	0.8935	344	0.8533
345	0.5351	345	0.8679	345	0.8611
346	0.4853	346	0.8418	346	0.8686
347	0.4359	347	0.8150	347	0.8751
348	0.3878	348	0.7876	348	0.8806
349	0.3421	349	0.7602	349	0.8852
350	0.2994	350	0.7326	350	0.8888
351	0.2602	351	0.7048	351	0.8913
352	0.2248	352	0.6767	352	0.8924
353	0.1932	353	0.6483	353	0.8927
354	0.1653	354	0.6194	354	0.8923
355	0.1411	355	0.5898	355	0.8909
356	0.1201	356	0.5592	356	0.8885
357	0.1022	357	0.5278	357	0.8852
358	0.0873	358	0.4956	358	0.8810
359	0.0749	359	0.4628	359	0.8760
360	0.0648	360	0.4296	360	0.8700
361	0.0564	361	0.3958	361	0.8630
362	0.0494	362	0.3623	362	0.8552
363	0.0436	363	0.3292	363	0.8464
364	0.0389	364	0.2965	364	0.8362
365	0.0350	365	0.2651	365	0.8248
366	0.0318	366	0.2354	366	0.8125
367	0.0292	367	0.2076	367	0.7991
368	0.0270	368	0.1820	368	0.7843
369	0.0251	369	0.1586	369	0.7684
370	0.0235	370	0.1373	370	0.7515
371	0.0222	371	0.1182	371	0.7337
372	0.0209	372	0.1015	372	0.7151
373	0.0199	373	0.0868	373	0.6958
374	0.0188	374	0.0740	374	0.6759
375	0.0179	375	0.0631	375	0.6558
376	0.0171	376	0.0539	376	0.6354
377	0.0164	377	0.0460	377	0.6149
378	0.0157	378	0.0392	378	0.5946
379	0.0150	379	0.0335	379	0.5742
380	0.0143	380	0.0287	380	0.5542
381	0.0138	381	0.0248	381	0.5344
382	0.0133	382	0.0218	382	0.5154
383	0.0128	383	0.0189	383	0.4946
384	0.0121	384	0.0160	384	0.4697
385	0.0115	385	0.0138	385	0.4480
386	0.0111	386	0.0123	386	0.4294
387	0.0106	387	0.0110	387	0.4102
388	0.0101	388	0.0099	388	0.3908
389	0.0098	389	0.0090	389	0.3713
390	0.0094	390	0.0082	390	0.3515
391	0.0090	391	0.0076	391	0.3316
392	0.0086	392	0.0070	392	0.3117

393	0.0082	393	0.0066	393	0.2916
394	0.0078	394	0.0062	394	0.2714
395	0.0075	395	0.0059	395	0.2513
396	0.0073	396	0.0056	396	0.2316
397	0.0070	397	0.0053	397	0.2126
398	0.0068	398	0.0051	398	0.1939
399	0.0065	399	0.0049	399	0.1758
400	0.0064	400	0.0048	400	0.1586
401	0.0063	401	0.0047	401	0.1423
402	0.0061	402	0.0046	402	0.1270
403	0.0060	403	0.0045	403	0.1127
404	0.0058	404	0.0044	404	0.0996
405	0.0056	405	0.0042	405	0.0875
406	0.0054	406	0.0041	406	0.0766
407	0.0052	407	0.0039	407	0.0668
408	0.0050	408	0.0038	408	0.0581
409	0.0048	409	0.0038	409	0.0505
410	0.0048	410	0.0037	410	0.0437
411	0.0047	411	0.0037	411	0.0378
412	0.0045	412	0.0036	412	0.0326
413	0.0043	413	0.0035	413	0.0280
414	0.0041	414	0.0033	414	0.0241
415	0.0038	415	0.0032	415	0.0208
416	0.0036	416	0.0030	416	0.0178
417	0.0034	417	0.0029	417	0.0153
418	0.0032	418	0.0028	418	0.0131
419	0.0032	419	0.0028	419	0.0115
420	0.0032	420	0.0029	420	0.0102
421	0.0032	421	0.0031	421	0.0092
422	0.0032	422	0.0032	422	0.0083
423	0.0032	423	0.0032	423	0.0075
424	0.0030	424	0.0031	424	0.0069
425	0.0030	425	0.0031	425	0.0063
426	0.0029	426	0.0031	426	0.0059
427	0.0028	427	0.0030	427	0.0055
428	0.0026	428	0.0030	428	0.0052
429	0.0025	429	0.0029	429	0.0048
430	0.0024	430	0.0028	430	0.0045
431	0.0023	431	0.0028	431	0.0043
432	0.0023	432	0.0029	432	0.0041
433	0.0022	433	0.0029	433	0.0039
434	0.0021	434	0.0029	434	0.0038
435	0.0021	435	0.0029	435	0.0037
436	0.0021	436	0.0029	436	0.0037
437	0.0021	437	0.0029	437	0.0038
438	0.0020	438	0.0029	438	0.0037
439	0.0019	439	0.0029	439	0.0035
440	0.0019	440	0.0029	440	0.0034
441	0.0019	441	0.0028	441	0.0033

442	0.0018	442	0.0028	442	0.0032
443	0.0018	443	0.0028	443	0.0032
444	0.0017	444	0.0027	444	0.0031
445	0.0017	445	0.0027	445	0.0030
446	0.0017	446	0.0027	446	0.0030
447	0.0016	447	0.0027	447	0.0030
448	0.0016	448	0.0026	448	0.0029
449	0.0016	449	0.0026	449	0.0028
450	0.0016	450	0.0026	450	0.0028

