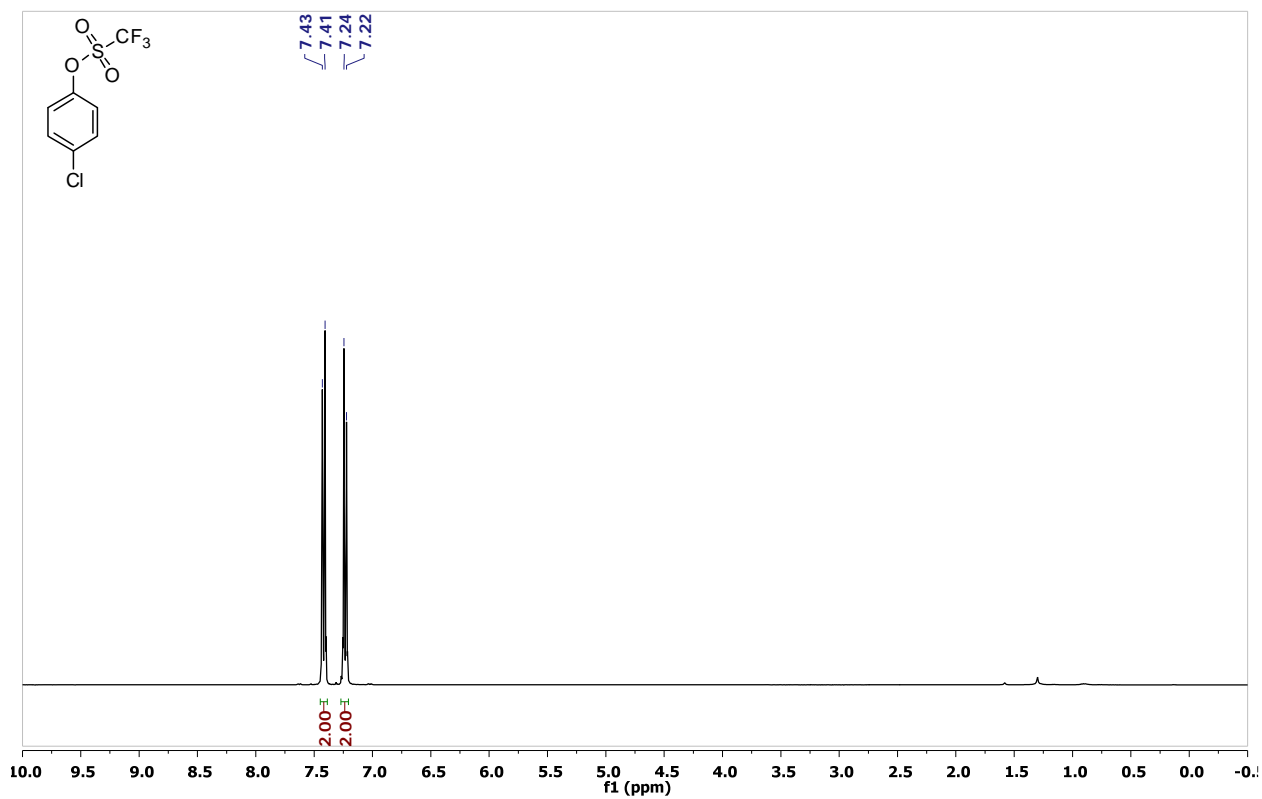
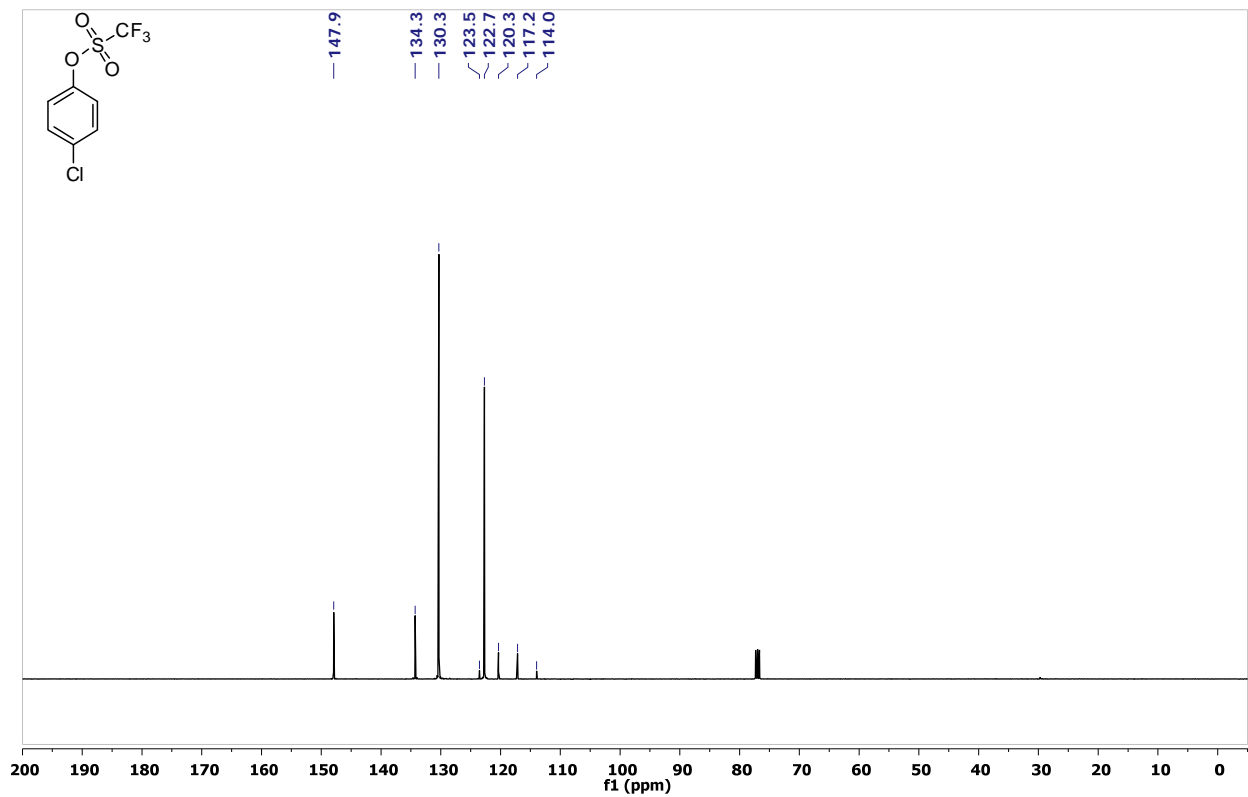


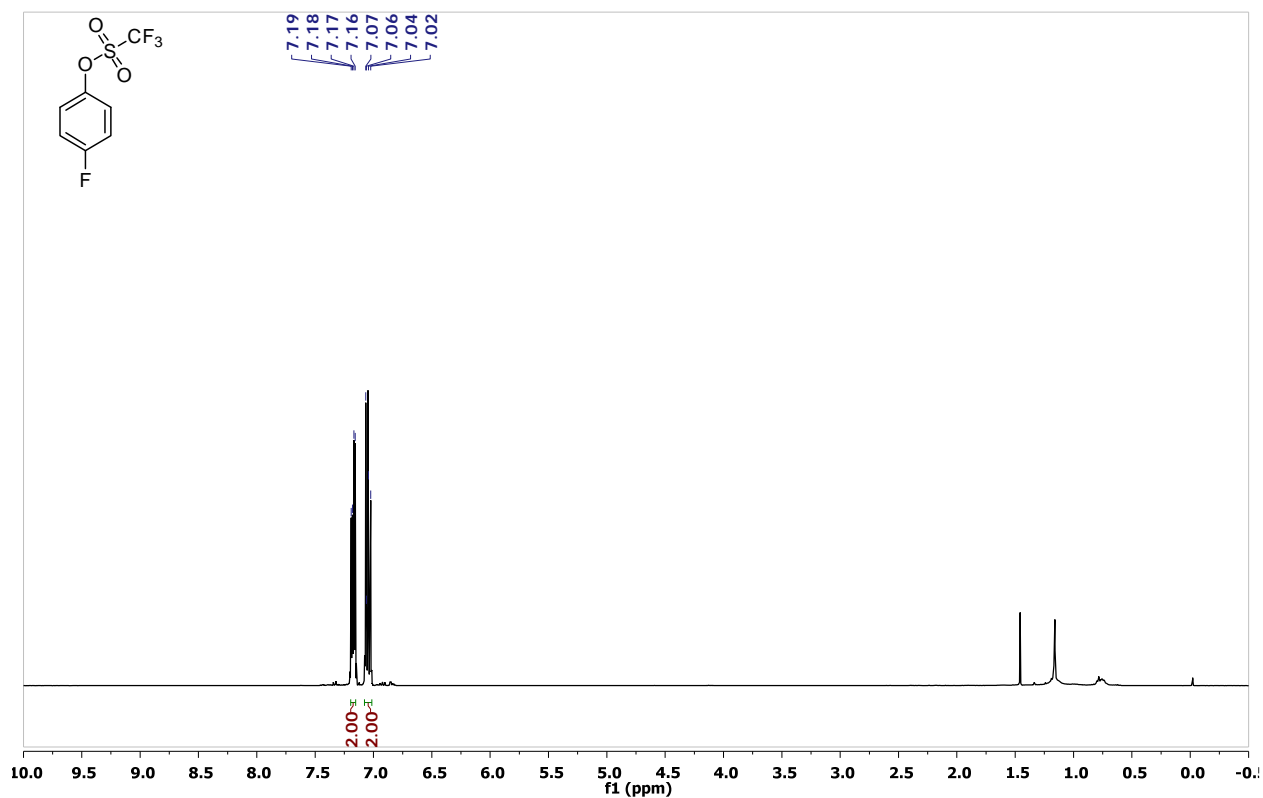
4-chlorophenyl trifluoromethanesulfonate (1c) ^1H NMR-400 MHz, CDCl_3



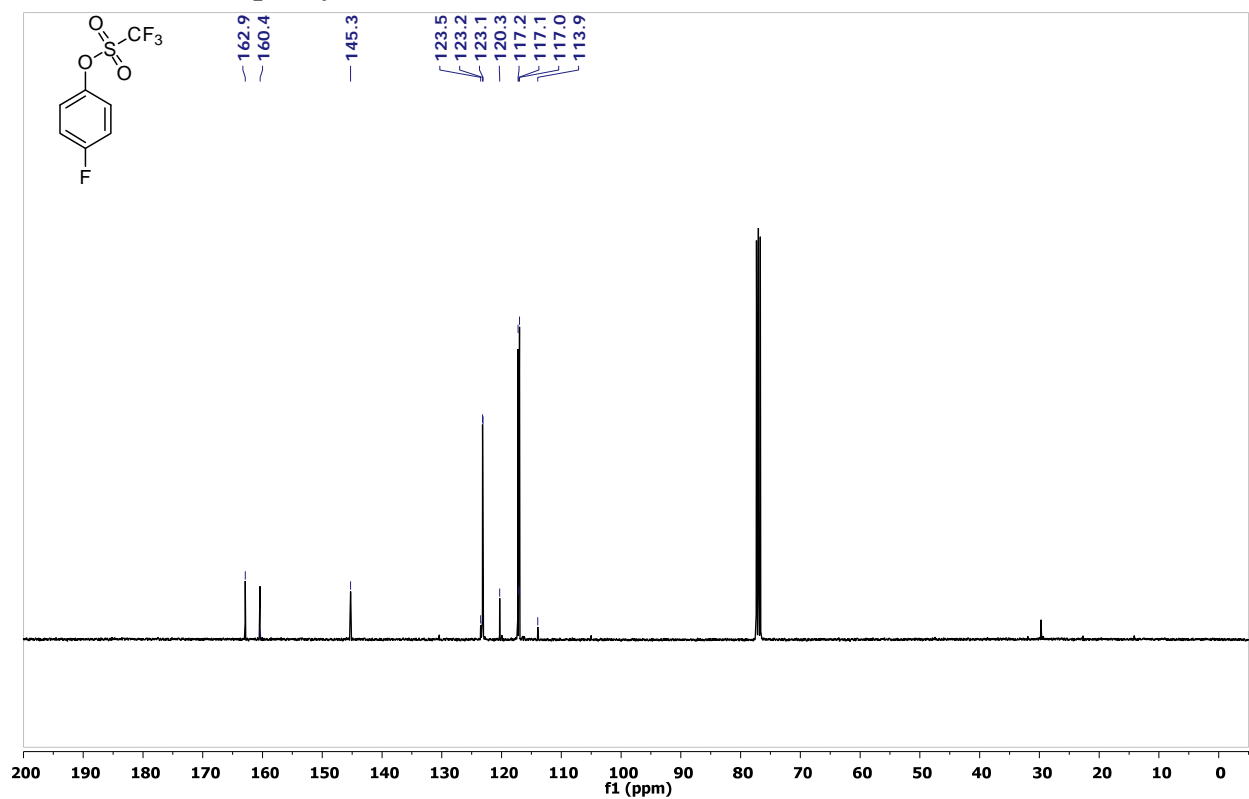
4-chlorophenyl trifluoromethanesulfonate (1c) ^{13}C NMR-101 MHz, CDCl_3



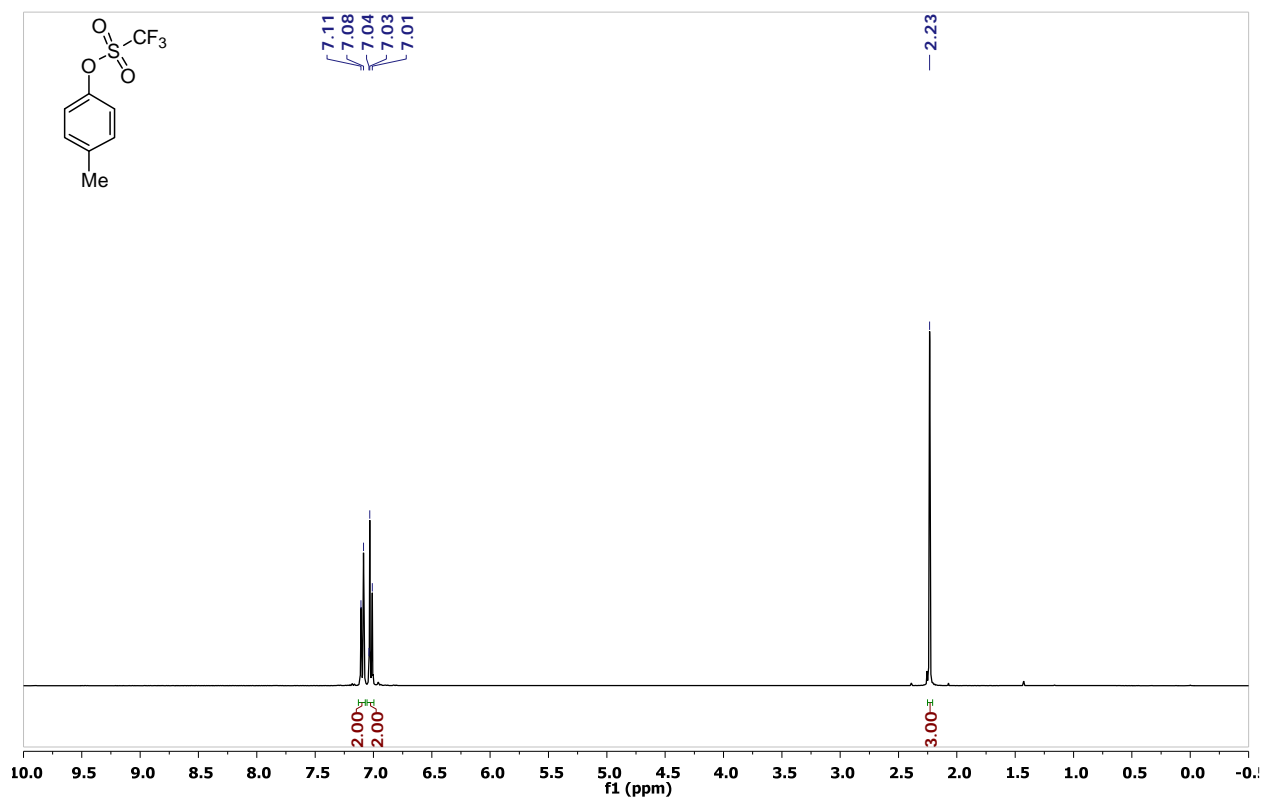
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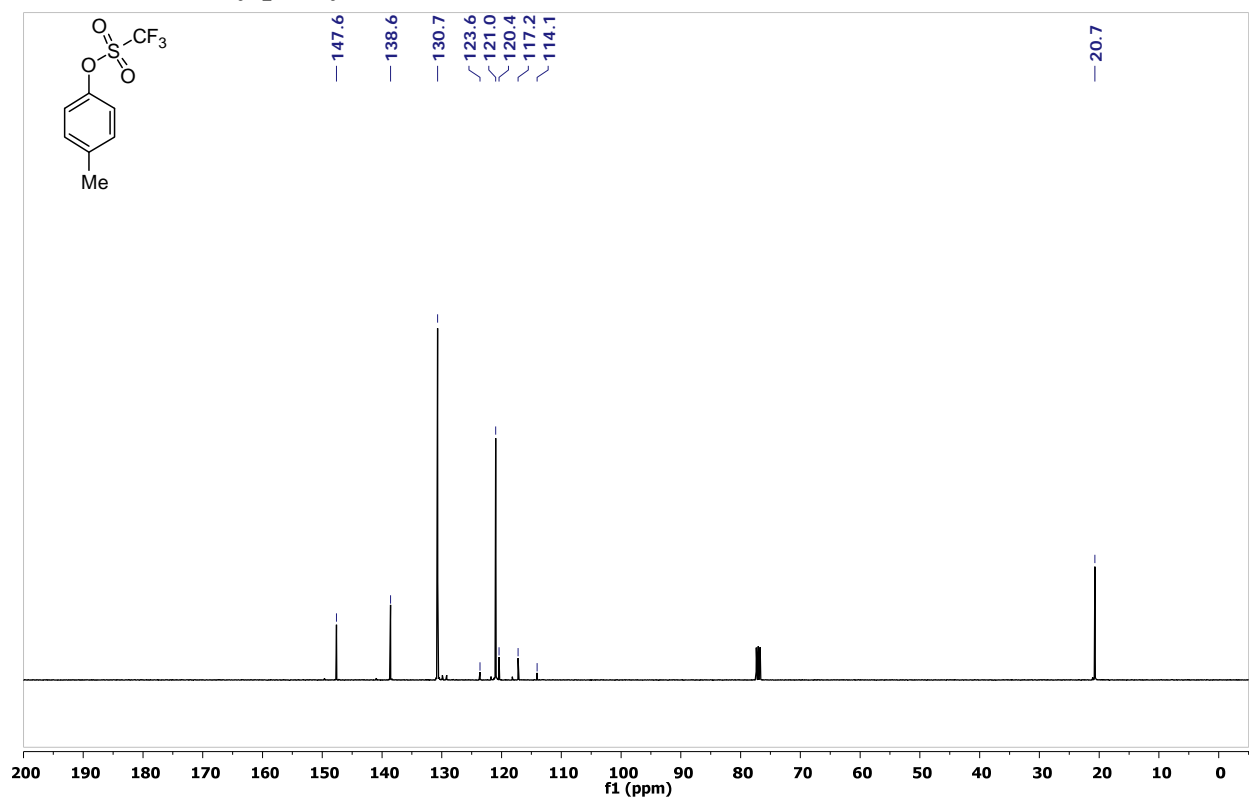
4-fluorophenyl trifluoromethanesulfonate (1d) ^{13}C NMR-101 MHz, CDCl_3



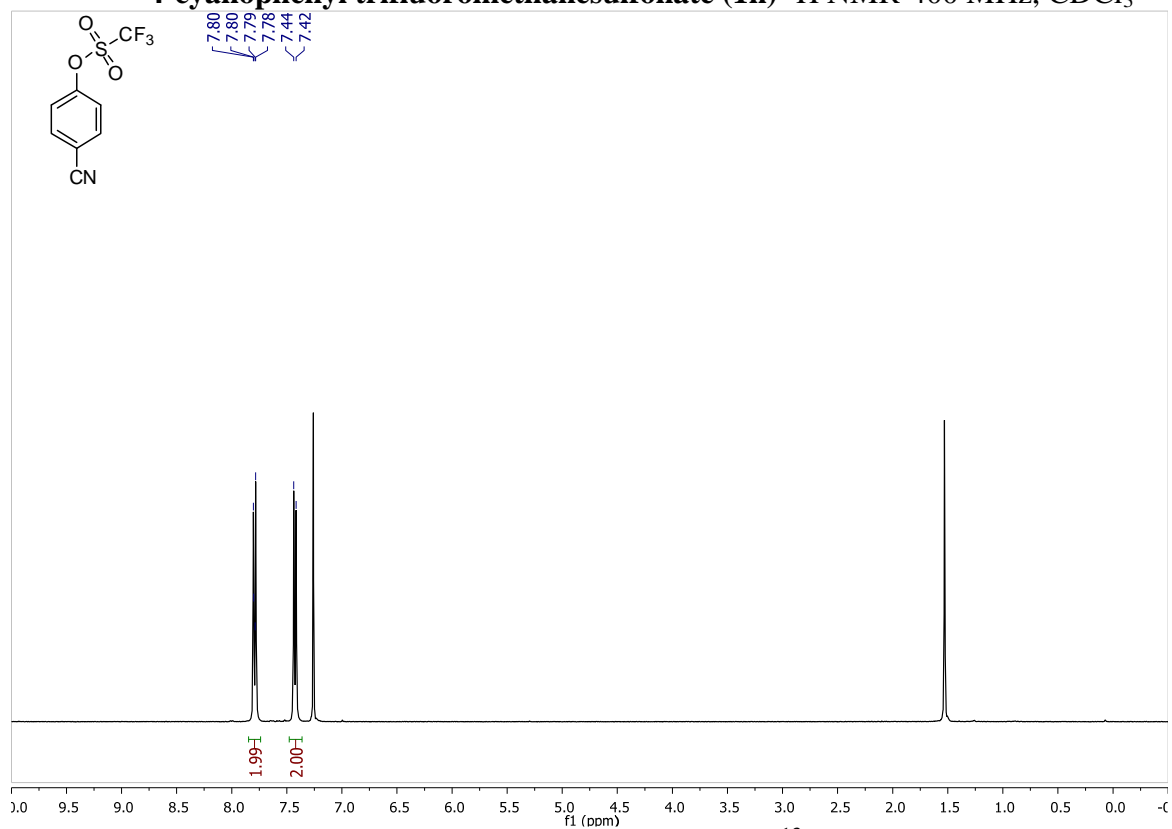
4-methylphenyl trifluoromethanesulfonate (1f) ^1H NMR-400 MHz, CDCl_3



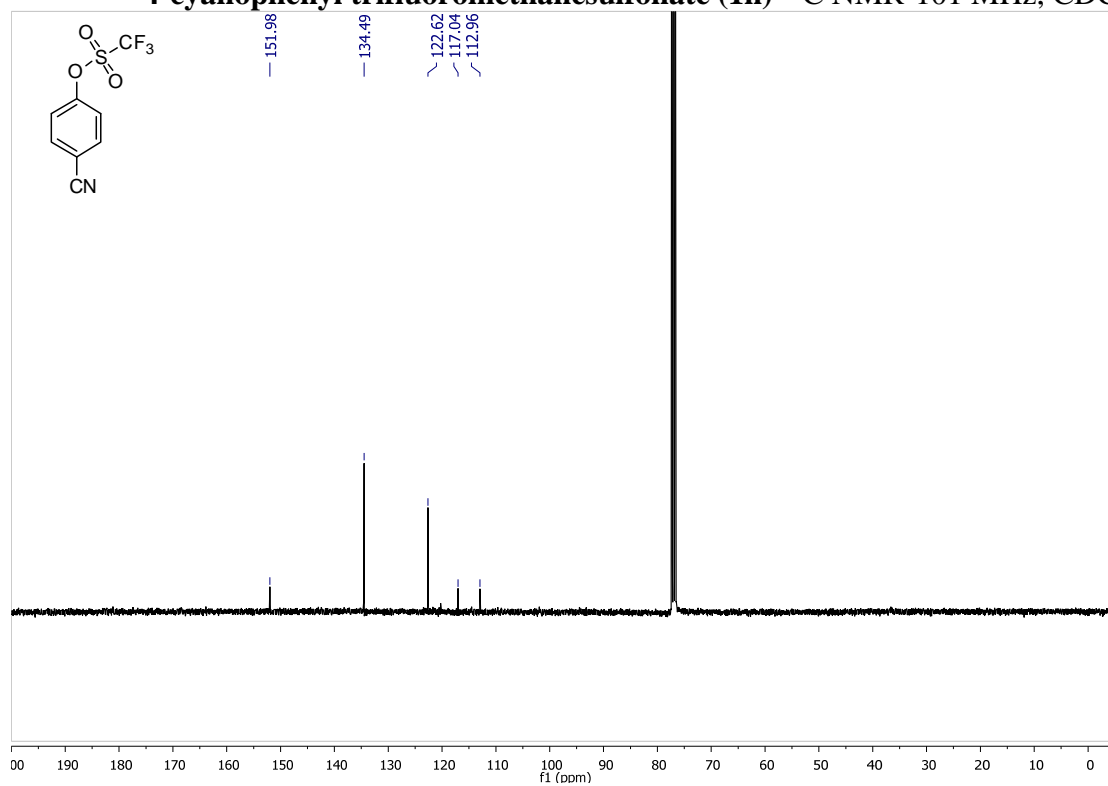
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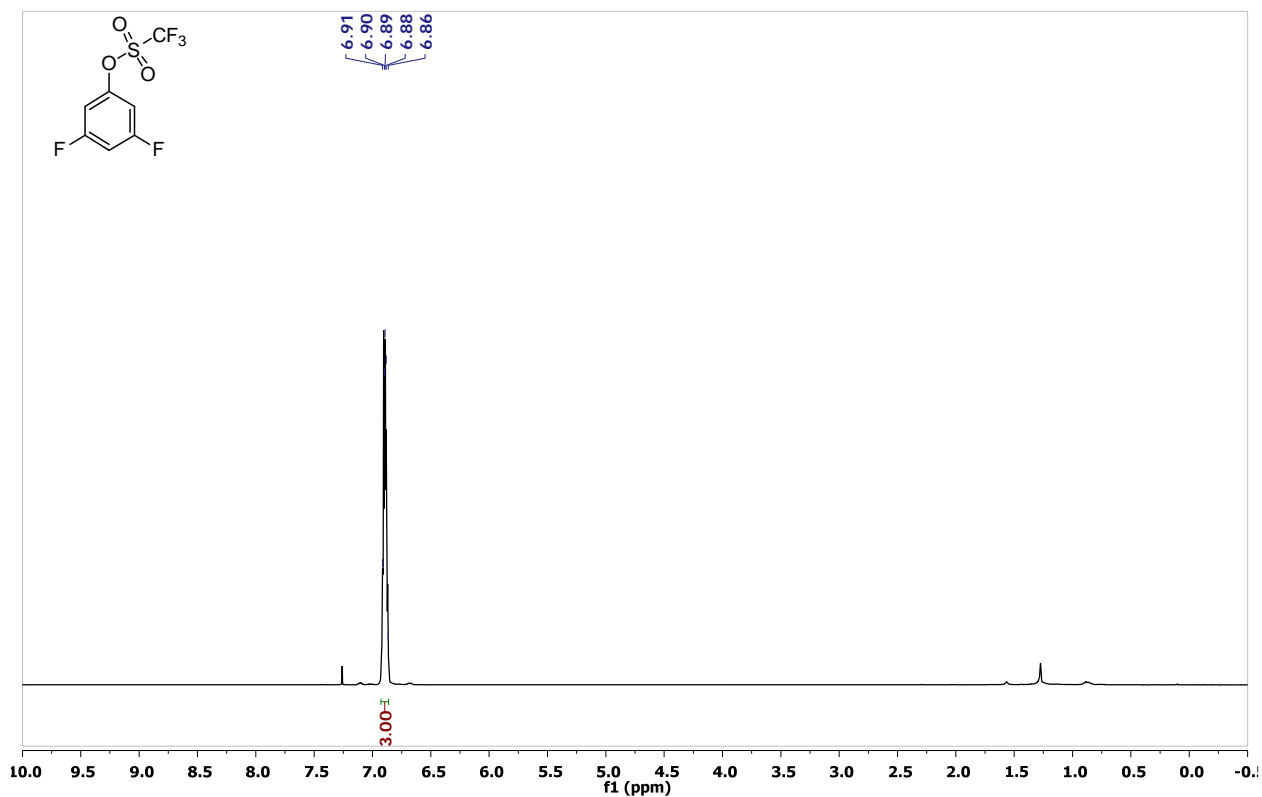
4-cyanophenyl trifluoromethanesulfonate (1h) ^1H NMR-400 MHz, CDCl_3



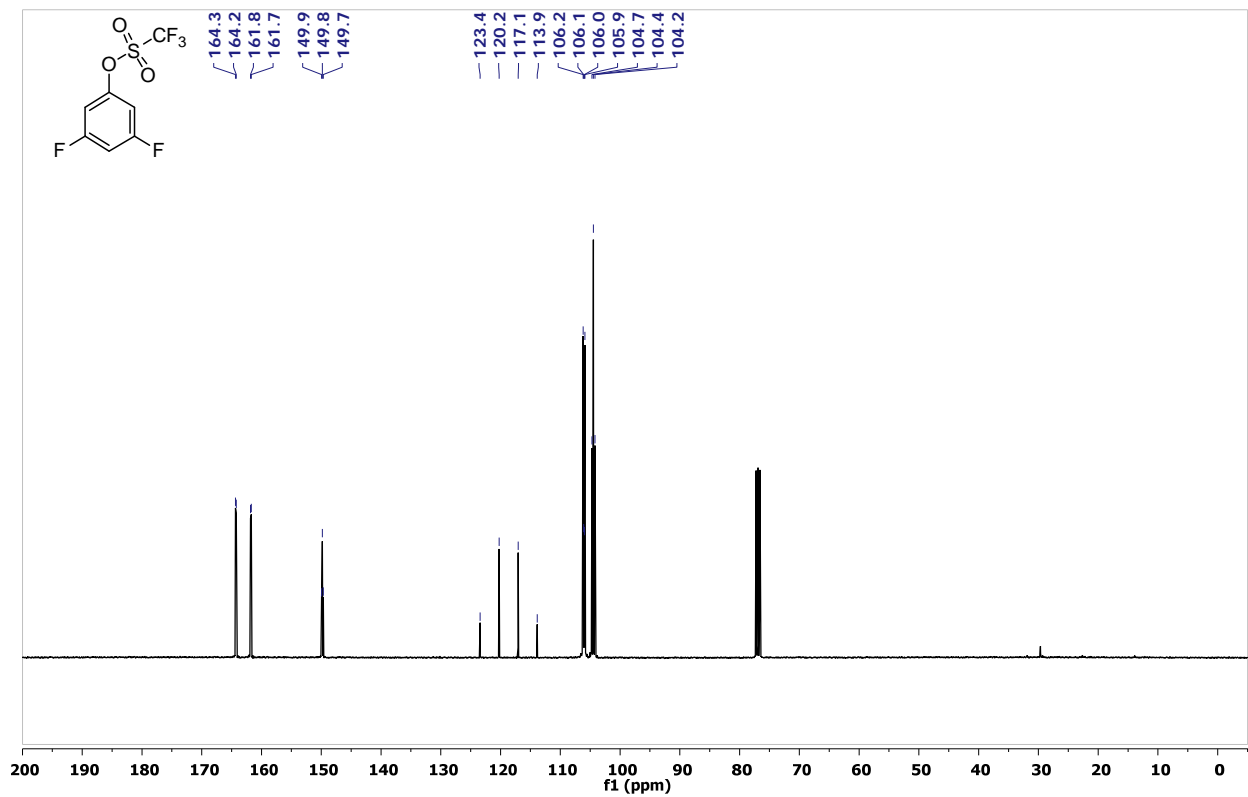
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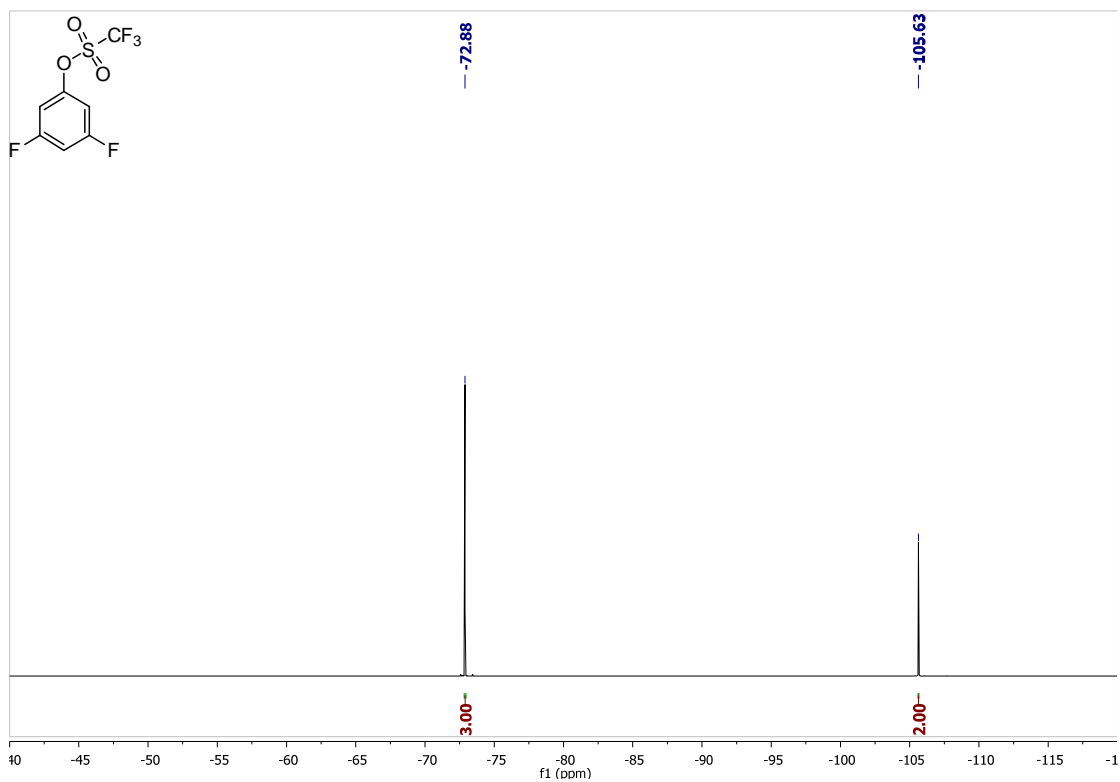
3,5-difluorophenyl trifluoromethanesulfonate (1j) ^1H NMR-400 MHz, CDCl_3



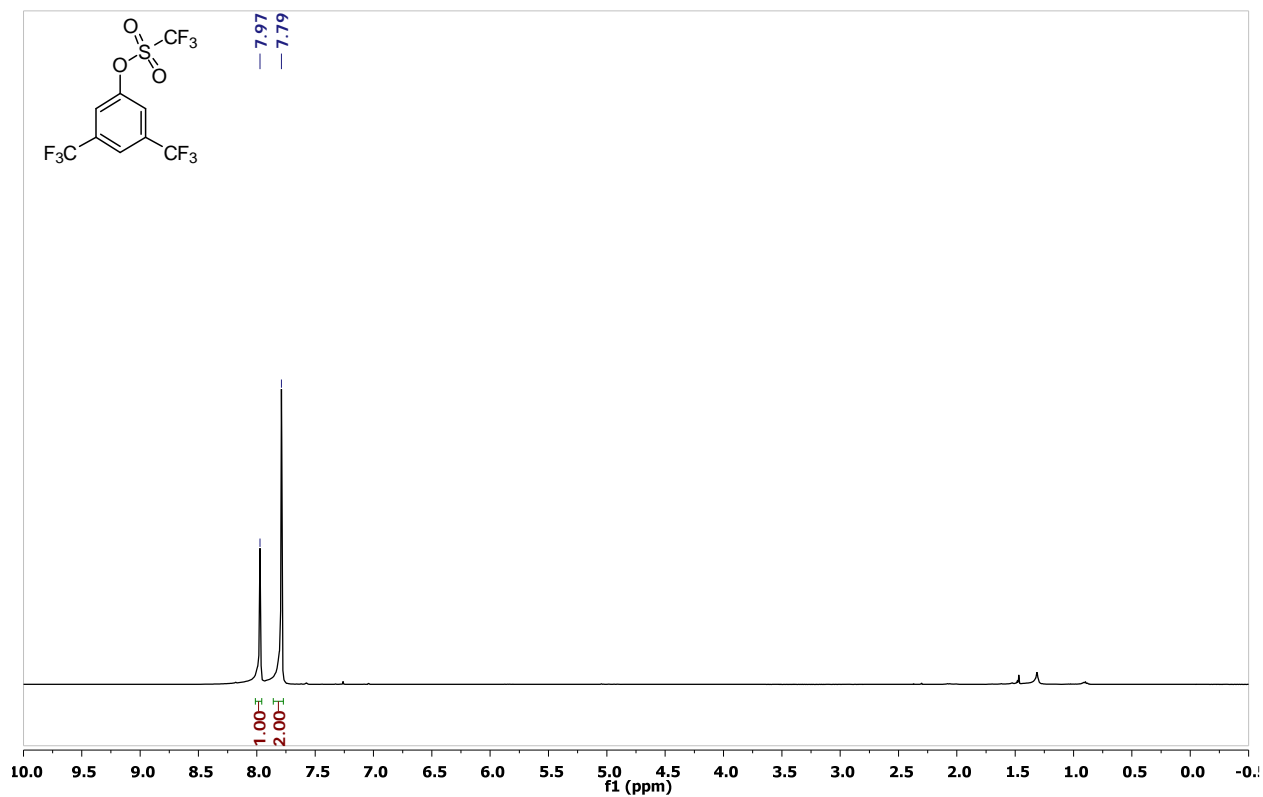
3,5-difluorophenyl trifluoromethanesulfonate (1j) ^{13}C NMR-101MHz, CDCl_3



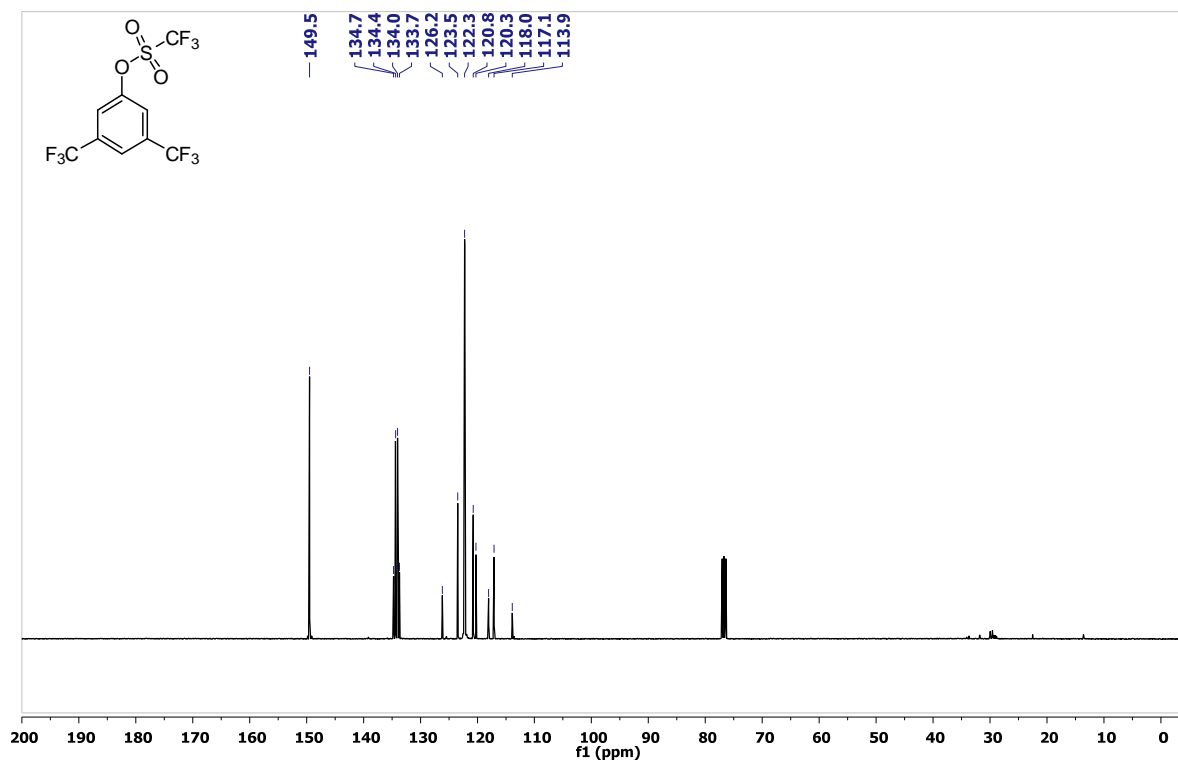
3,5-difluorophenyl trifluoromethanesulfonate (1j) ^{19}F NMR-376 MHz, CDCl_3



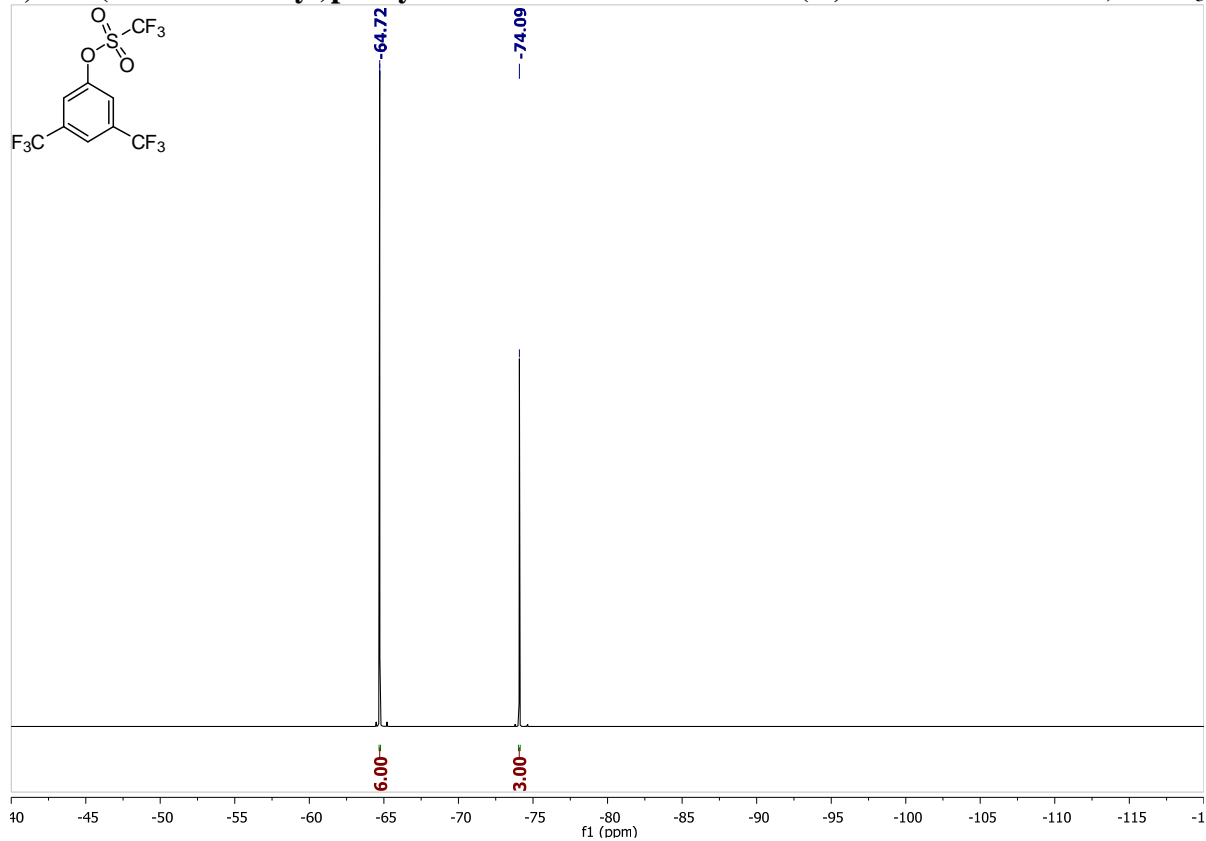
3,5-bis(trifluoromethyl)phenyl trifluoromethanesulfonate (1l) ^1H NMR-400 MHz, CDCl_3



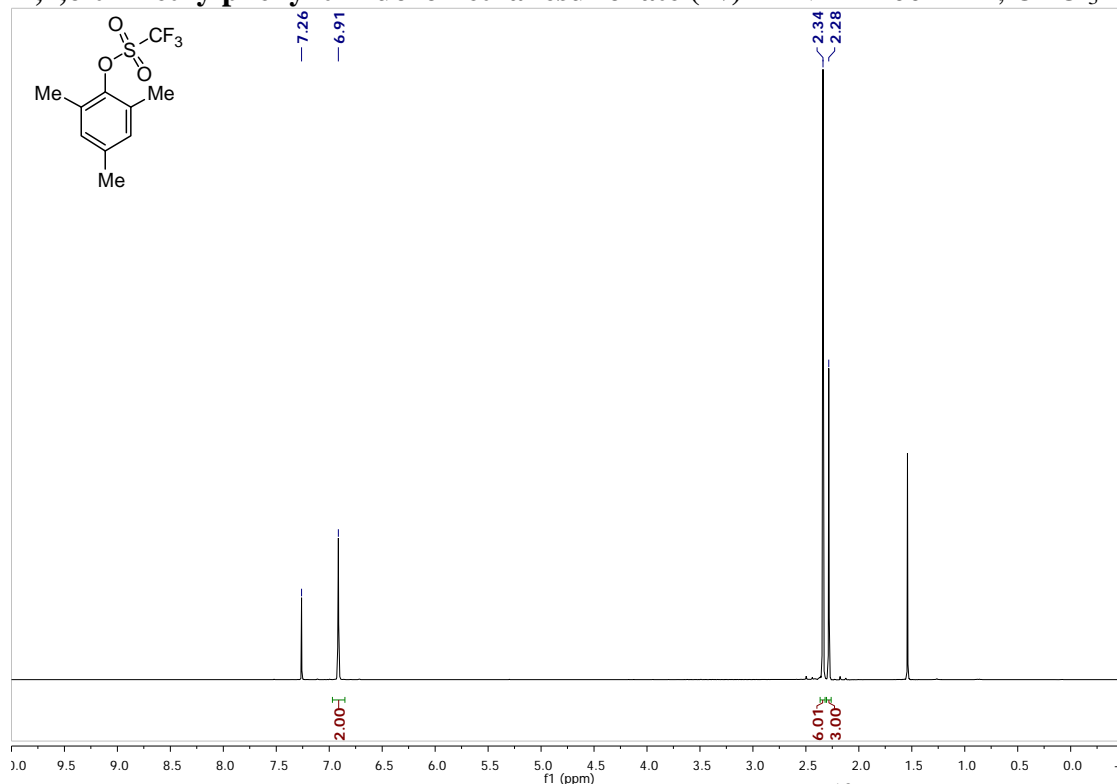
3,5-bis(trifluoromethyl)phenyl trifluoromethanesulfonate (1) ^{13}C NMR-101MHz, CDCl_3



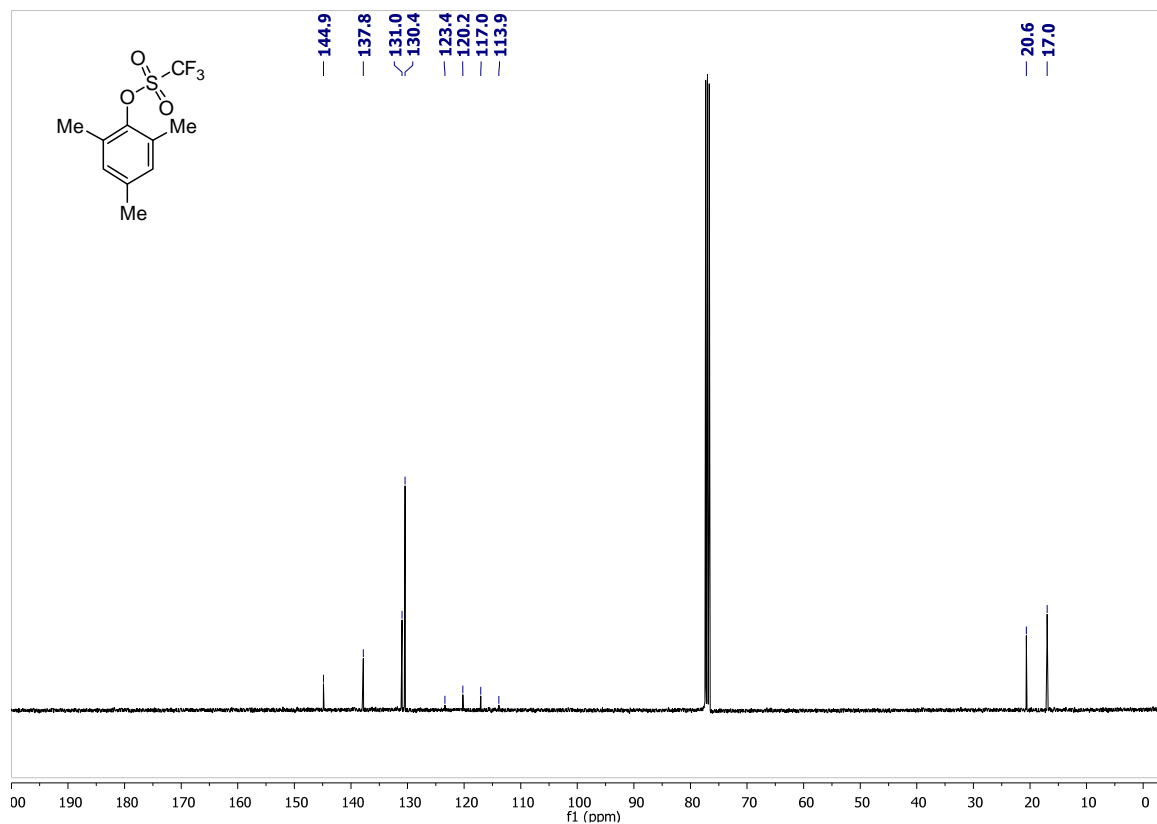
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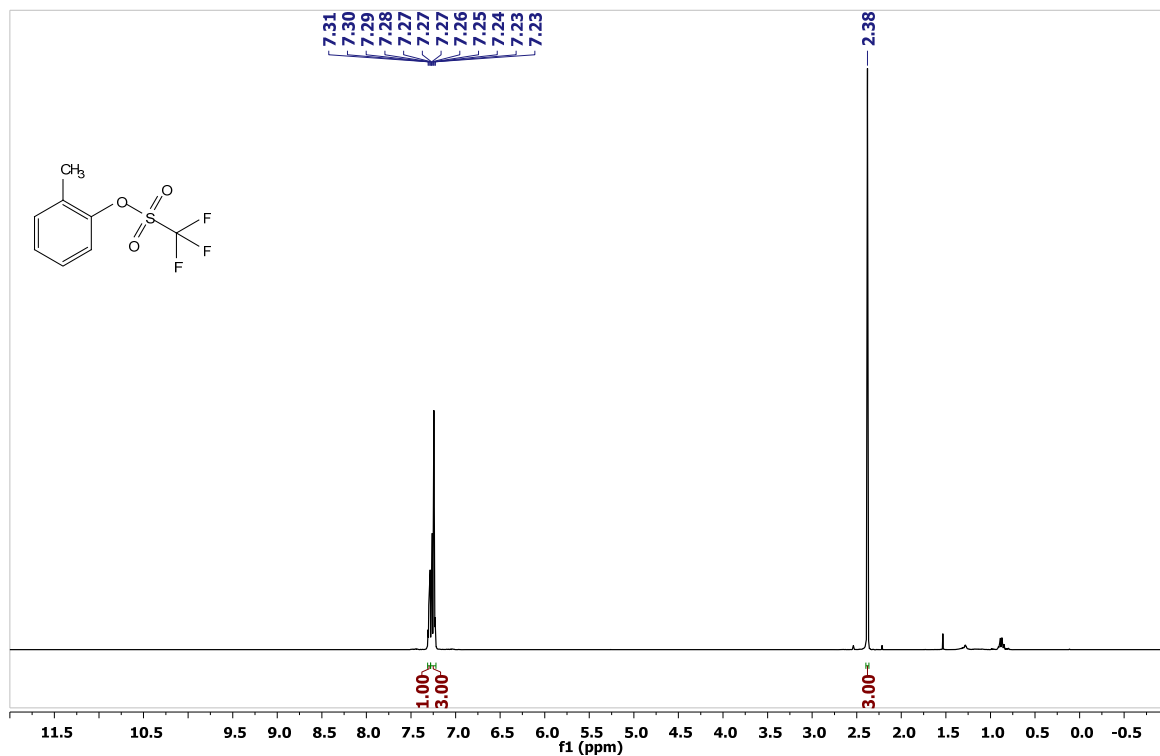
2,4,6-trimethylphenyl trifluoromethanesulfonate (1v) ^1H NMR-400 MHz, CDCl_3



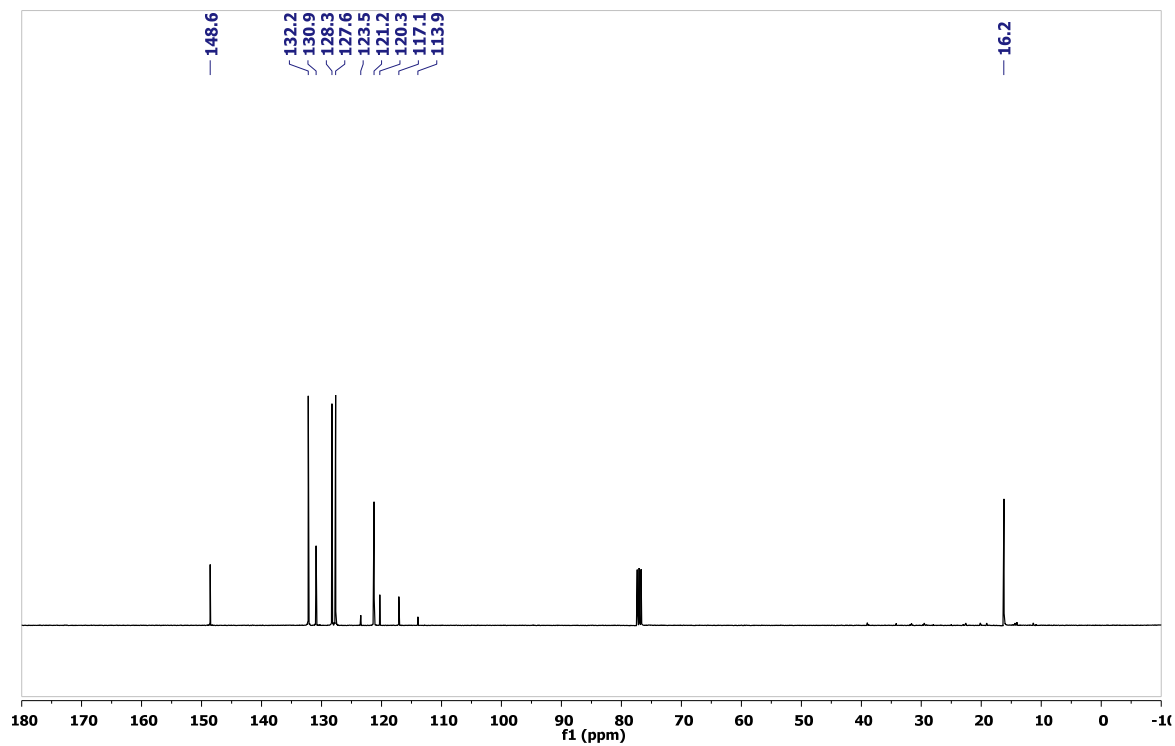
2,4,6-trimethylphenyl trifluoromethanesulfonate (1v) ^{13}C NMR-101MHz, CDCl_3

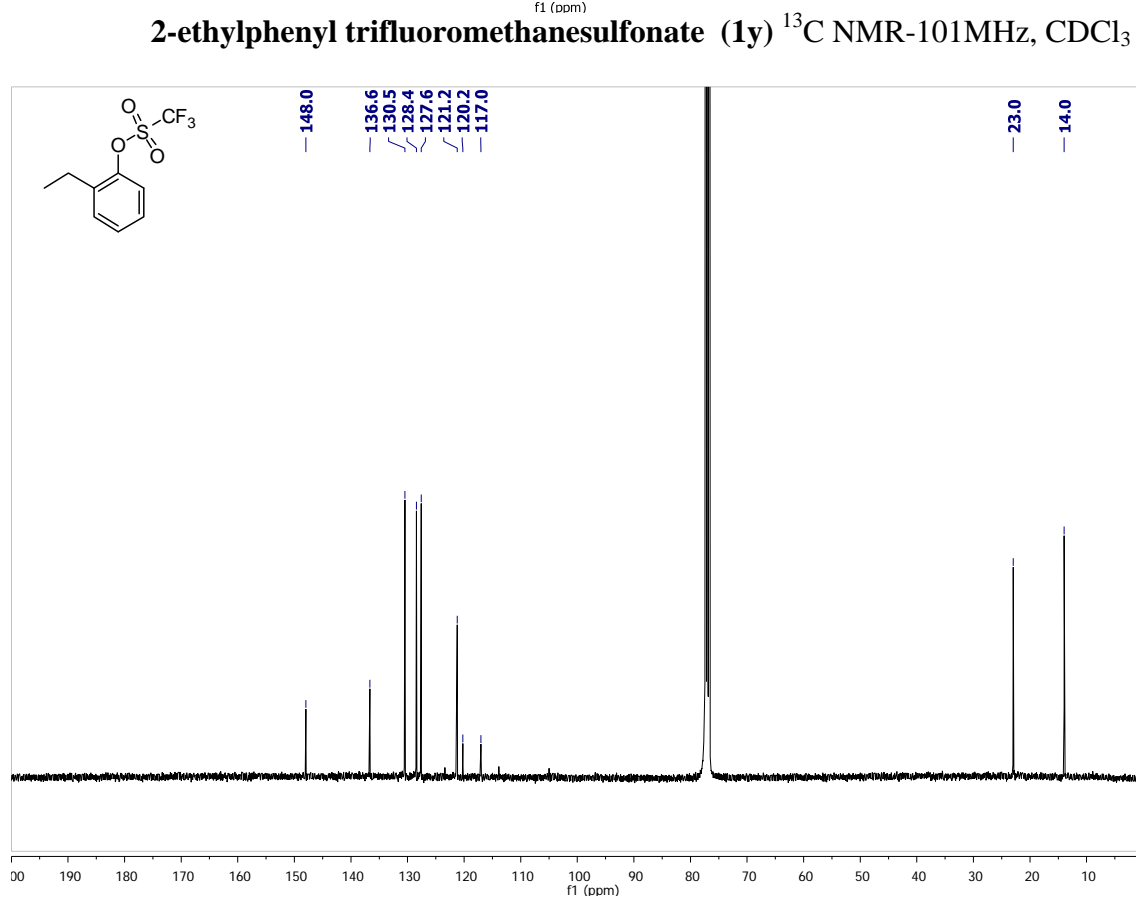
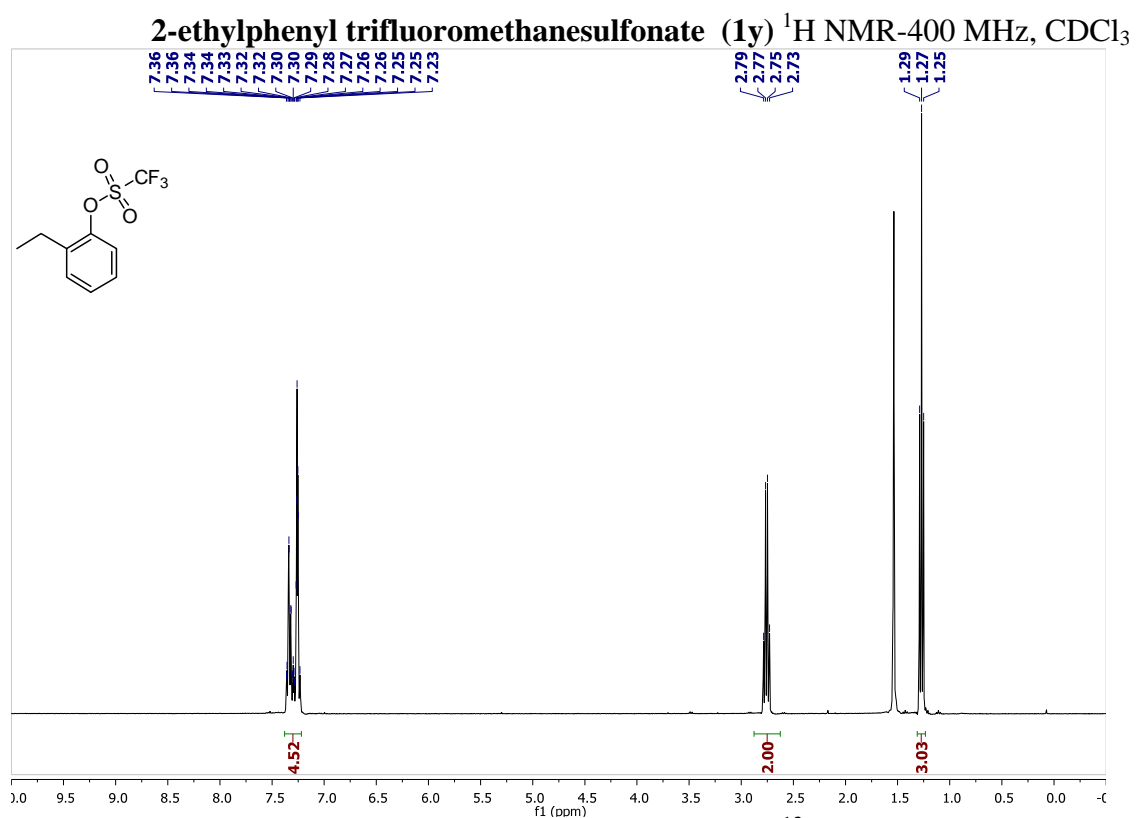


2-methylphenyl trifluoromethanesulfonate (1x) ^1H NMR-400 MHz, CDCl_3

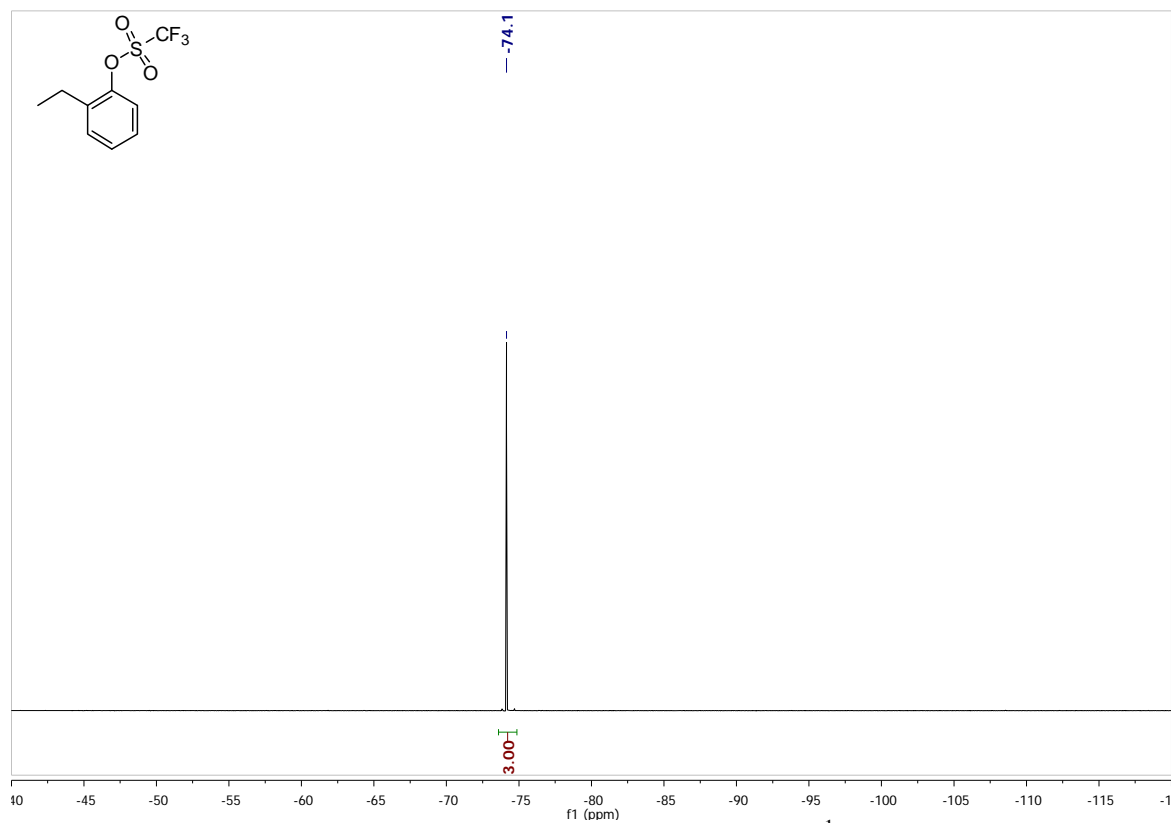


2-methylphenyl trifluoromethanesulfonate (1x) ^{13}C NMR-101MHz, CDCl_3

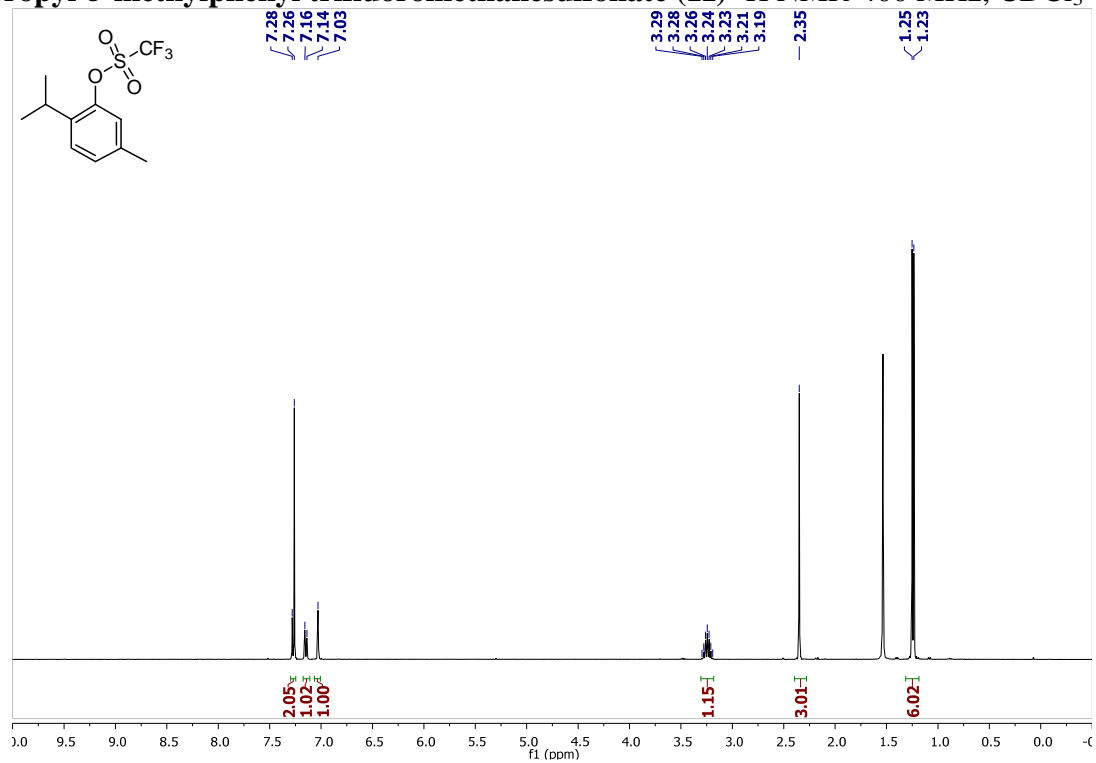




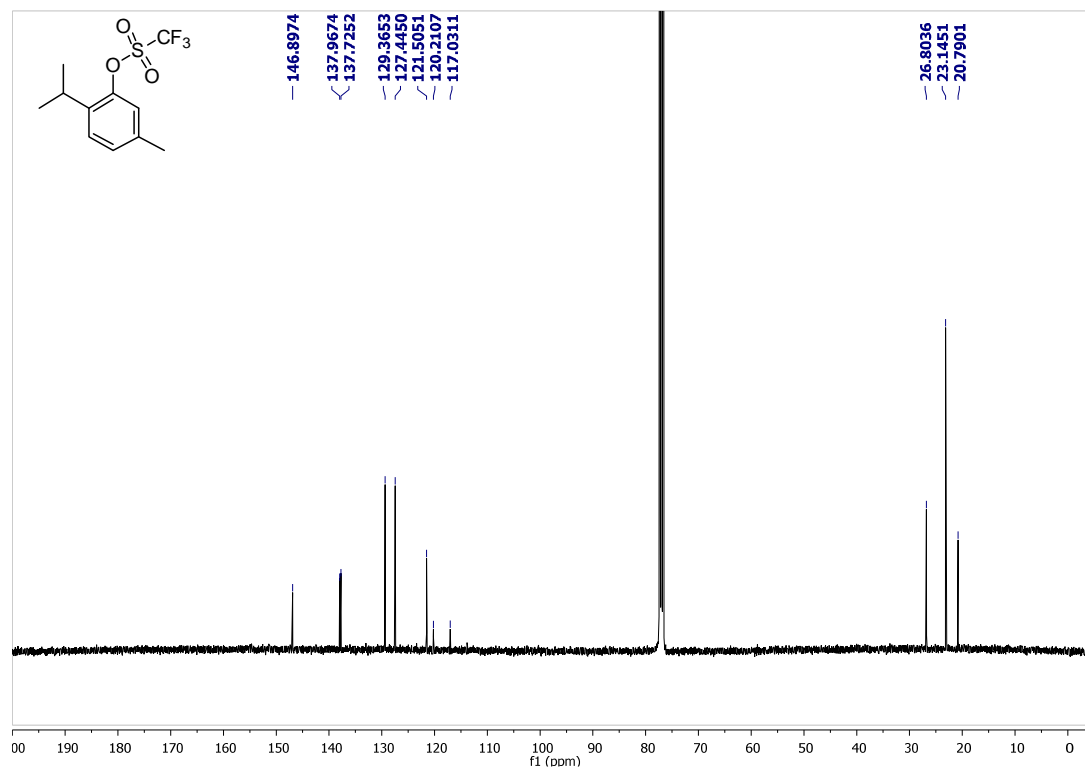
2-ethylphenyl trifluoromethanesulfonate (1y) ^{19}F NMR-376 MHz, CDCl_3



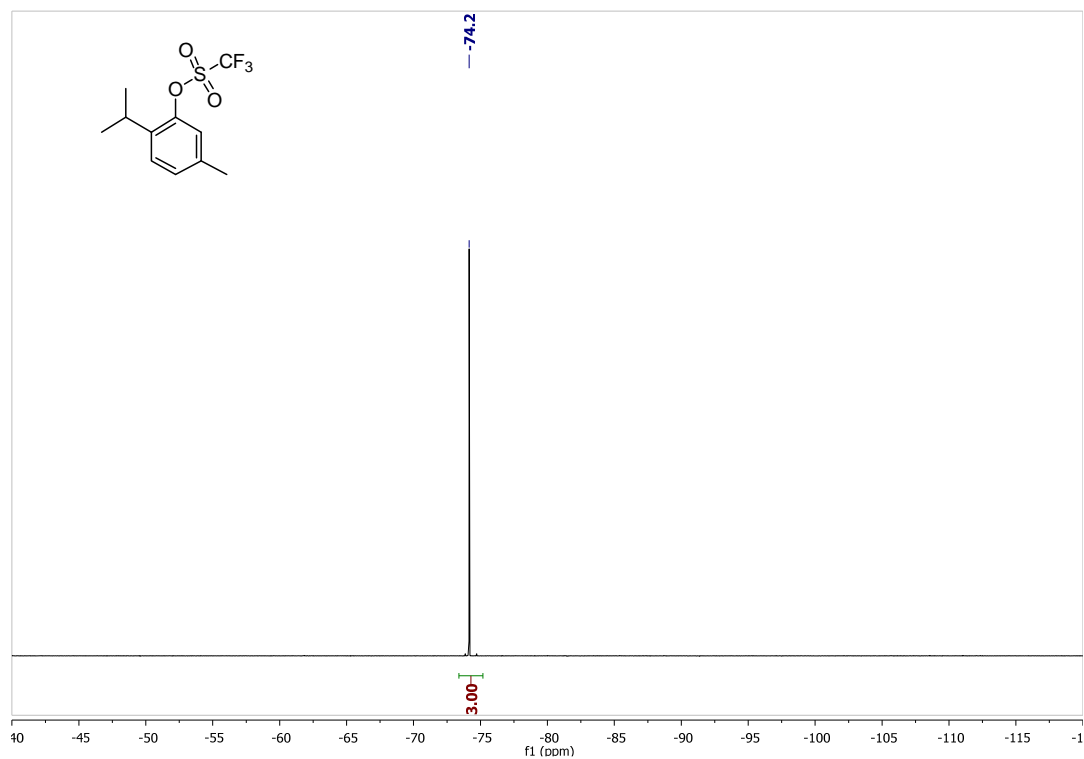
2-isopropyl-5-methylphenyl trifluoromethanesulfonate (1z) ^1H NMR-400 MHz, CDCl_3



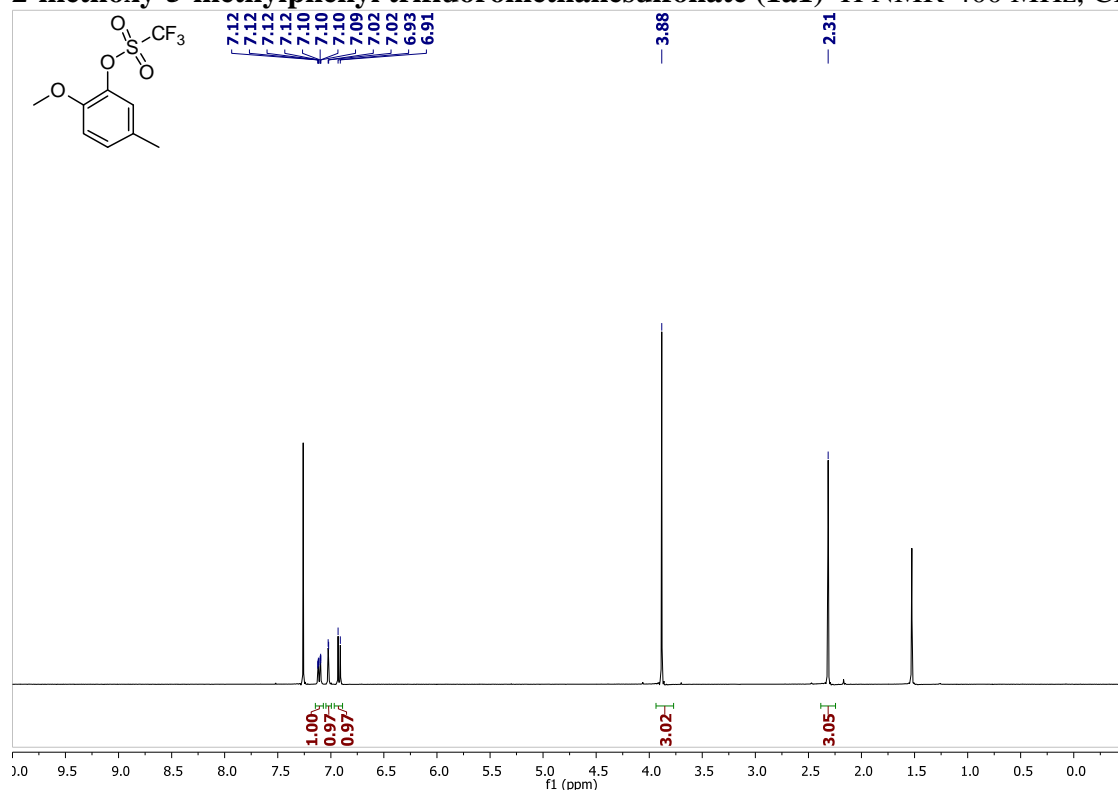
2-isopropyl-5-methylphenyl trifluoromethanesulfonate (1z) ^{13}C NMR-101MHz, CDCl_3



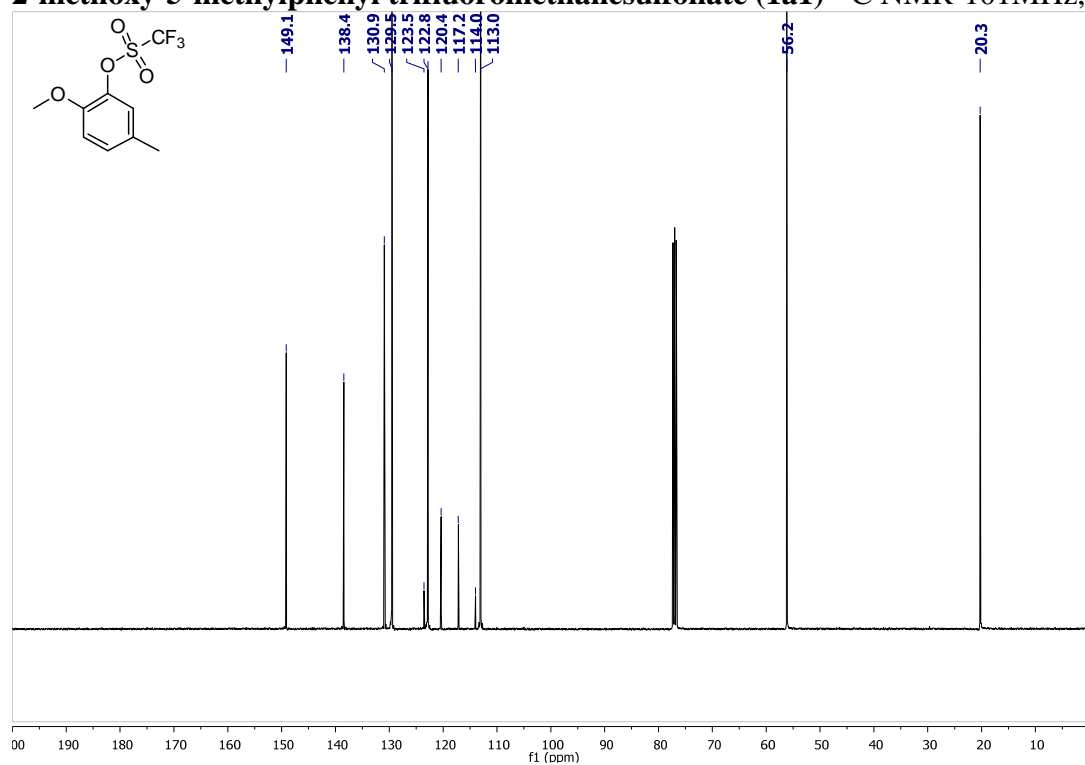
2-isopropyl-5-methylphenyl trifluoromethanesulfonate (1z) ^{19}F NMR-376 MHz, CDCl_3



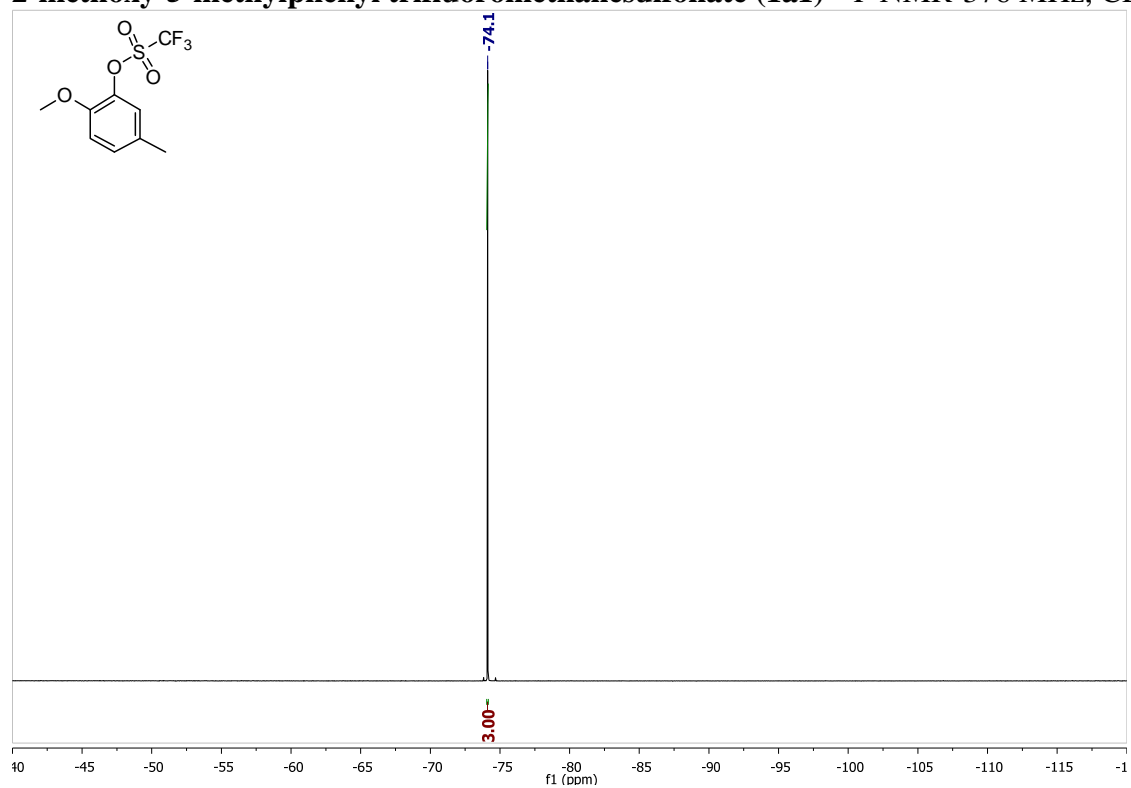
2-methoxy-5-methylphenyl trifluoromethanesulfonate (1a1) ^1H NMR-400 MHz, CDCl_3



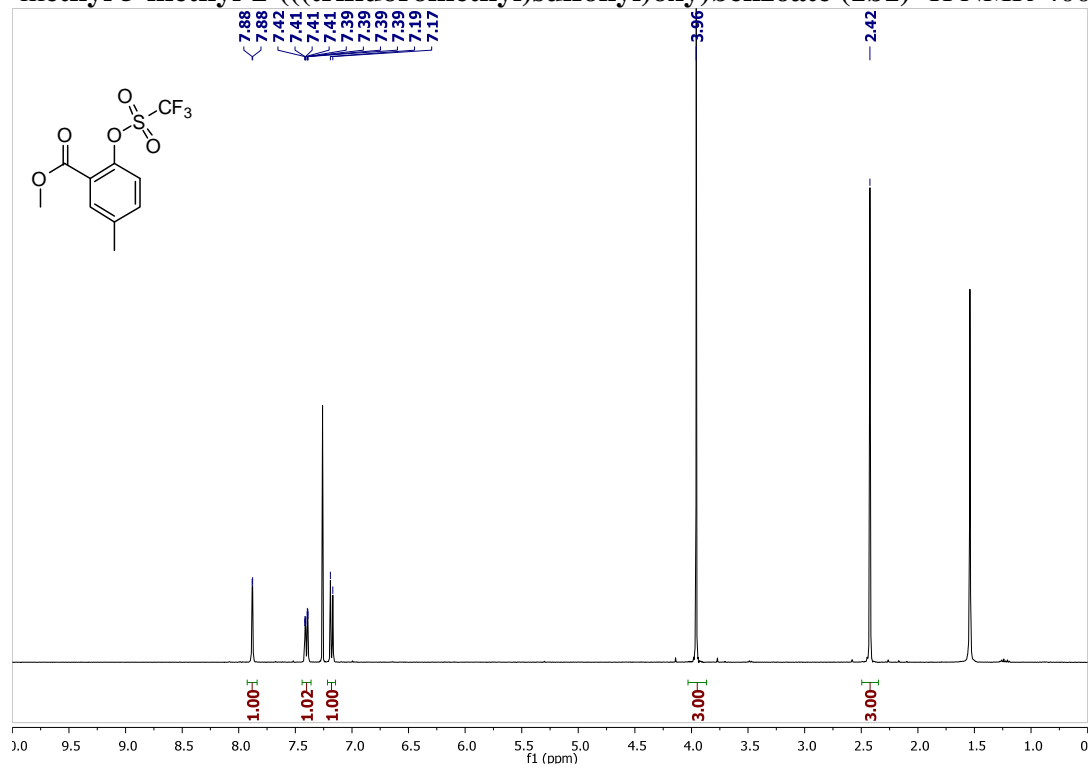
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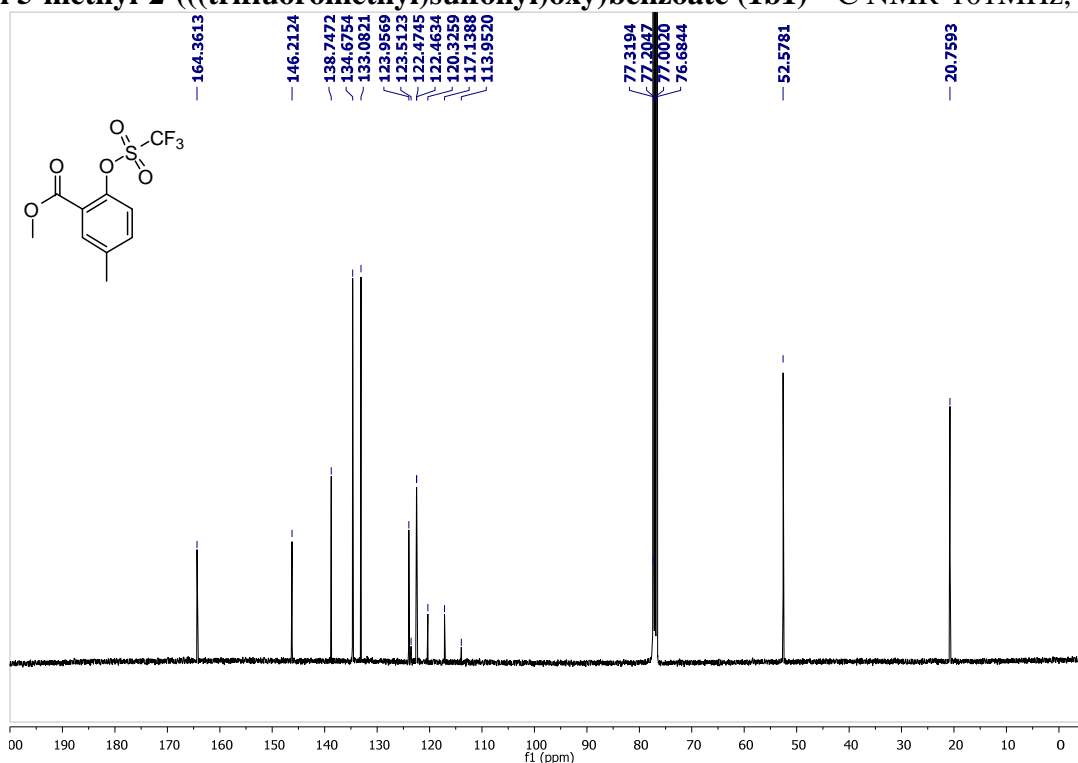
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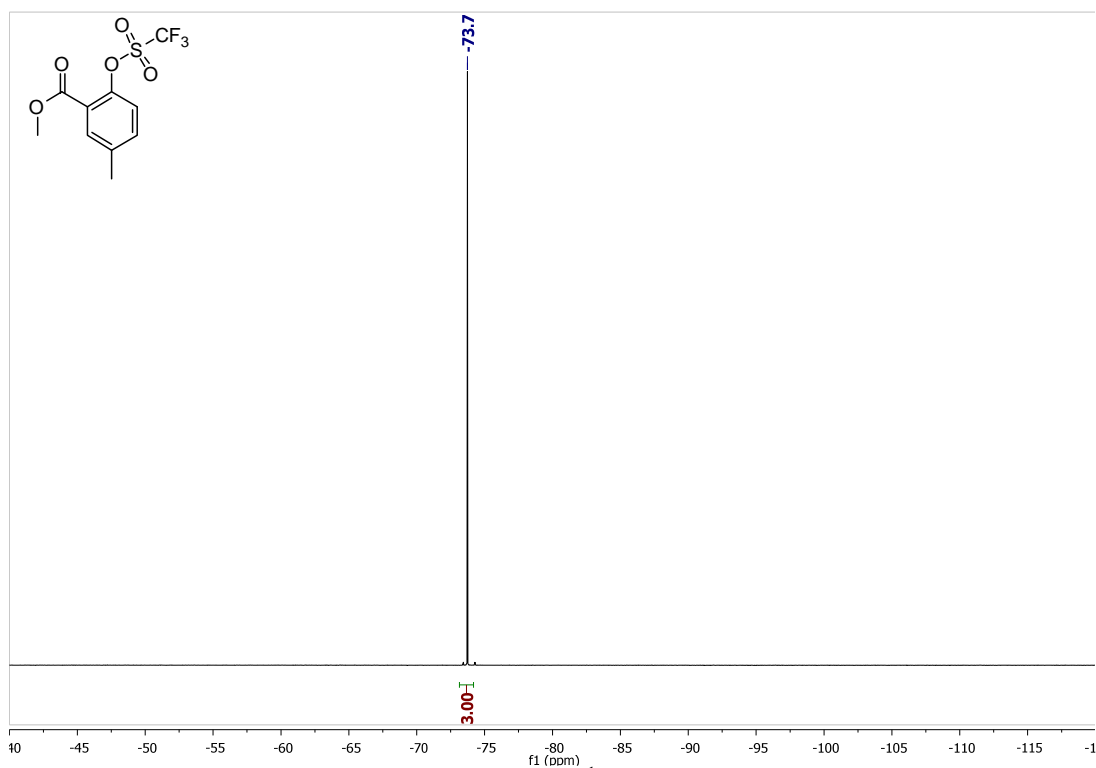
methyl 5-methyl-2-(((trifluoromethyl)sulfonyl)oxy)benzoate (1b1) ^1H NMR-400 MHz, CDCl_3



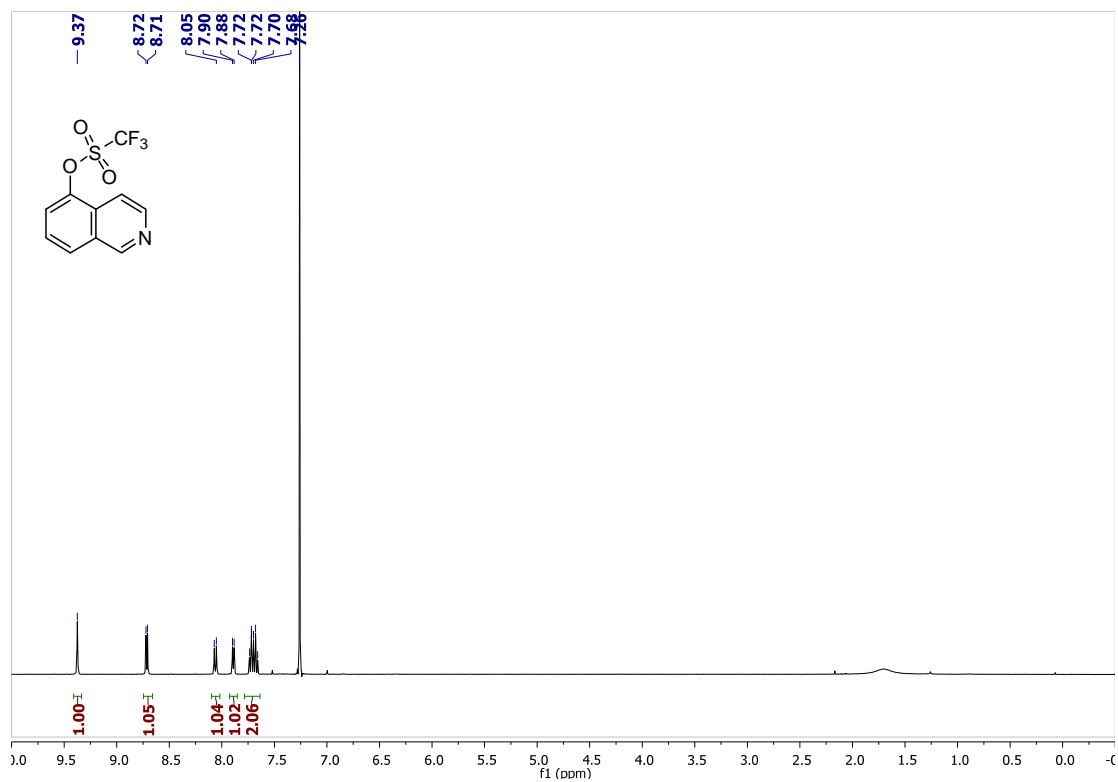
methyl 5-methyl-2-(((trifluoromethyl)sulfonyl)oxy)benzoate (**1b1**) ^{13}C NMR-101MHz, CDCl_3



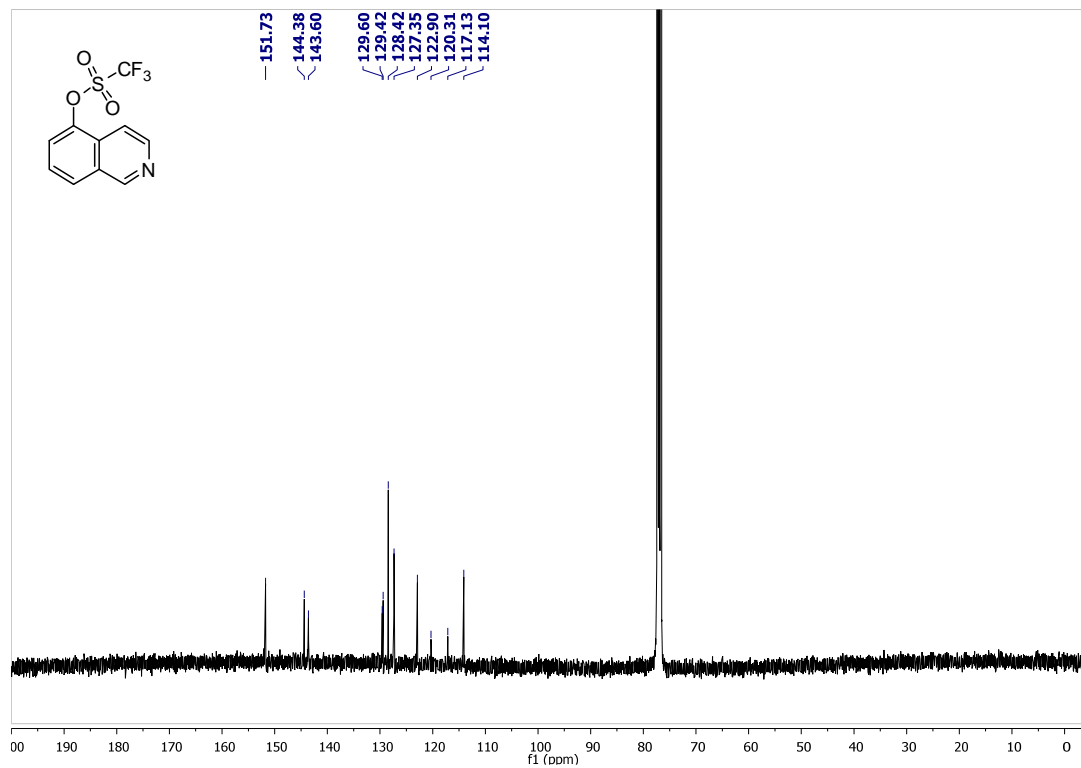
methyl 5-methyl-2-(((trifluoromethyl)sulfonyl)oxy)benzoate (**1b1**) ^{19}F NMR-376 MHz, CDCl_3