Absorption spectra results in the thin film

Compound 6a		Compound 6b		Compound 6c	
Wavelength, nm	A	Wavelength, nm	A	Wavelength, nm	A
250	0.3110	250	0.1812	250	0.1252
251	0.3002	251	0.0500	251	0.0645
252	0.2354	252	-0.0530	252	0.0057
253	0.1797	253	0.0080	253	0.0069
254	0.2057	254	0.0504	254	0.0473
255	0.2406	255	0.0362	255	0.0868
256	0.3023	256	0.0100	256	0.0982
257	0.4109	257	0.0801	257	0.1610
258	0.2655	258	0.0947	258	0.1665
259	0.1193	259	-0.0330	259	0.1124
260	0.0170	260	-0.1550	260	0.0014
261	0.0502	261	-0.1650	261	0.0137
262	0.1091	262	-0.1450	262	0.1218
263	0.0400	263	-0.1510	263	0.1442
264	-0.0100	264	-0.1690	264	0.1429
265	-0.0520	265	-0.2340	265	0.1929
266	-0.0950	266	-0.2620	266	0.2409
267	-0.1880	267	-0.3500	267	0.1994
268	-0.2950	268	-0.4560	268	0.1161
269	-0.3710	269	-0.4980	269	0.0945
270	-0.4560	270	-0.5610	270	0.1326
271	-0.5650	271	-0.6500	271	0.1567
272	-0.6650	272	-0.7210	272	0.1468
273	-0.7580	273	-0.7980	273	0.1546
274	-0.8580	274	-0.8920	274	0.1758
275	-0.9280	275	-0.9550	275	0.1518
276	-0.9700	276	-0.9970	276	0.1796
277	-0.9730	277	-1.0050	277	0.1951
278	-0.9250	278	-0.9680	278	0.2393
279	-0.8510	279	-0.9100	279	0.2988
280	-0.7680	280	-0.8410	280	0.3274
281	-0.6770	281	-0.7650	281	0.3472
282	-0.5810	282	-0.6830	282	0.3564

283	-0.4800	283	-0.5950	283	0.3707
284	-0.3850	284	-0.5110	284	0.3710
285	-0.2990	285	-0.4330	285	0.3634
286	-0.2170	286	-0.3580	286	0.3654
287	-0.1380	287	-0.2880	287	0.3676
288	-0.0660	288	-0.2240	288	0.3660
289	0.0021	289	-0.1650	289	0.3671
290	0.0666	290	-0.1100	290	0.3709
291	0.1277	291	-0.0580	291	0.3765
292	0.1839	292	-0.0110	292	0.3824
293	0.2359	293	0.0313	293	0.3880
294	0.2846	294	0.0720	294	0.3943
295	0.3298	295	0.1107	295	0.4008
296	0.3713	296	0.1466	296	0.4066
297	0.4110	297	0.1809	297	0.4125
298	0.4502	298	0.2146	298	0.4199
299	0.4891	299	0.2473	299	0.4281
300	0.5276	300	0.2786	300	0.4374
301	0.5667	301	0.3090	301	0.4485
302	0.6068	302	0.3390	302	0.4615
303	0.6475	303	0.3686	303	0.4761
304	0.6889	304	0.3983	304	0.4923
305	0.7307	305	0.4276	305	0.5100
306	0.7722	306	0.4570	306	0.5294
307	0.8133	307	0.4865	307	0.5507
308	0.8539	308	0.5163	308	0.5736
309	0.8933	309	0.5463	309	0.5985
310	0.9315	310	0.5768	310	0.6257
311	0.9679	311	0.6072	311	0.6551
312	1.0013	312	0.6375	312	0.6867
313	1.0319	313	0.6679	313	0.7201
314	1.0596	314	0.6977	314	0.7549
315	1.0846	315	0.7268	315	0.7916
316	1.1073	316	0.7553	316	0.8291
317	1.1276	317	0.7832	317	0.8675
318	1.1470	318	0.8108	318	0.9072
319	1.1655	319	0.8375	319	0.9478
320	1.1818	320	0.8630	320	0.9886
321	1.1966	321	0.8874	321	1.0297
322	1.2094	322	0.9109	322	1.0715
323	1.2198	323	0.9328	323	1.1138
324	1.2263	324	0.9528	324	1.1561
325	1.2294	325	0.9713	325	1.1985
326	1.2294	326	0.9885	326	1.2424
327	1.2193	327	1.0046	327	1.2834
328	1.2034	328	1.0195	328	1.3239
329	1.1873	329	1.0311	329	1.3680
330	1.1674	330	1.0407	330	1.4134
331	1.1443	331	1.0493	331	1.4580

332	1.1190	332	1.0559	332	1.5003
333	1.0933	333	1.0608	333	1.5431
334	1.0679	334	1.0654	334	1.5883
335	1.0430	335	1.0681	335	1.6309
336	1.0192	336	1.0686	336	1.6702
337	0.9963	337	1.0677	337	1.7098
338	0.9740	338	1.0647	338	1.7502
339	0.9514	339	1.0593	339	1.7878
340	0.9271	340	1.0511	340	1.8216
341	0.9003	341	1.0404	341	1.8565
342	0.8705	342	1.0274	342	1.8932
343	0.8361	343	1.0115	343	1.9253
344	0.7965	344	0.9928	344	1.9549
345	0.7522	345	0.9721	345	1.9844
346	0.7037	346	0.9500	346	2.0120
347	0.6521	347	0.9264	347	2.0385
348	0.5986	348	0.9019	348	2.0598
349	0.5447	349	0.8771	349	2.0764
350	0.4918	350	0.8526	350	2.0985
351	0.4414	351	0.8282	351	2.1163
352	0.3941	352	0.8040	352	2.1291
353	0.3507	353	0.7802	353	2.1387
354	0.3117	354	0.7564	354	2.1428
355	0.2772	355	0.7323	355	2.1470
356	0.2471	356	0.7078	356	2.1483
357	0.2210	357	0.6824	357	2.1468
358	0.1990	358	0.6561	358	2.1480
359	0.1806	359	0.6285	359	2.1452
360	0.1654	360	0.5992	360	2.1380
361	0.1528	361	0.5680	361	2.1304
362	0.1425	362	0.5351	362	2.1219
363	0.1342	363	0.5005	363	2.1106
364	0.1276	364	0.4641	364	2.0956
365	0.1222	365	0.4268	365	2.0803
366	0.1180	366	0.3894	366	2.0656
367	0.1147	367	0.3524	367	2.0470
368	0.1119	368	0.3166	368	2.0253
369	0.1095	369	0.2821	369	2.0001
370	0.1073	370	0.2493	370	1.9712
371	0.1053	371	0.2189	371	1.9399
372	0.1032	372	0.1911	372	1.9035
373	0.1010	373	0.1659	373	1.8659
374	0.0986	374	0.1434	374	1.8272
375	0.0962	375	0.1236	375	1.7848
376	0.0937	376	0.1063	376	1.7399
377	0.0910	377	0.0912	377	1.6937
378	0.0885	378	0.0782	378	1.6473
379	0.0860	379	0.0672	379	1.6001
380	0.0836	380	0.0578	380	1.5517