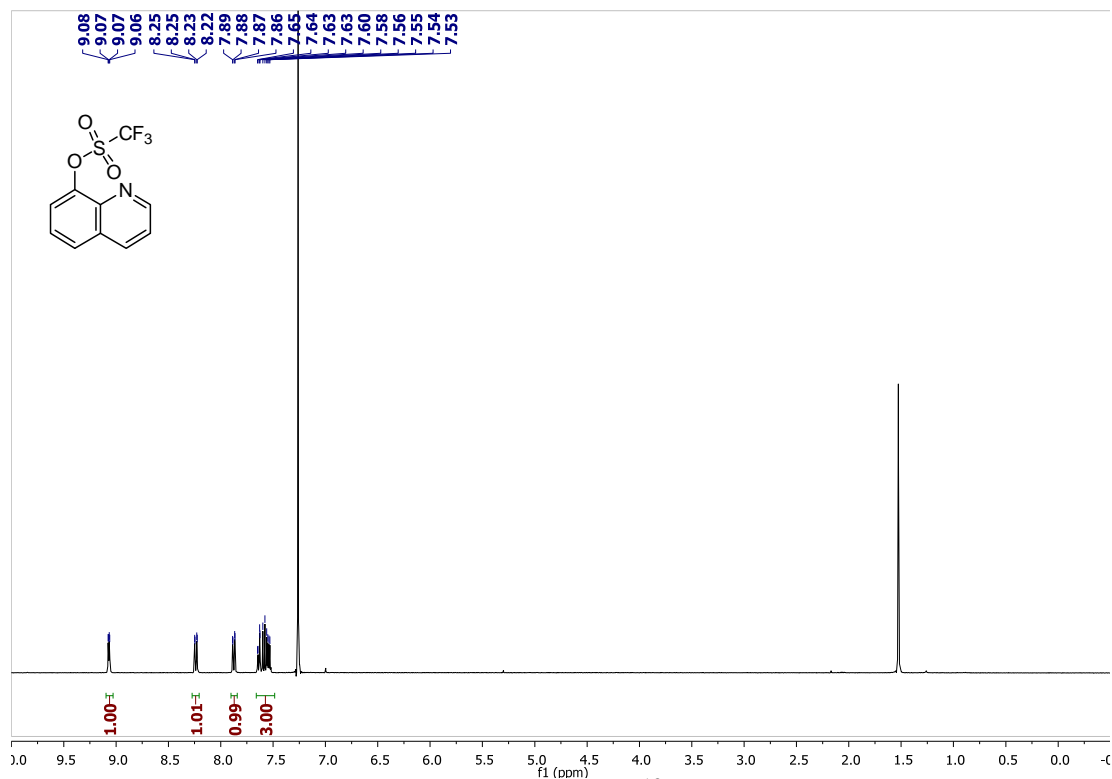
isoquinolin-5-yl trifluoromethanesulfonate (**1c1**) ^1H NMR-400 MHz, CDCl_3



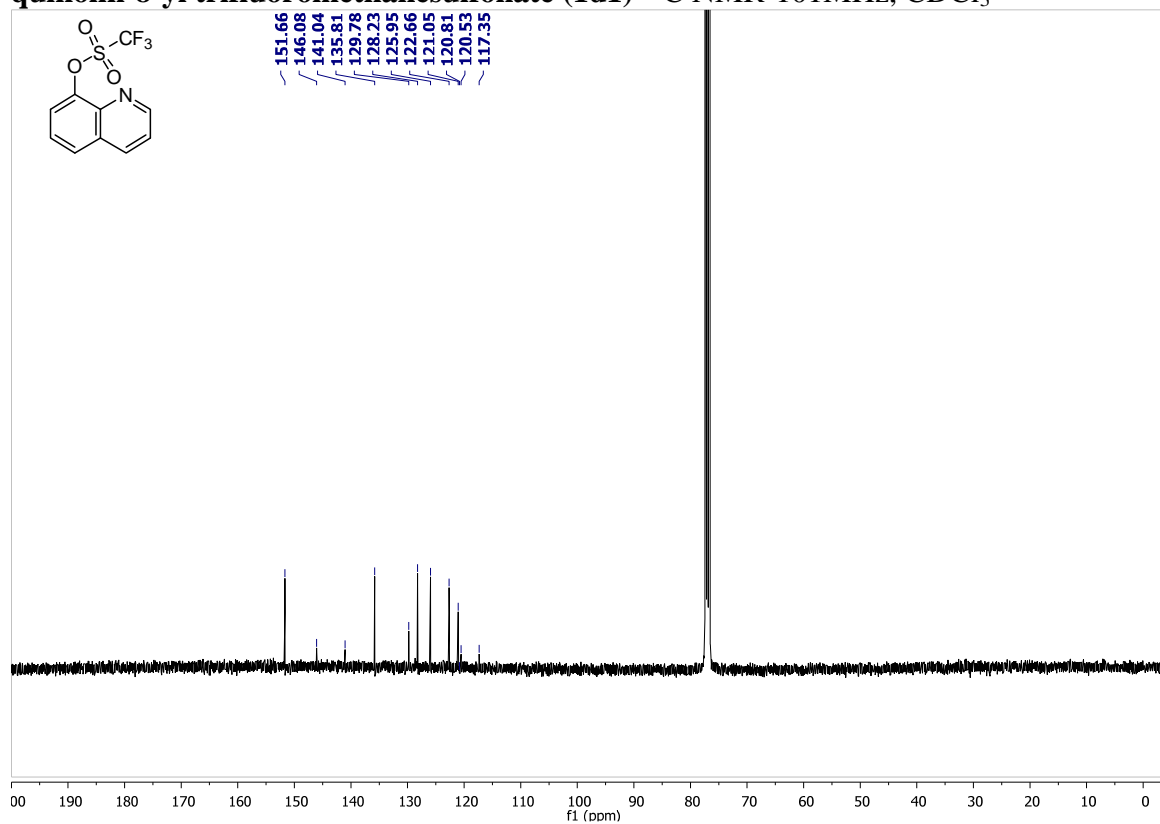
isoquinolin-5-yl trifluoromethanesulfonate (1c1) ^{13}C NMR-101MHz, CDCl_3



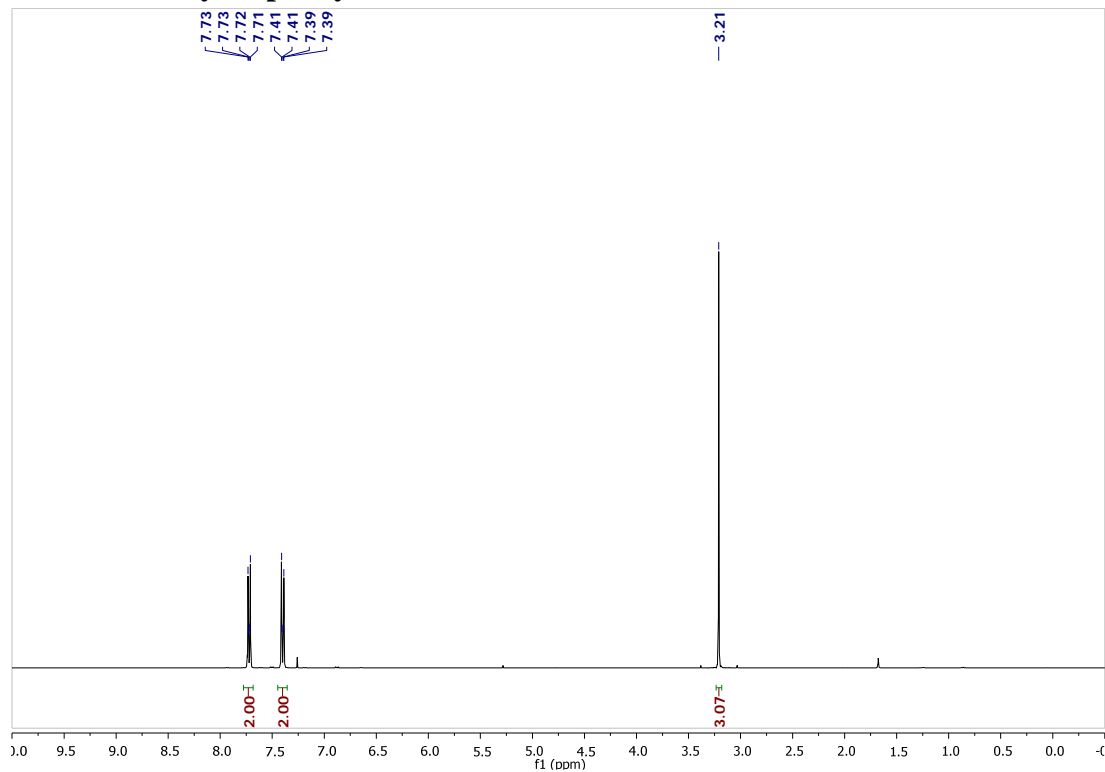
quinolin-8-yl trifluoromethanesulfonate (1d1) ^1H NMR-400 MHz, CDCl_3



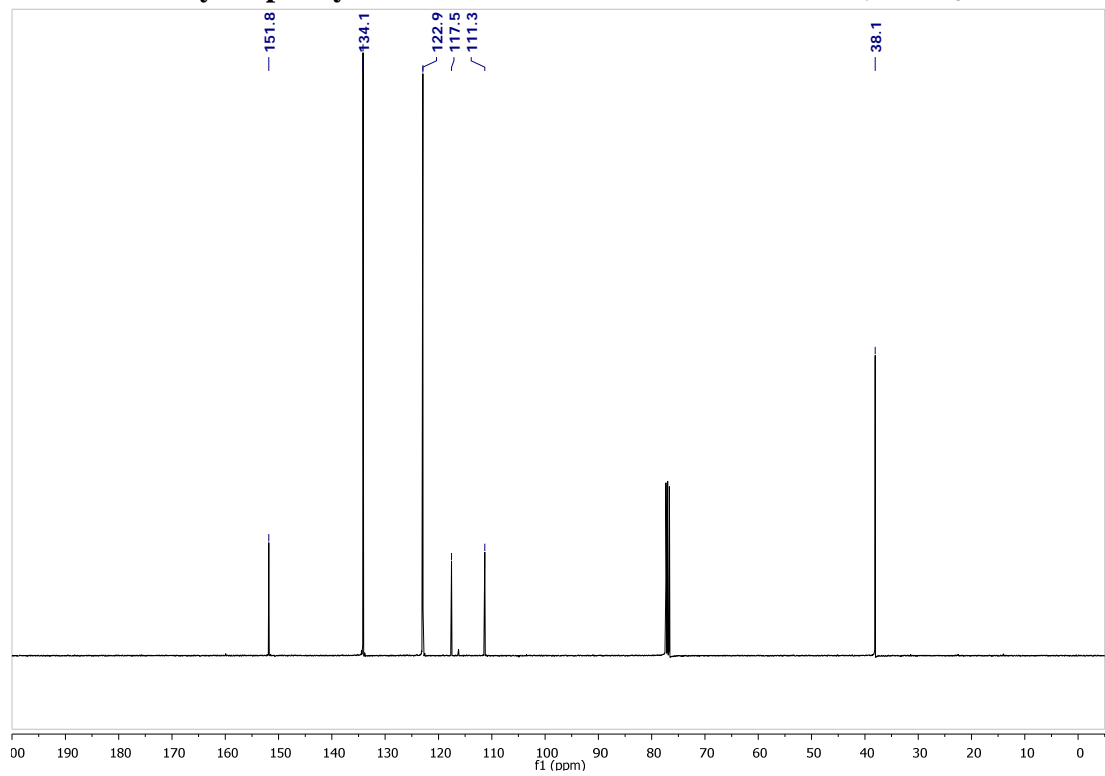
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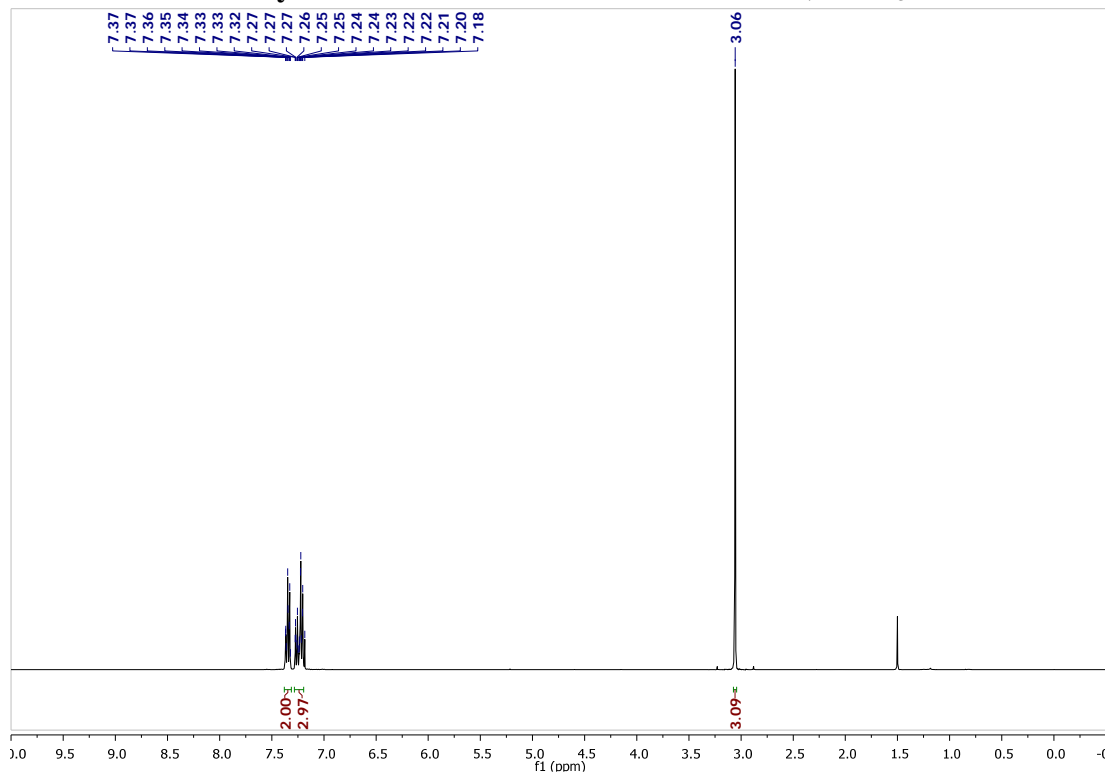
4-Cyanophenyl methanesulfonate ^1H NMR-400 MHz, CDCl_3



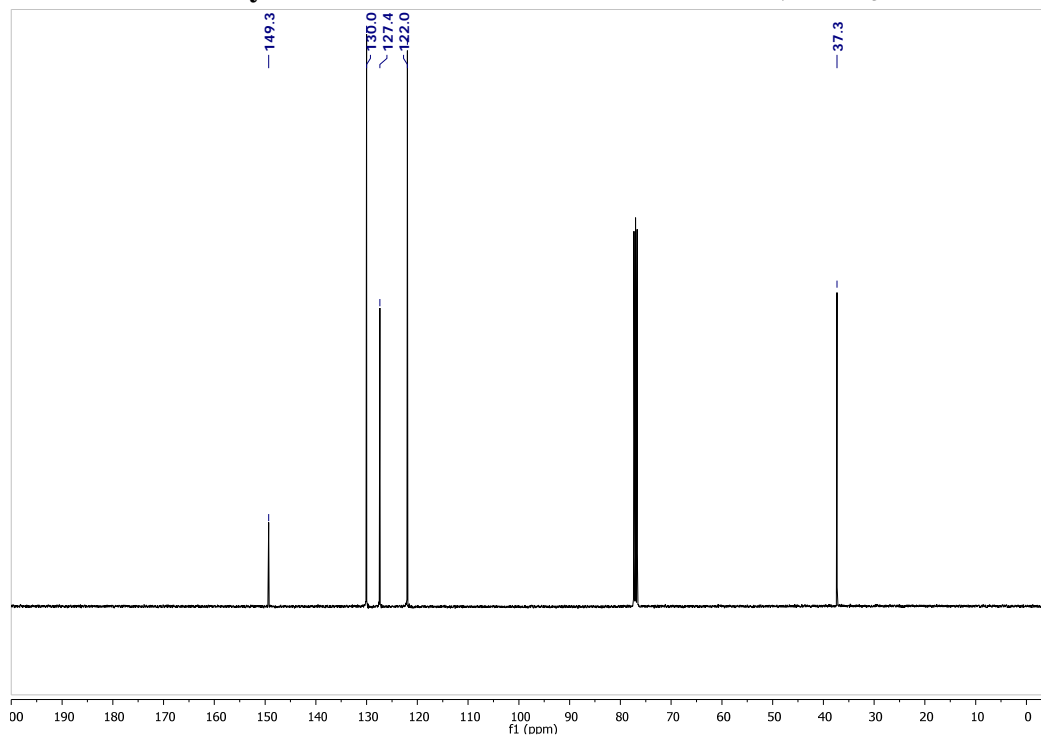
4-Cyanophenyl methanesulfonate ^{13}C NMR-101MHz, CDCl_3



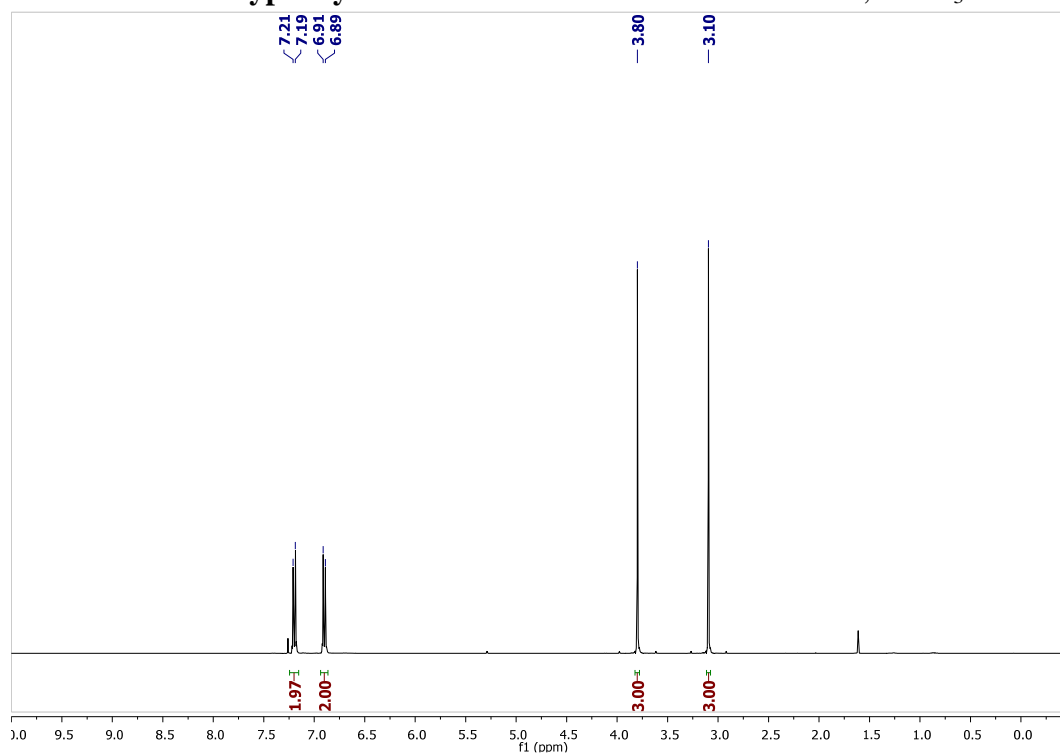
Phenyl methanesulfonate ^1H NMR-400 MHz, CDCl_3



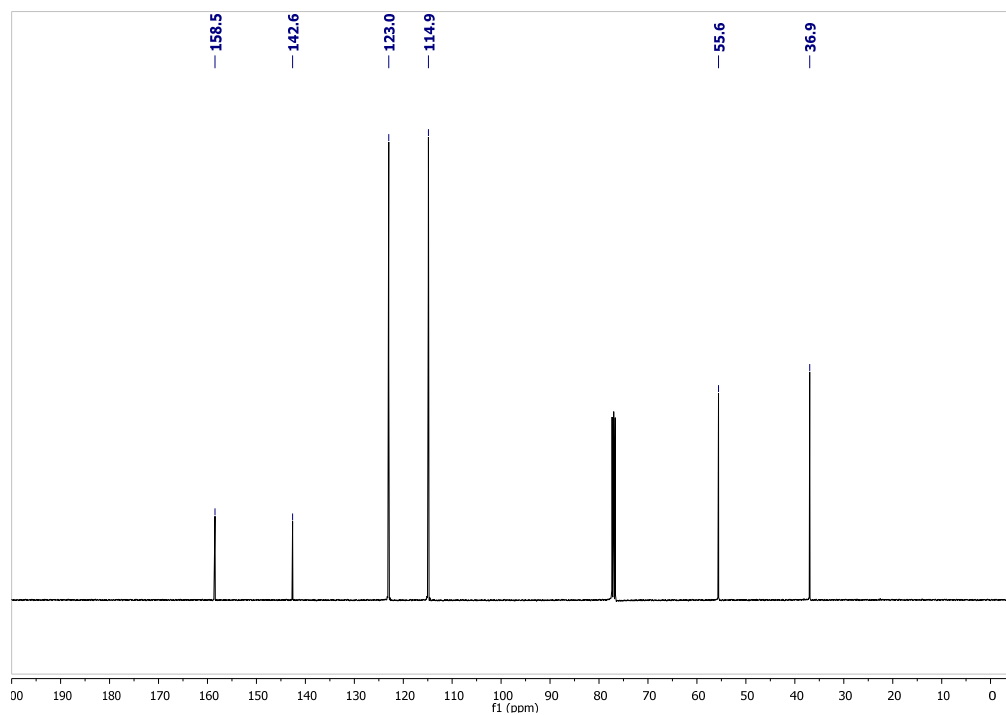
Phenyl methanesulfonate ^{13}C NMR-101MHz, CDCl_3



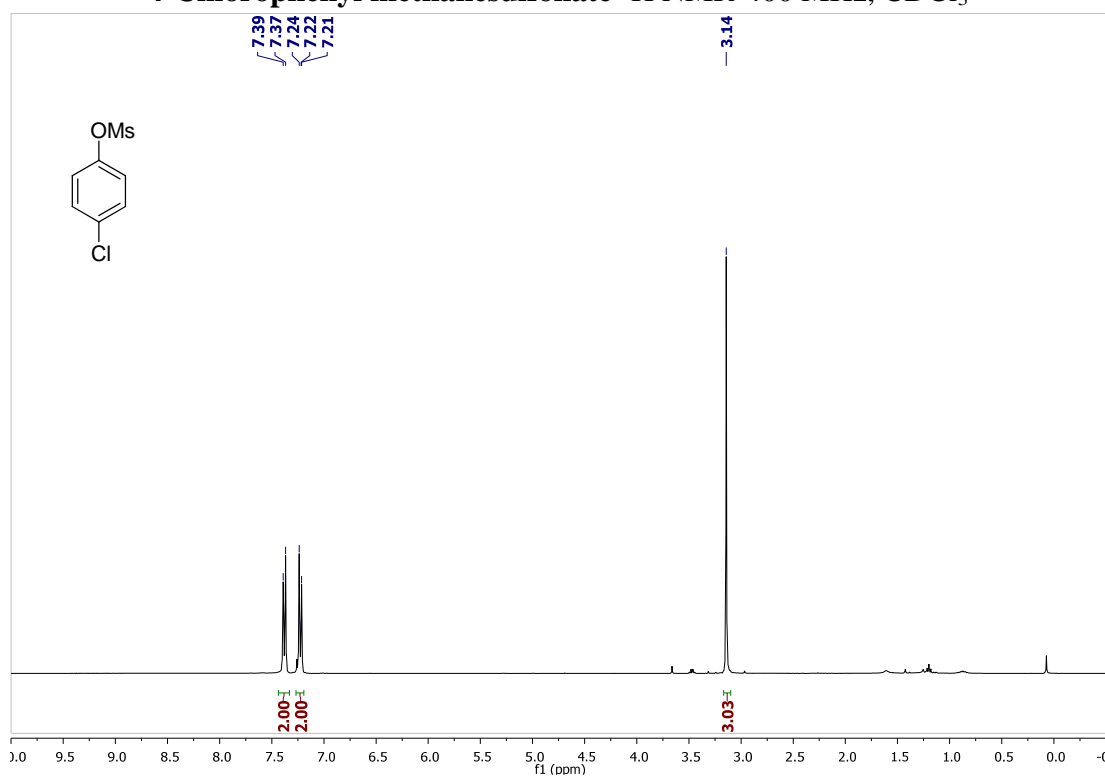
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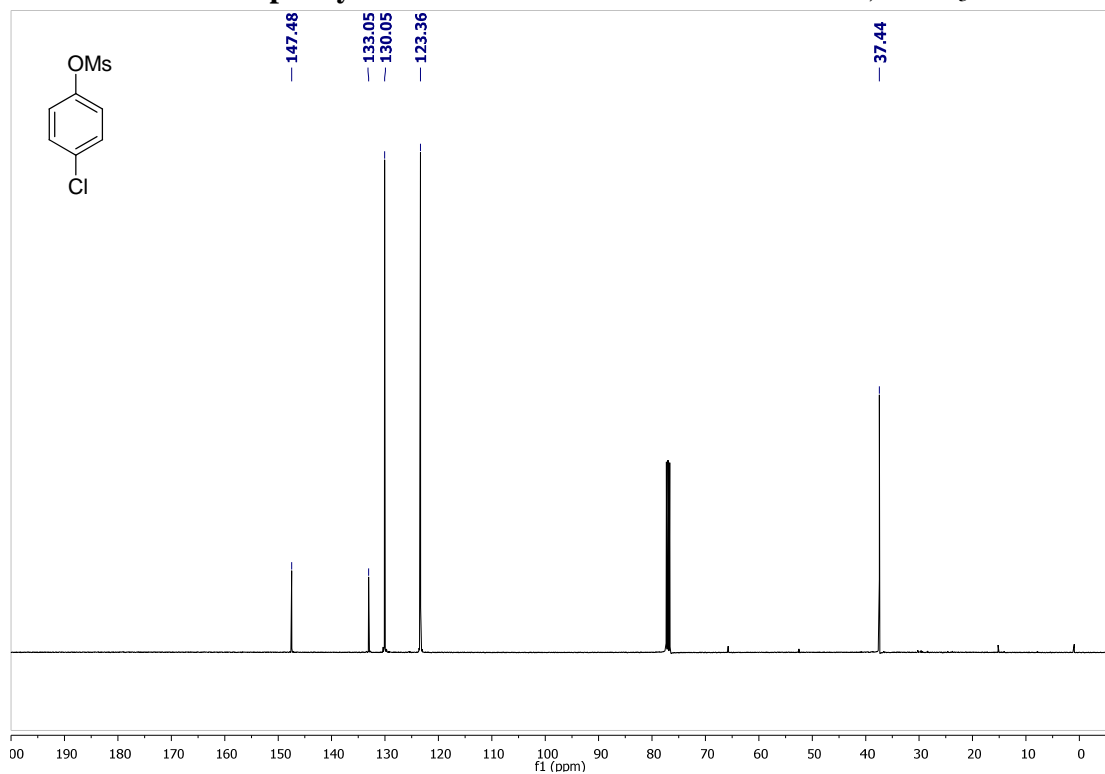
4-Methoxyphenyl methanesulfonate ^{13}C NMR-101MHz, CDCl_3



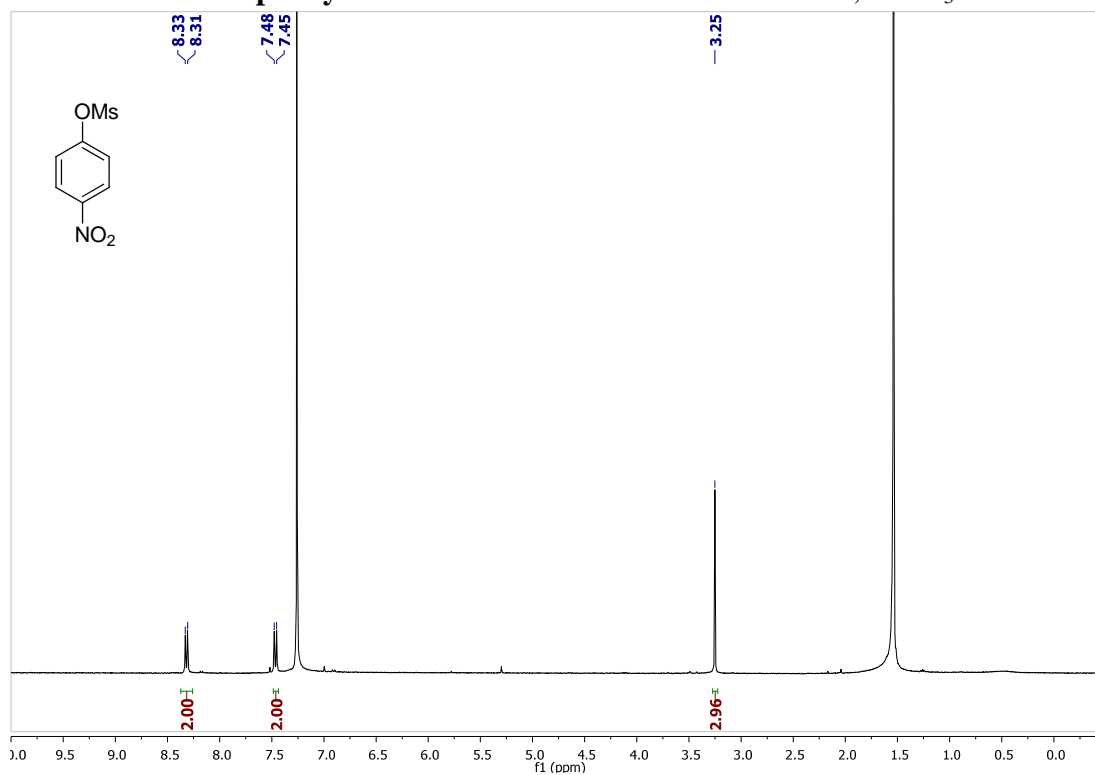
4-Chlorophenyl methanesulfonate ^1H NMR-400 MHz, CDCl_3



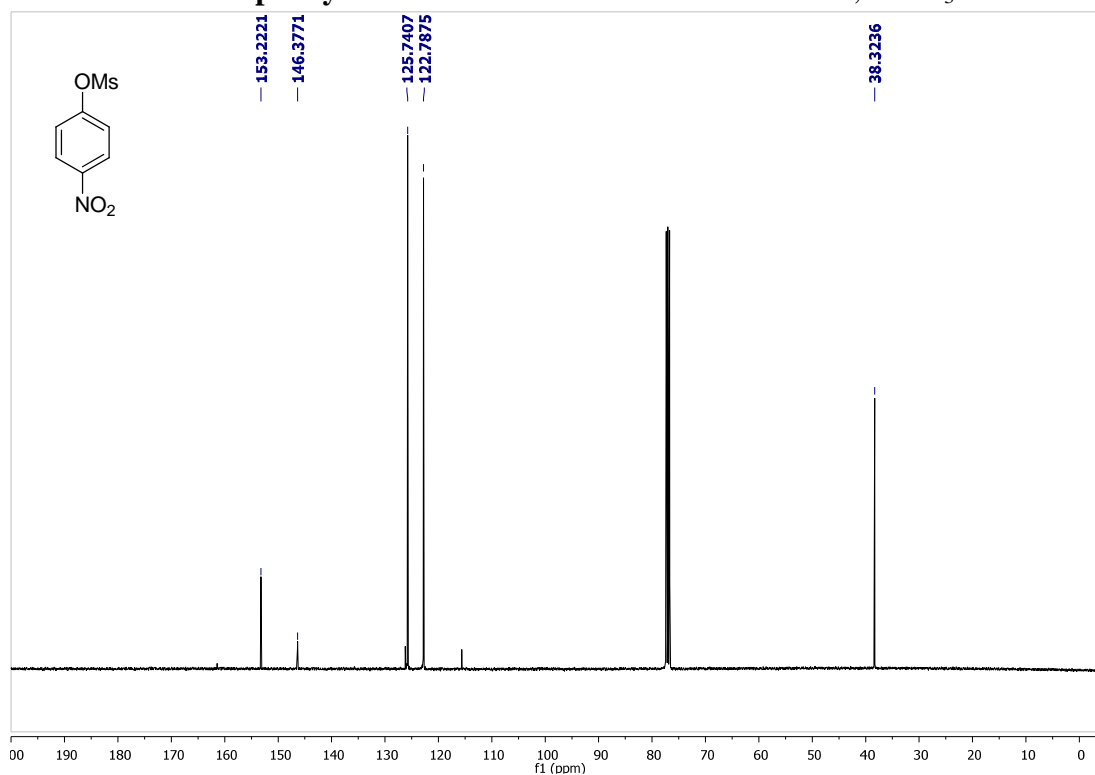
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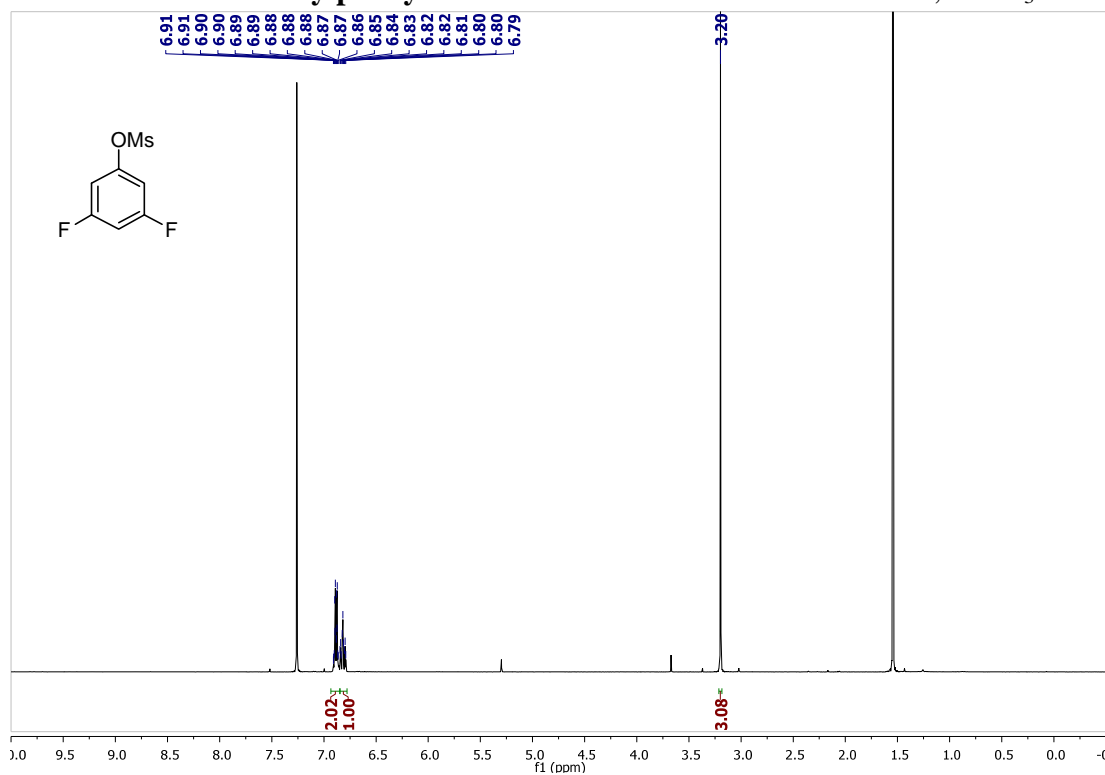
4-nitrophenyl methanesulfonate ^1H NMR-400 MHz, CDCl_3



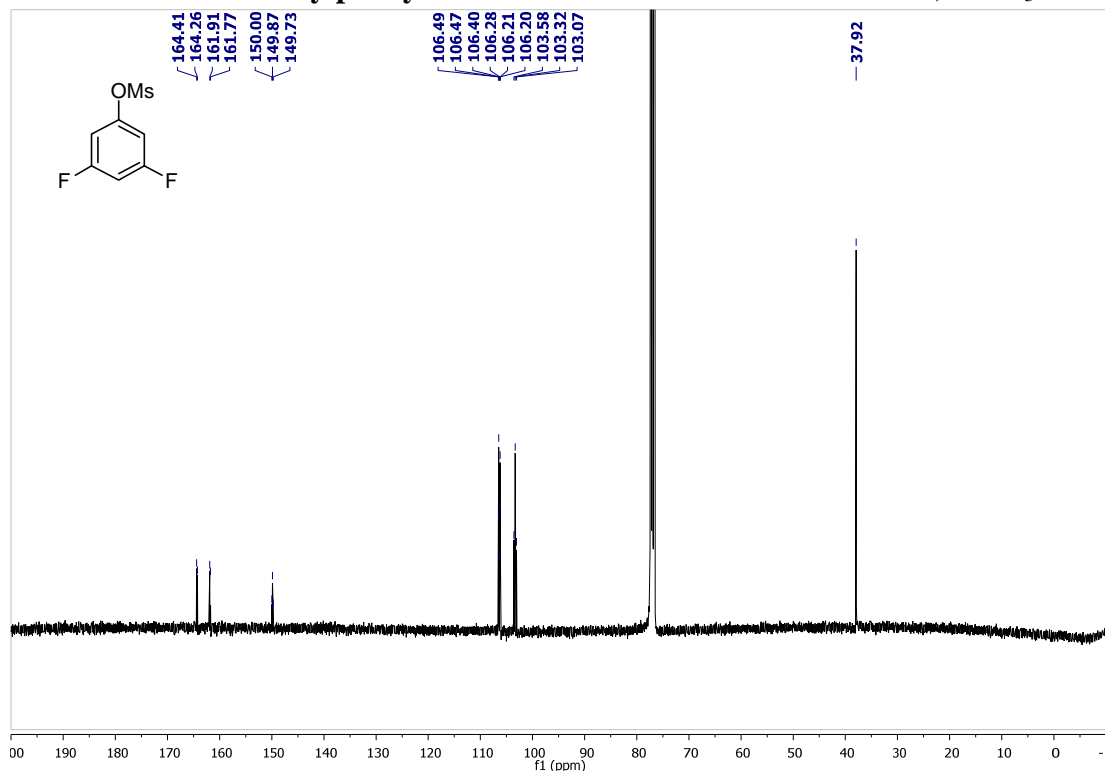
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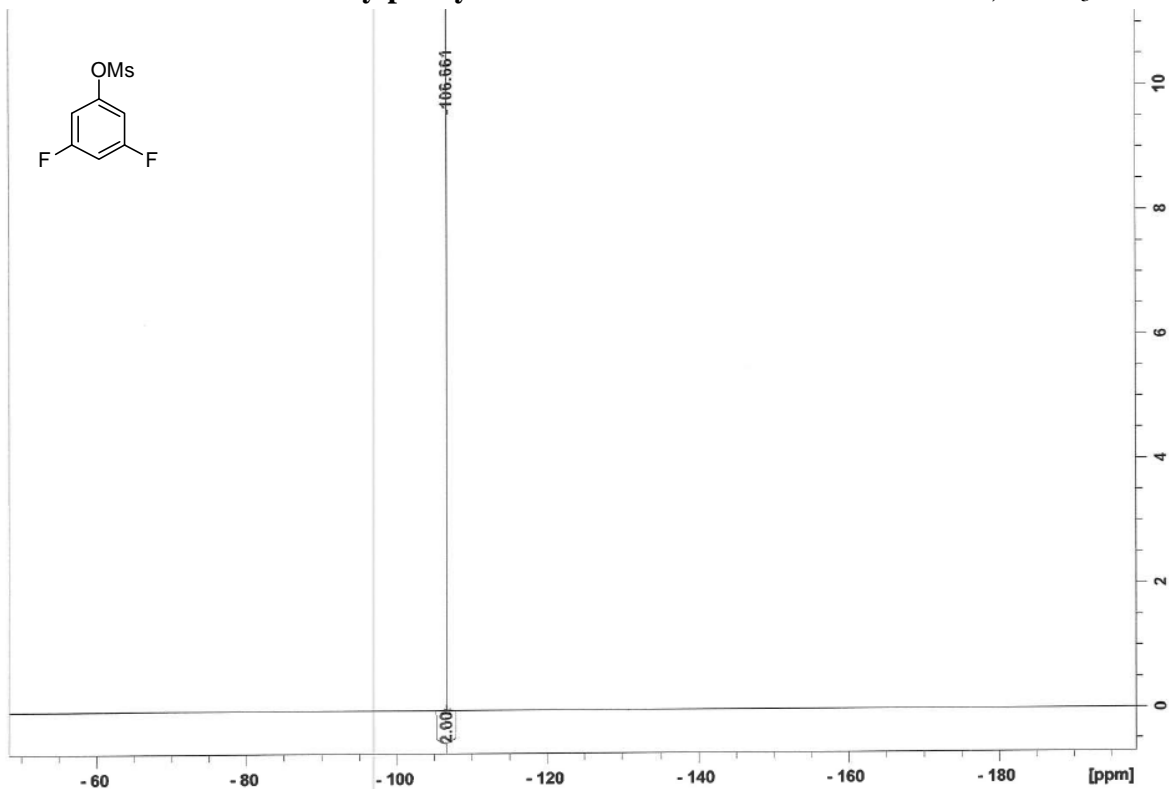
3,5-difluoromethylphenyl methanesulfonate ^1H NMR-400 MHz, CDCl_3



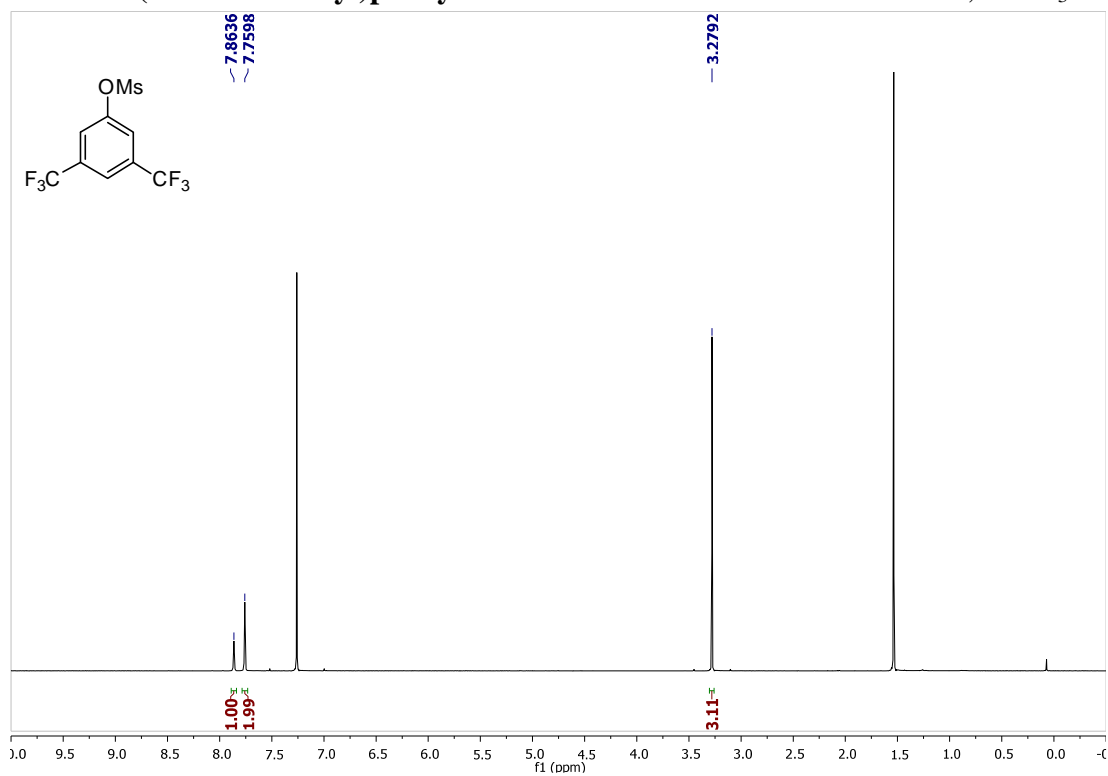
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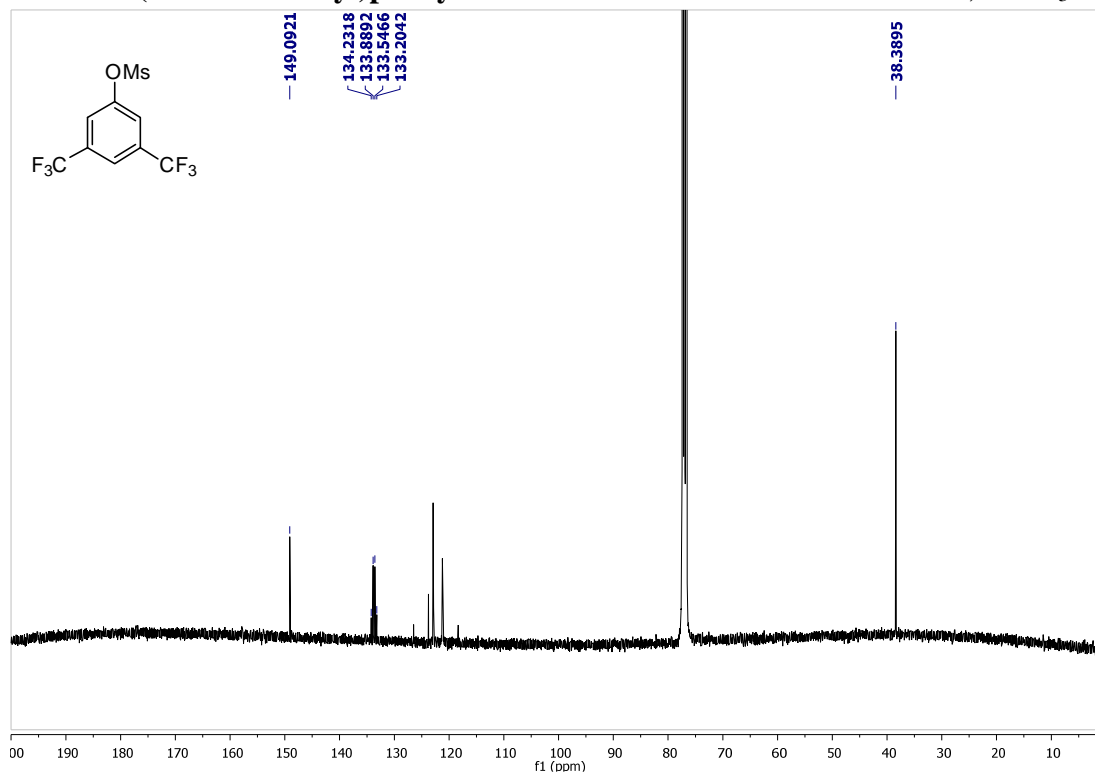
3,5-difluoromethylphenyl methanesulfonate ^{19}F NMR-400 MHz, CDCl_3