381	0.0815	381	0.0498	381	1.5038
382	0.0796	382	0.0433	382	1.4634
383	0.0776	383	0.0374	383	1.4038
384	0.0754	384	0.0316	384	1.3159
385	0.0737	385	0.0272	385	1.2614
386	0.0725	386	0.0240	386	1.2276
387	0.0712	387	0.0213	387	1.1896
388	0.0700	388	0.0191	388	1.1513
389	0.0691	389	0.0173	389	1.1124
390	0.0682	390	0.0158	390	1.0725
391	0.0672	391	0.0146	391	1.0310
392	0.0664	392	0.0136	392	0.9879
393	0.0658	393	0.0129	393	0.9431
394	0.0650	394	0.0123	394	0.8961
395	0.0643	395	0.0118	395	0.8471
396	0.0637	396	0.0115	396	0.7964
397	0.0631	397	0.0112	397	0.7444
398	0.0625	398	0.0111	398	0.6912
399	0.0619	399	0.0111	399	0.6373
400	0.0613	400	0.0111	400	0.5835
401	0.0607	401	0.0111	401	0.5304
402	0.0602	402	0.0112	402	0.4786
403	0.0596	403	0.0115	403	0.4288
404	0.0589	404	0.0117	404	0.3817
405	0.0583	405	0.0119	405	0.3377
406	0.0577	406	0.0121	406	0.2972
407	0.0572	407	0.0124	407	0.2603
408	0.0566	408	0.0128	408	0.2272
409	0.0559	409	0.0131	409	0.1978
410	0.0552	410	0.0134	410	0.1720
411	0.0546	411	0.0138	411	0.1493
412	0.0538	412	0.0142	412	0.1296
413	0.0531	413	0.0145	413	0.1125
414	0.0523	414	0.0148	414	0.0979
415	0.0514	415	0.0152	415	0.0854
416	0.0505	416	0.0155	416	0.0748
417	0.0496	417	0.0159	417	0.0658
418	0.0488	418	0.0163	418	0.0583
419	0.0478	419	0.0166	419	0.0518
420	0.0469	420	0.0169	420	0.0464
421	0.0460	421	0.0172	421	0.0418
422	0.0451	422	0.0175	422	0.0380
423	0.0442	423	0.0179	423	0.0348
424	0.0433	424	0.0182	424	0.0320
425	0.0424	425	0.0184	425	0.0296
426	0.0416	426	0.0187	426	0.0277
427	0.0407	427	0.0190	427	0.0260
428	0.0399	428	0.0193	428	0.0245
429	0.0391	429	0.0195	429	0.0233

430	0.0383	430	0.0197	430	0.0221
431	0.0375	431	0.0200	431	0.0211
432	0.0367	432	0.0202	432	0.0203
433	0.0360	433	0.0204	433	0.0196
434	0.0353	434	0.0206	434	0.0190
435	0.0346	435	0.0207	435	0.0185
436	0.0338	436	0.0208	436	0.0181
437	0.0331	437	0.0210	437	0.0177
438	0.0325	438	0.0210	438	0.0174
439	0.0319	439	0.0211	439	0.0171
440	0.0312	440	0.0212	440	0.0169
441	0.0307	441	0.0213	441	0.0168
442	0.0301	442	0.0213	442	0.0167
443	0.0295	443	0.0214	443	0.0167
444	0.0291	444	0.0214	444	0.0168
445	0.0287	445	0.0214	445	0.0168
446	0.0282	446	0.0214	446	0.0168
447	0.0278	447	0.0213	447	0.0169
448	0.0274	448	0.0213	448	0.0170
449	0.0271	449	0.0212	449	0.0172
450	0.0268	450	0.0212	450	0.0174
451	0.0265	451	0.0210	451	0.0175
452	0.0262	452	0.0208	452	0.0176
453	0.0261	453	0.0208	453	0.0178
454	0.0259	454	0.0206	454	0.0180
455	0.0258	455	0.0205	455	0.0182
456	0.0257	456	0.0204	456	0.0184
457	0.0256	457	0.0202	457	0.0185
458	0.0256	458	0.0199	458	0.0186
459	0.0256	459	0.0197	459	0.0187
460	0.0256	460	0.0196	460	0.0189
461	0.0257	461	0.0193	461	0.0190
462	0.0258	462	0.0191	462	0.0190
463	0.0260	463	0.0188	463	0.0191
464	0.0260	464	0.0186	464	0.0190
465	0.0262	465	0.0184	465	0.0190
466	0.0264	466	0.0181	466	0.0190
467	0.0267	467	0.0179	467	0.0190
468	0.0269	468	0.0176	468	0.0189
469	0.0272	469	0.0173	469	0.0188
470	0.0274	470	0.0169	470	0.0186
471	0.0277	471	0.0167	471	0.0184
472	0.0280	472	0.0164	472	0.0183
473	0.0284	473	0.0161	473	0.0180
474	0.0287	474	0.0158	474	0.0178
475	0.0291	475	0.0156	475	0.0177
476	0.0295	476	0.0152	476	0.0174
477	0.0298	477	0.0149	477	0.0171
478	0.0302	478	0.0146	478	0.0169

479	0.0307	479	0.0143	479	0.0166
480	0.0311	480	0.0140	480	0.0162
481	0.0315	481	0.0136	481	0.0159
482	0.0319	482	0.0132	482	0.0156
483	0.0324	483	0.0129	483	0.0152
484	0.0328	484	0.0126	484	0.0148
485	0.0333	485	0.0123	485	0.0145
486	0.0337	486	0.0119	486	0.0141
487	0.0342	487	0.0116	487	0.0137
488	0.0347	488	0.0113	488	0.0134
489	0.0351	489	0.0110	489	0.0130
490	0.0355	490	0.0106	490	0.0126
491	0.0360	491	0.0103	491	0.0124
492	0.0365	492	0.0100	492	0.0120
493	0.0369	493	0.0096	493	0.0116
494	0.0373	494	0.0093	494	0.0113
495	0.0377	495	0.0091	495	0.0110
496	0.0382	496	0.0087	496	0.0107
497	0.0386	497	0.0084	497	0.0105
498	0.0390	498	0.0081	498	0.0102
499	0.0394	499	0.0078	499	0.0099
500	0.0397	500	0.0075	500	0.0096
501	0.0401	501	0.0072	501	0.0094
502	0.0405	502	0.0070	502	0.0093
503	0.0409	503	0.0067	503	0.0091
504	0.0412	504	0.0064	504	0.0090
505	0.0416	505	0.0061	505	0.0088
506	0.0419	506	0.0059	506	0.0087
507	0.0422	507	0.0055	507	0.0085
508	0.0425	508	0.0052	508	0.0084
509	0.0428	509	0.0050	509	0.0084
510	0.0431	510	0.0048	510	0.0083
511	0.0434	511	0.0046	511	0.0083
512	0.0437	512	0.0042	512	0.0082
513	0.0440	513	0.0041	513	0.0083
514	0.0442	514	0.0038	514	0.0083
515	0.0444	515	0.0036	515	0.0083
516	0.0446	516	0.0033	516	0.0084
517	0.0448	517	0.0031	517	0.0084
518	0.0449	518	0.0029	518	0.0085
519	0.0451	519	0.0027	519	0.0086
520	0.0453	520	0.0025	520	0.0088
521	0.0454	521	0.0024	521	0.0089
522	0.0455	522	0.0022	522	0.0091
523	0.0456	523	0.0019	523	0.0092
524	0.0457	524	0.0017	524	0.0094
525	0.0458	525	0.0016	525	0.0096
526	0.0458	526	0.0015	526	0.0098
527	0.0458	527	0.0013	527	0.0100

528	0.0458	528	0.0011	528	0.0102
529	0.0458	529	0.0010	529	0.0104
530	0.0458	530	0.0008	530	0.0106

Emission spectra results in DCM solution ($c = 0.5 \cdot 10^{-4}$ M)

Compound 6a		Compound 6b		Compound 6c	
Wavelength, nm	Fluorescence intensity	Wavelength, nm	Fluorescence intensity	Wavelength, nm	Fluorescence intensity
340	19677.5	350	6342.4	370	3387.4
341	26732.4	351	7616.1	371	3834.0
342	37080.1	352	9271.3	372	4141.8
343	50204.5	353	10850.6	373	4566.7
344	67385.5	354	13421.7	374	4561.0
345	93173.9	355	17239.9	375	5005.1
346	123529.0	356	23127.3	376	5766.9
347	161365.0	357	30065.0	377	6425.7
348	213717.0	358	39965.1	378	6955.5
349	272285.0	359	53215.2	379	7127.9
350	343404.0	360	70735.8	380	8667.3
351	429157.0	361	93018.4	381	10158.0
352	530038.0	362	124682.0	382	11551.8
353	638508.0	363	162572.0	383	13713.2
354	758250.0	364	212804.0	384	16493.2
355	885340.0	365	275109.0	385	20046.5
356	1013310.0	366	347335.0	386	24322.6
357	1142610.0	367	441996.0	387	30604.4
358	1252050.0	368	546924.0	388	38759.5
359	1380150.0	369	669985.0	389	48437.4
360	1485110.0	370	811372.0	390	61658.6
361	1593990.0	371	954559.0	391	77142.0
362	1687290.0	372	1128540.0	392	99992.2
363	1776720.0	373	1316700.0	393	125981.0
364	1859220.0	374	1489150.0	394	158896.0
365	1920470.0	375	1687400.0	395	201495.0
366	1989350.0	376	1885210.0	396	246461.0
367	2063160.0	377	2096980.0	397	309213.0
368	2094070.0	378	2294050.0	398	377731.0
369	2170760.0	379	2485830.0	399	461261.0
370	2212920.0	380	2683960.0	400	558826.0
371	2254950.0	381	2867240.0	401	672231.0
372	2300150.0	382	3066830.0	402	796568.0
373	2357610.0	383	3229310.0	403	945299.0
374	2365300.0	384	3367730.0	404	1096670.0