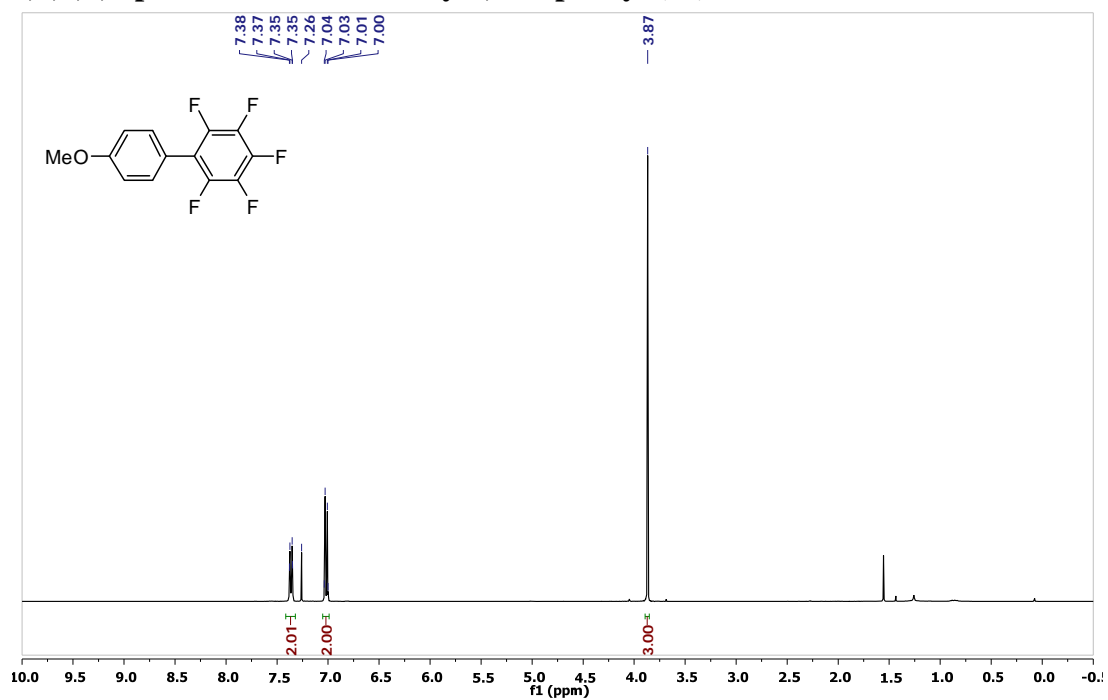
3,5-bis(trifluoromethyl)phenyl methanesulfonate ^1H NMR-400 MHz, CDCl_3



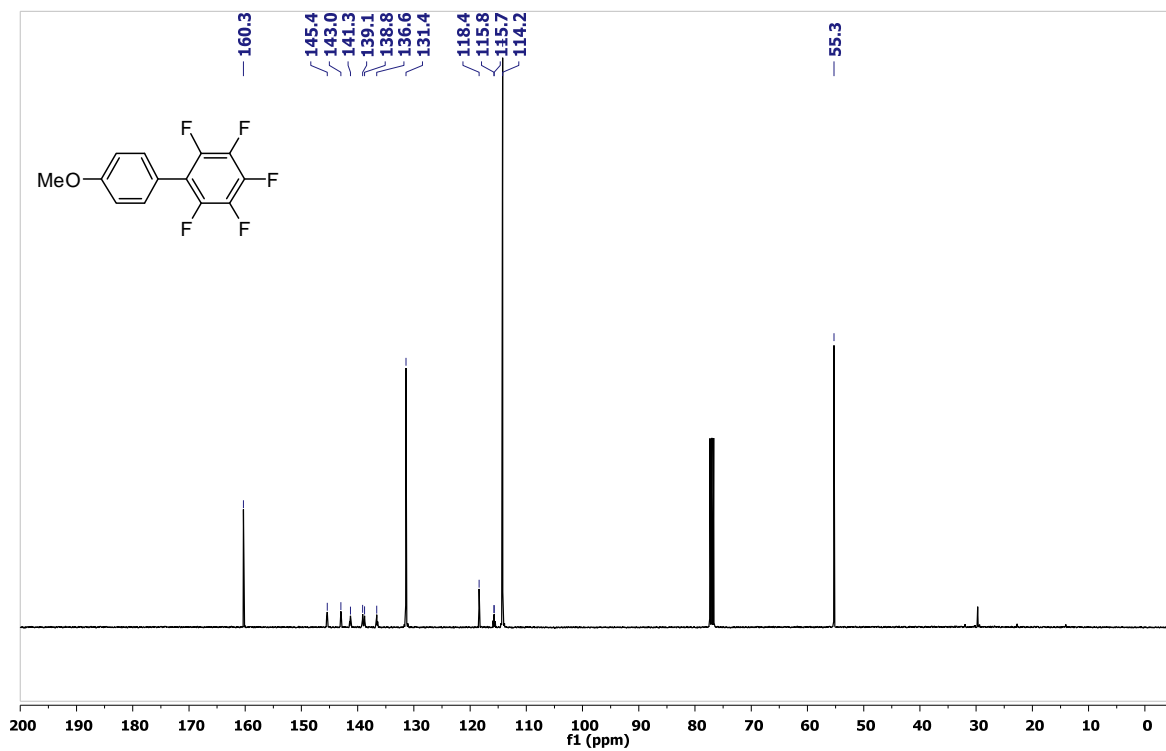
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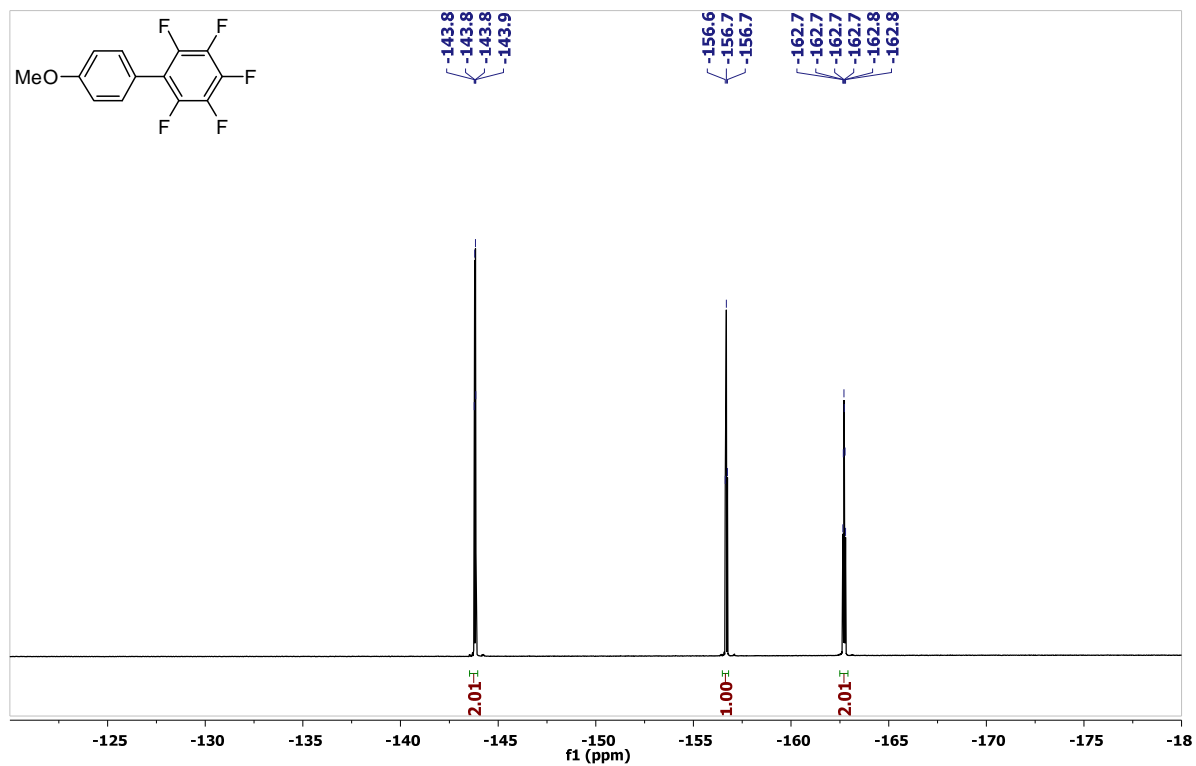
2,3,4,5,6-pentafluoro-4'-methoxy-1,1'-biphenyl (3a) ^1H NMR-400 MHz, CDCl_3



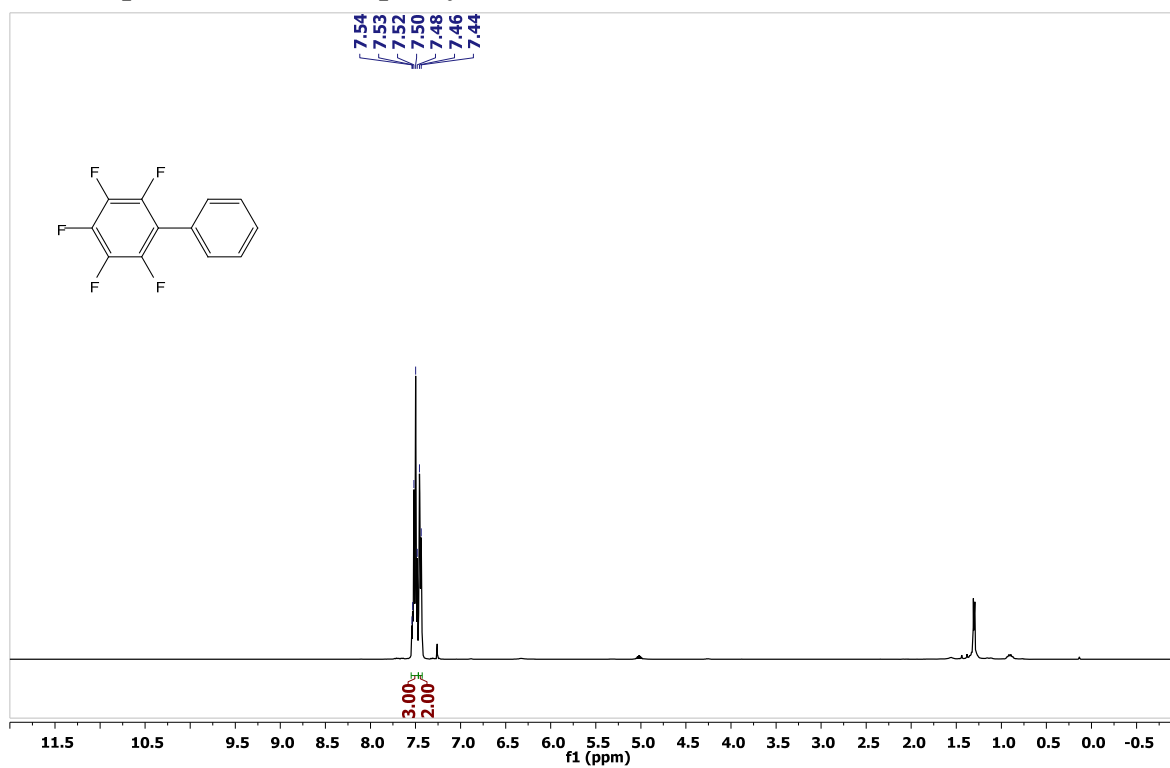
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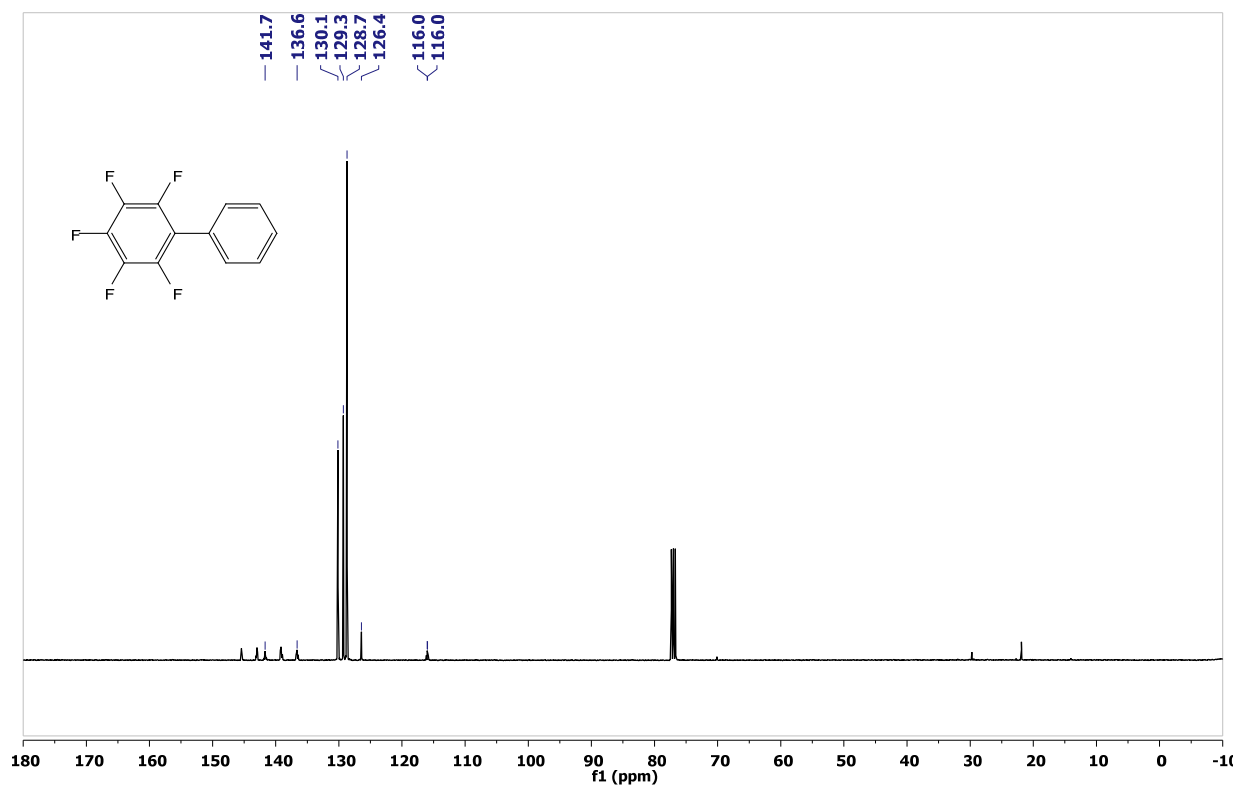
2,3,4,5,6-pentafluoro-4'-methoxy-1,1'-biphenyl (3a) ^{19}F NMR-376 MHz, CDCl_3



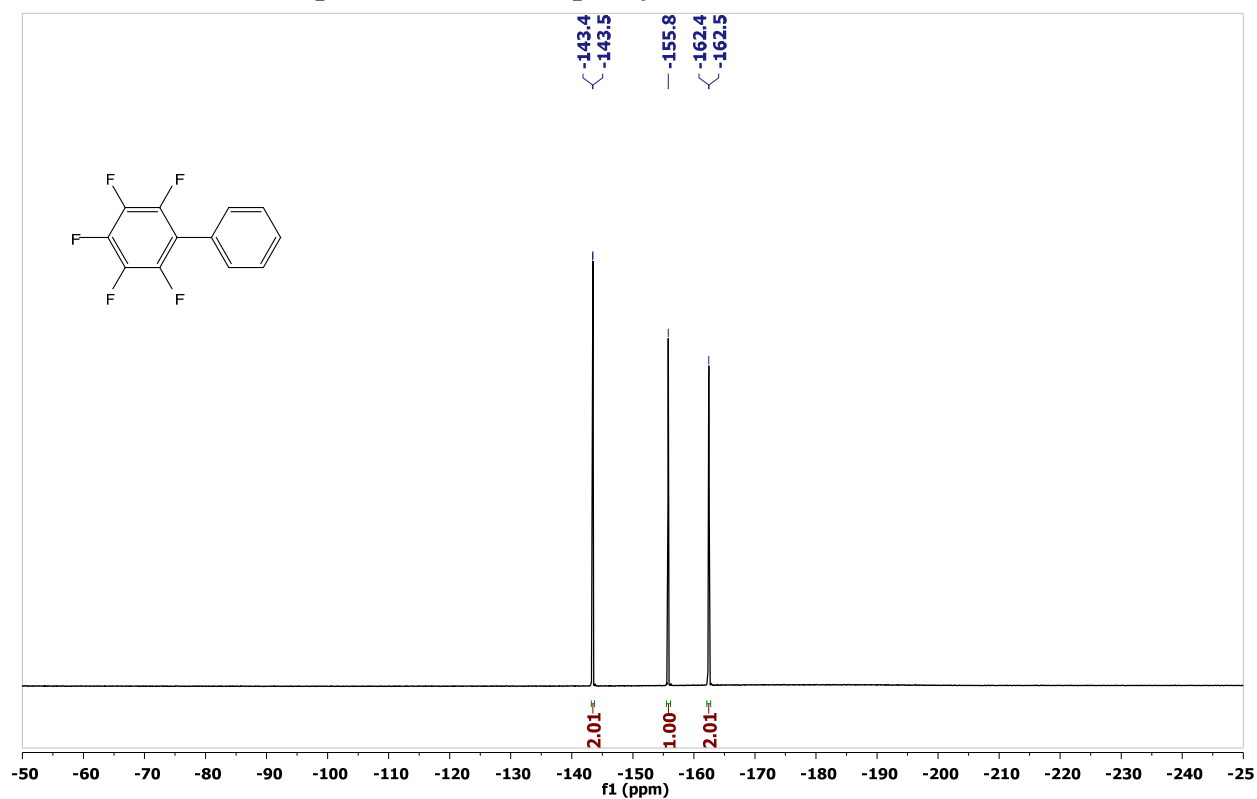
2,3,4,5,6-pentafluoro-1,1'-biphenyl (3b) ^1H NMR-400 MHz, CDCl_3



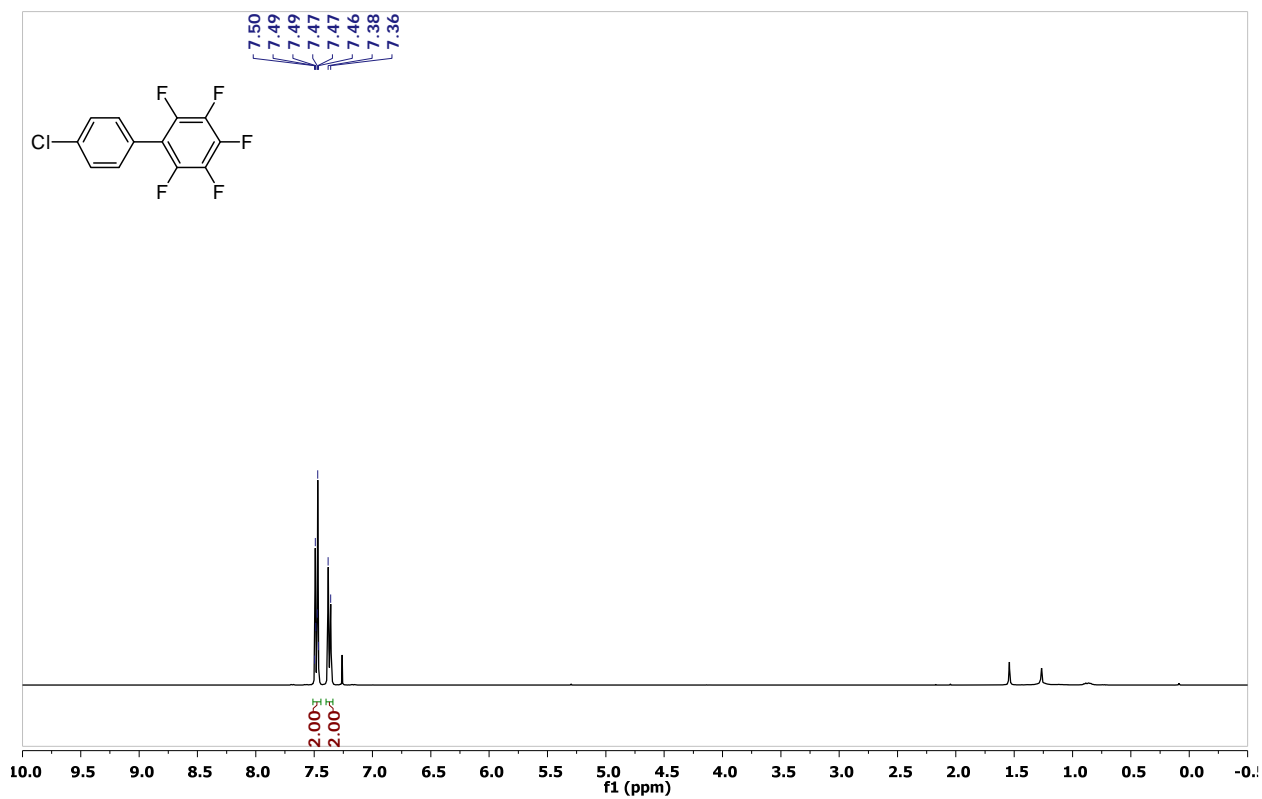
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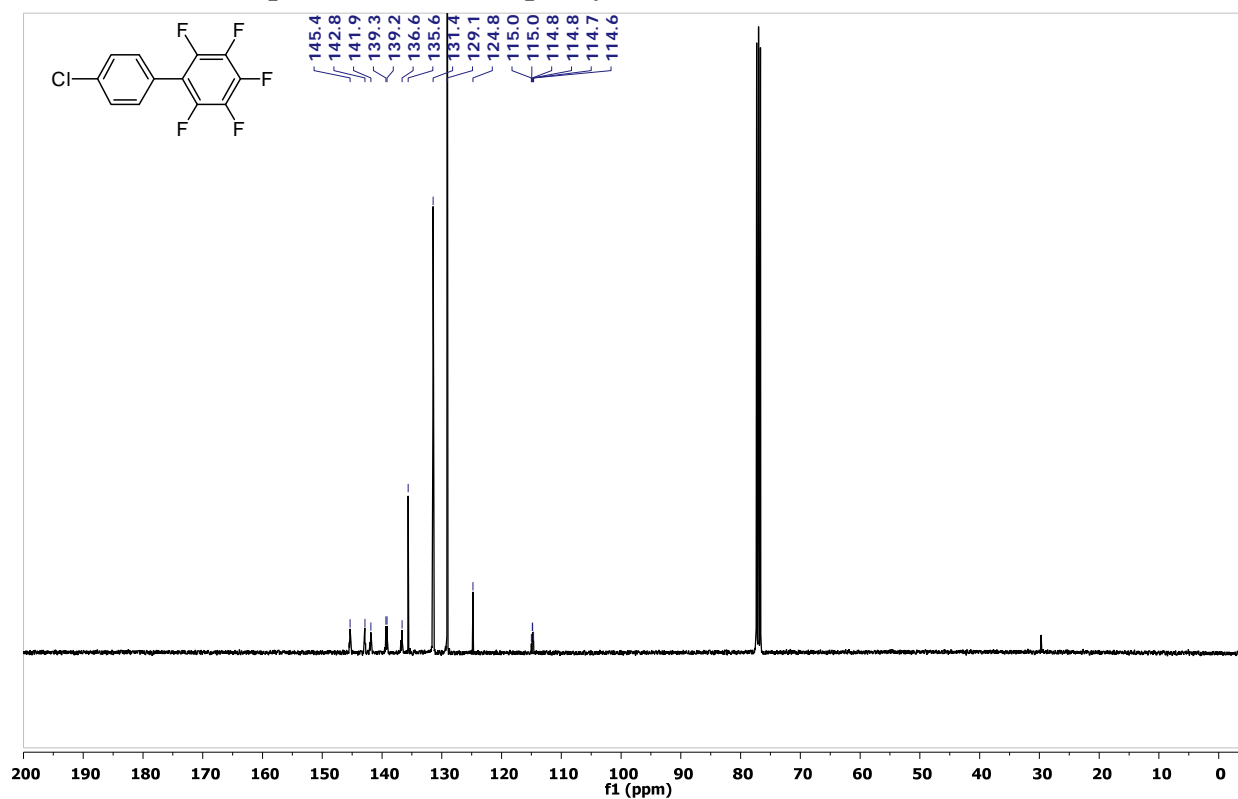
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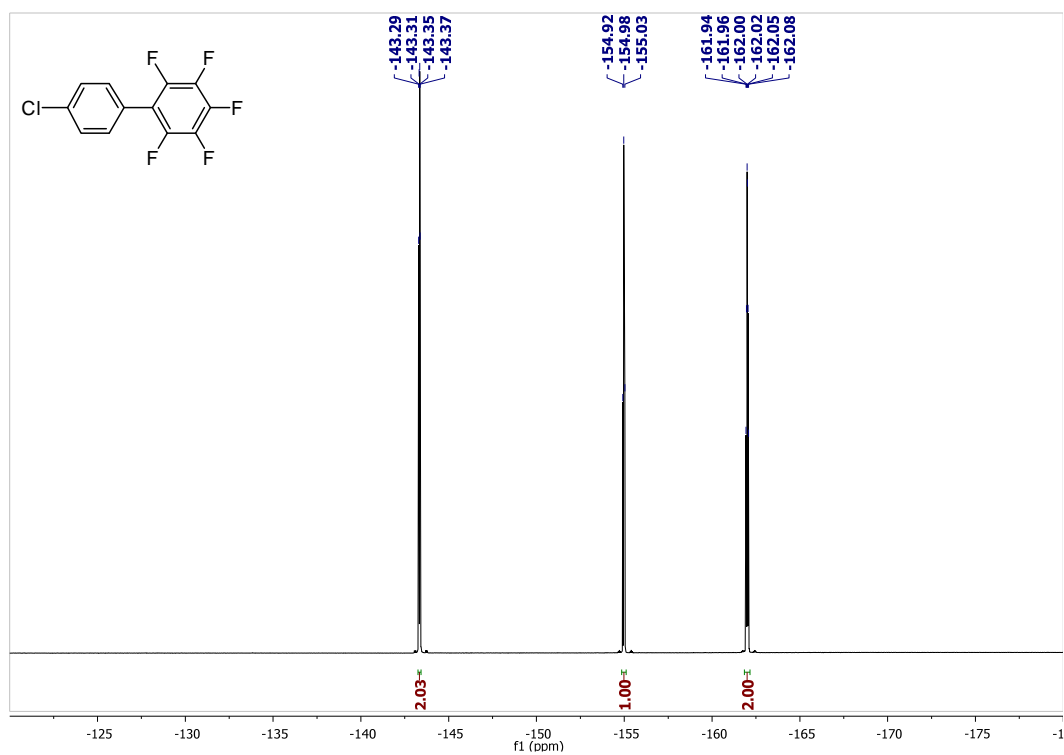
4'-chloro-2,3,4,5,6-pentafluoro-1,1'-biphenyl (3c) ^1H NMR-400 MHz, CDCl_3



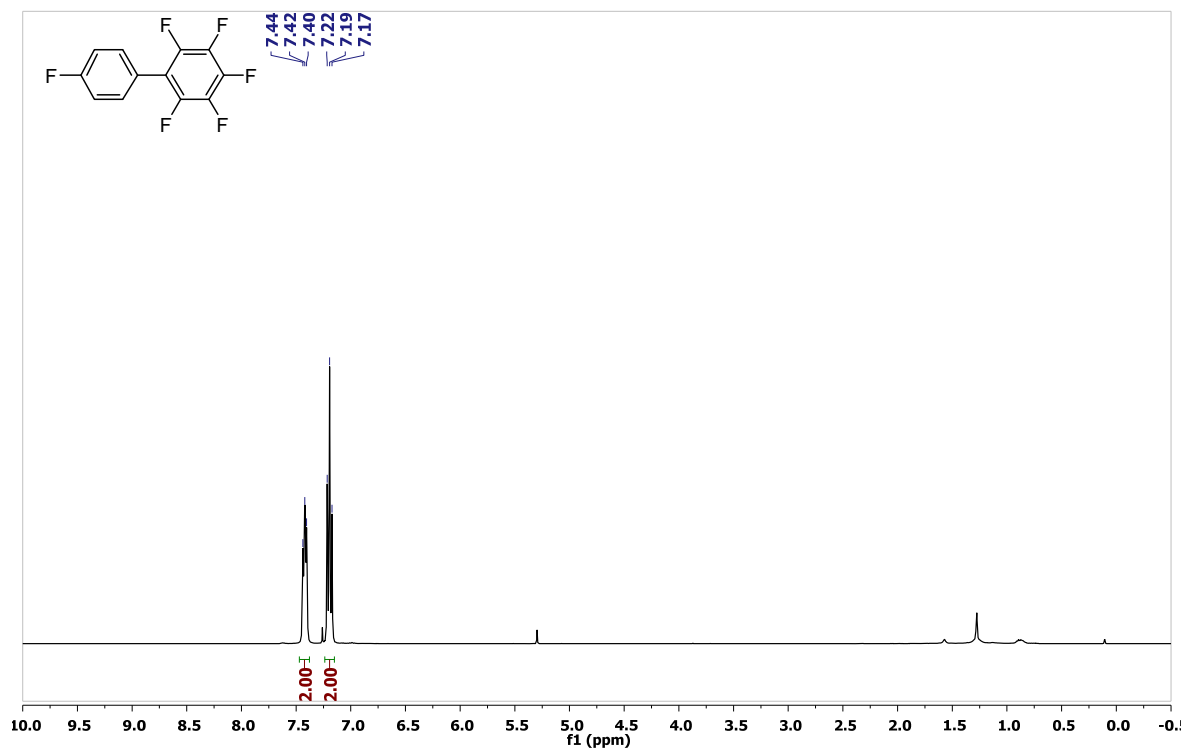
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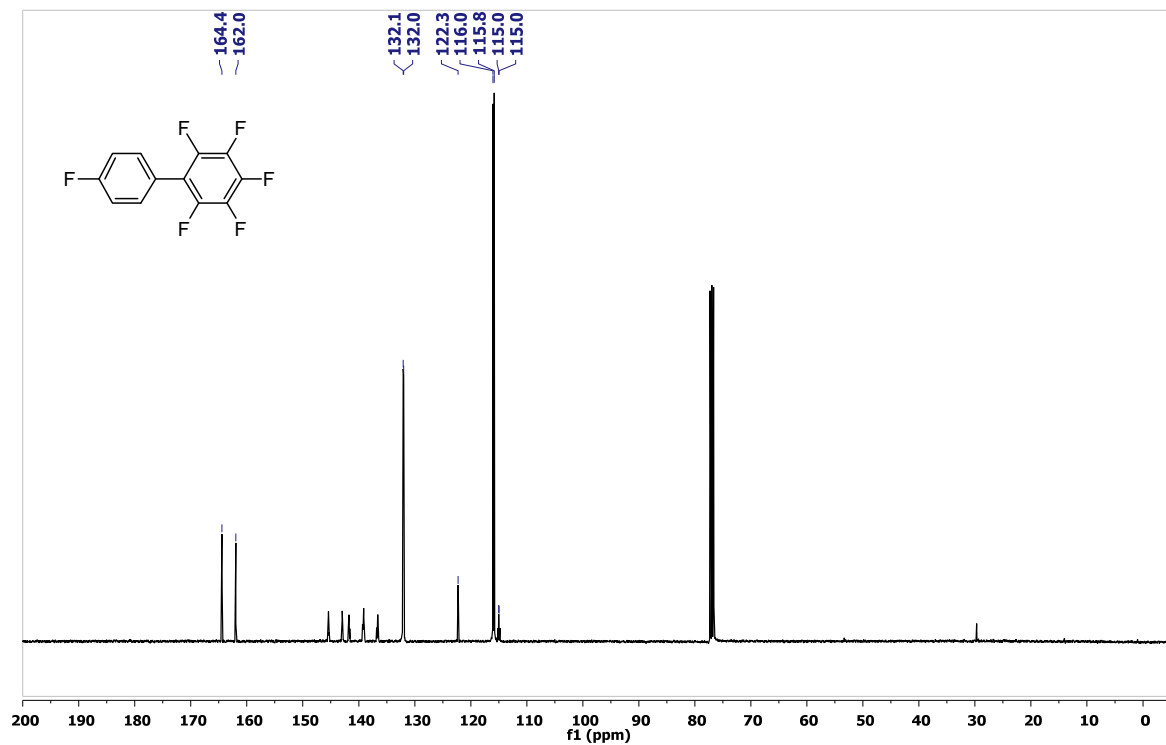
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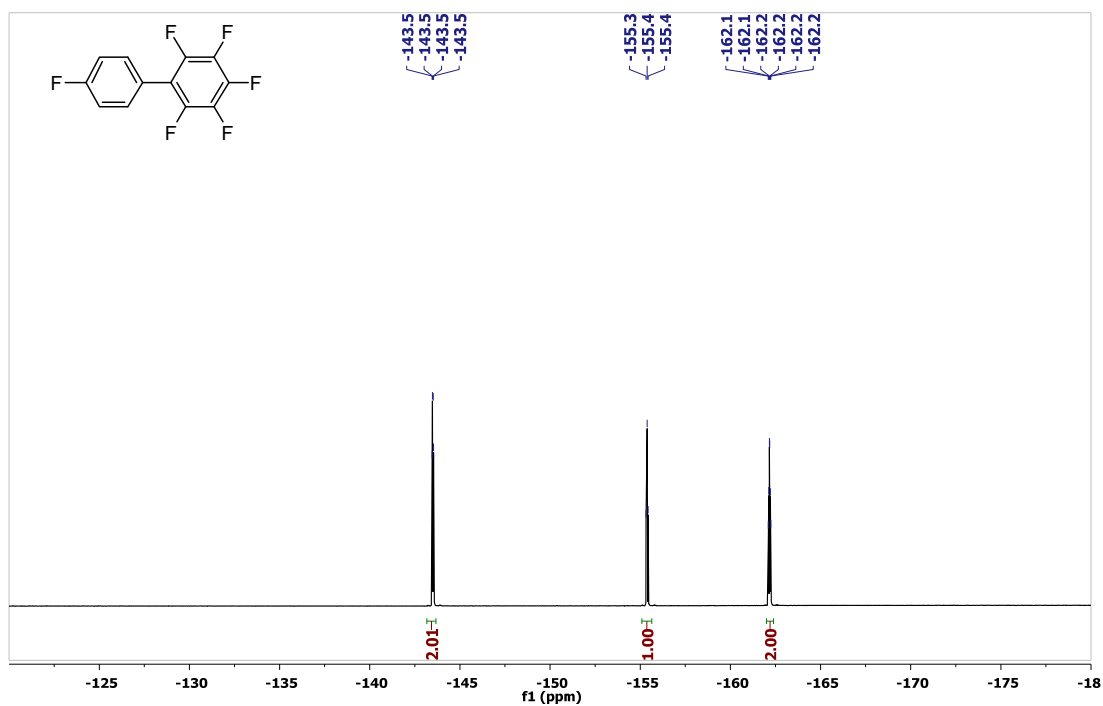
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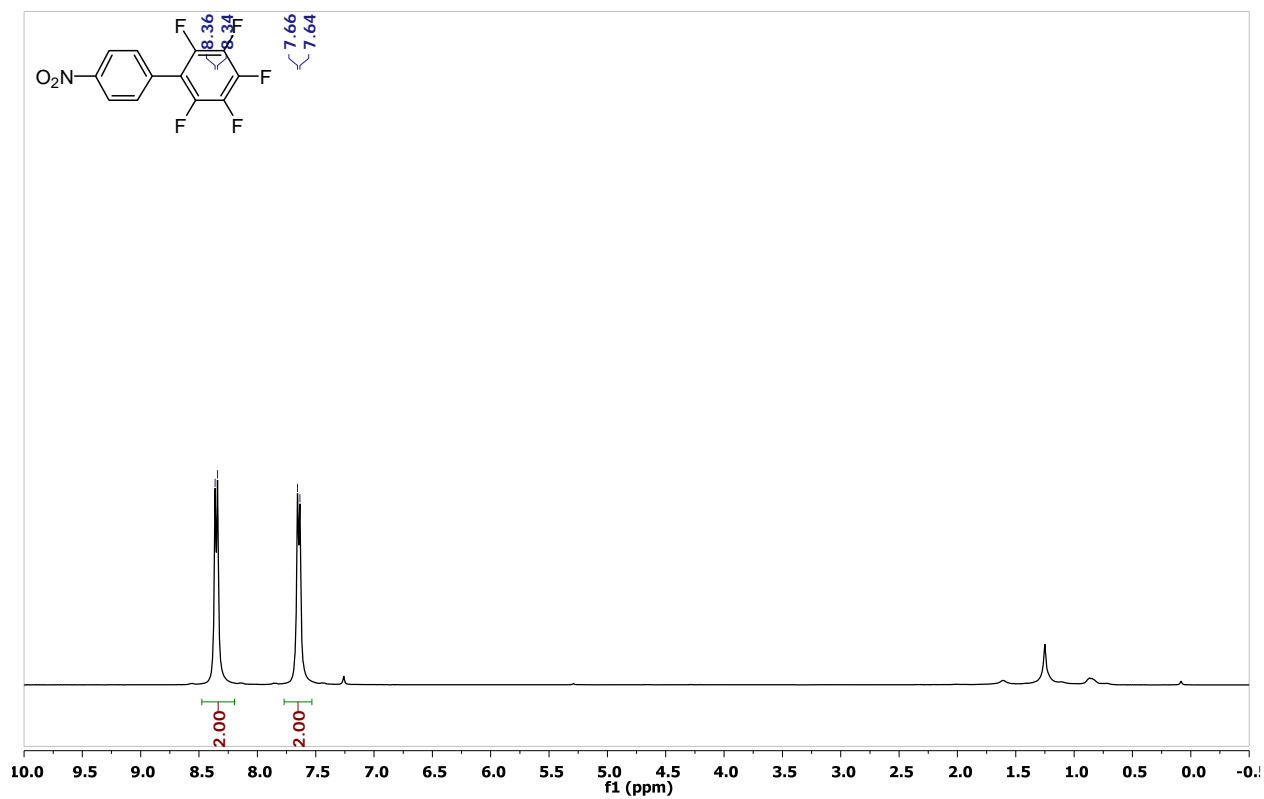
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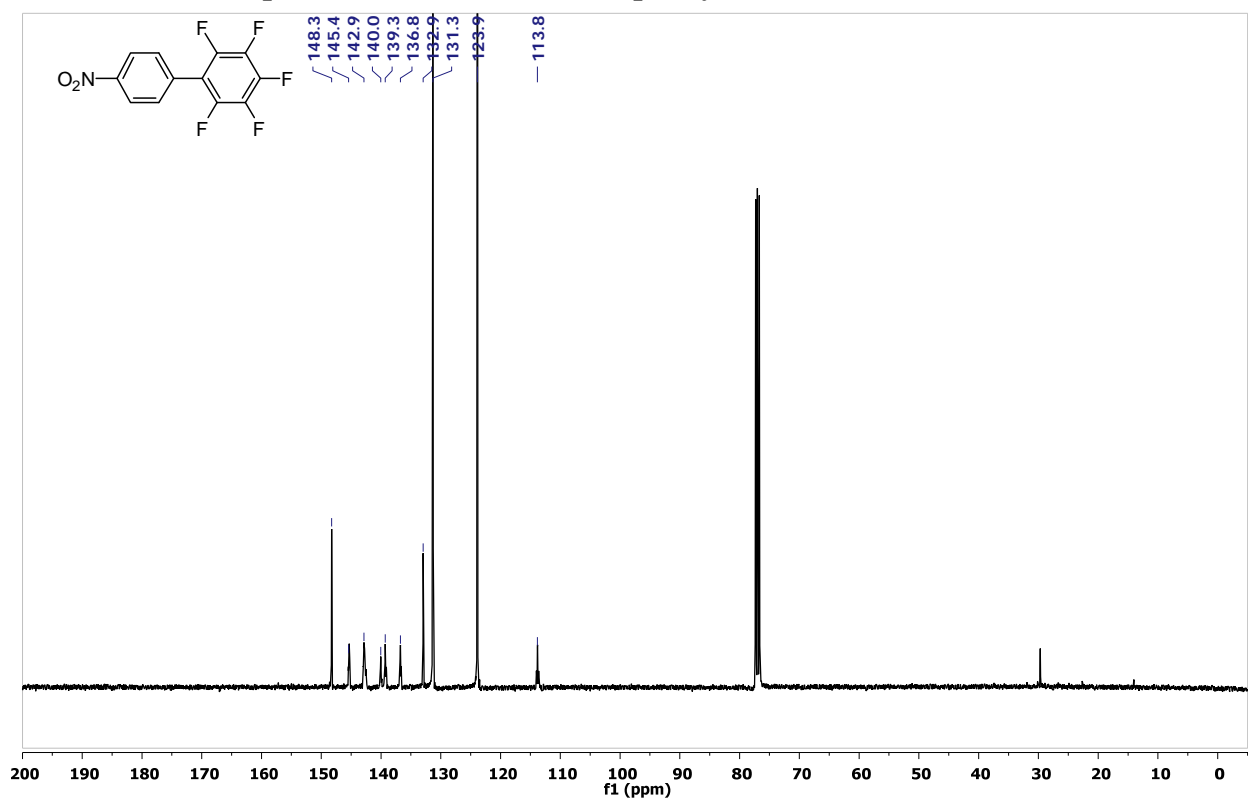
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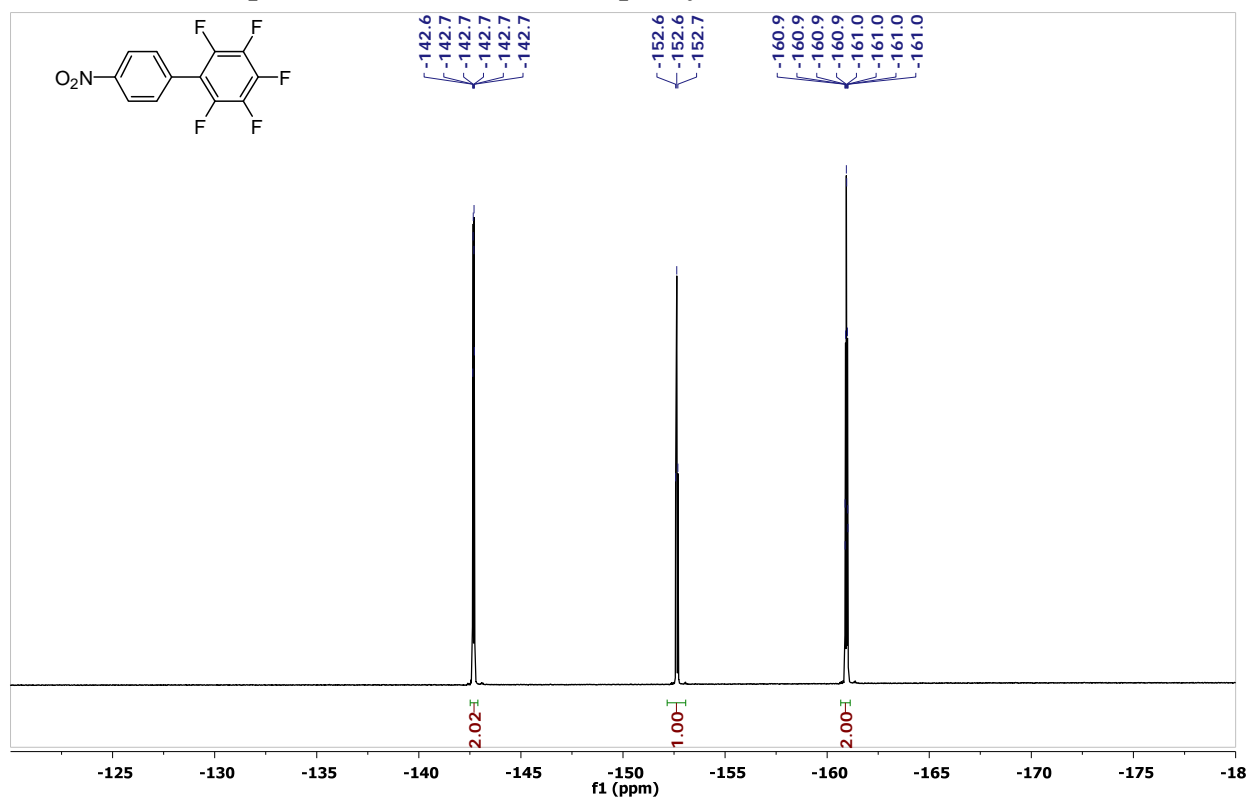
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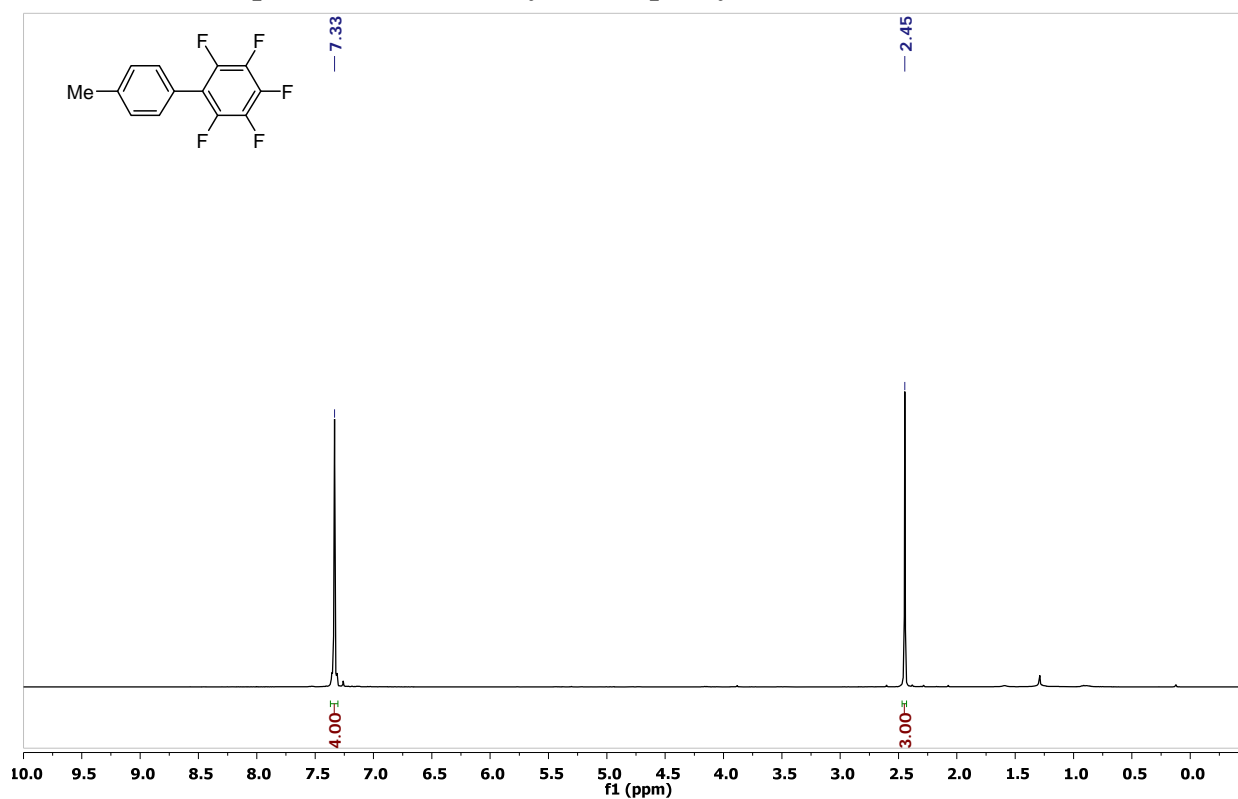
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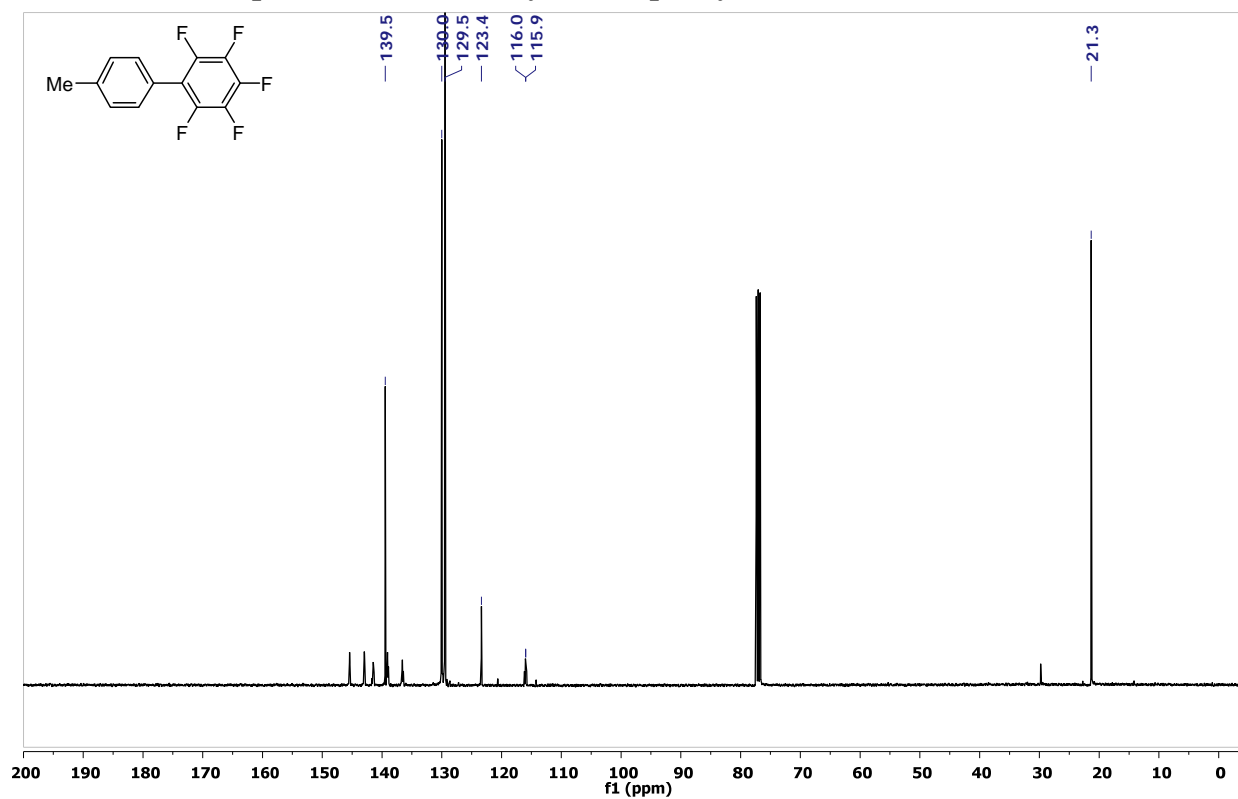
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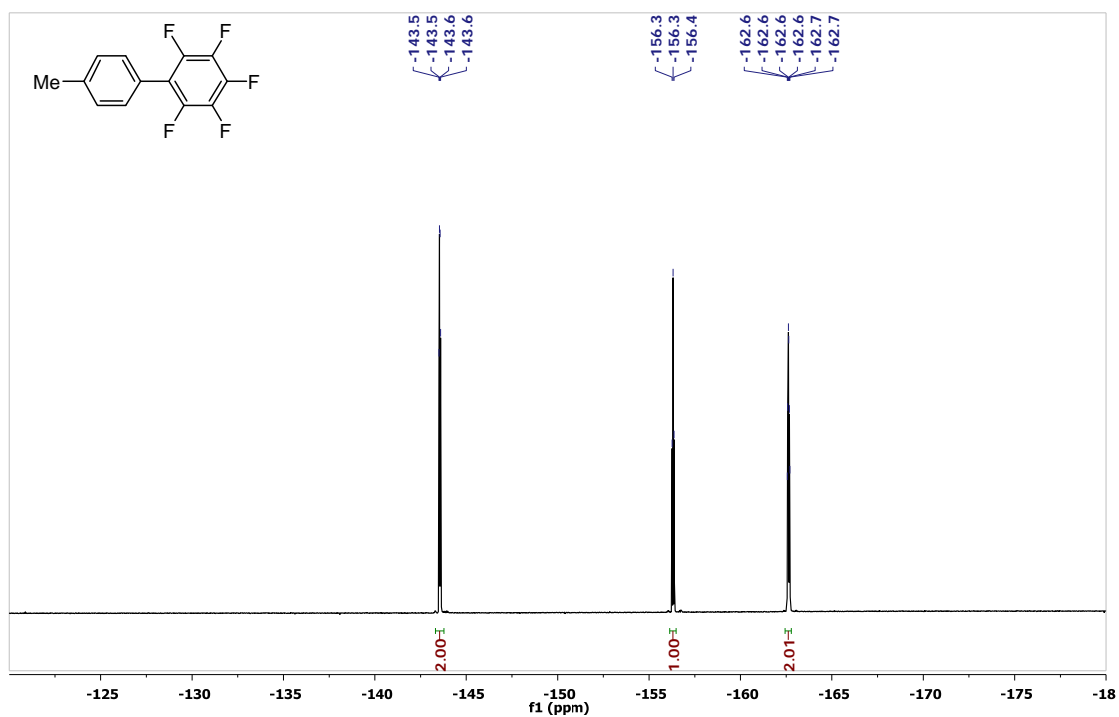
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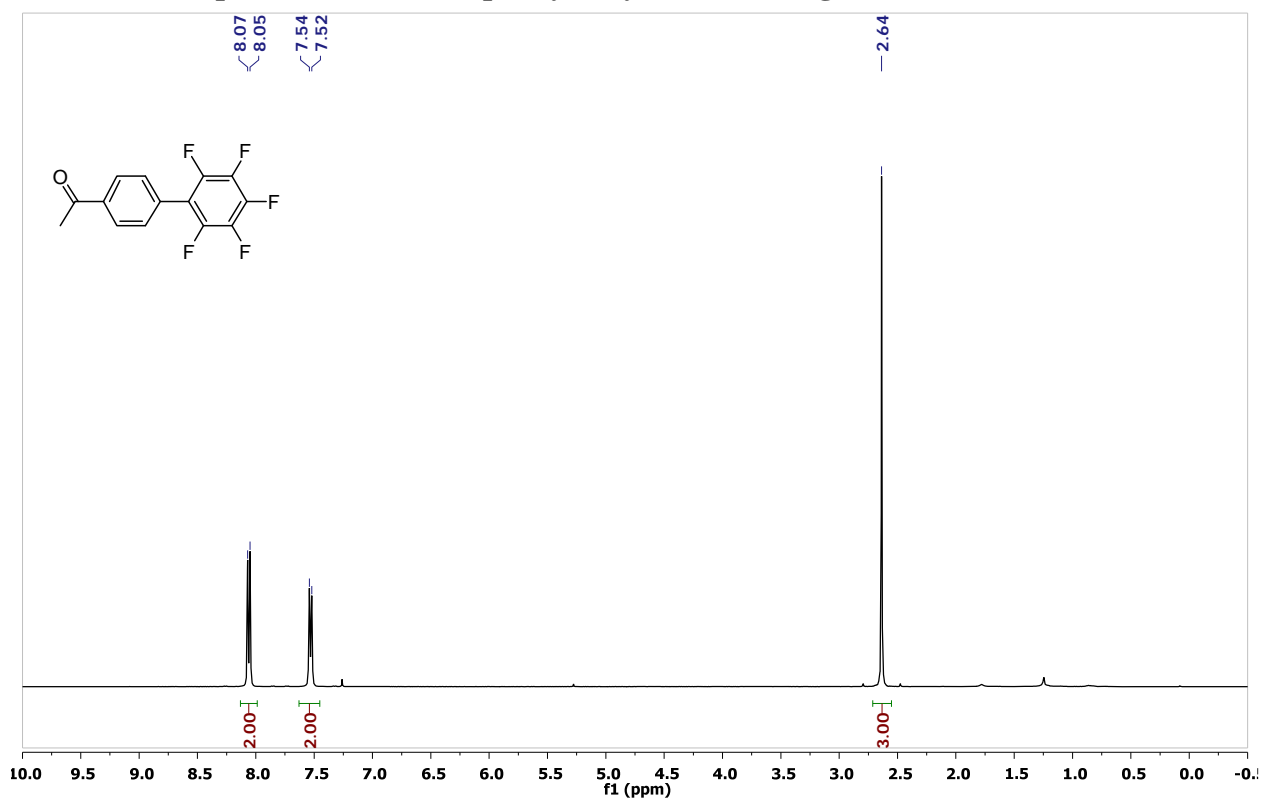
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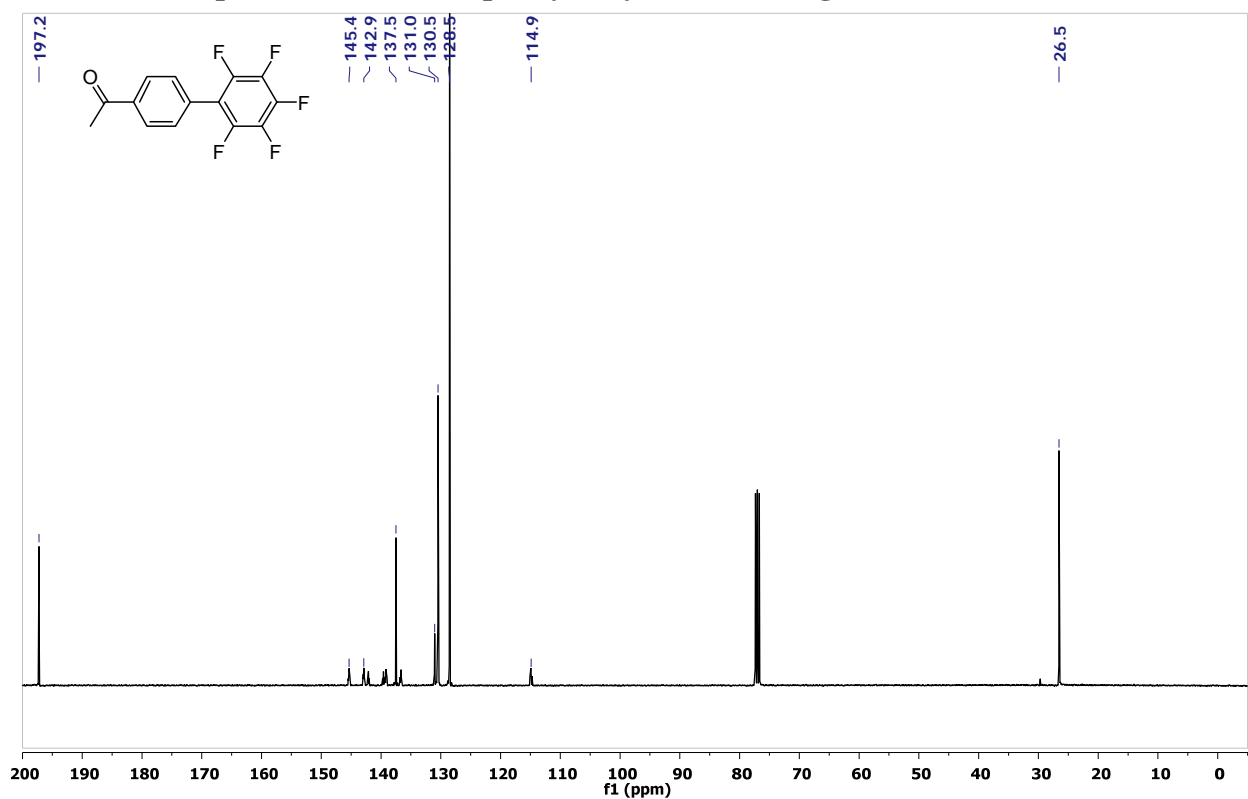
2,3,4,5,6-pentafluoro-4'-methyl-1,1'-biphenyl (3f) ^{19}F NMR-376 MHz, CDCl_3



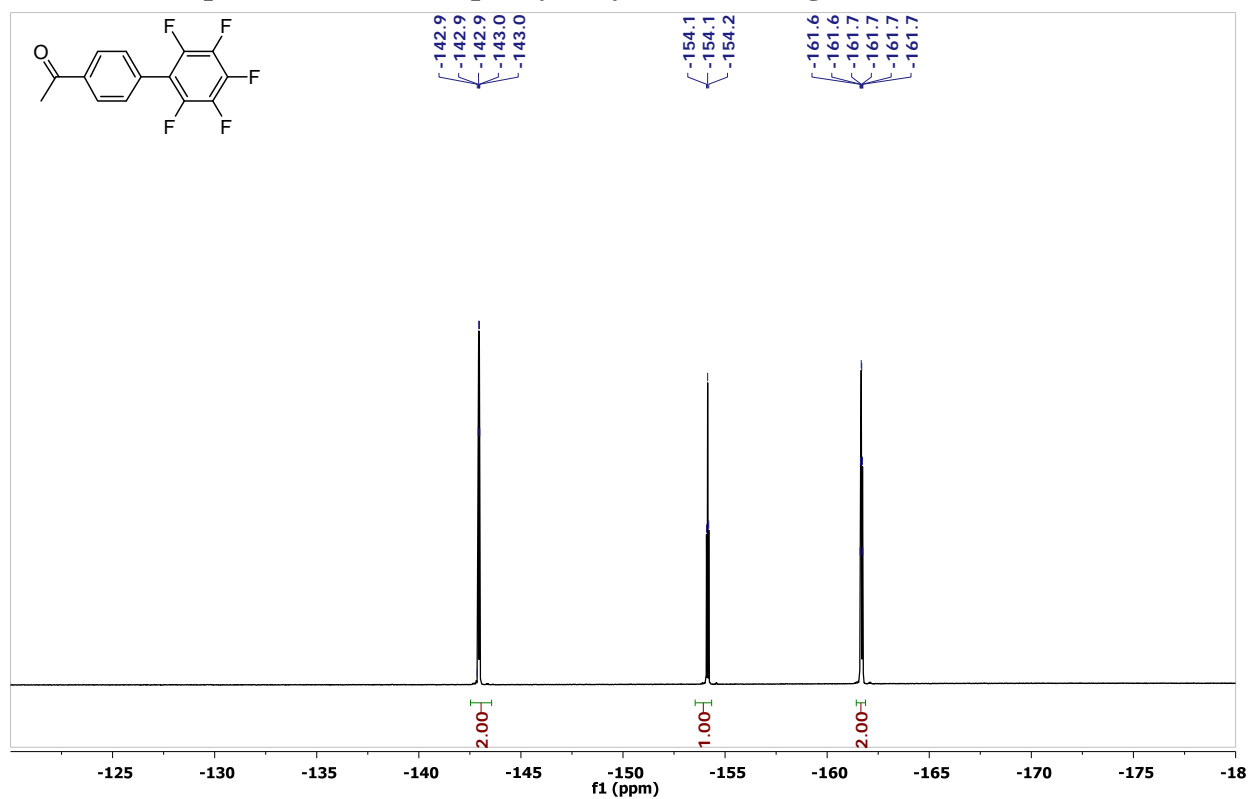
1-(2',3',4',5',6'-pentafluoro-[1,1'-biphenyl]-4-yl)ethanone (3g) ^1H NMR-400 MHz, CDCl_3



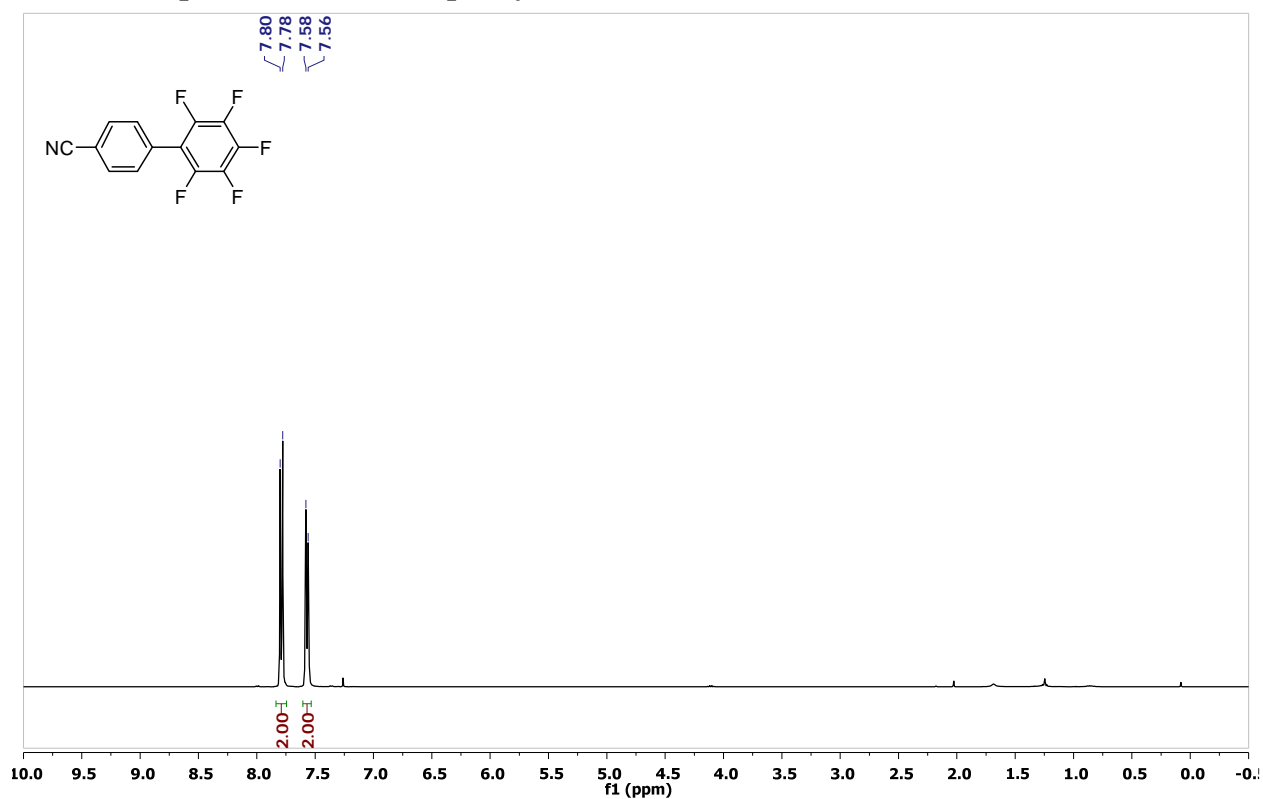
1-(2',3',4',5',6'-pentafluoro-[1,1'-biphenyl]-4-yl)ethanone (3g) ^{13}C NMR-101MHz, CDCl_3



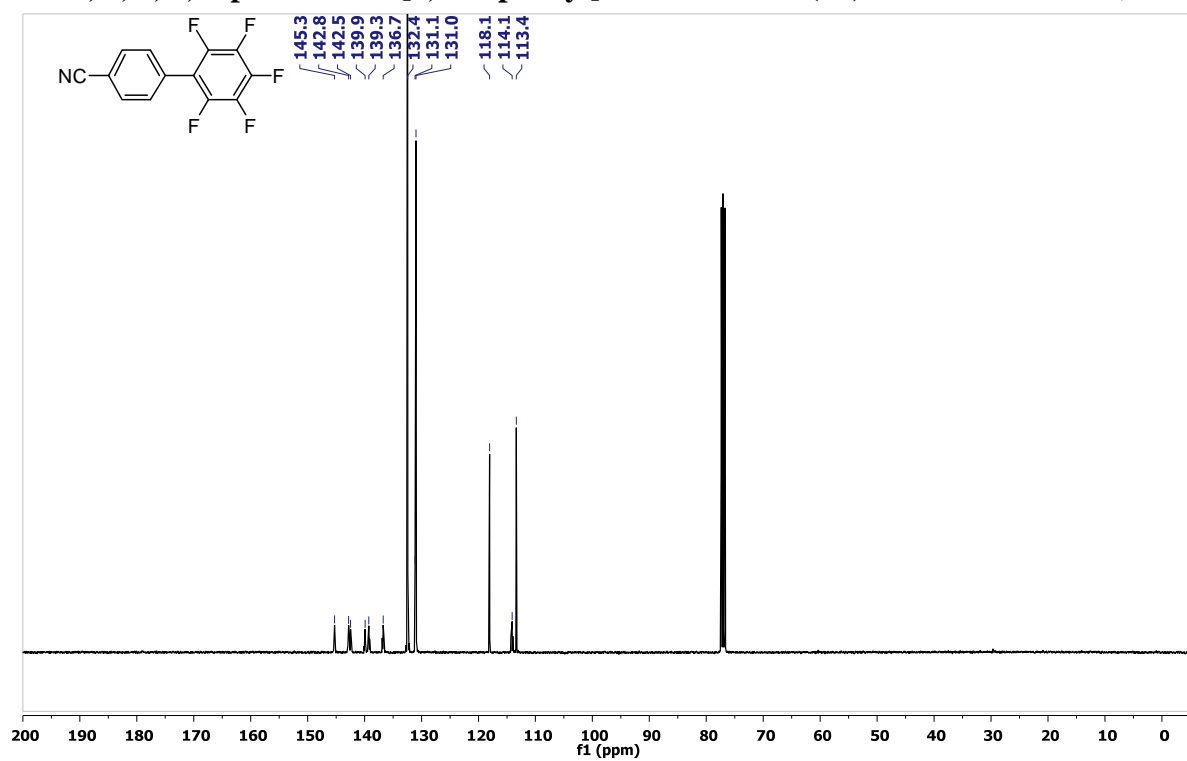
1-(2',3',4',5',6'-pentafluoro-[1,1'-biphenyl]-4-yl)ethanone (3g) ^{19}F NMR-376 MHz, CDCl_3



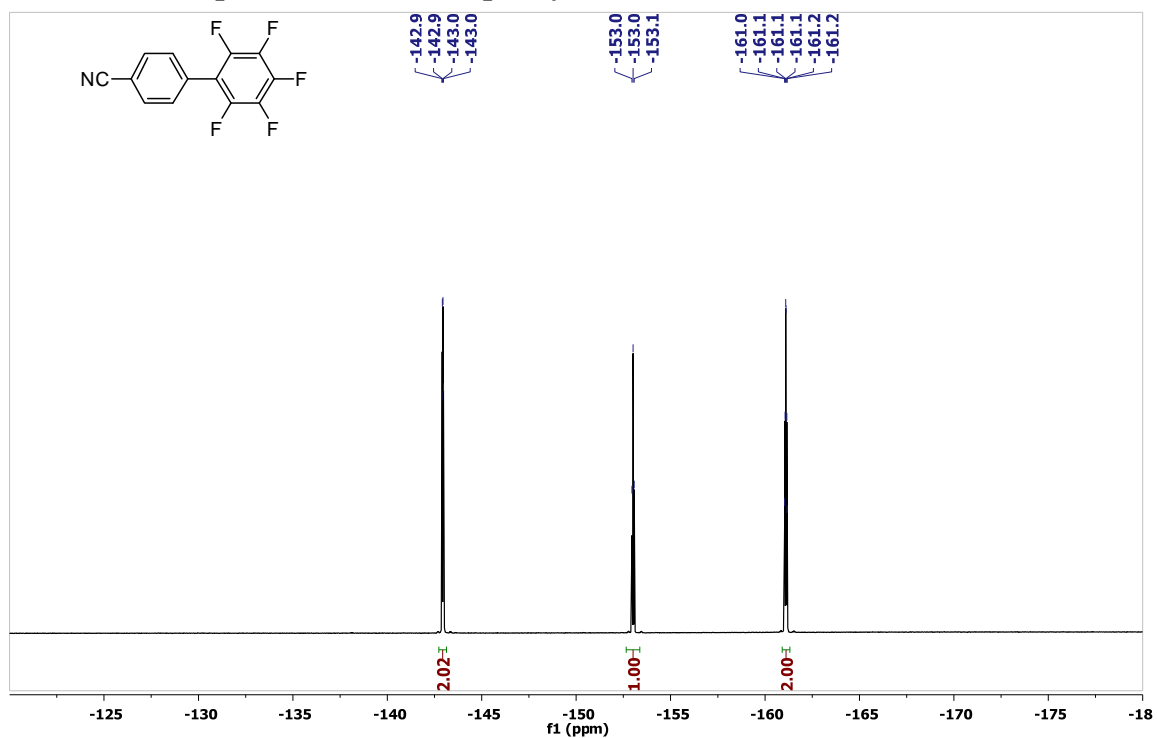
2',3',4',5',6'-pentafluoro-[1,1'-biphenyl]-4-carbonitrile (3h) ^1H NMR-400 MHz, CDCl_3



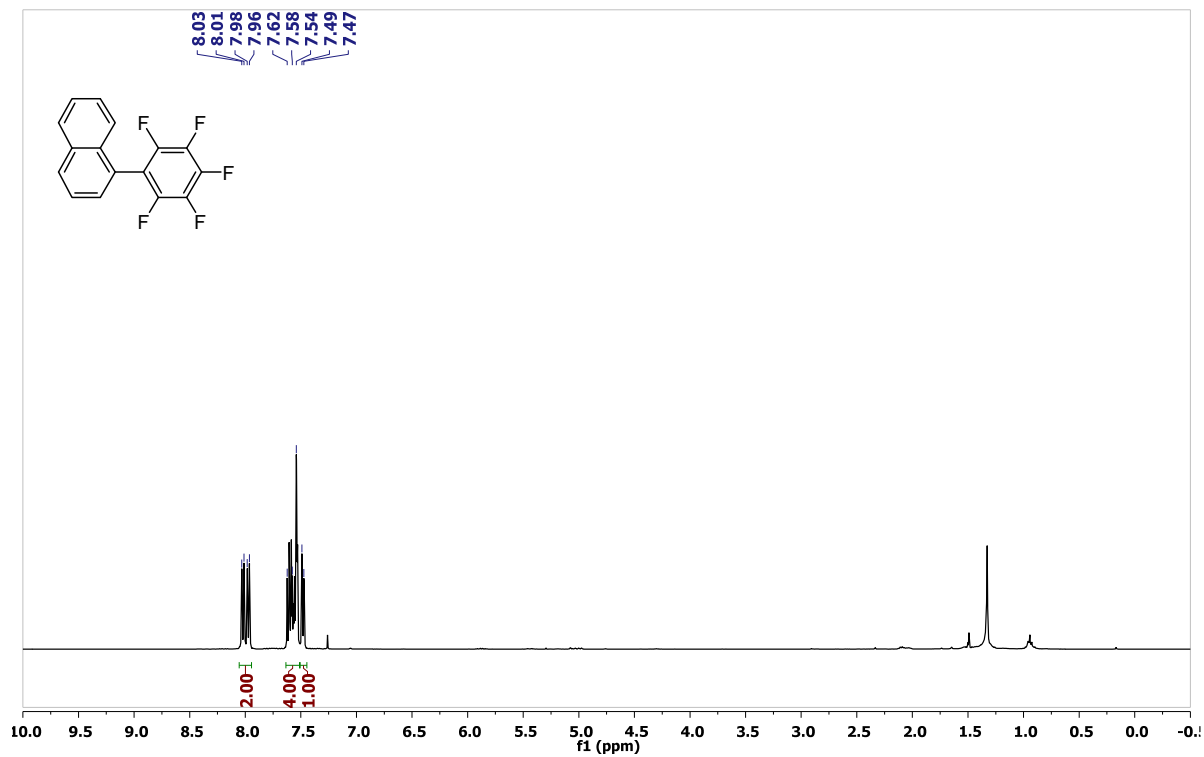
2',3',4',5',6'-pentafluoro-[1,1'-biphenyl]-4-carbonitrile (3h) ^{13}C NMR-101MHz, CDCl_3



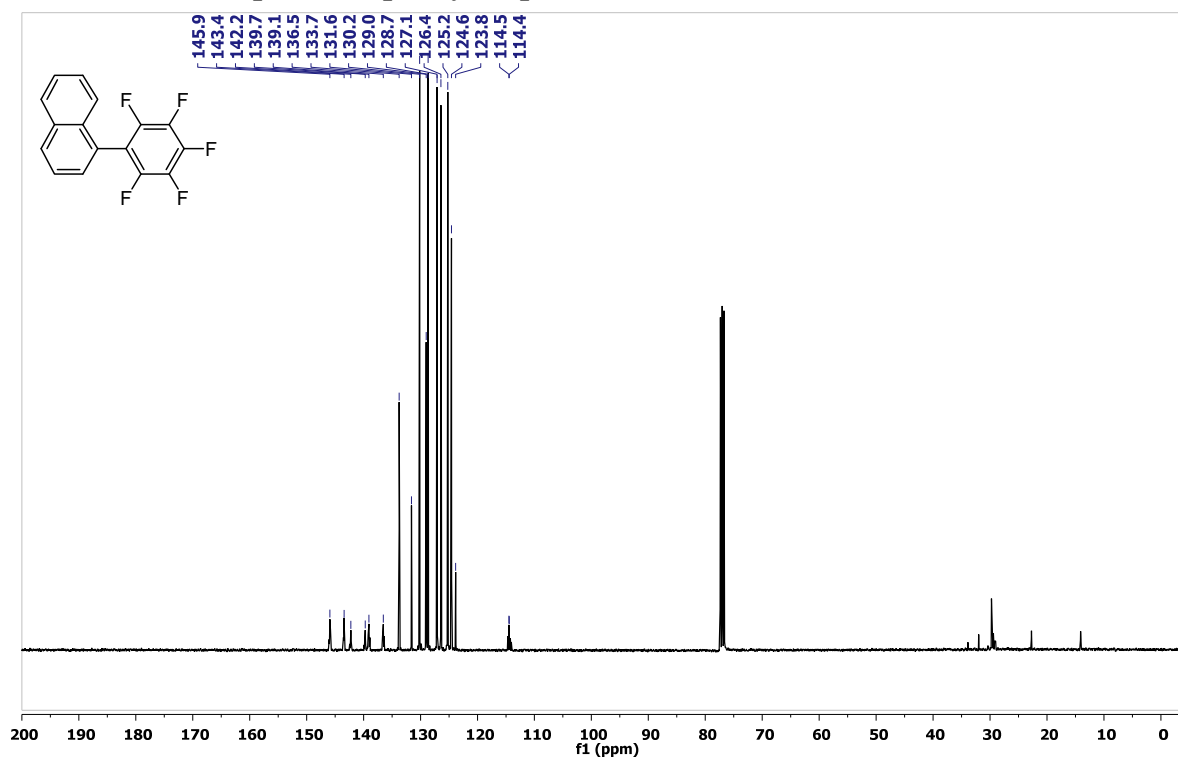
2',3',4',5',6'-pentafluoro-[1,1'-biphenyl]-4-carbonitrile (3h) ^{19}F NMR-376 MHz, CDCl_3



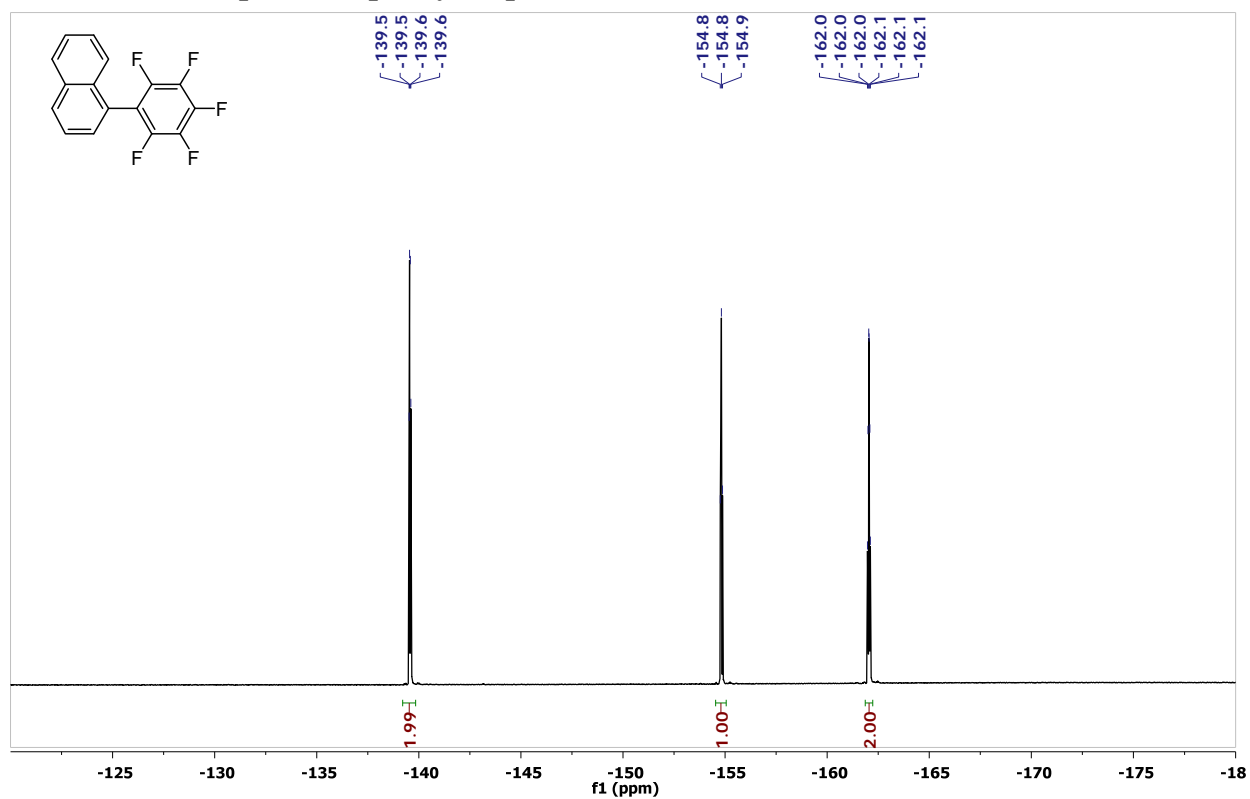
1-(perfluorophenyl)naphthalene (3i) ^1H NMR-400 MHz, CDCl_3



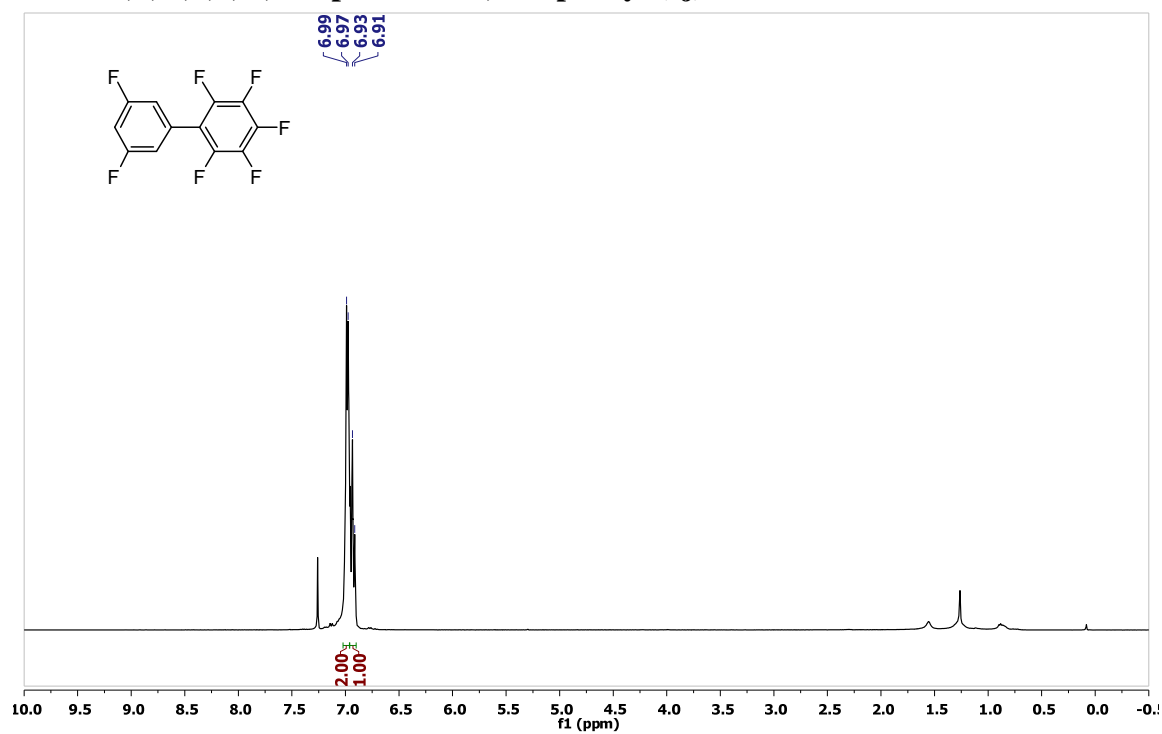
1-(perfluorophenyl)naphthalene (3i) ^{13}C NMR-101MHz, CDCl_3



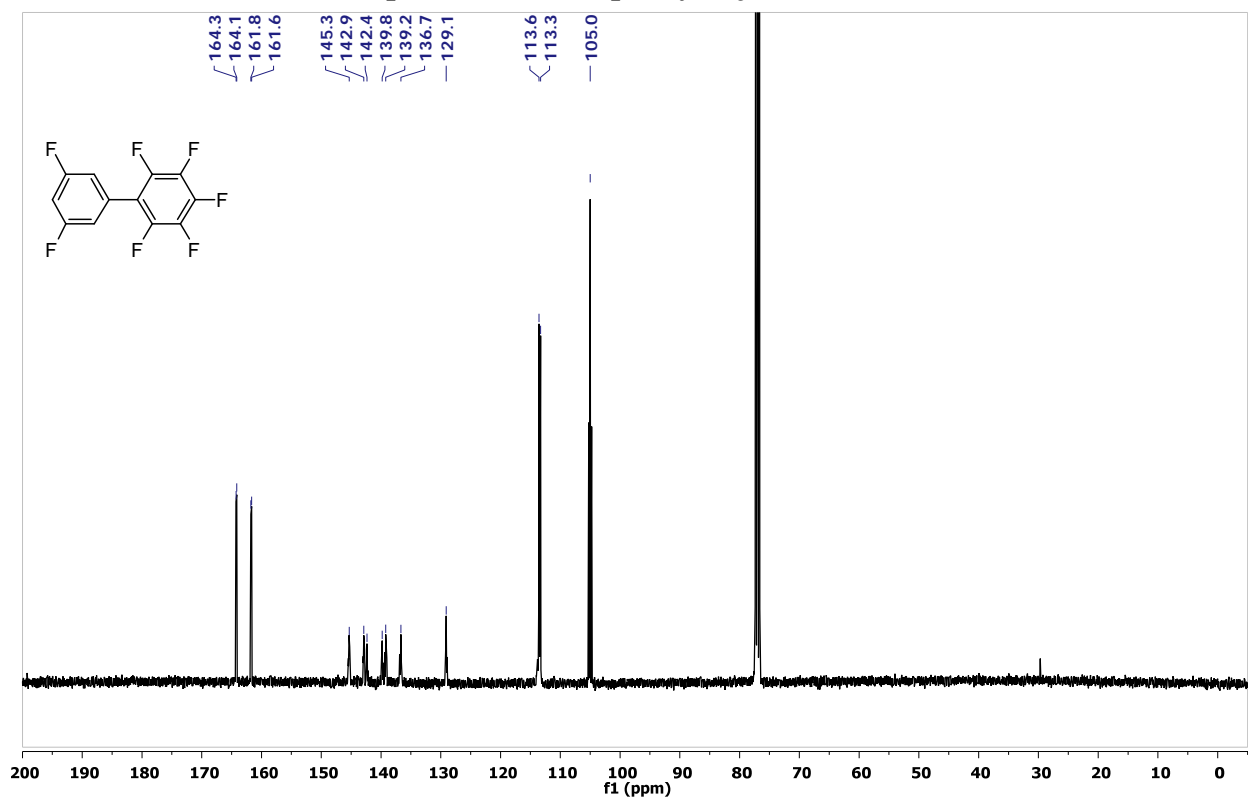
1-(perfluorophenyl)naphthalene (3i) ^{19}F NMR-376 MHz, CDCl_3

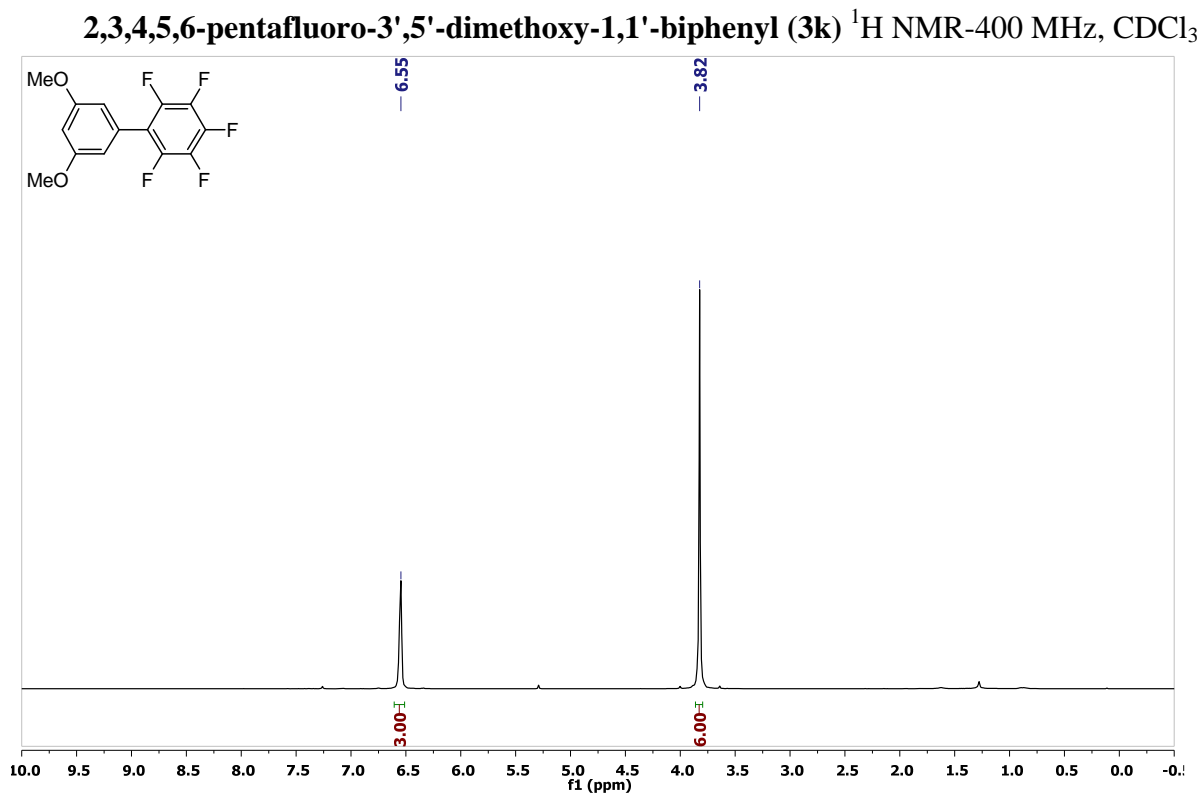
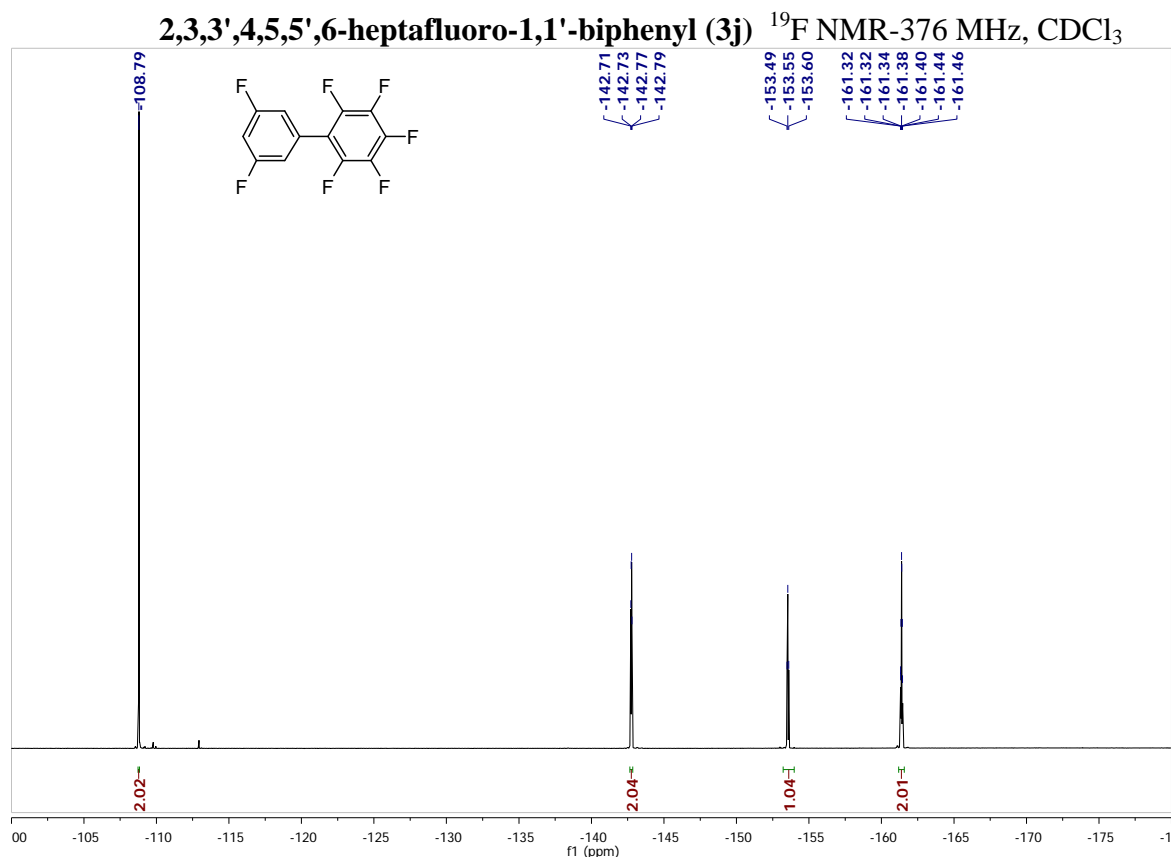