375	2396020.0	385	3512830.0	405	1280740.0
376	2413030.0	386	3660030.0	406	1464870.0
377	2442160.0	387	3790820.0	407	1669070.0
378	2456880.0	388	3925100.0	408	1900970.0
379	2451260.0	389	4033240.0	409	2132560.0
380	2458140.0	390	4136850.0	410	2381990.0
381	2441640.0	391	4241690.0	411	2618900.0
382	2432840.0	392	4398300.0	412	2867510.0
383	2417580.0	393	4541570.0	413	3137490.0
384	2367750.0	394	4654020.0	414	3385050.0
385	2345000.0	395	4757880.0	415	3651930.0
386	2303630.0	396	4804710.0	416	3867480.0
387	2277260.0	397	4950650.0	417	4090070.0
388	2232170.0	398	5035570.0	418	4340800.0
389	2190760.0	399	5105280.0	419	4510040.0
390	2147100.0	400	5141230.0	420	4685180.0
391	2109240.0	401	5246510.0	421	4910310.0
392	2094770.0	402	5280800.0	422	5091370.0
393	2066120.0	403	5382060.0	423	5261050.0
394	2042170.0	404	5396080.0	424	5410060.0
395	2013730.0	405	5435510.0	425	5559990.0
396	1973090.0	406	5438410.0	426	5671970.0
397	1948550.0	407	5466930.0	427	5796220.0
398	1919900.0	408	5491180.0	428	5935960.0
399	1884510.0	409	5474600.0	429	6029700.0
400	1831030.0	410	5478170.0	430	6086130.0
401	1821220.0	411	5458270.0	431	6183280.0
402	1768620.0	412	5448510.0	432	6289740.0
403	1741100.0	413	5450830.0	433	6322490.0
404	1702860.0	414	5423920.0	434	6408790.0
405	1655230.0	415	5382840.0	435	6458700.0
406	1610450.0	416	5351120.0	436	6505090.0
407	1563590.0	417	5266360.0	437	6563150.0
408	1531240.0	418	5241810.0	438	6578320.0
409	1478660.0	419	5159610.0	439	6658140.0
410	1438540.0	420	5088680.0	440	6659590.0
411	1388680.0	421	5067620.0	441	6728400.0
412	1345650.0	422	5026430.0	442	6743400.0
413	1306170.0	423	4951950.0	443	6808860.0
414	1265180.0	424	4892070.0	444	6819200.0
415	1216610.0	425	4833880.0	445	6885530.0
416	1177110.0	426	4758840.0	446	6888560.0
417	1123970.0	427	4675710.0	447	6907380.0
418	1094350.0	428	4615710.0	448	6925570.0
419	1043180.0	429	4549470.0	449	6932710.0

420	1003140.0	430	4450280.0	450	6892740.0
421	966531.0	431	4374250.0	451	6889240.0
422	942753.0	432	4297660.0	452	6884450.0
423	902855.0	433	4190000.0	453	6841110.0
424	871431.0	434	4119240.0	454	6830280.0
425	841759.0	435	4026530.0	455	6772810.0
426	812268.0	436	3923700.0	456	6722460.0
427	772278.0	437	3835340.0	457	6683340.0
428	752026.0	438	3731860.0	458	6590050.0
429	716178.0	439	3655540.0	459	6550690.0
430	693482.0	440	3547830.0	460	6469330.0
431	663302.0	441	3464330.0	461	6386390.0
432	636636.0	442	3371640.0	462	6317470.0
433	610002.0	443	3312440.0	463	6259410.0
434	587967.0	444	3226840.0	464	6181480.0
435	565499.0	445	3155130.0	465	6084080.0
436	538590.0	446	3064300.0	466	6003540.0
437	515802.0	447	2984410.0	467	5919130.0
438	485353.0	448	2910400.0	468	5806130.0
439	472990.0	449	2818240.0	469	5696520.0
440	450841.0	450	2746980.0	470	5613850.0
441	434144.0	451	2662740.0	471	5538640.0
442	412903.0	452	2593750.0	472	5408900.0
443	400243.0	453	2522320.0	473	5291600.0
444	381203.0	454	2447650.0	474	5175240.0
445	367503.0	455	2376270.0	475	5074700.0
446	354228.0	456	2290140.0	476	4956600.0
447	338468.0	457	2226070.0	477	4861490.0
448	327631.0	458	2150390.0	478	4773560.0
449	309186.0	459	2085720.0	479	4634610.0
450	293556.0	460	2016890.0	480	4527790.0
451	284187.0	461	1953090.0	481	4416710.0
452	274307.0	462	1883950.0	482	4345540.0
453	261804.0	463	1825160.0	483	4256110.0
454	251975.0	464	1758430.0	484	4164260.0
455	240734.0	465	1698030.0	485	4054020.0
456	229254.0	466	1640620.0	486	3931260.0
457	223127.0	467	1579310.0	487	3873500.0
458	211575.0	468	1531090.0	488	3758940.0
459	200590.0	469	1472490.0	489	3653430.0
460	193458.0	470	1415330.0	490	3545310.0
461	183528.0	471	1361200.0	491	3454820.0
462	175493.0	472	1323310.0	492	3348550.0
463	168869.0	473	1271100.0	493	3255810.0
464	158825.0	474	1214230.0	494	3180550.0

465	153874.0	475	1166790.0	495	3051210.0
466	145931.0	476	1123900.0	496	2988550.0
467	140022.0	477	1080630.0	497	2892190.0
468	134162.0	478	1043190.0	498	2807720.0
469	127960.0	479	998974.0	499	2713730.0
470	122350.0	480	956362.0	500	2643420.0
471	114454.0	481	920738.0	501	2556970.0
472	109511.0	482	893089.0	502	2501270.0
473	106170.0	483	860555.0	503	2427950.0
474	101181.0	484	826056.0	504	2354130.0
475	97261.2	485	801036.0	505	2277180.0
476	90806.8	486	761693.0	506	2219130.0
477	87751.9	487	736932.0	507	2162800.0
478	83940.8	488	706427.0	508	2092530.0
479	80232.8	489	681197.0	509	2033000.0
480	77280.1	490	650575.0	510	1955610.0
481	73055.6	491	628704.0	511	1903260.0
482	70064.8	492	604391.0	512	1831120.0
483	67132.5	493	584335.0	513	1779980.0
484	64764.4	494	557741.0	514	1727640.0
485	61950.1	495	533343.0	515	1666350.0
486	59294.6	496	518332.0	516	1612190.0
487	56940.7	497	496856.0	517	1553840.0
488	53438.7	498	475385.0	518	1502400.0
489	52981.6	499	451366.0	519	1447300.0
490	49353.5	500	436682.0	520	1408900.0
491	46478.2	501	420579.0	521	1347900.0
492	46054.4	502	403033.0	522	1314990.0
493	43952.7	503	388352.0	523	1266730.0
494	42022.1	504	372877.0	524	1215590.0
495	41170.7	505	364112.0	525	1166270.0
496	38207.2	506	347410.0	526	1129920.0
497	35754.4	507	339524.0	527	1091870.0
498	35374.0	508	324019.0	528	1061470.0
499	33538.8	509	309580.0	529	1024220.0
500	32526.3	510	296829.0	530	980337.0
501	32038.3	511	285049.0	531	948554.0
502	31123.5	512	274059.0	532	911013.0
503	28384.5	513	261074.0	533	877145.0
504	29057.7	514	250713.0	534	845719.0
505	27001.0	515	237848.0	535	827177.0
506	25755.5	516	232742.0	536	788646.0
507	25983.1	517	223558.0	537	756911.0
508	23416.6	518	215120.0	538	736767.0
509	23615.3	519	200346.0	539	709323.0

510	22148.0	520	192486.0	540	684774.0
511	22143.6	521	186176.0	541	647057.0
512	20808.1	522	182635.0	542	632321.0
513	19142.2	523	174947.0	543	611367.0
514	19286.4	524	170005.0	544	590695.0
515	19050.5	525	160577.0	545	567864.0
516	18201.1	526	152945.0	546	548216.0
517	18234.3	527	145218.0	547	528554.0
518	17123.8	528	139232.0	548	510716.0
519	16968.4	529	137924.0	549	493194.0
520	16053.9	530	130223.0	550	469256.0
521	15551.3	531	123018.0	551	460404.0
522	14973.2	532	118429.0	552	443515.0
523	14599.4	533	114104.0	553	431758.0
524	13662.0	534	109536.0	554	412408.0
525	12536.5	535	104892.0	555	399907.0
526	13153.8	536	99098.7	556	384084.0
527	12595.0	537	96080.9	557	374615.0
528	11981.0	538	92104.3	558	360956.0
529	12116.3	539	88471.3	559	339789.0
530	10746.1	540	85849.0	560	333609.0
531	11417.1	541	81971.1	561	325886.0
532	10470.0	542	79617.4	562	308378.0
533	10538.2	543	74123.4	563	297966.0
534	9625.9	544	74444.7	564	284229.0
535	9452.1	545	70408.8	565	273293.0
536	10844.3	546	69608.4	566	265436.0
537	9590.5	547	65411.7	567	258412.0
538	10085.7	548	61639.8	568	249247.0
539	9137.7	549	58442.3	569	234862.0
540	8941.3	550	58880.6	570	226505.0
541	8171.4	551	55677.0	571	218547.0
542	7716.7	552	53152.4	572	211594.0
543	8334.3	553	53283.0	573	205937.0
544	8241.5	554	49686.8	574	195887.0
545	7909.6	555	47627.3	575	191063.0
546	7307.3	556	47241.8	576	179007.0
547	7508.2	557	45783.8	577	175074.0
548	6892.0	558	43822.7	578	167139.0
549	6941.4	559	41913.3	579	161659.0
550	6758.7	560	41154.7	580	159775.0
551	7129.9	561	38152.9	581	146717.0
552	6672.6	562	38320.5	582	146100.0
553	6709.1	563	34587.2	583	136353.0
554	6581.4	564	34964.3	584	132713.0

555	5724.6	565	33006.6	585	127177.0
556	6281.7	566	32116.0	586	119481.0
557	6446.7	567	31829.8	587	119767.0
558	6003.5	568	29701.8	588	114918.0
559	6050.4	569	29070.3	589	109723.0
560	6192.6	570	29262.7	590	102243.0
561	5732.2				
562	5905.0				
563	6563.7				
564	5690.4				
565	5598.2				
566	5872.8				
567	5566.3				
568	4724.6				
569	5512.9				
570	5147.4				

Emission spectra results in the thin film

Compound 6a		Compound 6b		Compound 6c	
Wavelength, nm	Fluorescence intensity	Wavelength, nm	Fluorescence intensity	Wavelength, nm	Fluorescence intensity
340	24291.3	350	25009.1	370	22566.5
341	22576.9	351	25328.5	371	20368.7
342	20935.1	352	23821.3	372	18756.8
343	19880.1	353	22710.1	373	17295.1
344	19455.9	354	21986.1	374	16468.9
345	18861.8	355	20315.8	375	14600.3
346	18369.3	356	20822.9	376	13359.3
347	16917.9	357	20166.0	377	12933.6
348	17285.3	358	20096.1	378	12120.3
349	16776.5	359	21083.6	379	10992.5
350	17606.3	360	21555.9	380	10441.2
351	17086.6	361	23663.9	381	10222.5
352	18366.6	362	26300.9	382	9616.3
353	19075.1	363	29401.7	383	10404.1
354	20228.8	364	34837.5	384	10372.4
355	21921.5	365	40295.1	385	11019.4
356	23223.9	366	47126.4	386	11964.9
357	24226.8	367	57126.2	387	15787.9
358	25130.0	368	66900.0	388	18245.7
359	26450.2	369	79542.6	389	18372.9
360	27243.7	370	94423.6	390	18856.5
361	28529.6	371	109852.0	391	22002.6