2,3,3',4,5,5',6-heptafluoro-1,1'-biphenyl (3j) ^1H NMR-400 MHz, CDCl_3

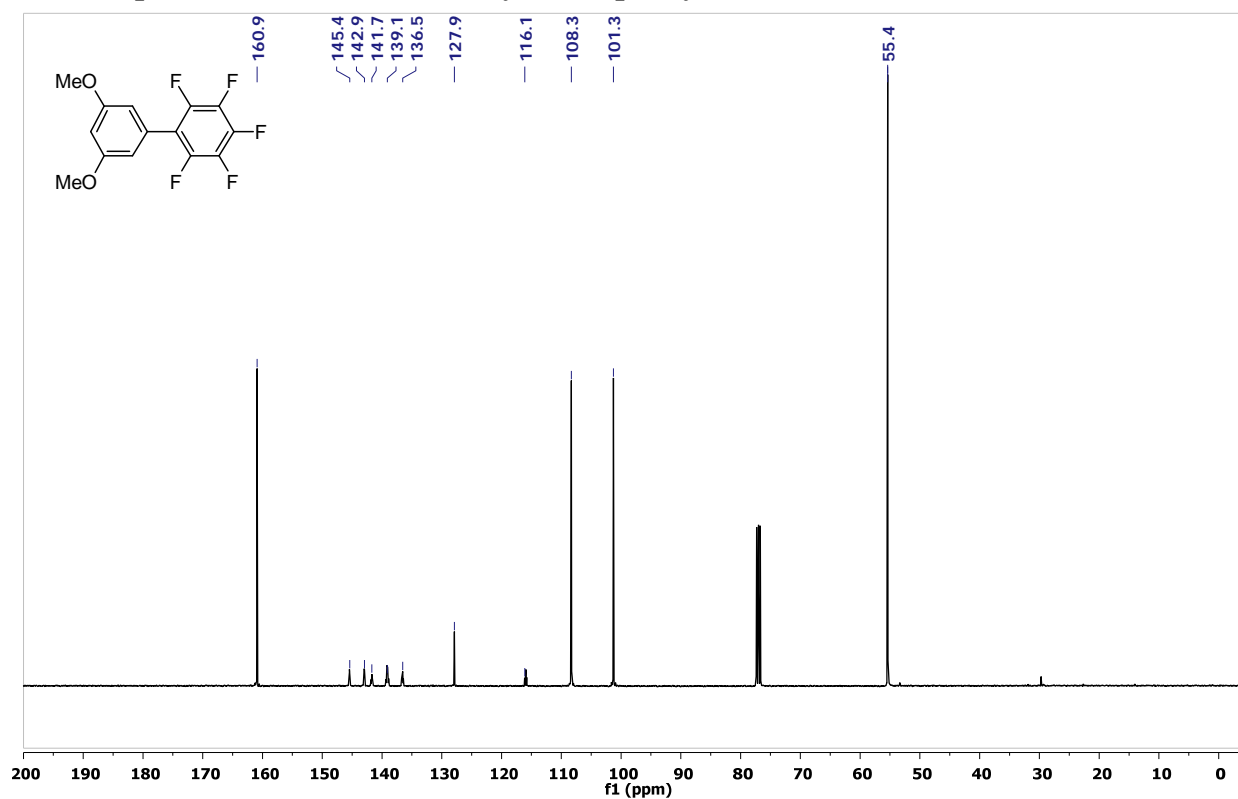


2,3,3',4,5,5',6-heptafluoro-1,1'-biphenyl (3j) ^{13}C NMR-101MHz, CDCl_3

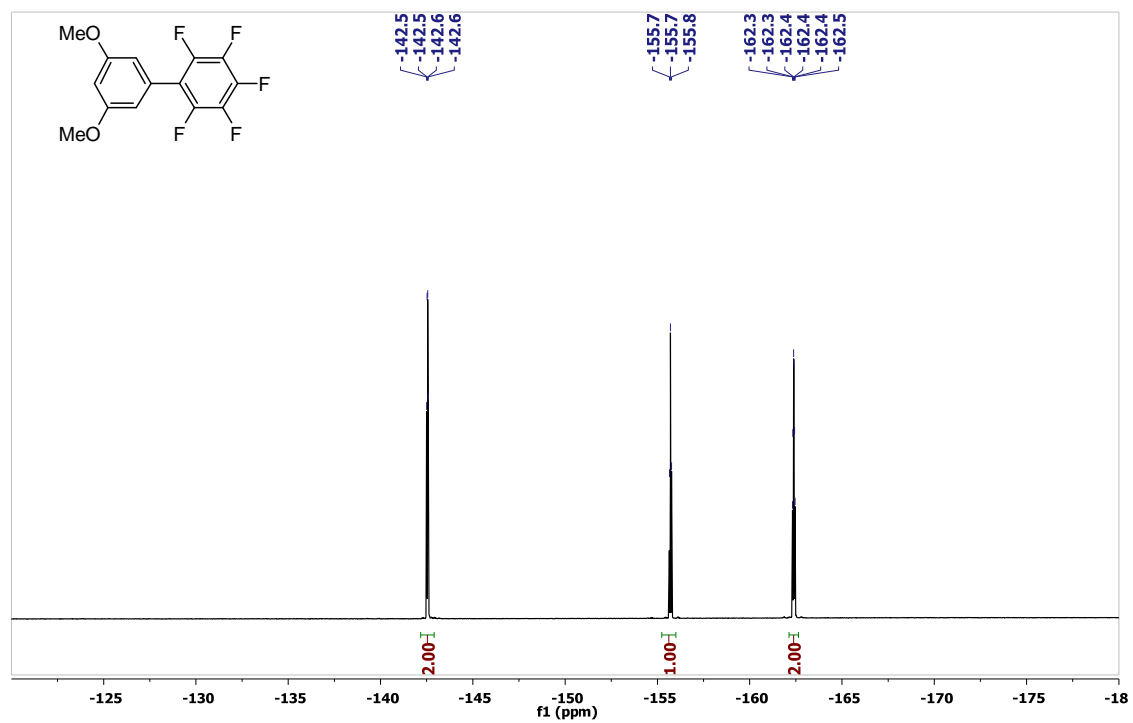




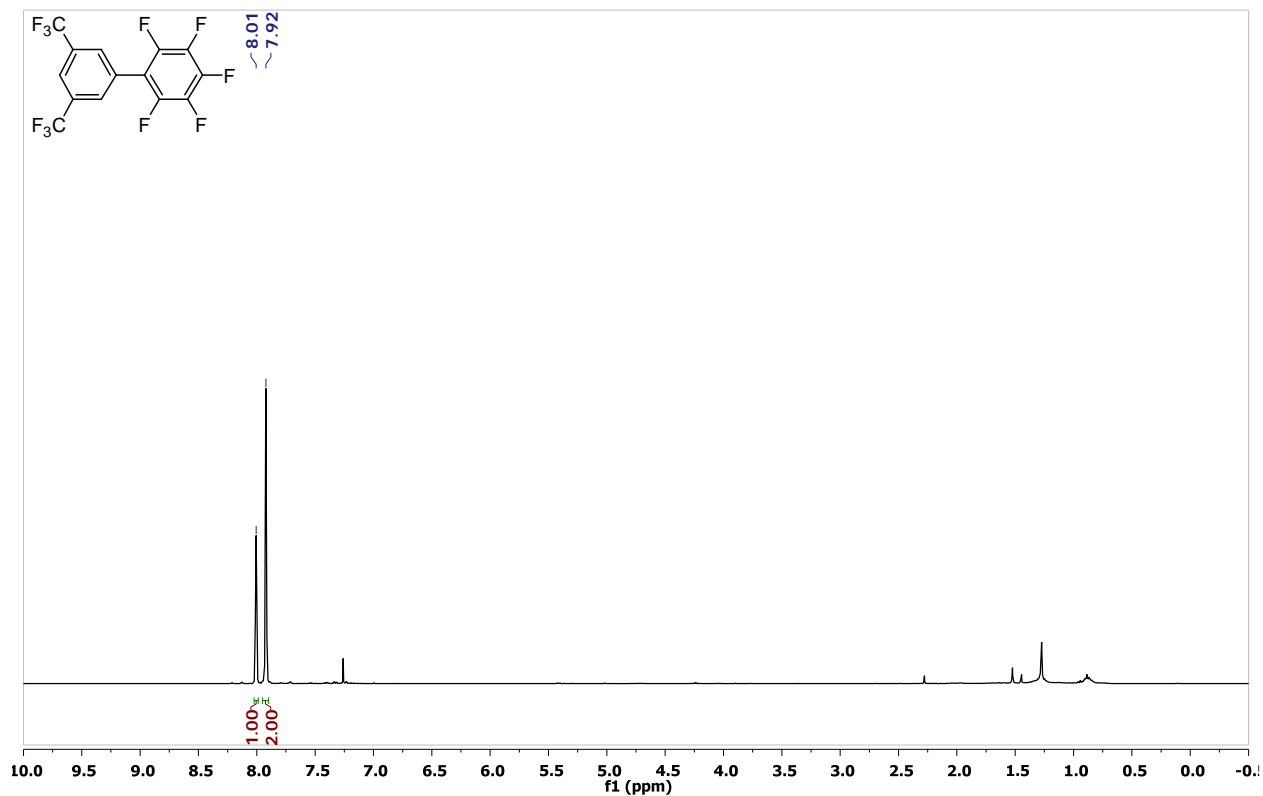
2,3,4,5,6-pentafluoro-3',5'-dimethoxy-1,1'-biphenyl (3k) ^{13}C NMR-101MHz, CDCl_3



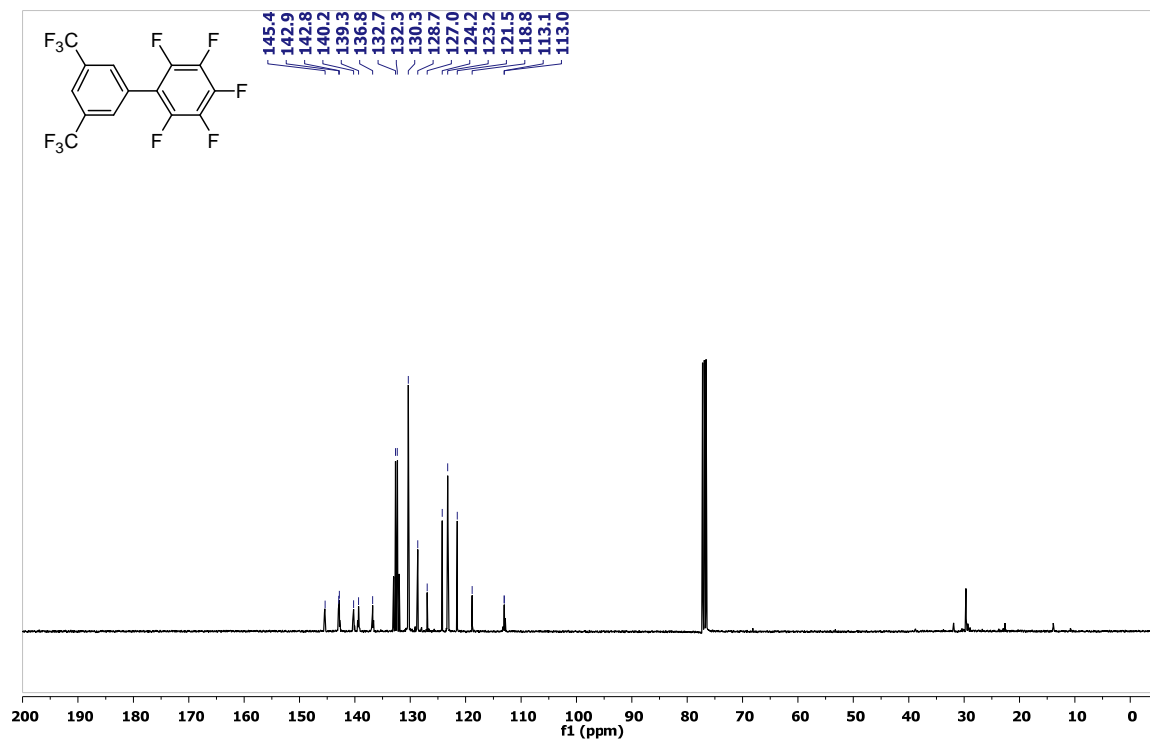
2,3,4,5,6-pentafluoro-3',5'-dimethoxy-1,1'-biphenyl (3k) ^{19}F NMR-376 MHz, CDCl_3



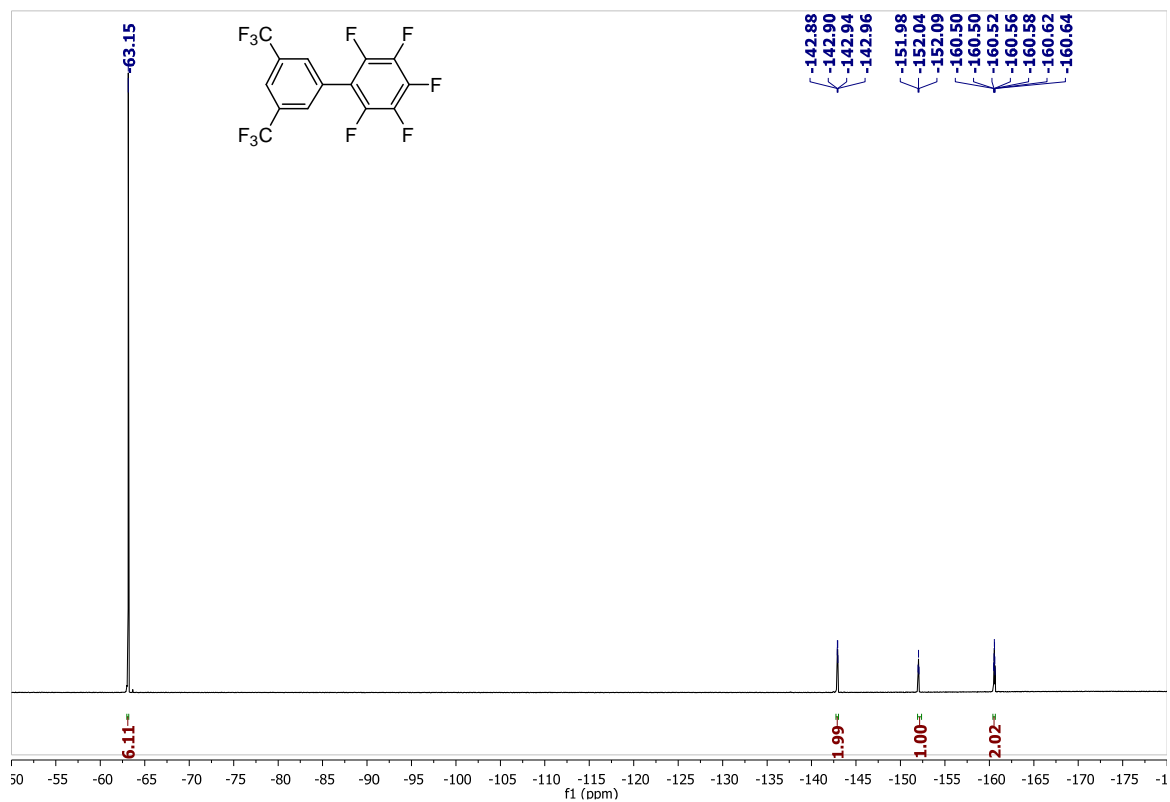
2,3,4,5,6-pentafluoro-3',5'-bis(trifluoromethyl)-1,1'-biphenyl (3l) ^1H NMR-400 MHz, CDCl_3



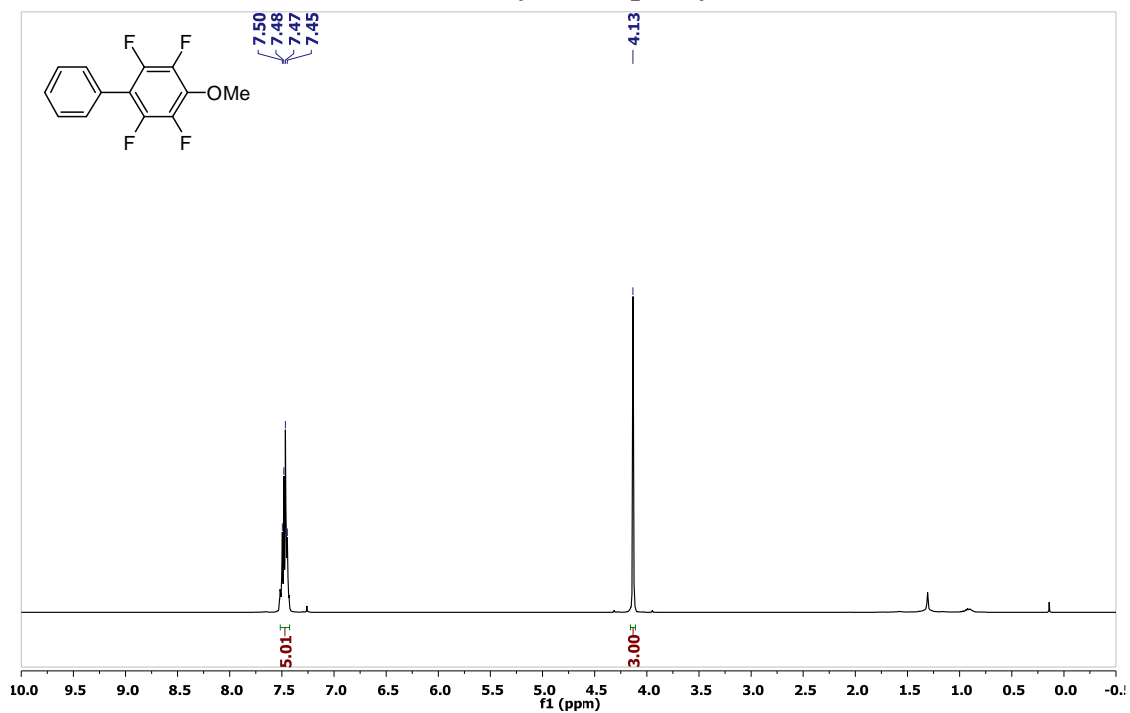
2,3,4,5,6-pentafluoro-3',5'-bis(trifluoromethyl)-1,1'-biphenyl (3l) ^{13}C NMR-101MHz, CDCl_3



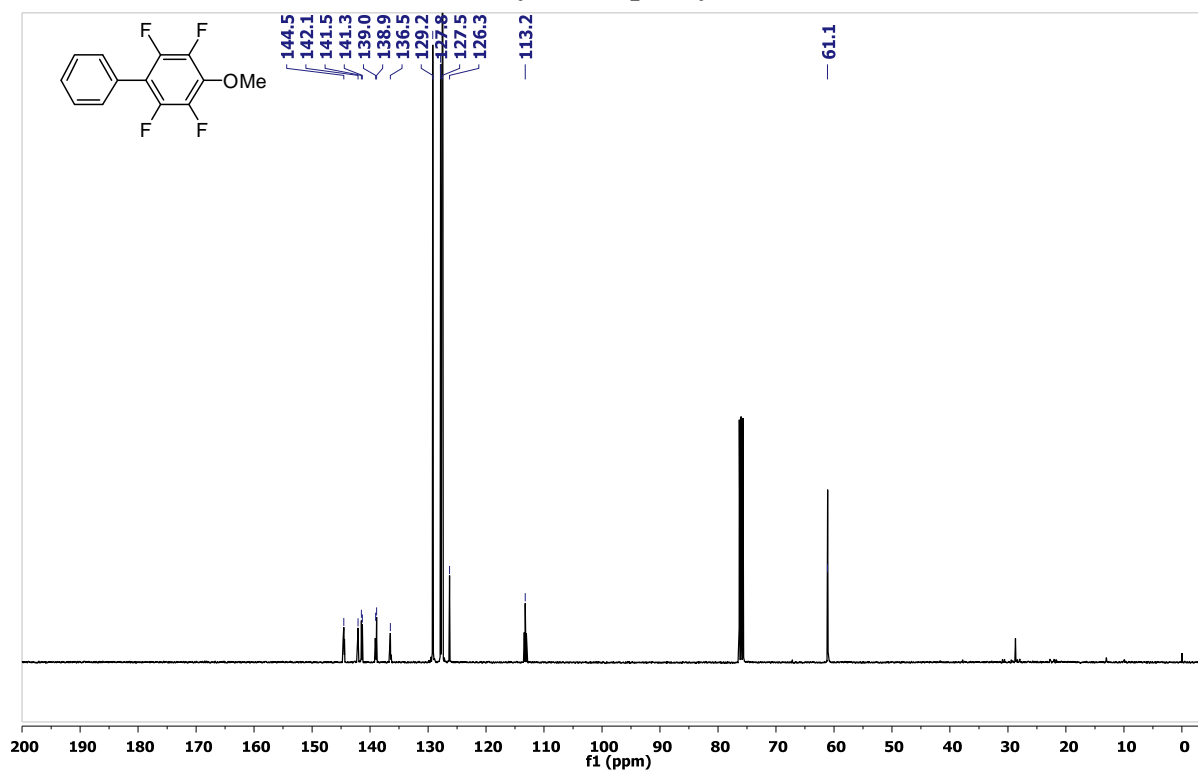
2,3,4,5,6-pentafluoro-3',5'-bis(trifluoromethyl)-1,1'-biphenyl (3l) ^{19}F NMR-376 MHz, CDCl_3



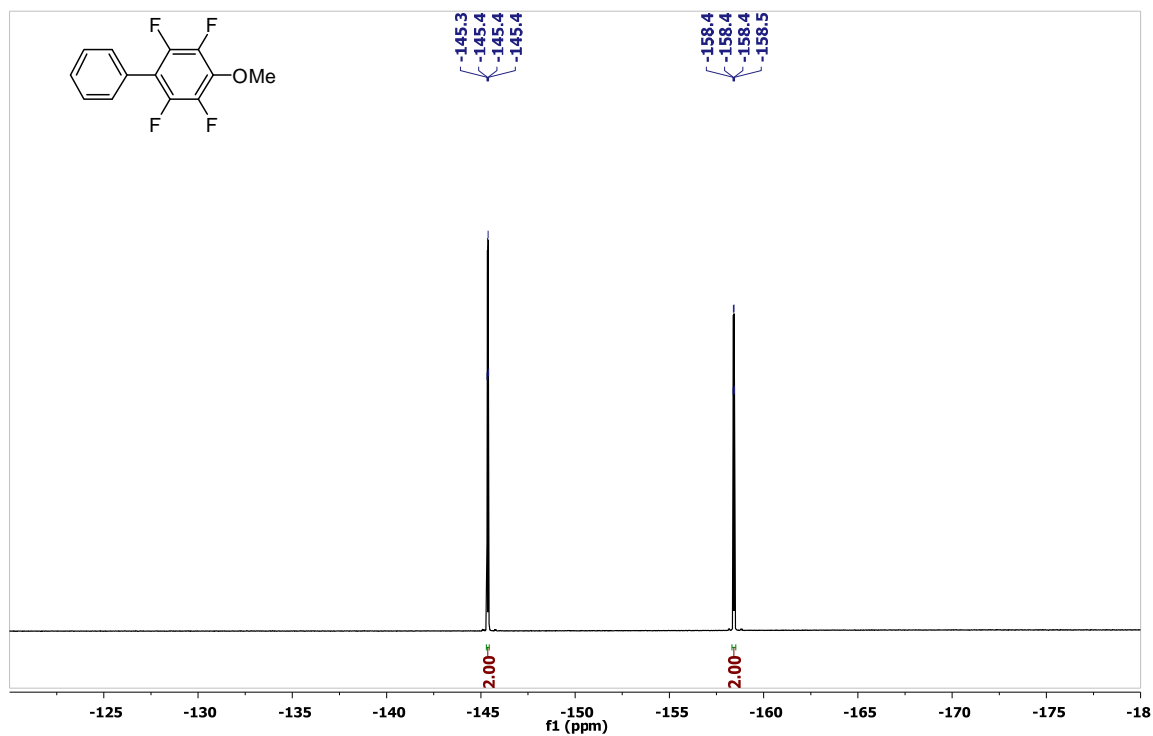
2,3,5,6-tetrafluoro-4-methoxy-1,1'-biphenyl (3m) ^1H NMR-400 MHz, CDCl_3



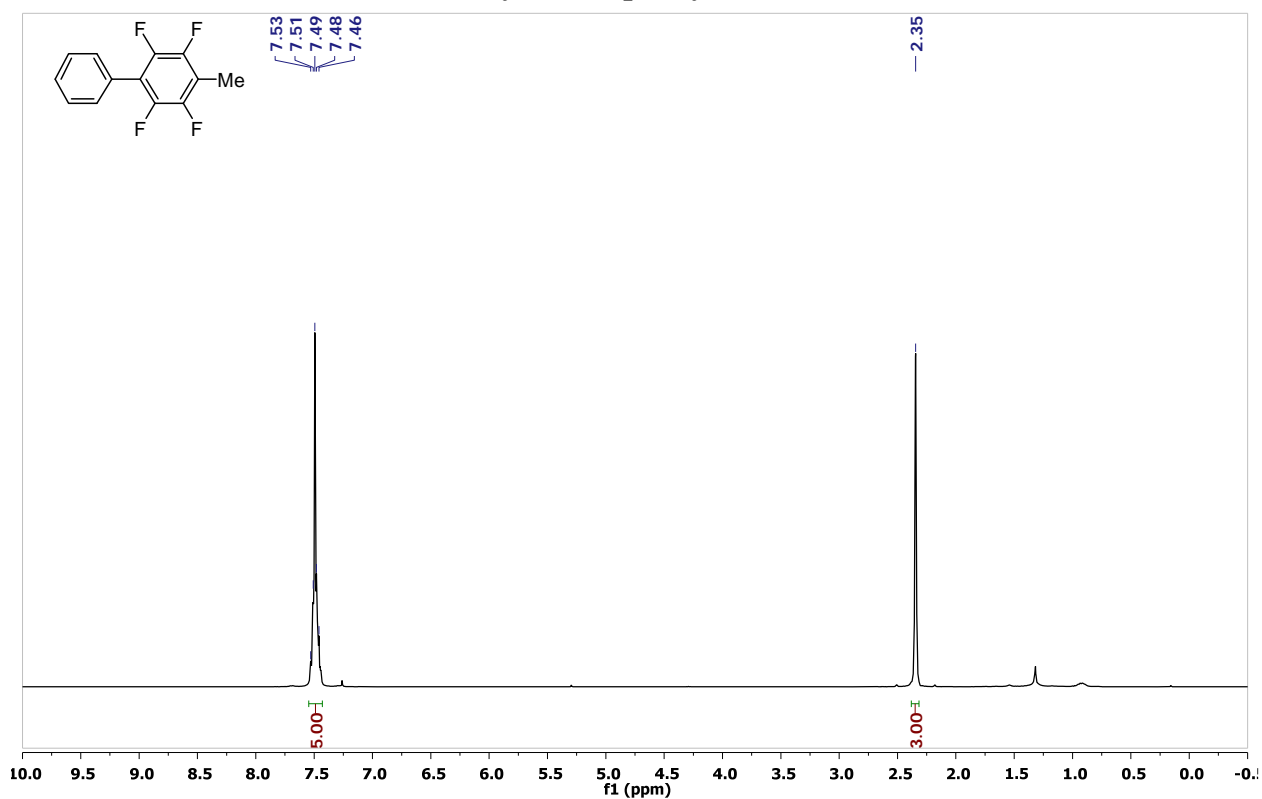
2,3,5,6-tetrafluoro-4-methoxy-1,1'-biphenyl (3m) ^{13}C NMR-101MHz, CDCl_3



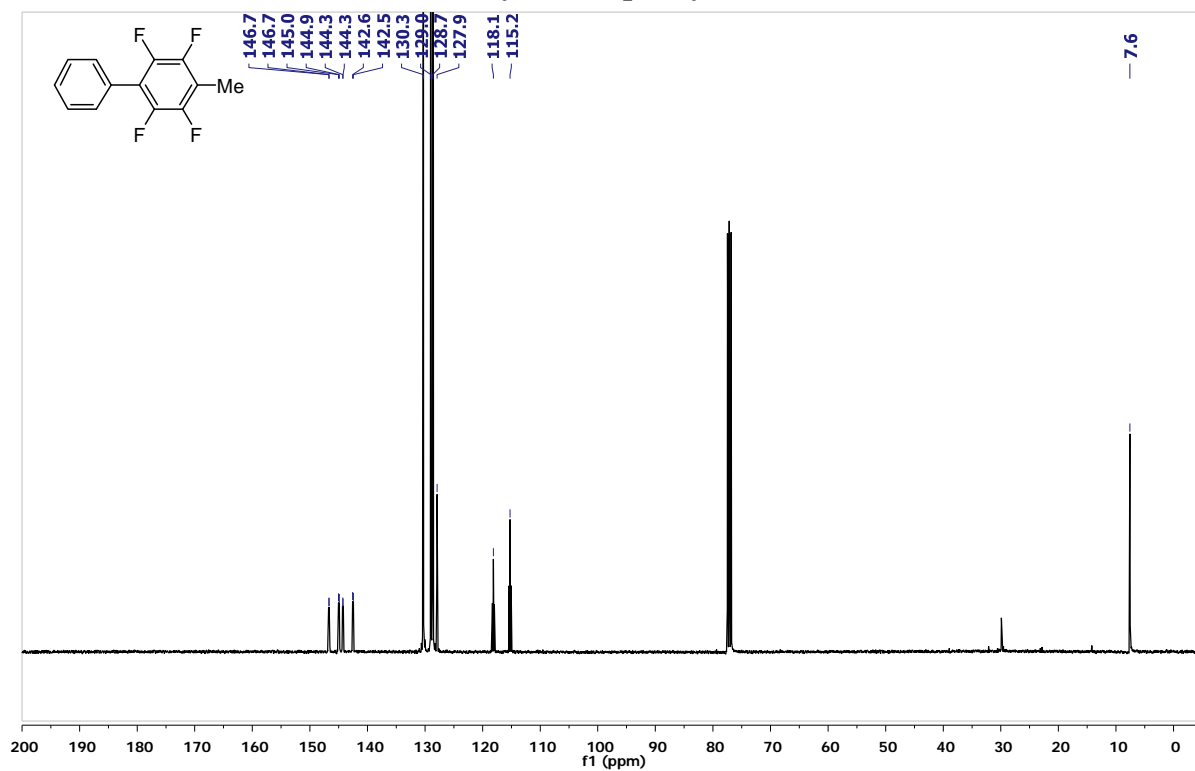
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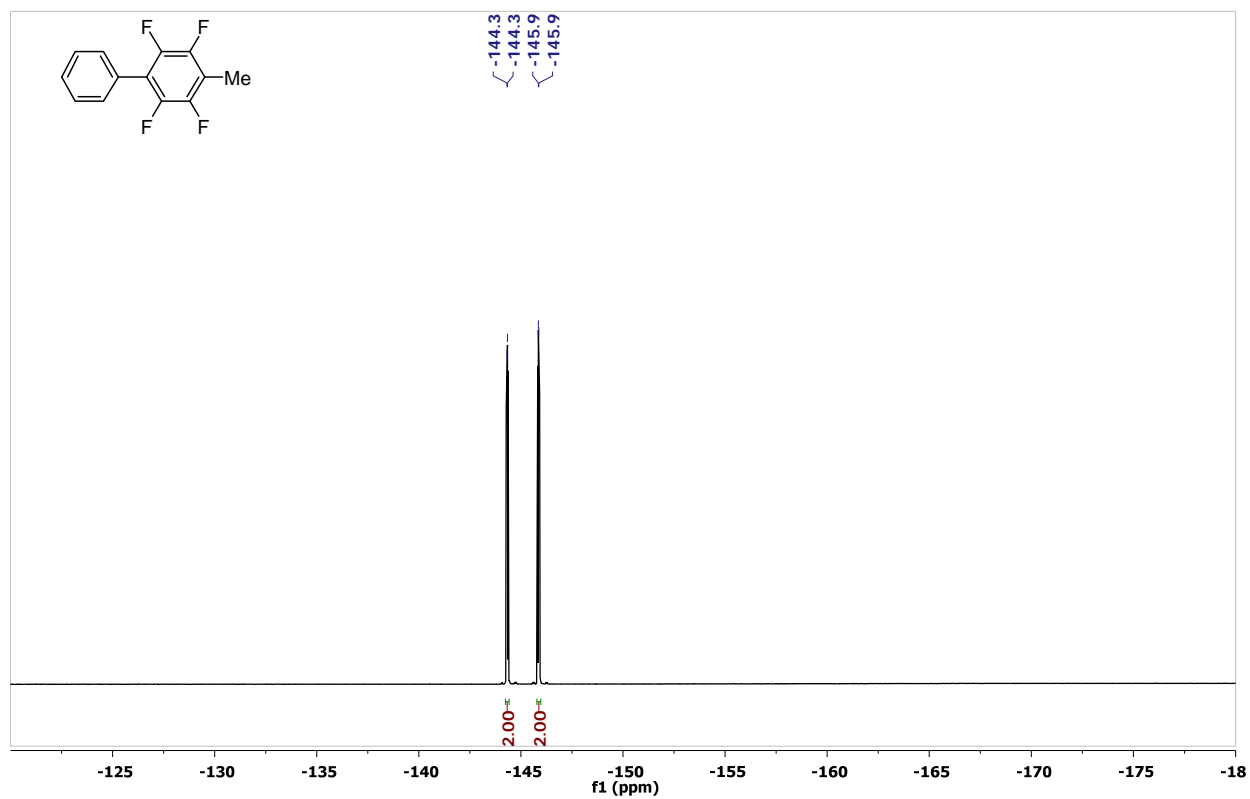
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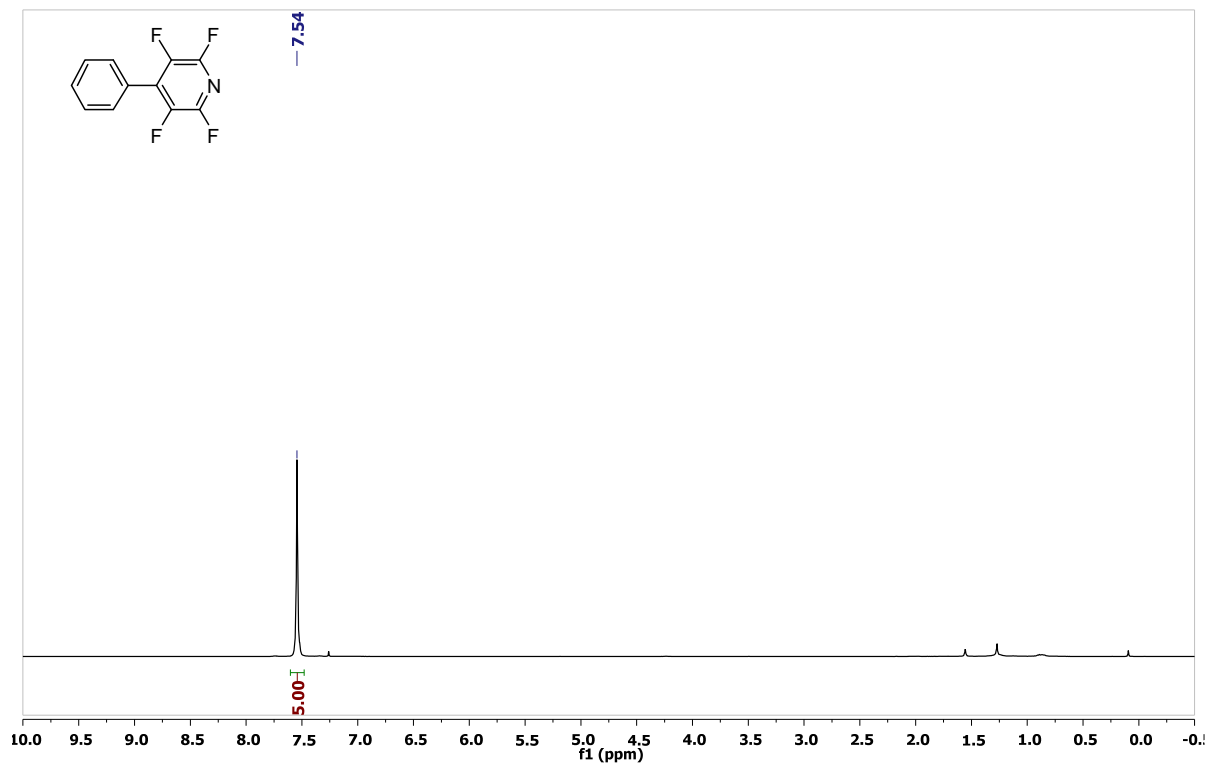
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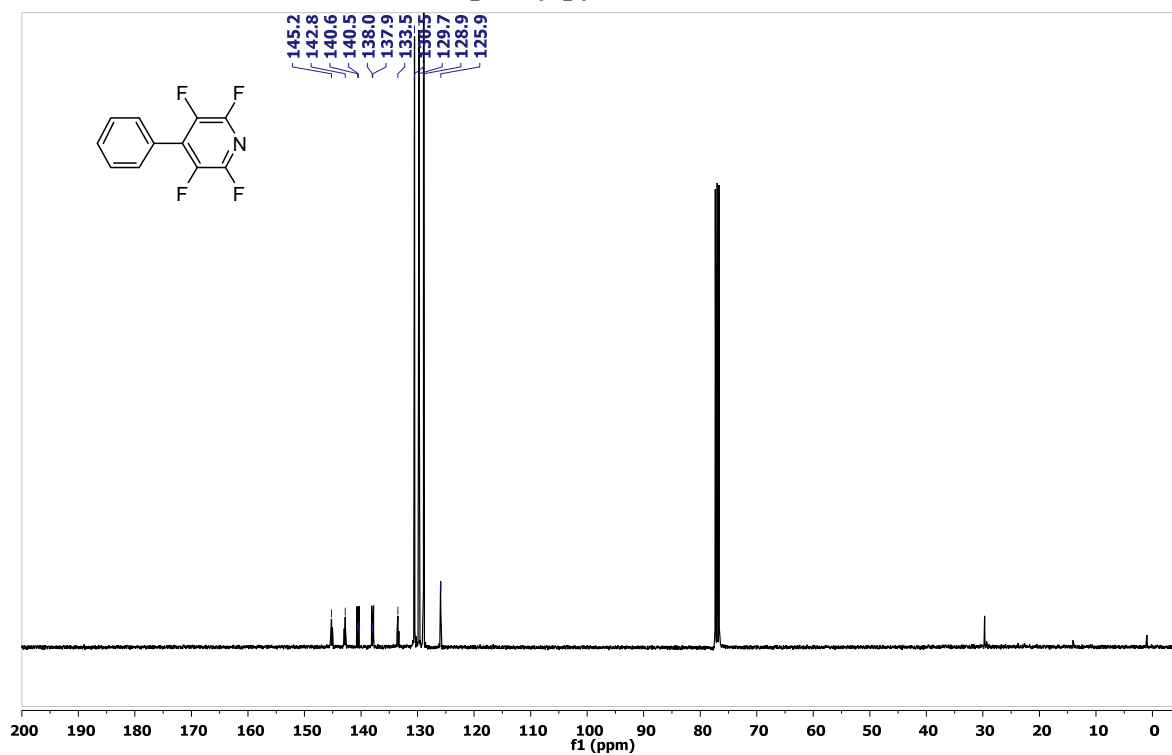
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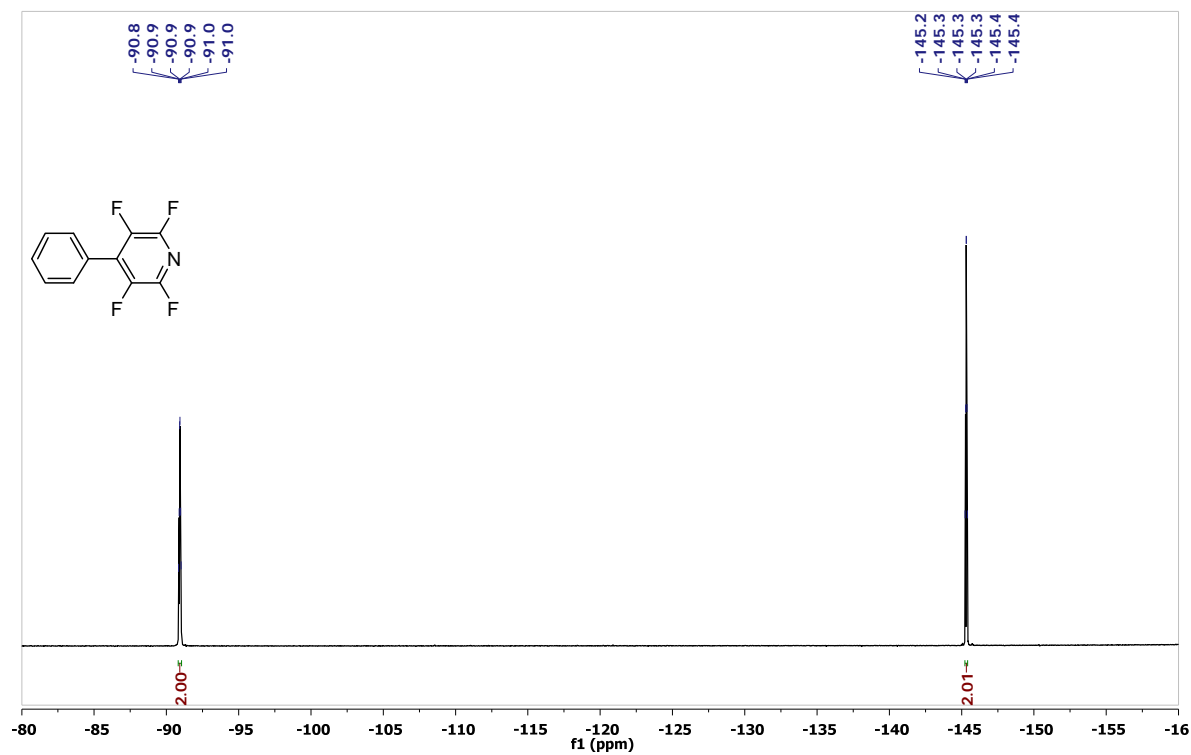
2,3,5,6-tetrafluoro-4-phenylpyridine (3o) ^1H NMR-400 MHz, CDCl_3



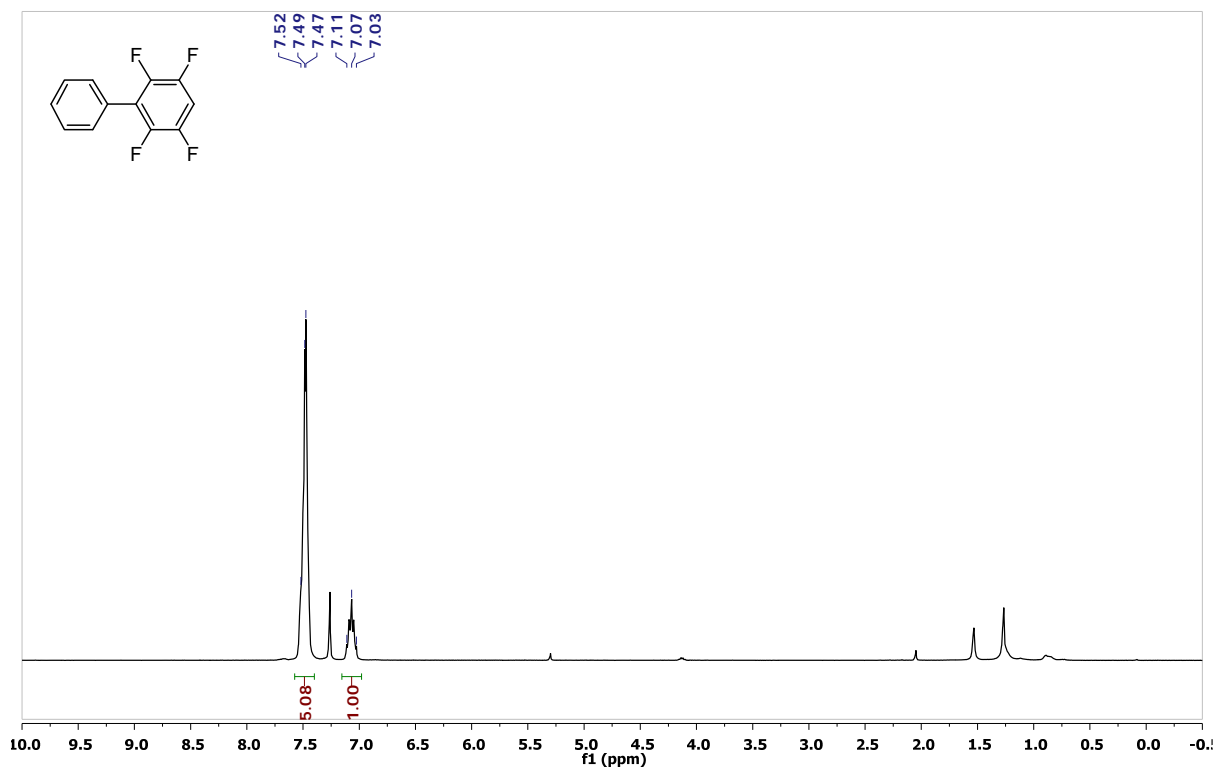
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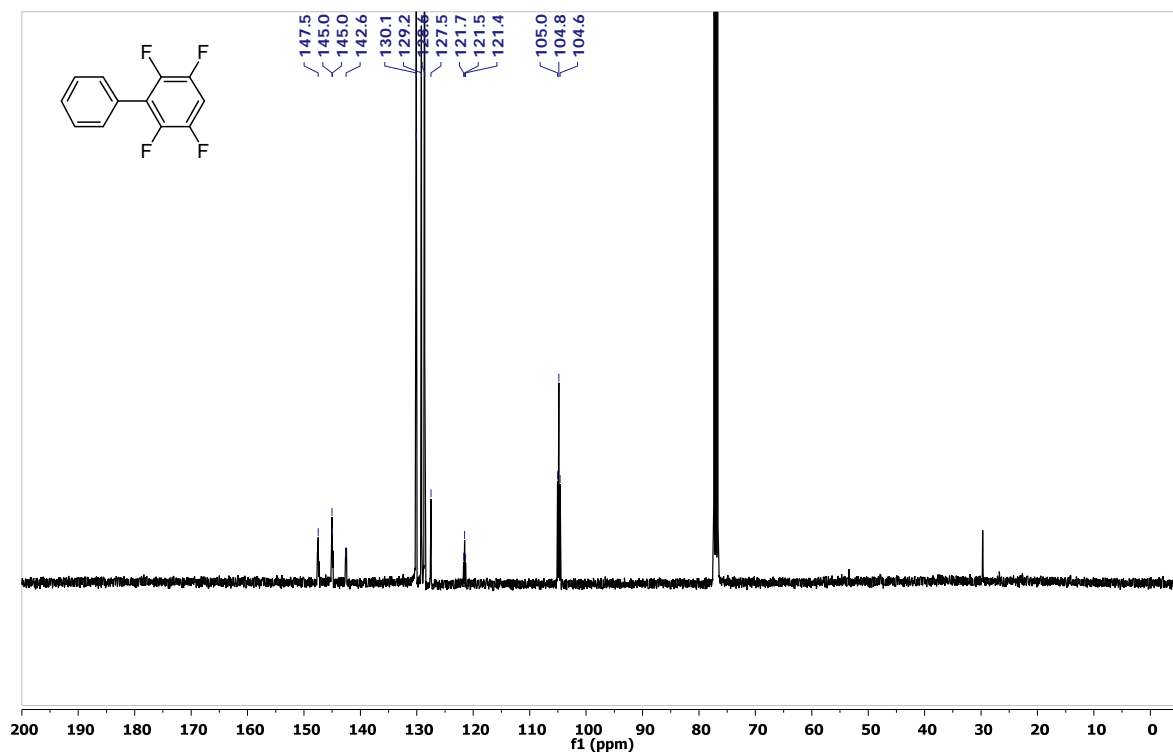
2,3,5,6-tetrafluoro-4-phenylpyridine (3o) ^{19}F NMR-376 MHz, CDCl_3