362	28970.8	372	126764.0	392	27116.7
363	30027.0	373	148661.0	393	32418.7
364	31519.1	374	166098.0	394	39245.5
365	31936.7	375	183374.0	395	47311.9
366	32189.5	376	205057.0	396	59374.8
367	33650.7	377	226802.0	397	73737.3
368	33009.9	378	247807.0	398	88095.7
369	33561.3	379	267991.0	399	107289.0
370	34169.7	380	289282.0	400	129242.0
371	34603.1	381	308424.0	401	155985.0
372	35016.0	382	328618.0	402	187384.0
373	35634.7	383	344840.0	403	219811.0
374	36490.6	384	360102.0	404	251999.0
375	36283.4	385	377067.0	405	294665.0
376	36102.1	386	392077.0	406	333563.0
377	37417.9	387	406234.0	407	378495.0
378	37274.8	388	422787.0	408	426625.0
379	37350.4	389	434770.0	409	468483.0
380	37213.4	390	449232.0	410	522121.0
381	37460.0	391	464692.0	411	563666.0
382	38789.1	392	487970.0	412	615406.0
383	37905.2	393	503288.0	413	661197.0
384	37086.6	394	527694.0	414	702896.0
385	36545.3	395	548497.0	415	745022.0
386	38247.0	396	565942.0	416	783067.0
387	36030.6	397	591211.0	417	806414.0
388	36958.9	398	613171.0	418	841930.0
389	35698.6	399	639075.0	419	860481.0
390	35707.1	400	659050.0	420	882917.0
391	33912.5	401	683155.0	421	909071.0
392	34368.5	402	704062.0	422	934495.0
393	35110.4	403	730849.0	423	951067.0
394	35124.9	404	752673.0	424	970954.0
395	34864.9	405	766624.0	425	988249.0
396	34359.6	406	781953.0	426	998776.0
397	33674.3	407	796213.0	427	1013570.0
398	33834.7	408	810862.0	428	1032380.0
399	33702.7	409	830262.0	429	1058020.0
400	33638.4	410	838948.0	430	1066700.0
401	32766.4	411	842645.0	431	1096360.0
402	33070.0	412	850817.0	432	1110630.0
403	33712.9	413	858632.0	433	1131380.0
404	32574.7	414	862470.0	434	1147970.0
405	32409.6	415	867312.0	435	1168730.0
406	33155.6	416	865770.0	436	1172130.0

407	32756.1	417	864609.0	437	1186640.0
408	32253.9	418	865995.0	438	1200360.0
409	32805.1	419	853869.0	439	1212040.0
410	32485.7	420	847007.0	440	1224050.0
411	33540.2	421	848393.0	441	1234710.0
412	32051.0	422	853740.0	442	1237730.0
413	32344.3	423	848983.0	443	1248940.0
414	31640.8	424	847560.0	444	1246980.0
415	31335.5	425	848015.0	445	1250990.0
416	31429.5	426	845801.0	446	1250660.0
417	30998.0	427	850550.0	447	1244300.0
418	30050.3	428	848534.0	448	1240030.0
419	30969.8	429	846887.0	449	1224160.0
420	31450.4	430	841989.0	450	1225170.0
421	31185.9	431	845786.0	451	1214010.0
422	29654.7	432	841514.0	452	1211270.0
423	28742.7	433	840273.0	453	1192670.0
424	28336.9	434	832461.0	454	1186270.0
425	28349.6	435	828938.0	455	1180740.0
426	27502.8	436	816075.0	456	1168820.0
427	26687.0	437	813969.0	457	1156840.0
428	26465.1	438	800839.0	458	1145140.0
429	26834.4	439	798276.0	459	1142210.0
430	27177.7	440	786947.0	460	1127830.0
431	27341.1	441	777969.0	461	1124850.0
432	26815.4	442	774657.0	462	1113730.0
433	26432.1	443	768884.0	463	1111010.0
434	26865.4	444	749980.0	464	1102440.0
435	26225.2	445	747209.0	465	1099380.0
436	26958.6	446	736018.0	466	1092250.0
437	27552.8	447	731180.0	467	1087740.0
438	26855.5	448	719441.0	468	1077490.0
439	26494.5	449	703542.0	469	1076370.0
440	26197.7	450	695903.0	470	1070140.0
441	26210.2	451	683734.0	471	1059310.0
442	26148.7	452	675425.0	472	1056310.0
443	26983.4	453	664660.0	473	1035580.0
444	26741.8	454	652340.0	474	1033810.0
445	26310.6	455	651399.0	475	1025290.0
446	25751.1	456	634972.0	476	1021730.0
447	25489.4	457	628652.0	477	1002000.0
448	25396.5	458	620392.0	478	998331.0
449	26126.9	459	612606.0	479	979080.0
450	25923.6	460	607613.0	480	963559.0
451	26851.2	461	602724.0	481	966927.0

452	25502.5	462	592156.0	482	957249.0
453	25313.3	463	587126.0	483	941964.0
454	24795.5	464	578746.0	484	936673.0
455	24736.4	465	577543.0	485	922883.0
456	24662.0	466	566751.0	486	913082.0
457	23852.5	467	565408.0	487	912634.0
458	24596.6	468	558874.0	488	894297.0
459	24691.5	469	550635.0	489	887642.0
460	24613.5	470	546066.0	490	875015.0
461	24960.9	471	534579.0	491	867966.0
462	24989.0	472	530888.0	492	866199.0
463	23796.6	473	524927.0	493	850081.0
464	24934.8	474	506517.0	494	842349.0
465	25335.9	475	498768.0	495	830387.0
466	25135.1	476	494980.0	496	824892.0
467	25392.2	477	489945.0	497	816176.0
468	26360.2	478	480858.0	498	805174.0
469	25255.1	479	472990.0	499	788590.0
470	25011.6	480	460798.0	500	781566.0
471	23781.1	481	455948.0	501	774942.0
472	24349.8	482	457013.0	502	772713.0
473	24174.2	483	445481.0	503	764879.0
474	23972.5	484	441675.0	504	754671.0
475	22868.8	485	433815.0	505	747321.0
476	22500.0	486	431092.0	506	740153.0
477	21157.8	487	422001.0	507	731616.0
478	22863.9	488	414046.0	508	721037.0
479	22638.6	489	410263.0	509	718679.0
480	21465.0	490	407865.0	510	697720.0
481	22021.2	491	398648.0	511	690031.0
482	21868.4	492	398483.0	512	685397.0
483	21786.3	493	391502.0	513	677593.0
484	22761.9	494	384992.0	514	664898.0
485	21667.3	495	379217.0	515	661001.0
486	21618.8	496	375553.0	516	646279.0
487	20884.2	497	367399.0	517	635149.0
488	19911.4	498	362127.0	518	633150.0
489	20573.2	499	361626.0	519	626205.0
490	20768.1	500	359420.0	520	611818.0
491	20449.4	501	347284.0	521	601477.0
492	20894.6	502	344919.0	522	597304.0
493	19702.8	503	344425.0	523	582201.0
494	19410.8	504	335566.0	524	567080.0
495	19655.7	505	334953.0	525	565887.0
496	19054.3	506	330863.0	526	558403.0