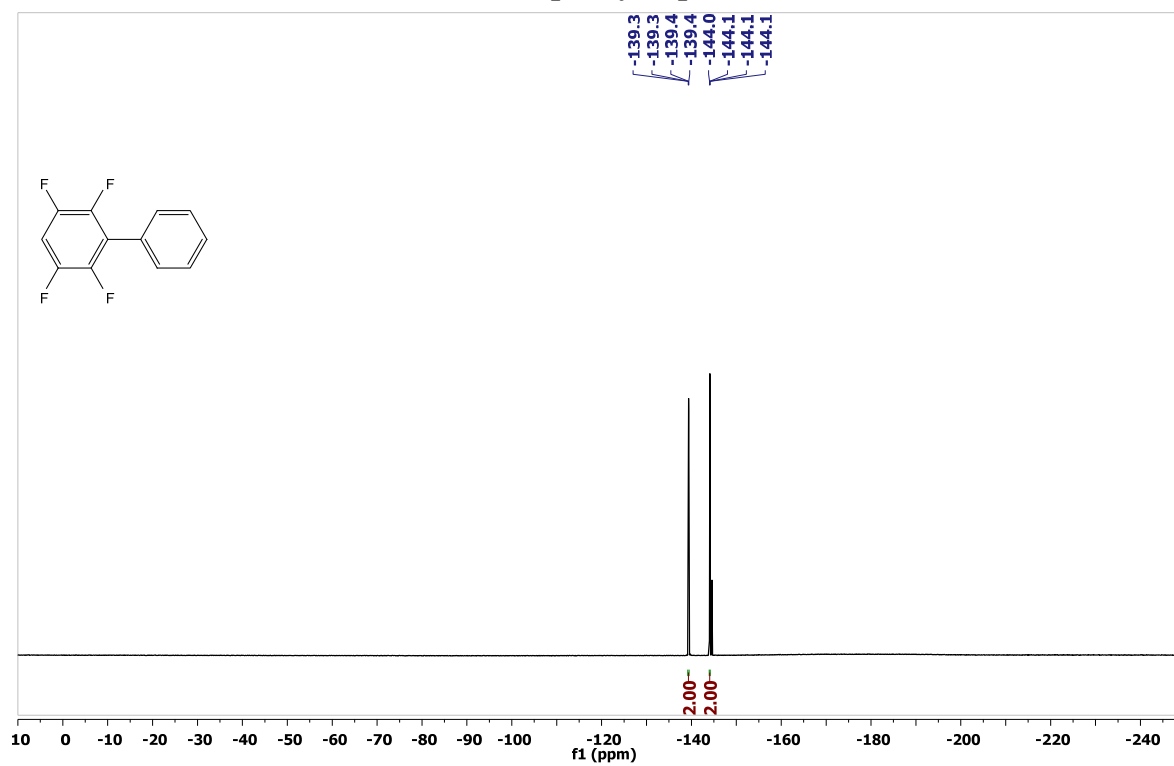
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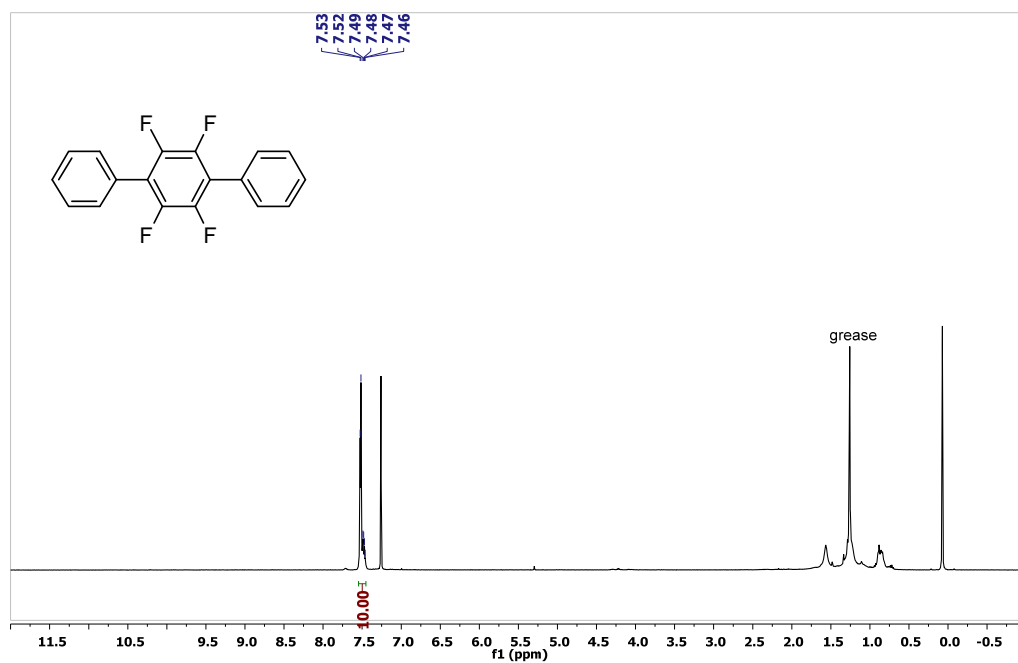
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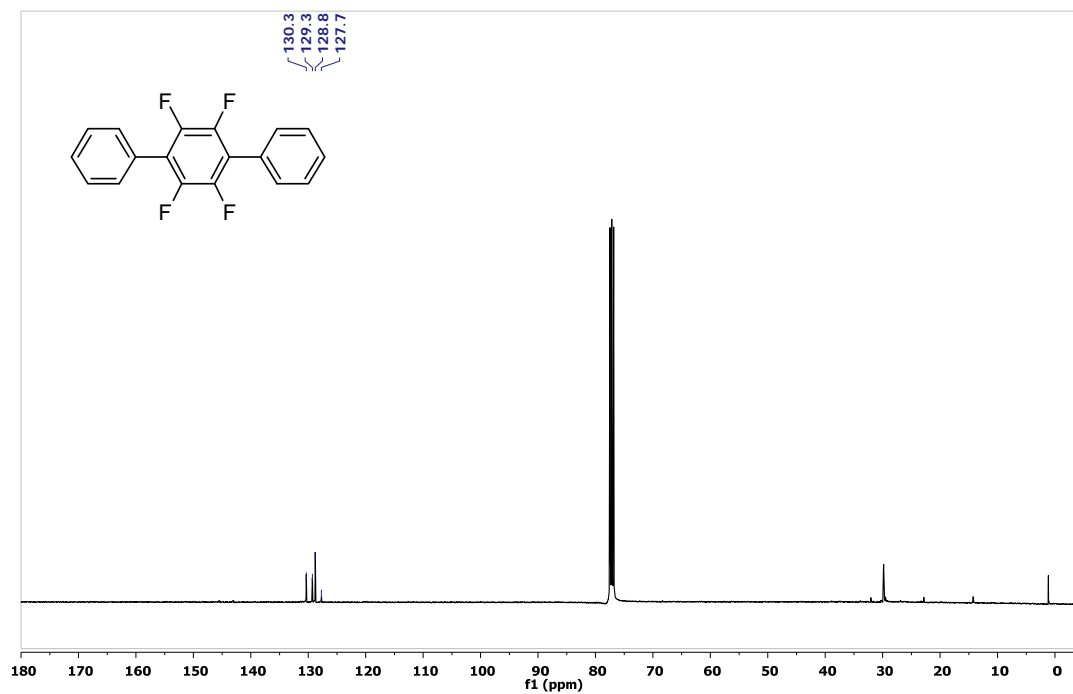
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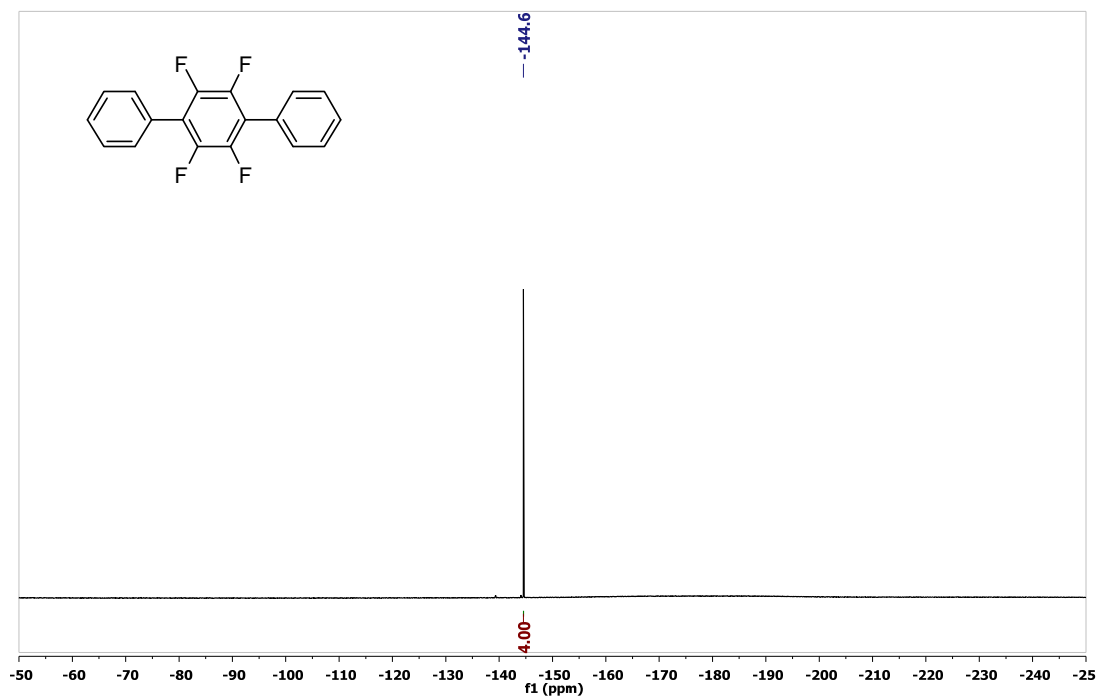
2',3',5',6'-tetrafluoro-1,1':4,1''-terphenyl (3p') ^1H NMR-400 MHz, CDCl_3



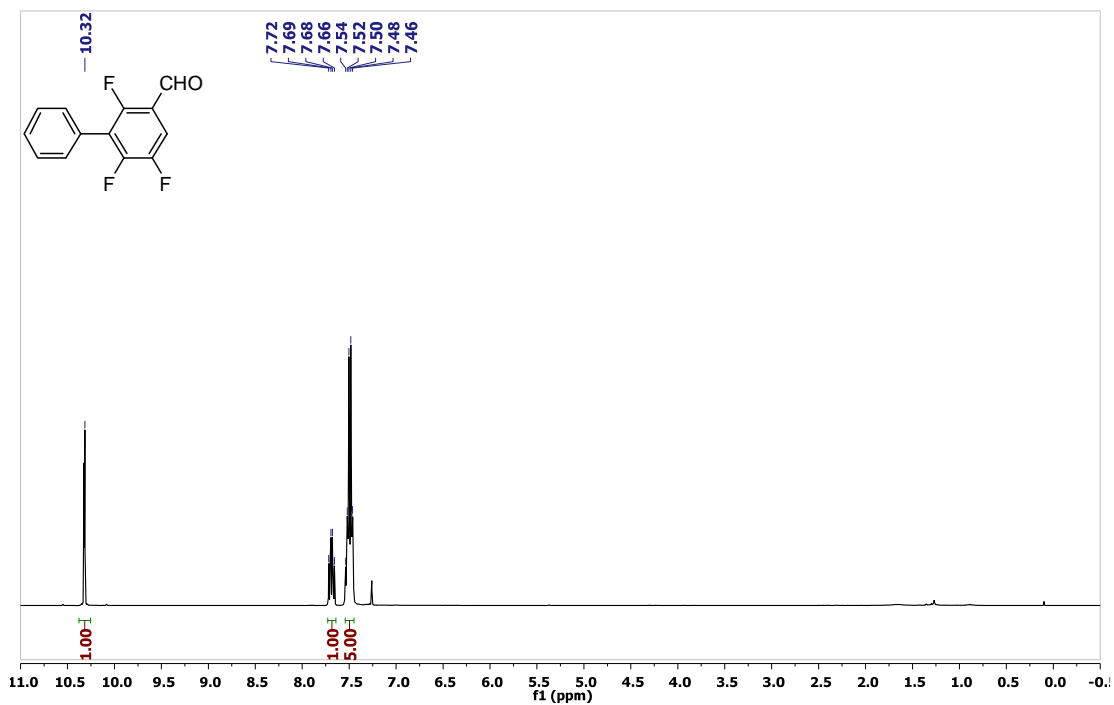
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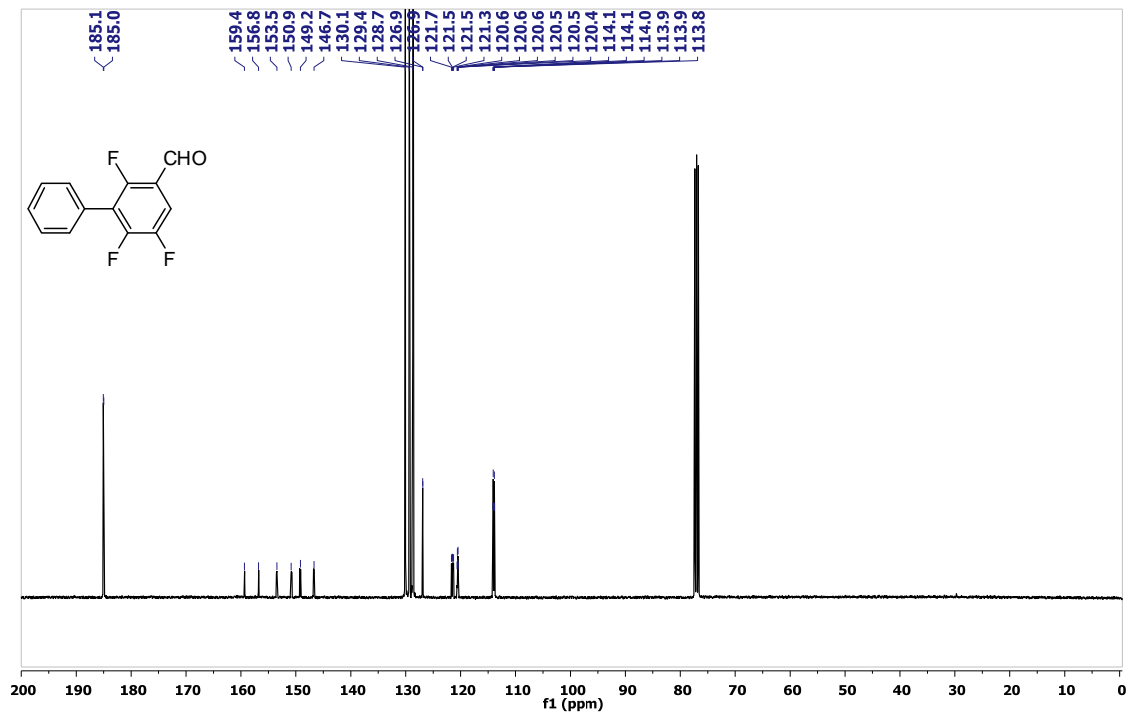
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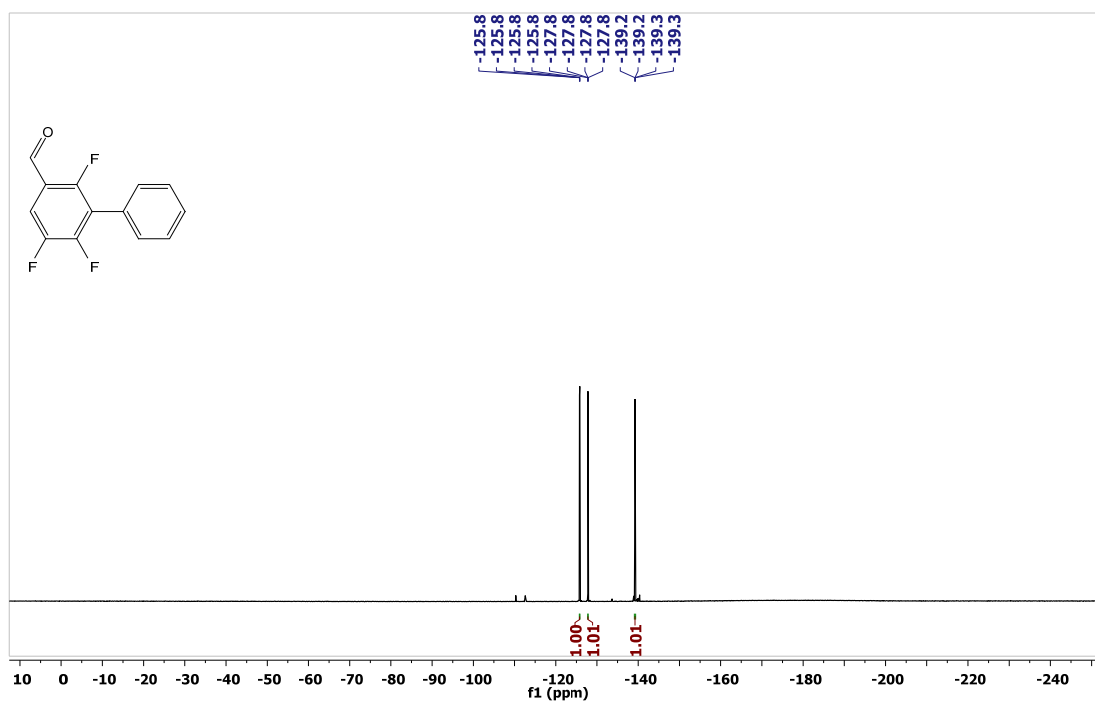
2,5,6-trifluoro-[1,1'-biphenyl]-3-carbaldehyde (3q) ^1H NMR-400 MHz, CDCl_3



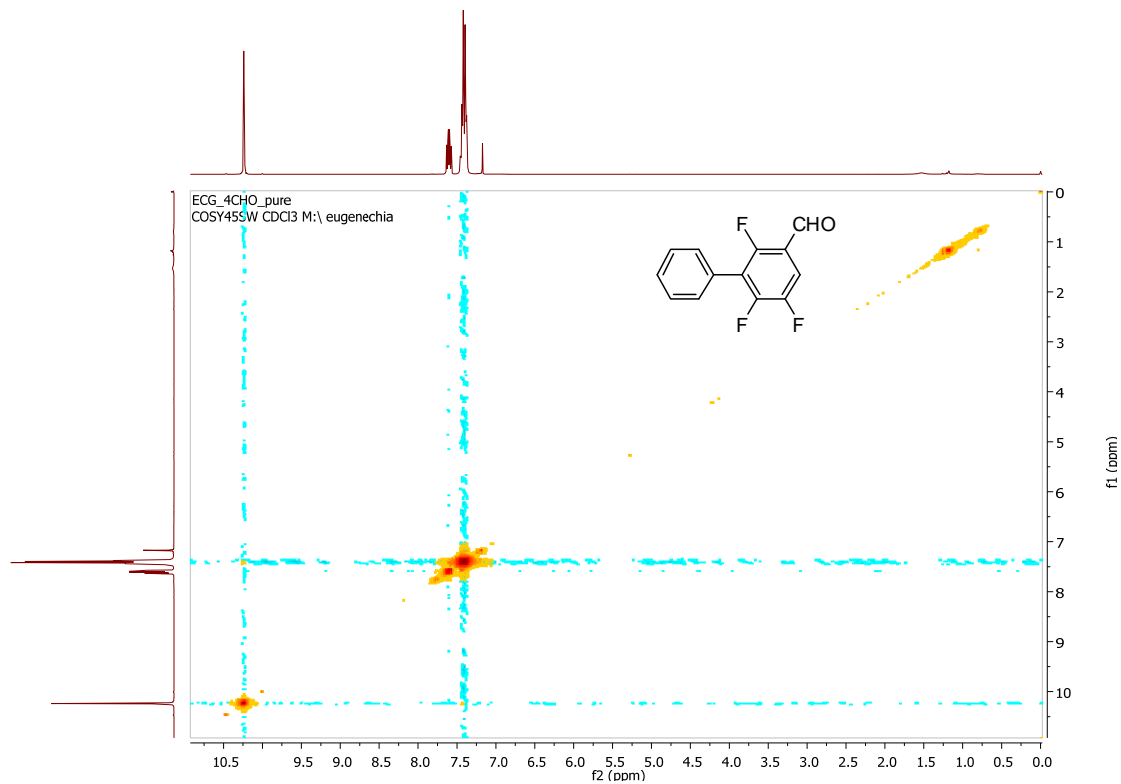
2,5,6-trifluoro-[1,1'-biphenyl]-3-carbaldehyde (3q) ^{13}C NMR-101MHz, CDCl_3



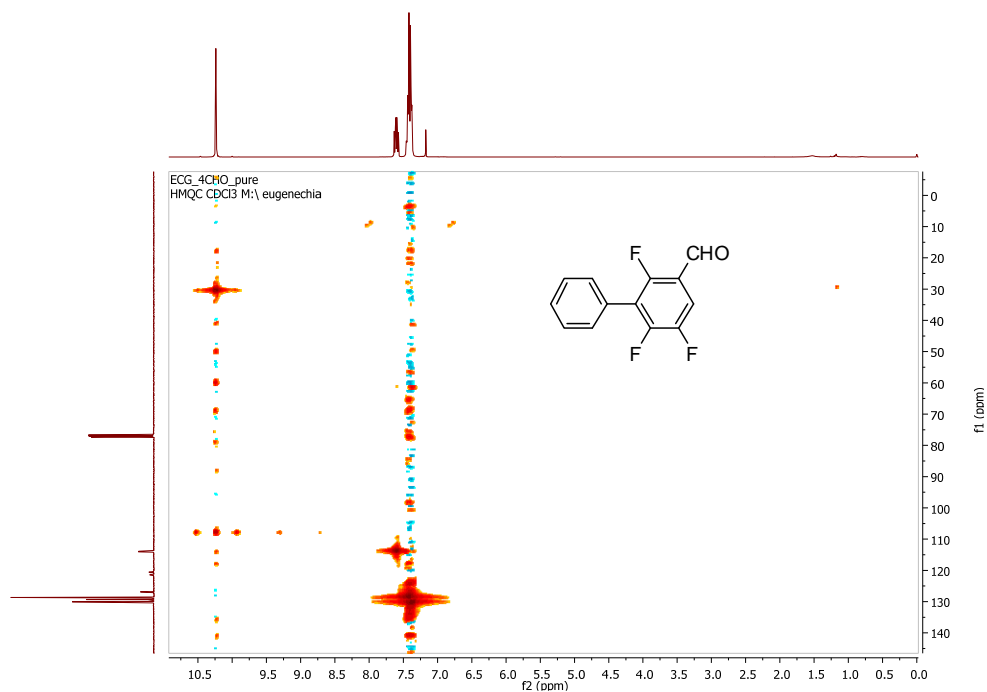
2,5,6-trifluoro-[1,1'-biphenyl]-3-carbaldehyde (3q) ^{19}F NMR-376 MHz, CDCl_3



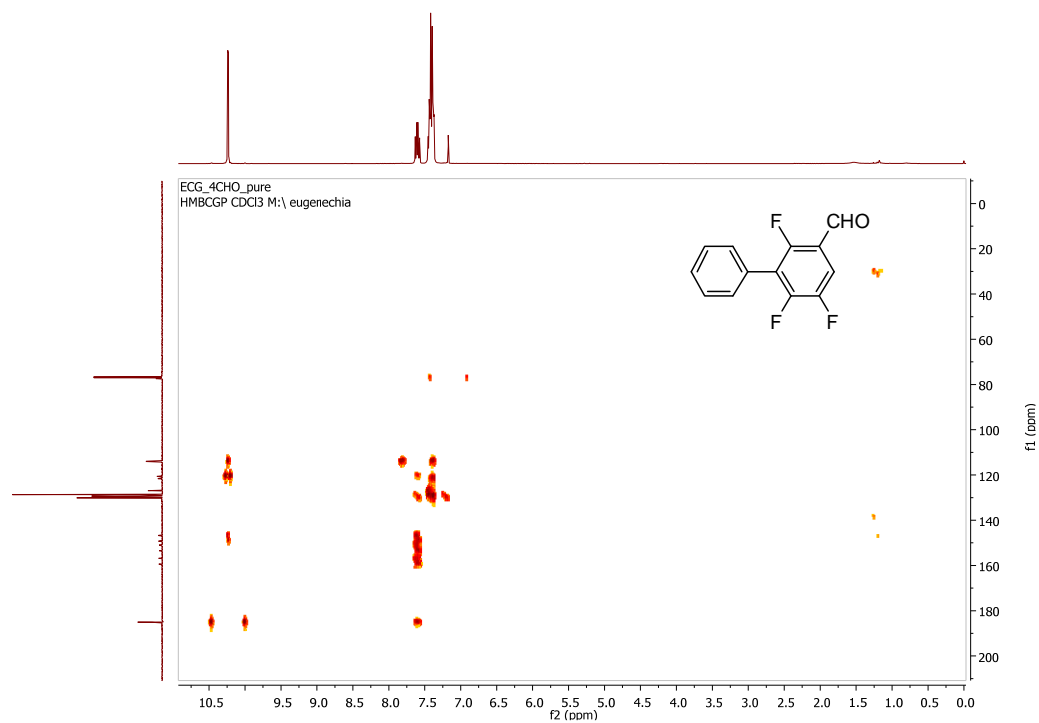
2,5,6-trifluoro-[1,1'-biphenyl]-3-carbaldehyde (3q) COSY spectrum



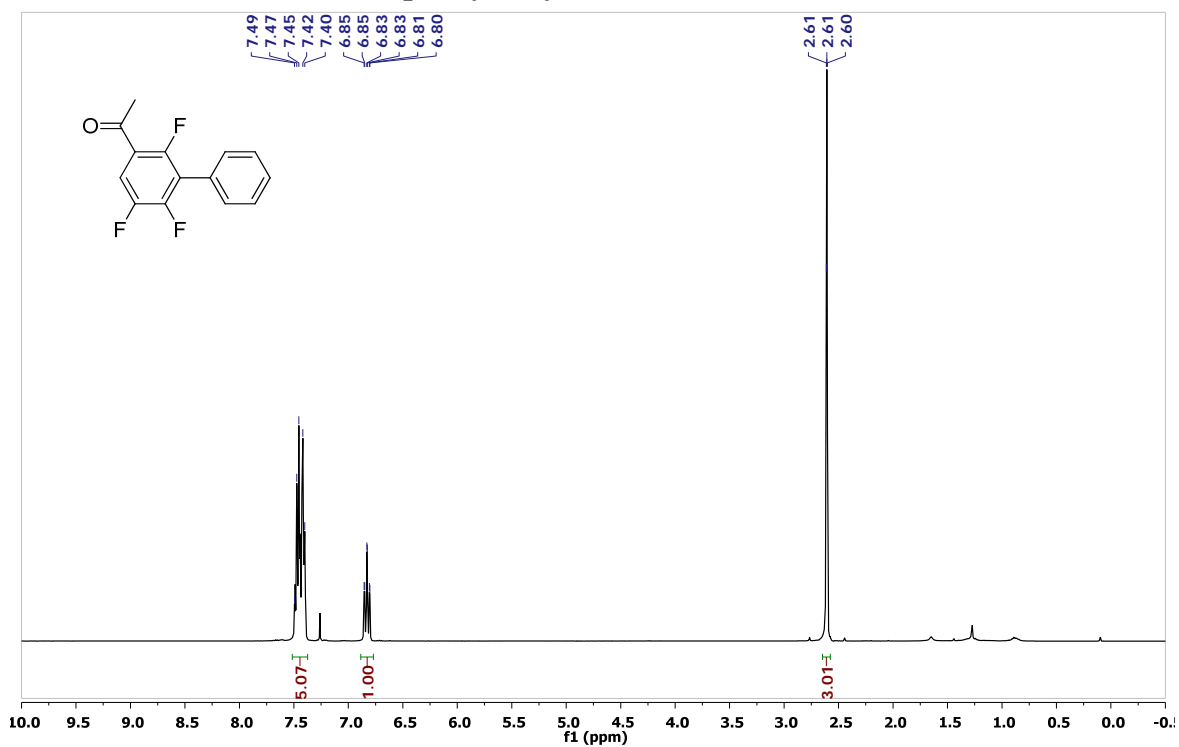
2,5,6-trifluoro-[1,1'-biphenyl]-3-carbaldehyde (3q) HMQC spectrum



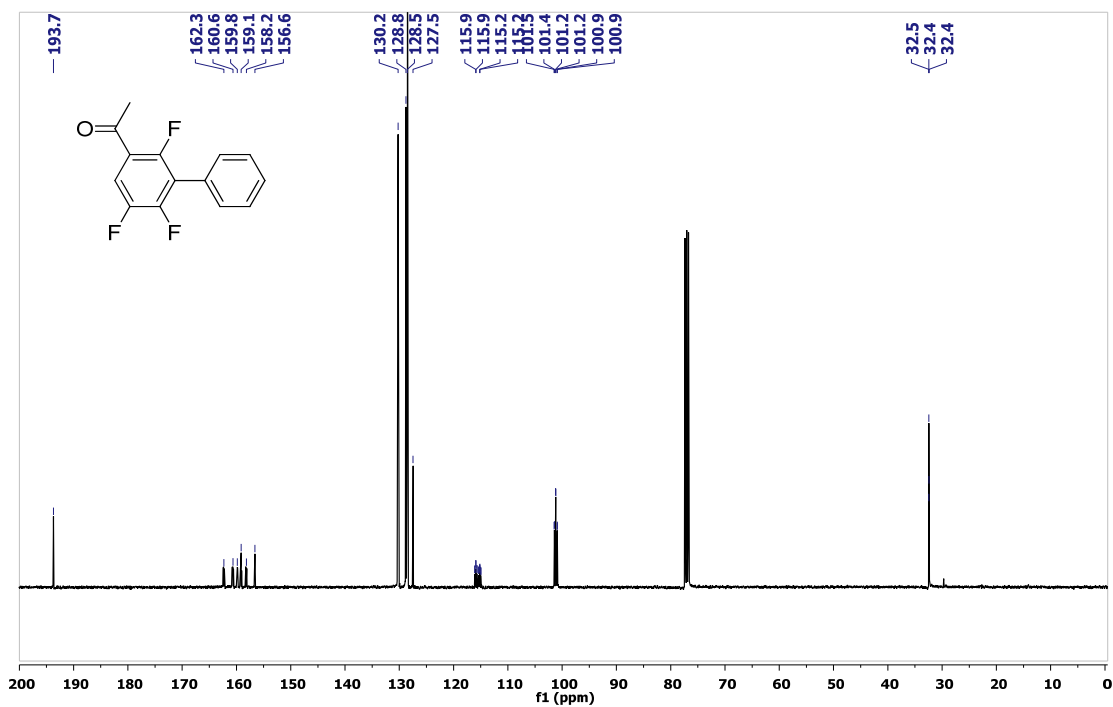
2,5,6-trifluoro-[1,1'-biphenyl]-3-carbaldehyde (3q) HMBC spectrum



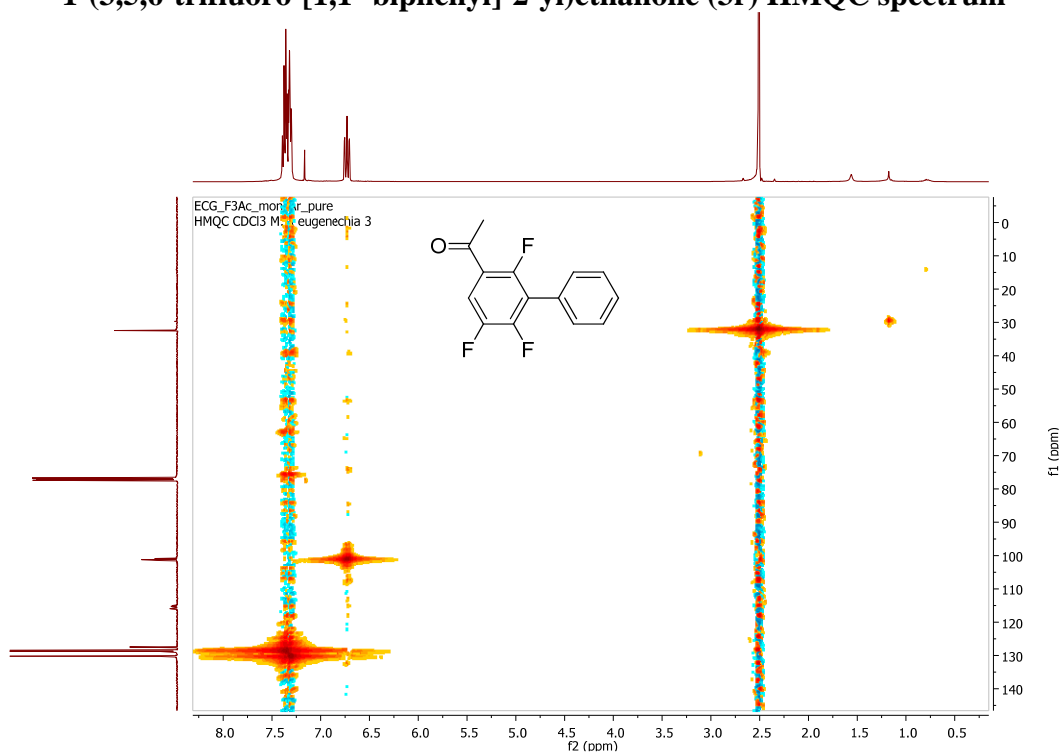
1-(3,5,6-trifluoro-[1,1'-biphenyl]-2-yl)ethanone (3r) ^1H NMR-400 MHz, CDCl_3



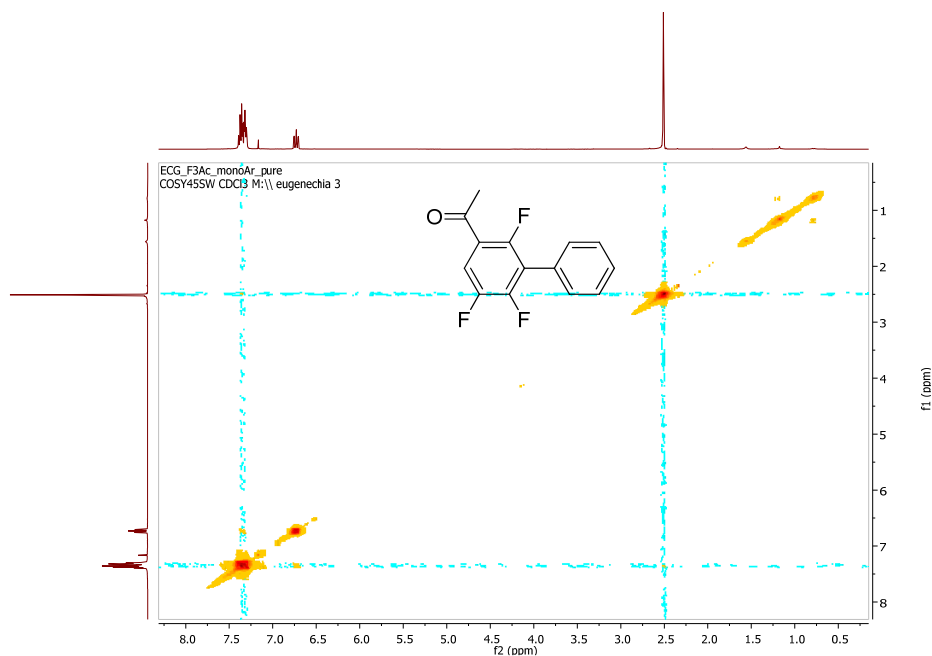
1-(3,5,6-trifluoro-[1,1'-biphenyl]-2-yl)ethanone (3r) ^{13}C NMR-101MHz, CDCl_3



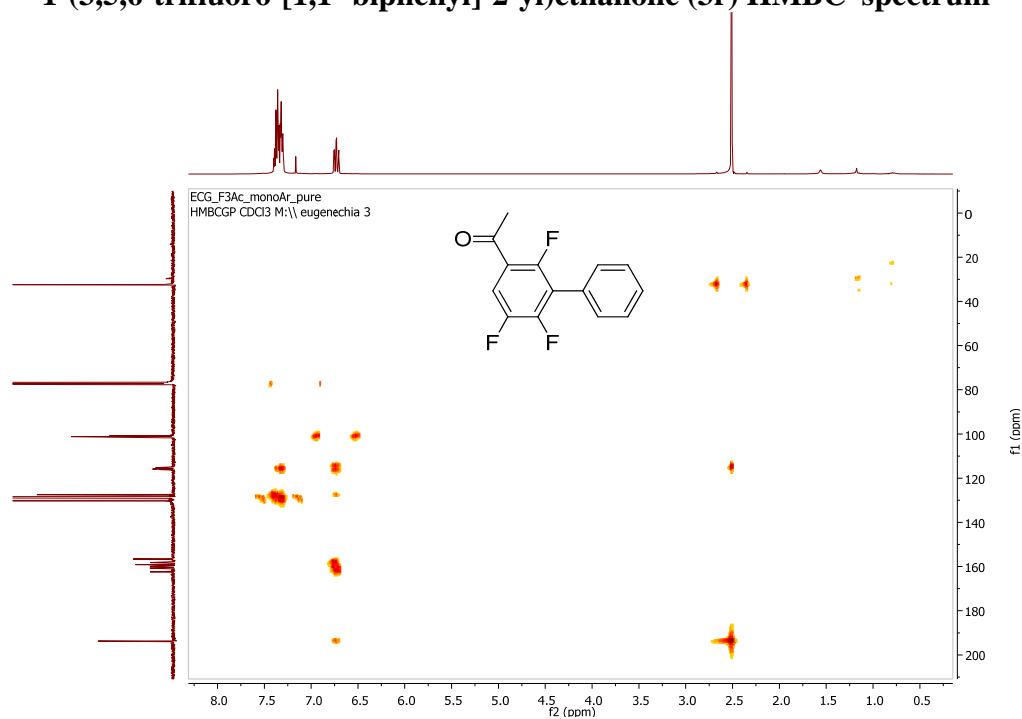
1-(3,5,6-trifluoro-[1,1'-biphenyl]-2-yl)ethanone (3r) HMQC spectrum



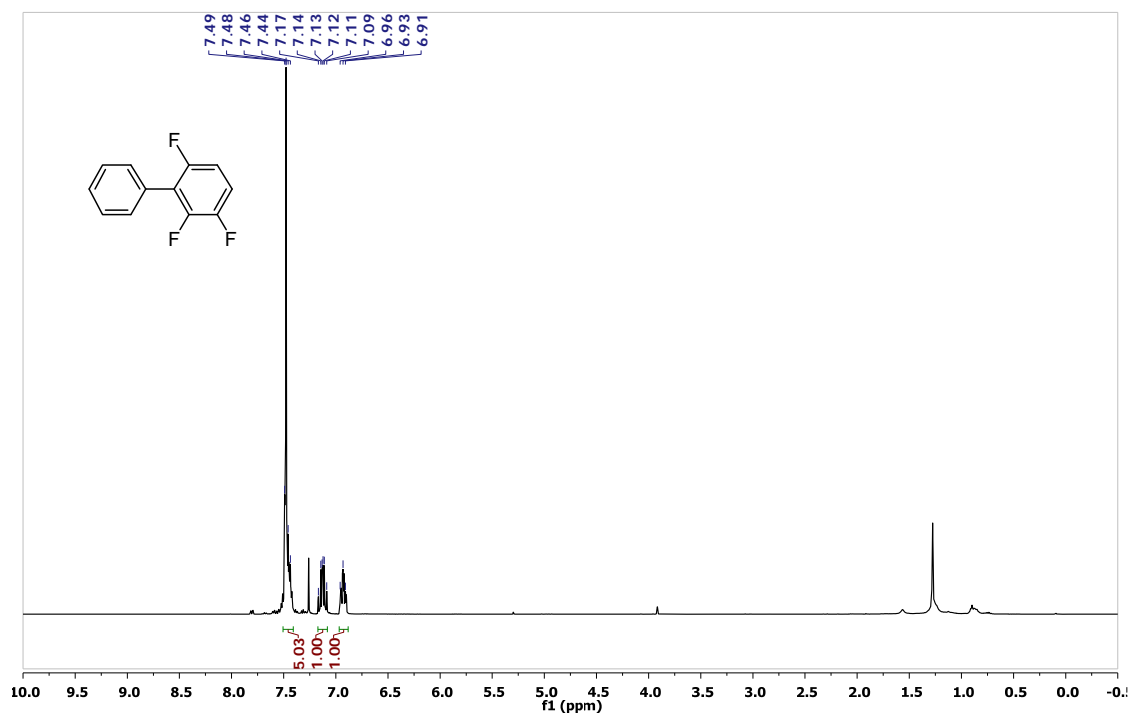
1-(3,5,6-trifluoro-[1,1'-biphenyl]-2-yl)ethanone (3r) COSY spectrum



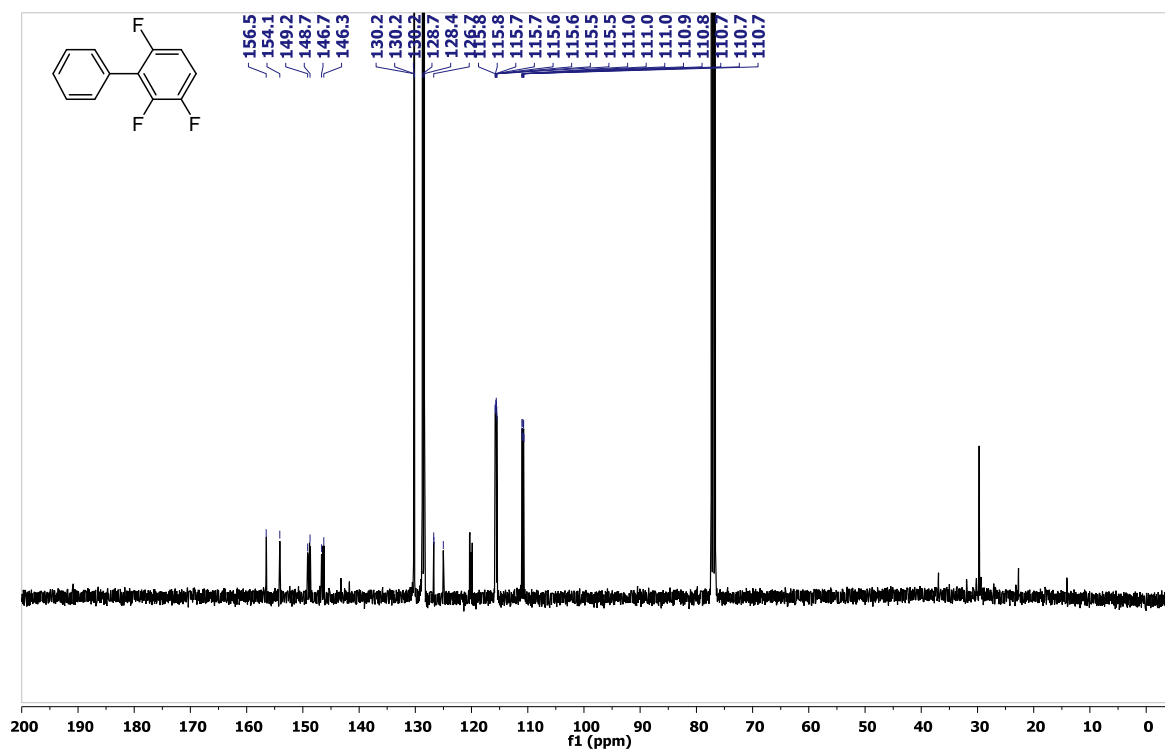
1-(3,5,6-trifluoro-[1,1'-biphenyl]-2-yl)ethanone (3r) HMBC spectrum



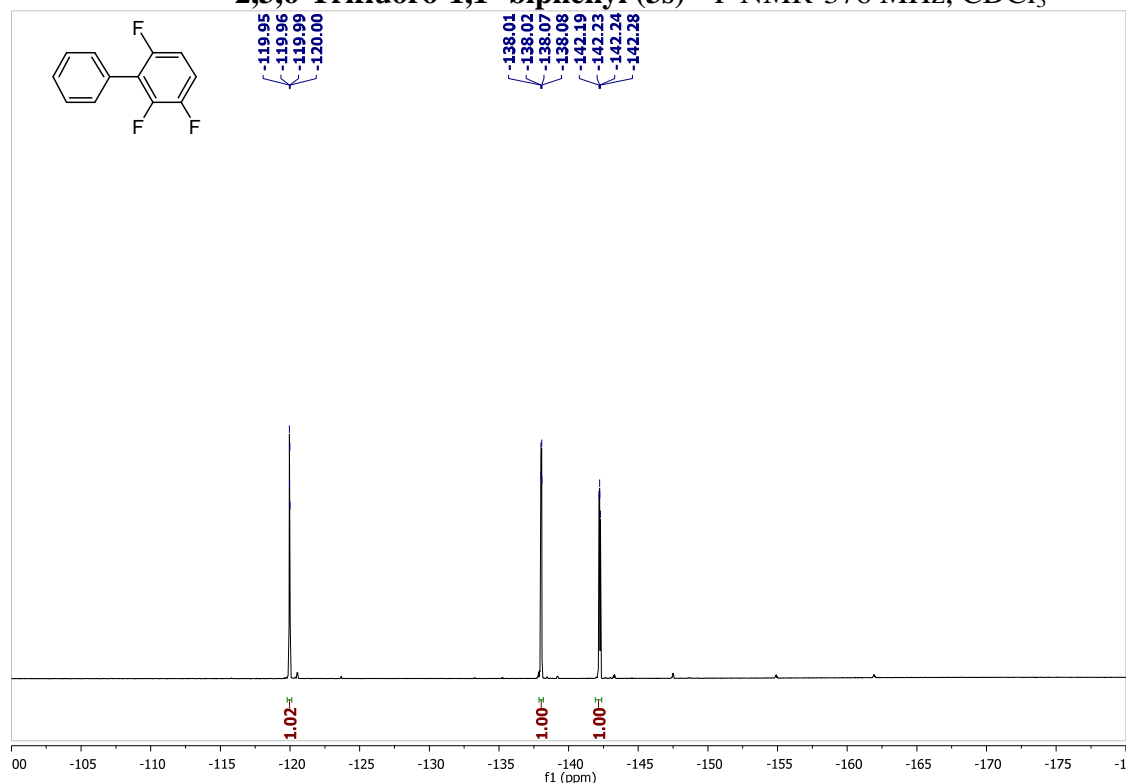
2,3,6-Trifluoro-1,1'-biphenyl (3s) ¹H NMR-400 MHz, CDCl₃



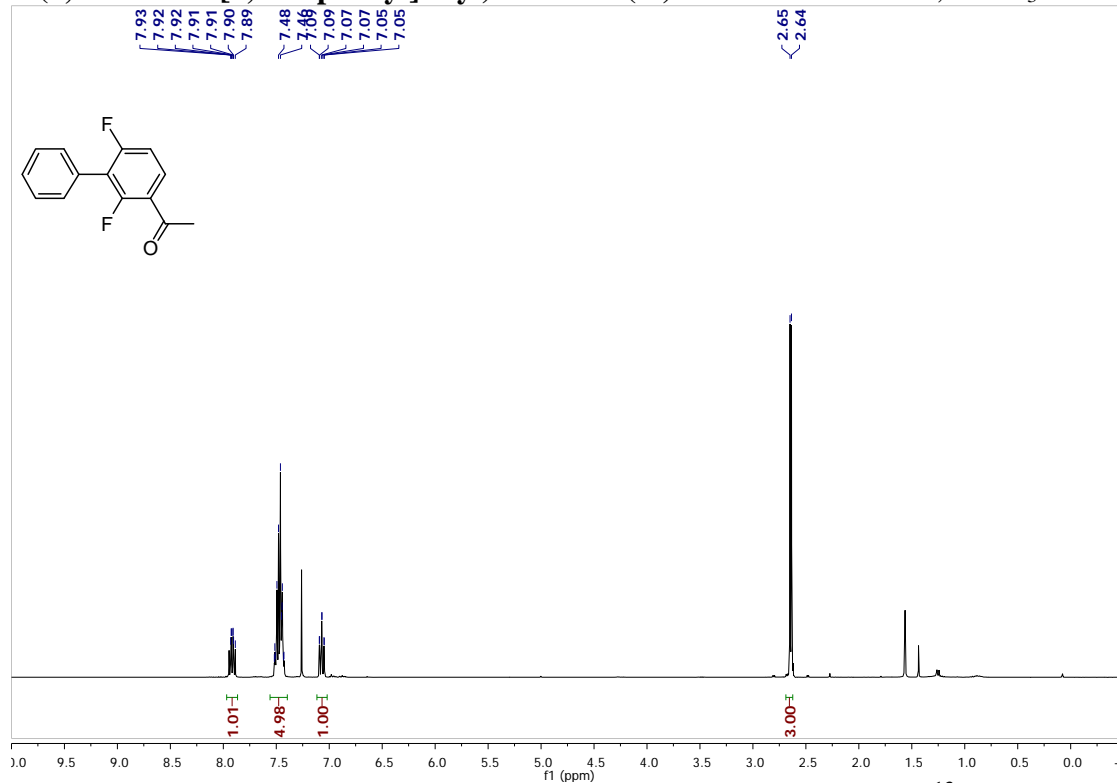
2,3,6-Trifluoro-1,1'-biphenyl (3s) ^{13}C NMR-101MHz, CDCl_3