497	18048.1	507	324158.0	527	551126.0
498	18378.8	508	320095.0	528	538759.0
499	19703.4	509	318317.0	529	535429.0
500	19459.6	510	309716.0	530	526961.0
501	18942.6	511	306053.0	531	514902.0
502	19186.9	512	303669.0	532	505385.0
503	18506.0	513	296306.0	533	500426.0
504	18959.3	514	298108.0	534	498468.0
505	19069.7	515	293174.0	535	483931.0
506	18454.7	516	286546.0	536	483476.0
507	17636.3	517	279103.0	537	471747.0
508	17682.1	518	275364.0	538	467414.0
509	17562.7	519	271371.0	539	459642.0
510	17646.7	520	266496.0	540	451121.0
511	17734.4	521	263569.0	541	441635.0
512	17097.8	522	260126.0	542	440755.0
513	16983.1	523	252438.0	543	433746.0
514	17457.1	524	249569.0	544	429346.0
515	16844.2	525	248683.0	545	420788.0
516	16912.3	526	241976.0	546	414299.0
517	18003.1	527	237168.0	547	403550.0
518	16826.0	528	232710.0	548	402719.0
519	17550.6	529	233066.0	549	387479.0
520	16558.9	530	227697.0	550	387310.0
521	15979.4	531	228011.0	551	384615.0
522	15473.9	532	221215.0	552	379410.0
523	14504.2	533	220493.0	553	368804.0
524	16228.4	534	215489.0	554	363882.0
525	14858.9	535	214608.0	555	361115.0
526	15020.5	536	215472.0	556	352623.0
527	14983.9	537	205993.0	557	351151.0
528	15473.6	538	203685.0	558	347609.0
529	15048.6	539	199676.0	559	342061.0
530	15323.0	540	199030.0	560	333664.0
531	14909.8	541	191372.0	561	331058.0
532	15745.8	542	191464.0	562	327615.0
533	15509.4	543	189004.0	563	325097.0
534	15231.3	544	184110.0	564	314749.0
535	14144.6	545	185939.0	565	309037.0
536	14702.9	546	177217.0	566	307298.0
537	15009.6	547	180277.0	567	301988.0
538	14669.2	548	169447.0	568	297907.0
539	14733.3	549	168756.0	569	297912.0
540	15148.7	550	168154.0	570	289309.0
541	14417.4	551	161784.0	571	279514.0

542	15476.0	552	162727.0	572	279471.0
543	15718.6	553	156735.0	573	273889.0
544	14718.6	554	156915.0	574	267263.0
545	14352.0	555	152356.0	575	266226.0
546	13719.1	556	153867.0	576	260596.0
547	14175.1	557	148657.0	577	253719.0
548	14126.9	558	146239.0	578	254225.0
549	15388.3	559	144996.0	579	252259.0
550	13953.4	560	142728.0	580	250138.0
551	13821.5	561	138741.0	581	245160.0
552	12857.4	562	139178.0	582	237469.0
553	13734.5	563	131811.0	583	235239.0
554	13912.5	564	135728.0	584	225968.0
555	13898.1	565	129642.0	585	233067.0
556	14533.3	566	127238.0	586	224216.0
557	12660.1	567	125772.0	587	218660.0
558	13098.5	568	123650.0	588	220222.0
559	12461.4	569	120400.0	589	214959.0
560	13162.4	570	117167.0	590	209458.0
561	13080.4	571	116213.0	591	205486.0
562	12827.0	572	113631.0	592	207084.0
563	13278.6	573	109861.0	593	194480.0
564	12675.6	574	113354.0	594	197767.0
565	12659.1	575	109138.0	595	191644.0
566	13038.5	576	106535.0	596	185176.0
567	12260.8	577	103350.0	597	186702.0
568	14008.6	578	107755.0	598	181922.0
569	12817.2	579	102886.0	599	175707.0
570	12703.0	580	102665.0	600	179875.0
571	14659.8	581	101695.0	601	172763.0
572	12650.3	582	94404.0	602	174057.0
573	13064.2	583	95103.6	603	172313.0
574	12919.3	584	97817.5	604	171224.0
575	12702.1	585	88948.8	605	171168.0
576	12136.8	586	91274.1	606	163849.0
577	12108.9	587	89252.3	607	159638.0
578	12902.7	588	88447.0	608	155036.0
579	12507.5	589	88160.4	609	160040.0
580	12807.4	590	83039.4	610	150140.0
581	12956.4	591	85340.0	611	152622.0
582	13265.8	592	84172.6	612	149450.0
583	12680.7	593	82625.1	613	145264.0
584	11900.7	594	80216.8	614	144920.0
585	12886.1	595	80855.5	615	141547.0
586	12236.7	596	80282.1	616	135705.0

587	11887.0	597	76033.0	617	132777.0
588	12606.4	598	75681.7	618	129134.0
589	12192.2	599	75430.3	619	134367.0
590	12443.6	600	76228.9	620	134836.0