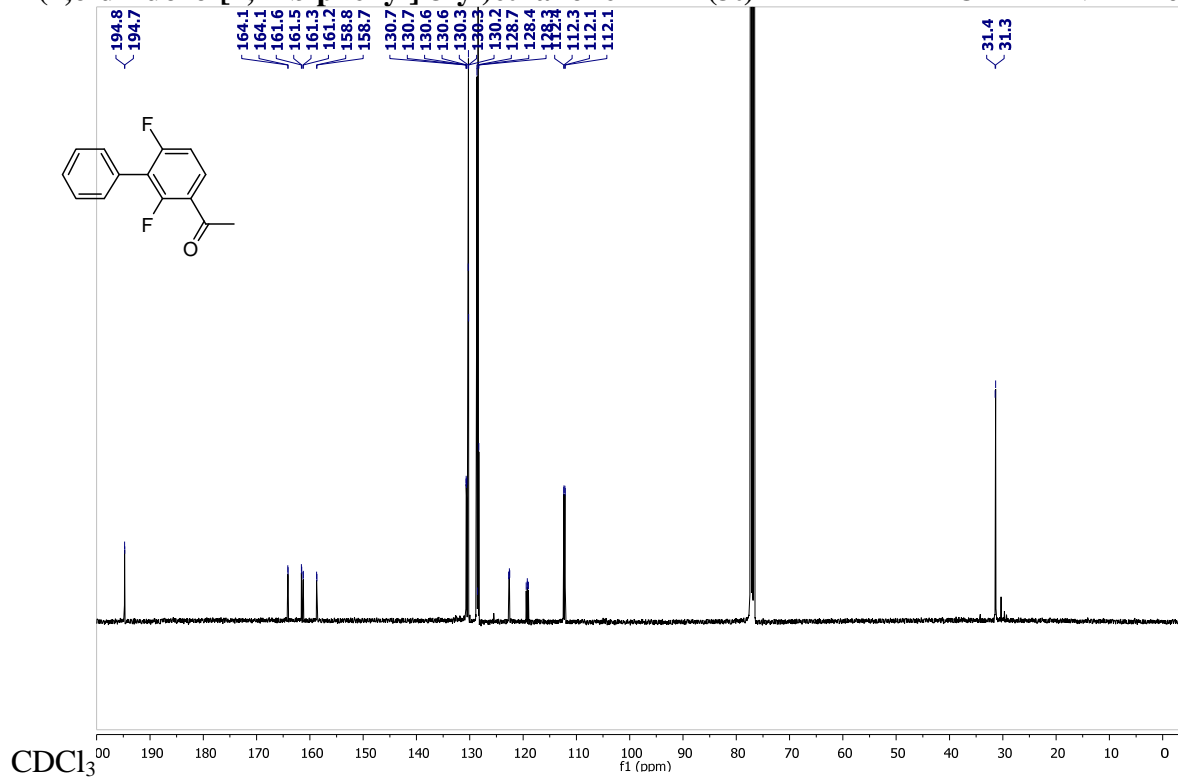
2,3,6-Trifluoro-1,1'-biphenyl (3s) ^{19}F NMR-376 MHz, CDCl_3



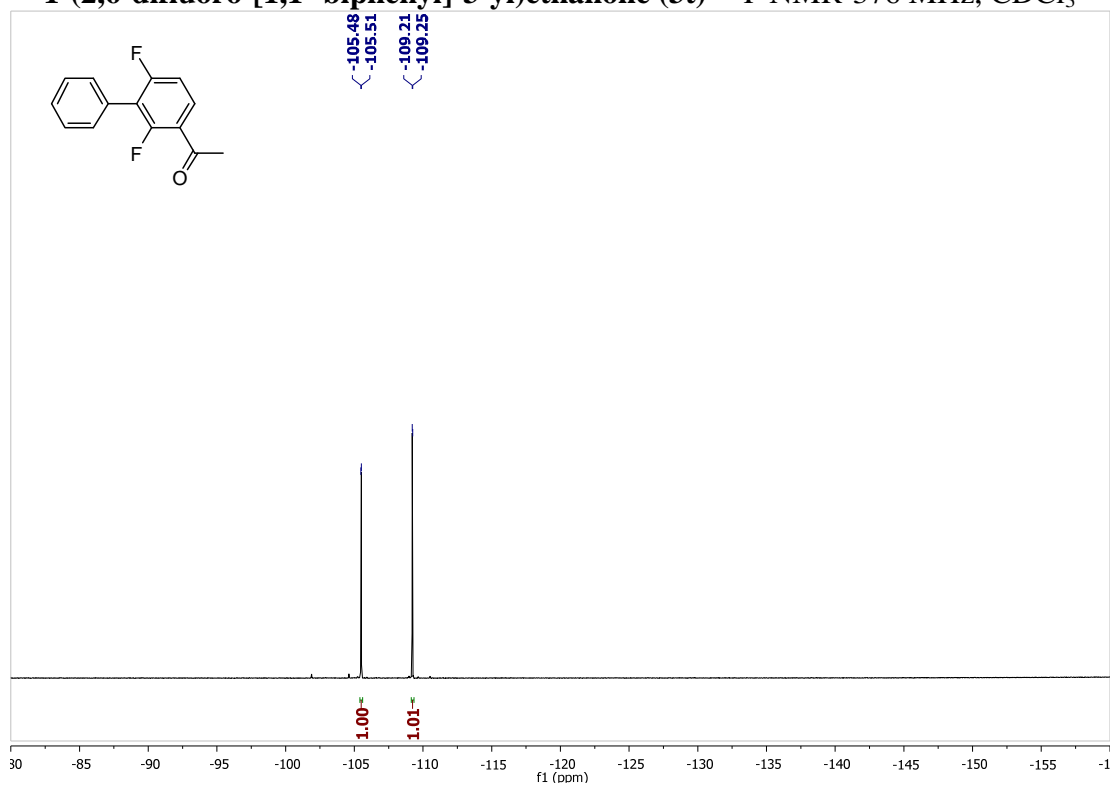
1-(2,6-difluoro-[1,1'-biphenyl]-3-yl)ethanone (3t) ^1H NMR-400 MHz, CDCl_3



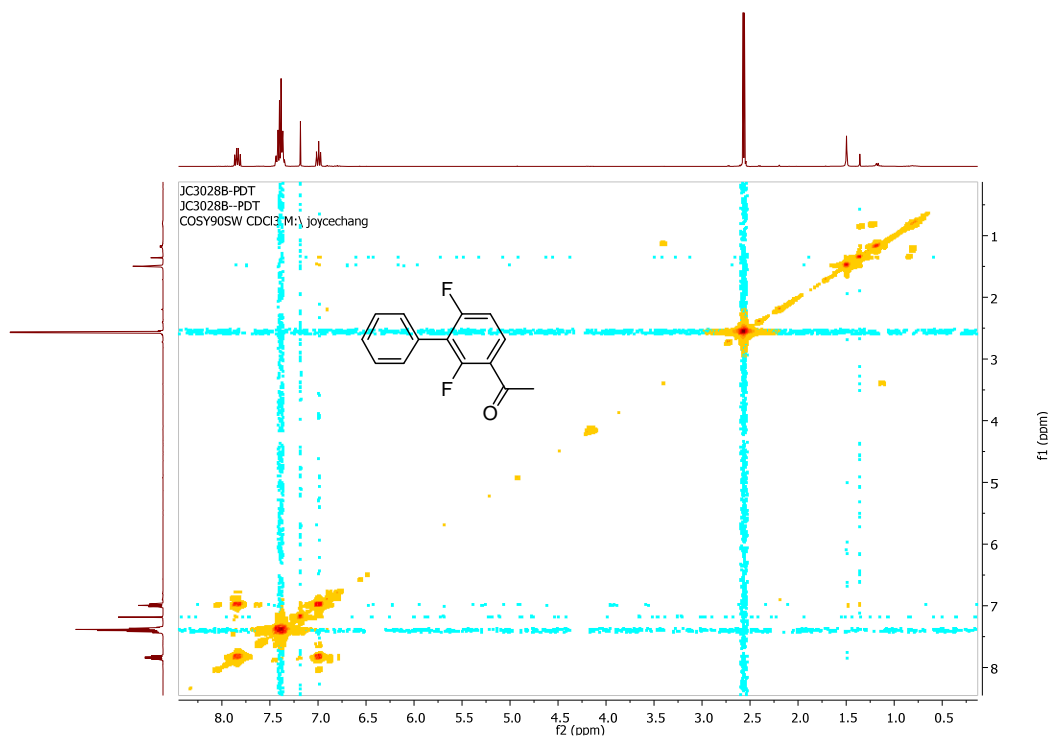
1-(2,6-difluoro-[1,1'-biphenyl]-3-yl)ethanone (3t) ^{13}C NMR-101MHz, CDCl_3



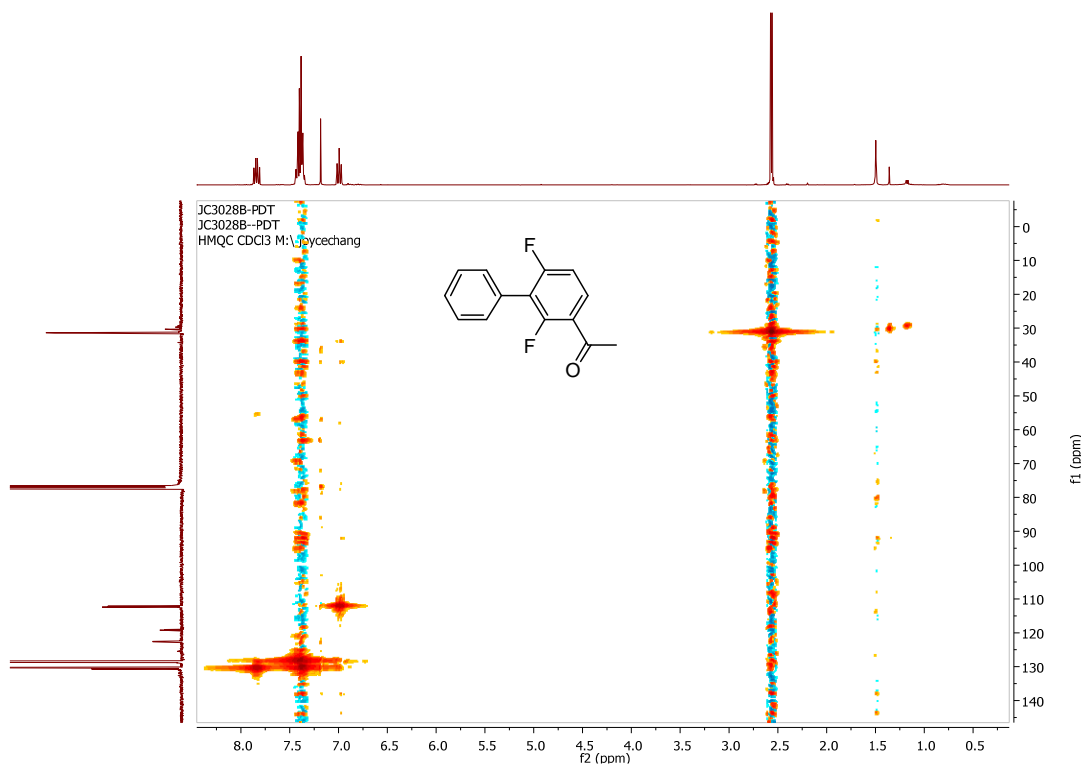
1-(2,6-difluoro-[1,1'-biphenyl]-3-yl)ethanone (3t) ^{19}F NMR-376 MHz, CDCl_3



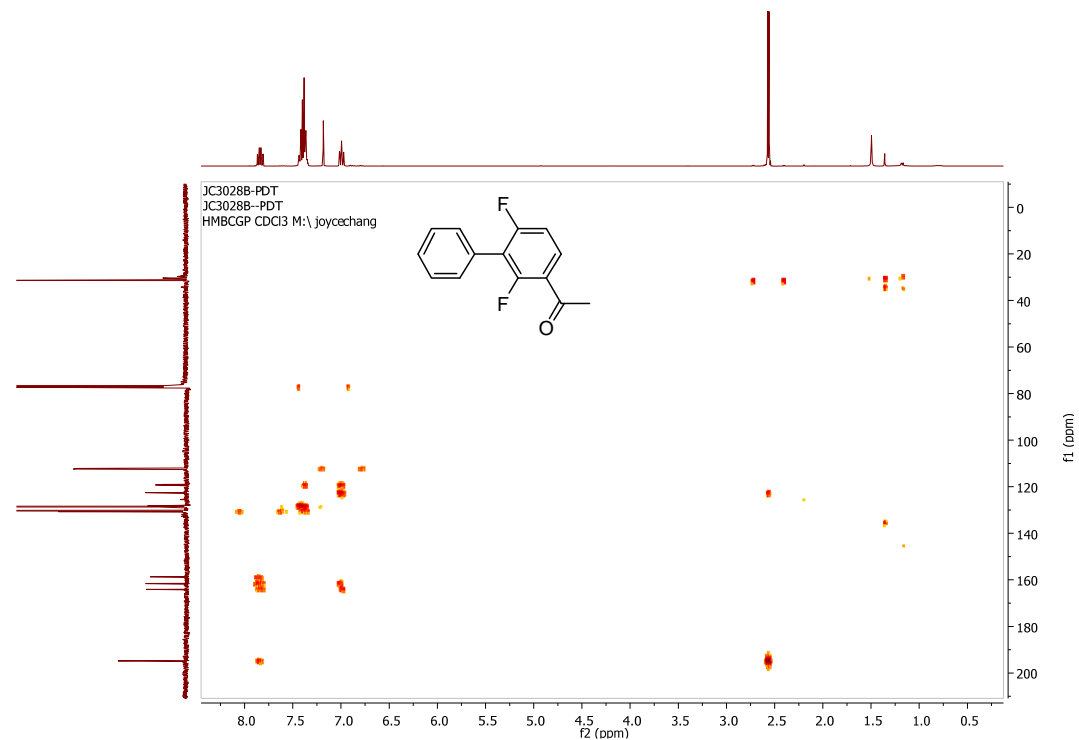
1-(2,6-difluoro-[1,1'-biphenyl]-3-yl)ethanone (3t) COSY Spectrum

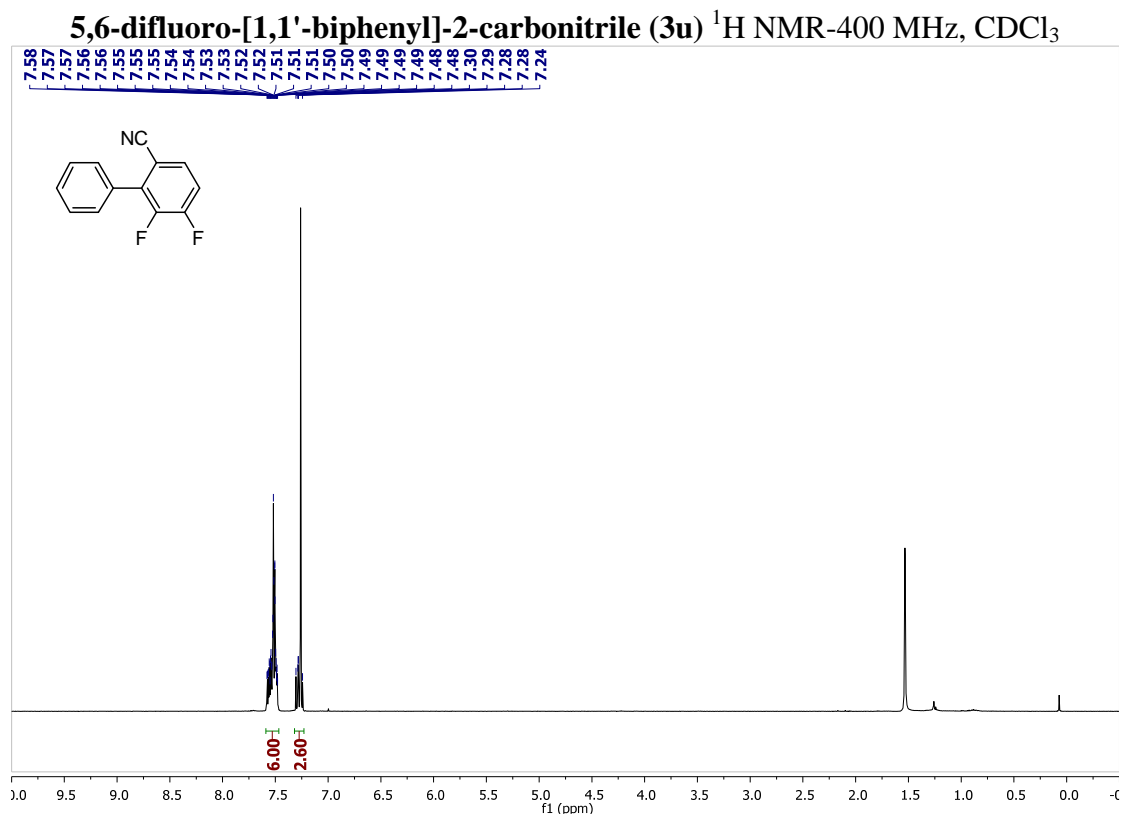


1-(2,6-difluoro-[1,1'-biphenyl]-3-yl)ethanone (3t) HMQC Spectrum

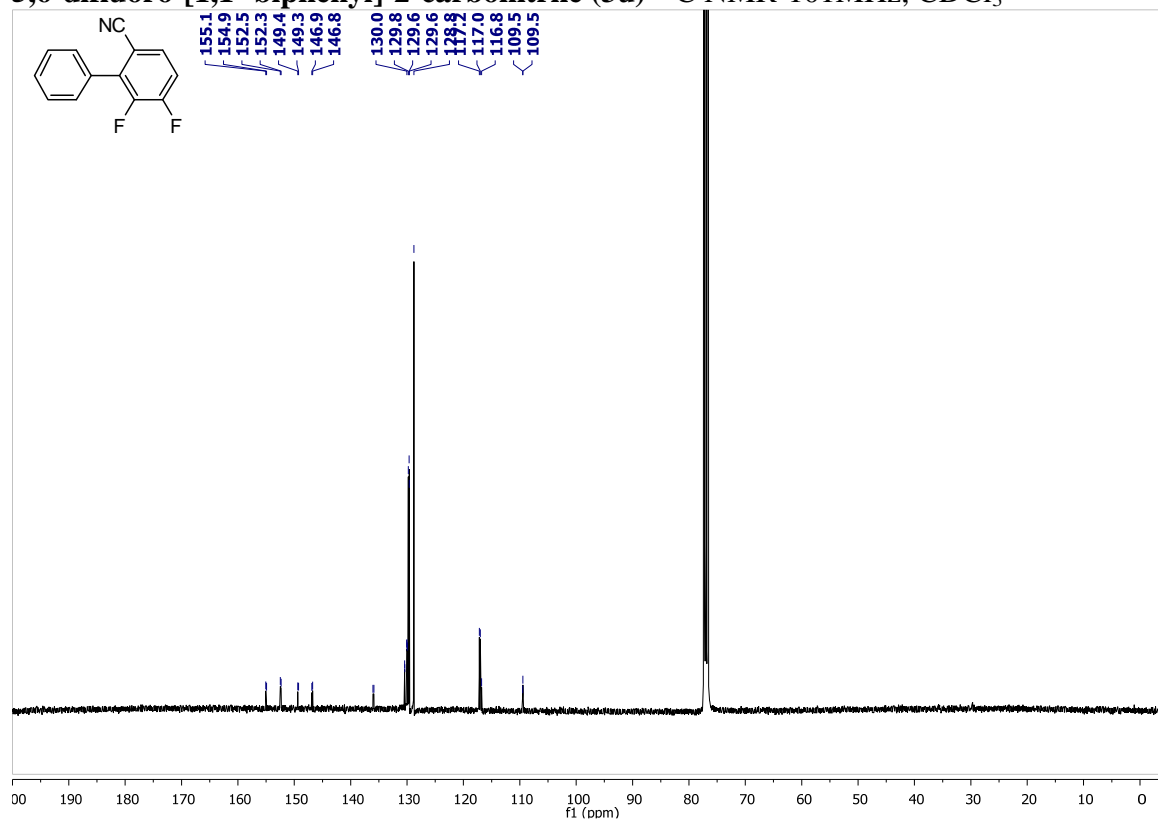


1-(2,6-difluoro-[1,1'-biphenyl]-3-yl)ethanone (3t) HMBC Spectrum

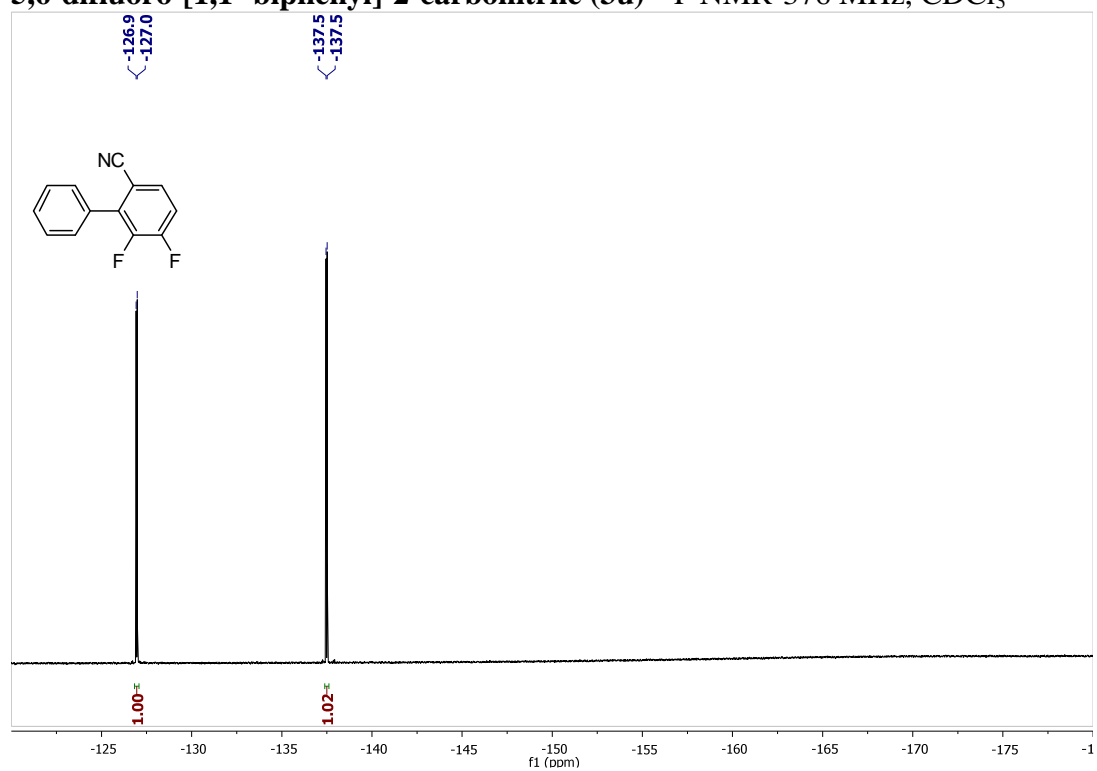




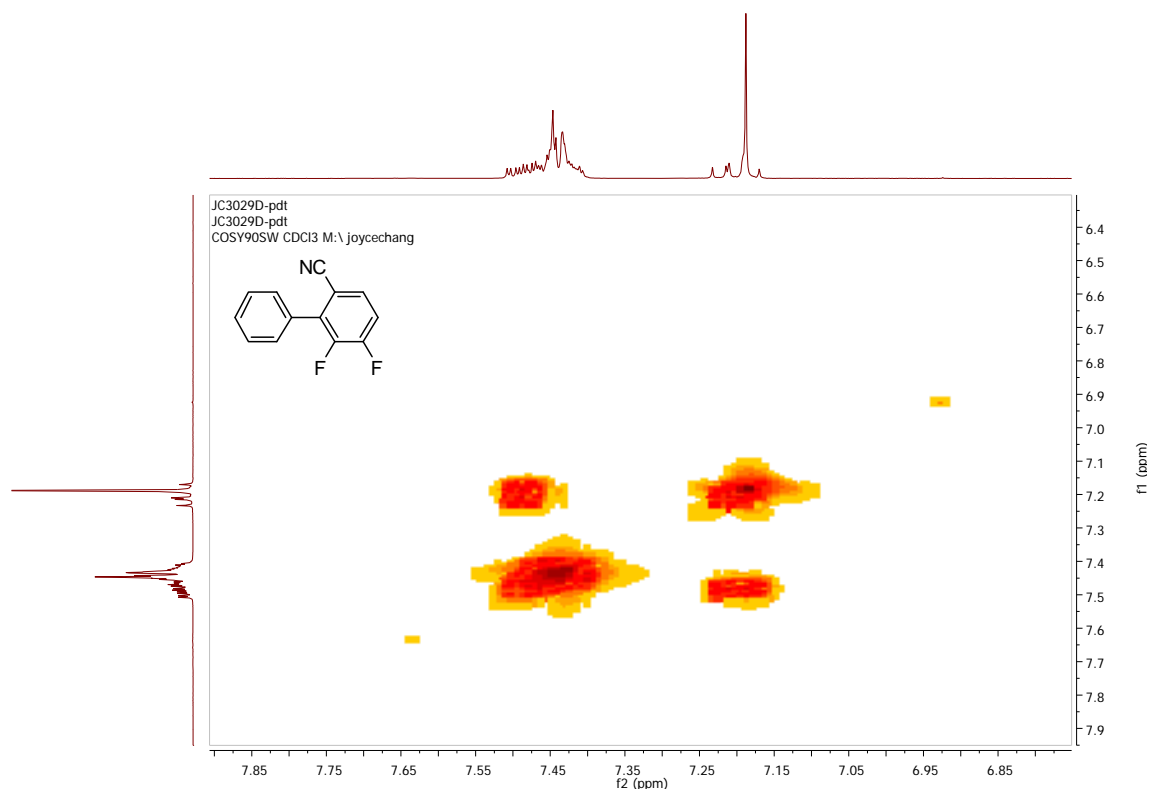
5,6-difluoro-[1,1'-biphenyl]-2-carbonitrile (3u) ^{13}C NMR-101MHz, CDCl_3



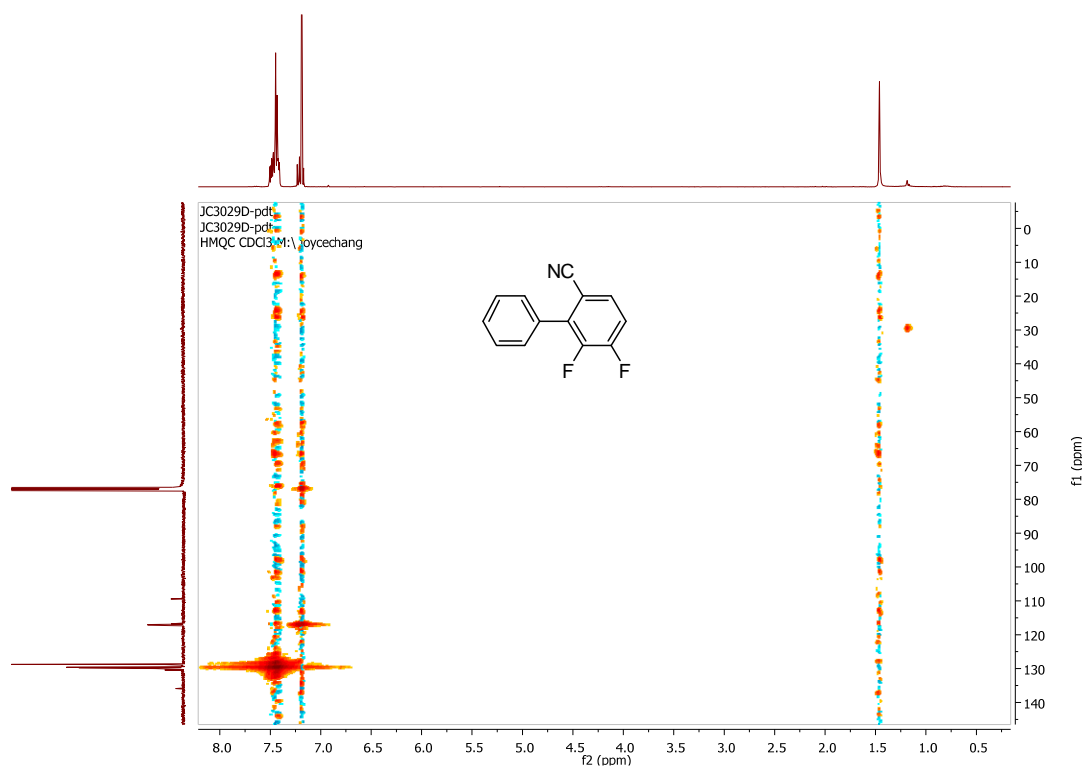
5,6-difluoro-[1,1'-biphenyl]-2-carbonitrile (3u) ^{19}F NMR-376 MHz, CDCl_3



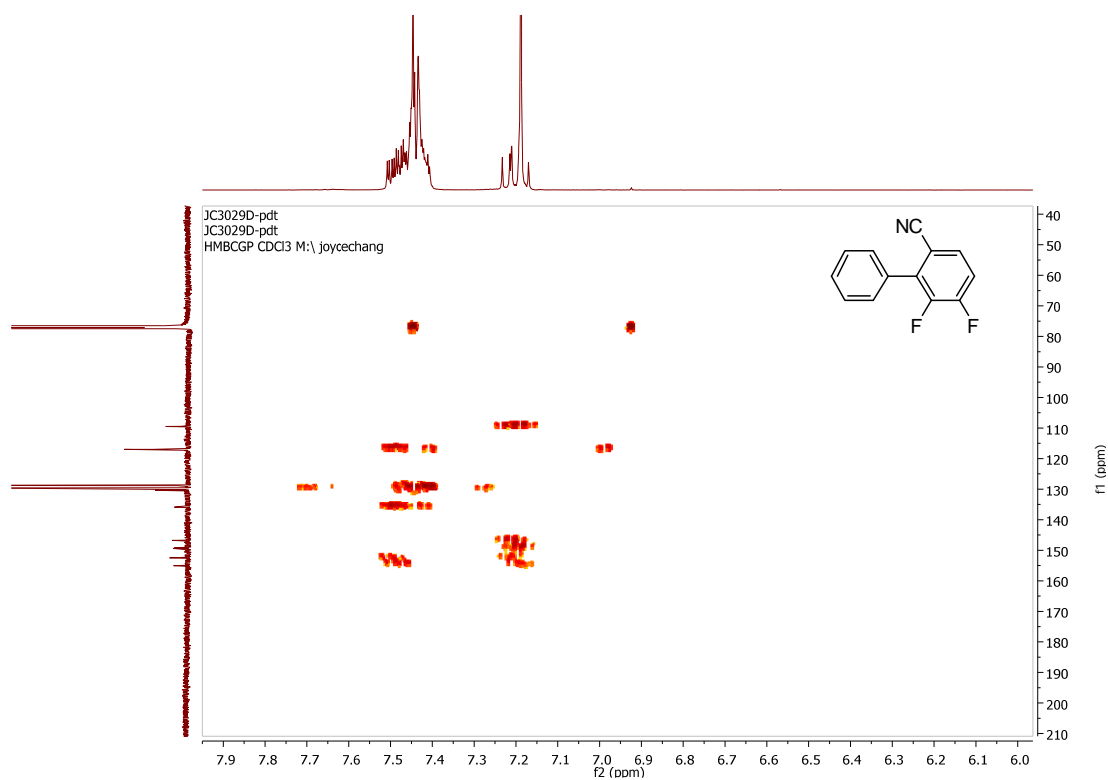
5,6-difluoro-[1,1'-biphenyl]-2-carbonitrile (3u) COSY Spectrum



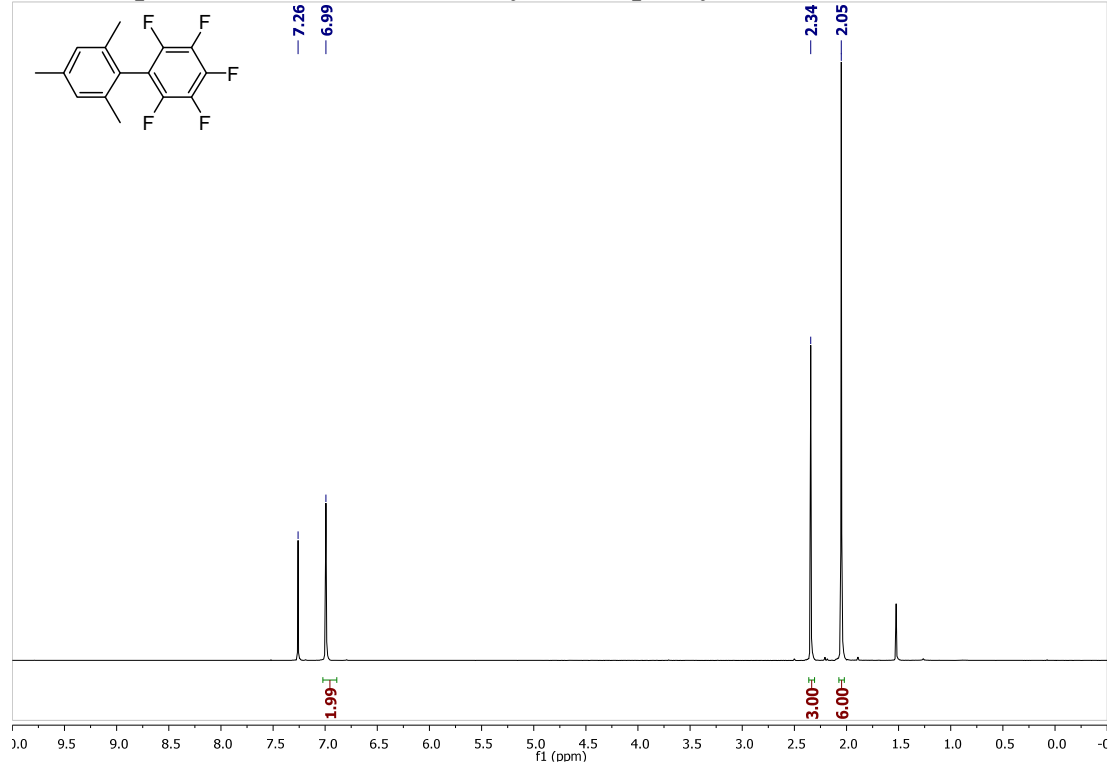
5,6-difluoro-[1,1'-biphenyl]-2-carbonitrile (3u) HMQC Spectrum



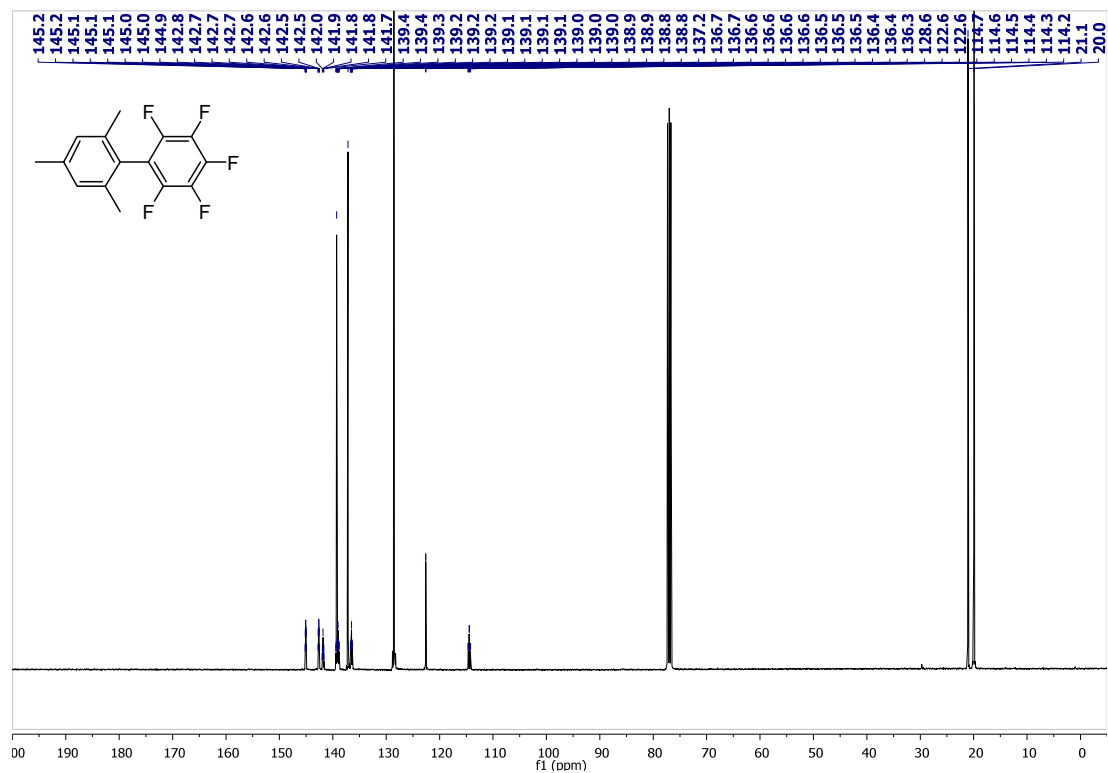
5,6-difluoro-[1,1'-biphenyl]-2-carbonitrile (3u) HMBC Spectrum



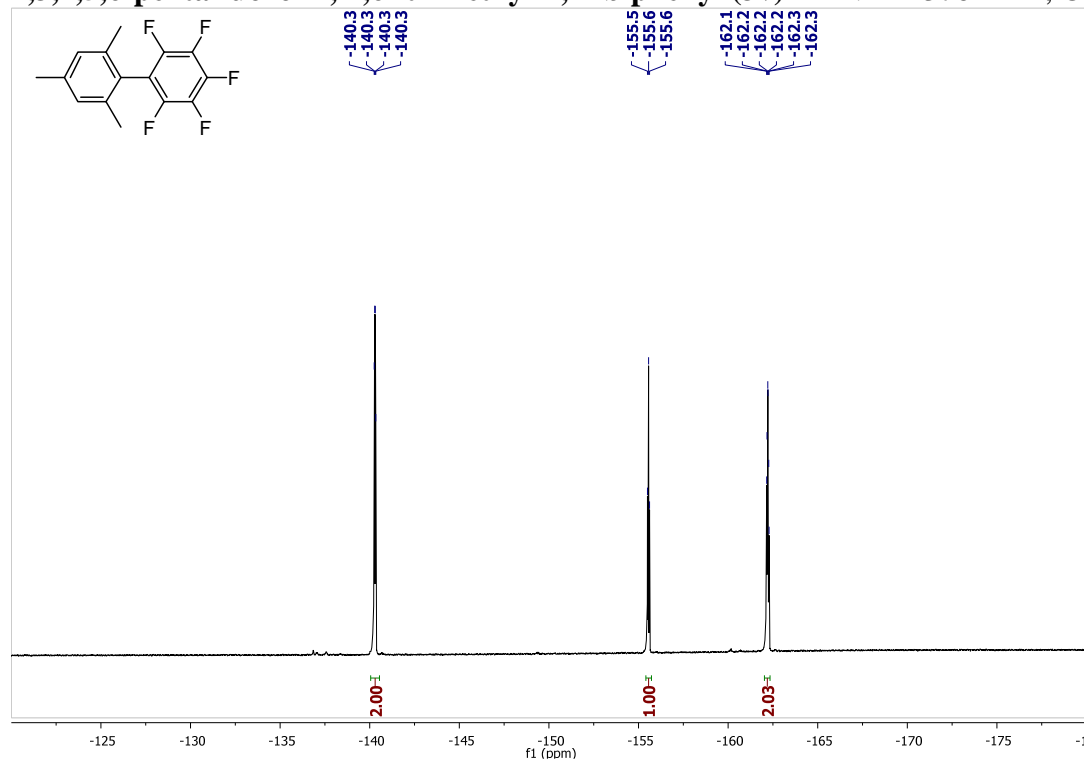
2,3,4,5,6-pentafluoro-2',4',6'-trimethyl-1,1'-biphenyl (3v) ^1H NMR-400 MHz, CDCl_3



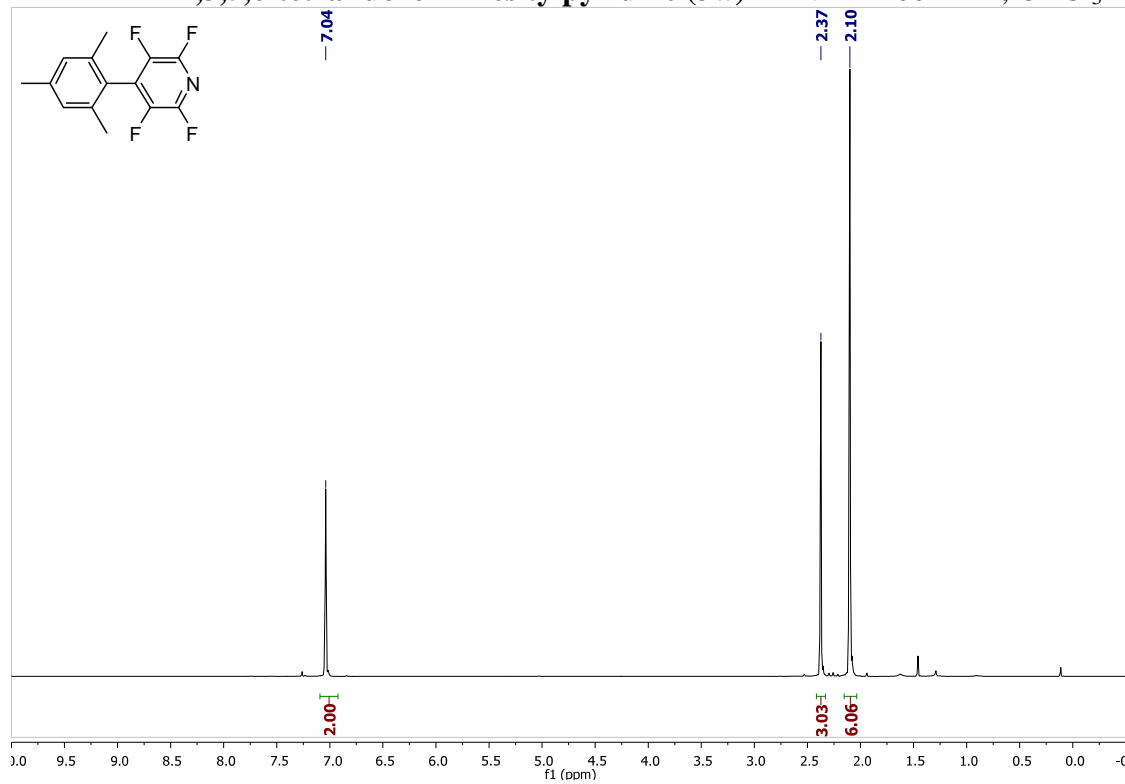
2,3,4,5,6-pentafluoro-2',4',6'-trimethyl-1,1'-biphenyl (3v) ^{13}C NMR-101MHz, CDCl_3



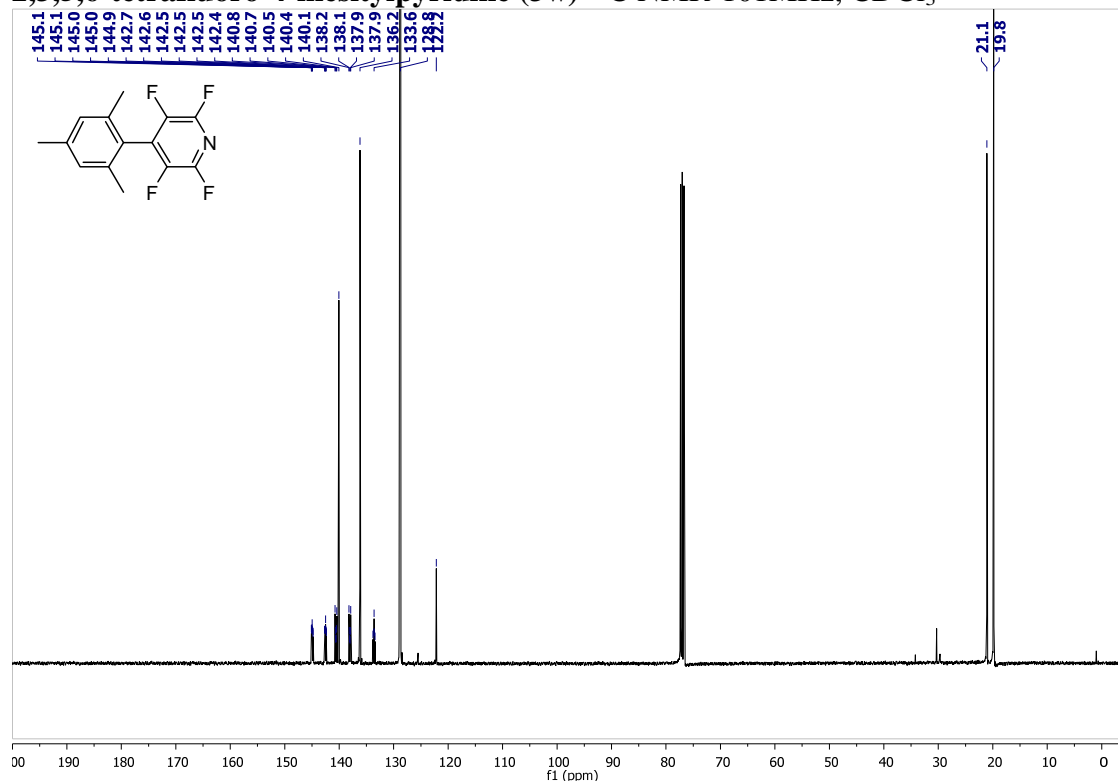
2,3,4,5,6-pentafluoro-2',4',6'-trimethyl-1,1'-biphenyl (3v) ^{19}F NMR-376 MHz, CDCl_3



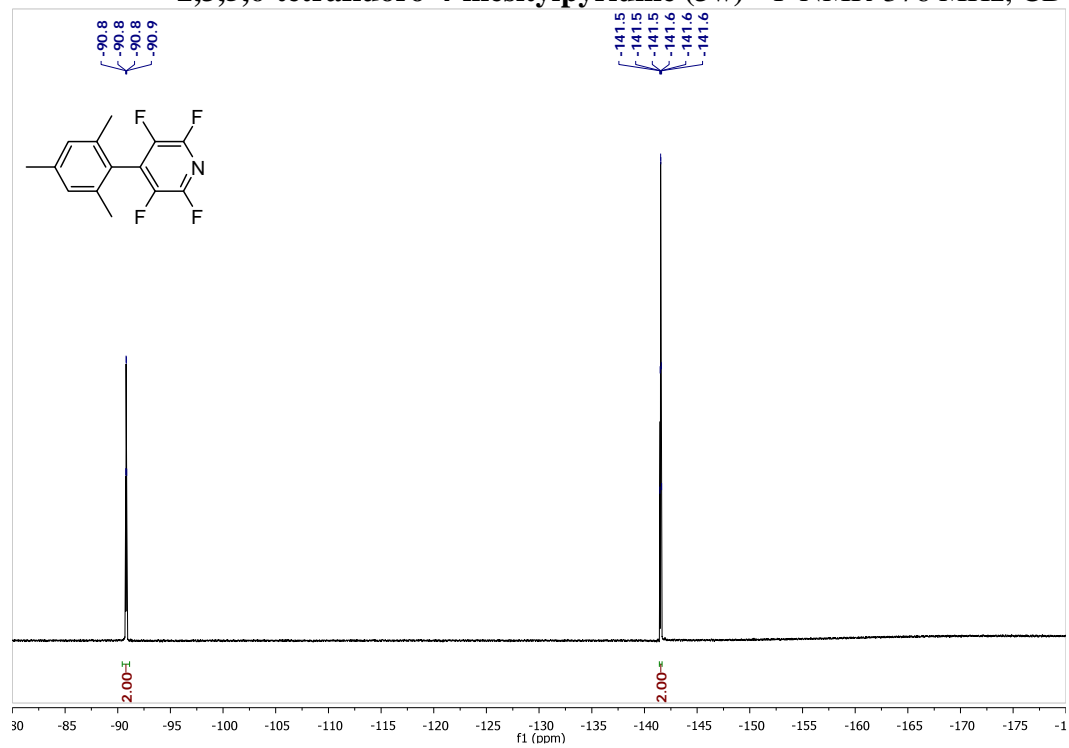
2,3,5,6-tetrafluoro-4-mesitylpyridine (3w) ^1H NMR-400 MHz, CDCl_3



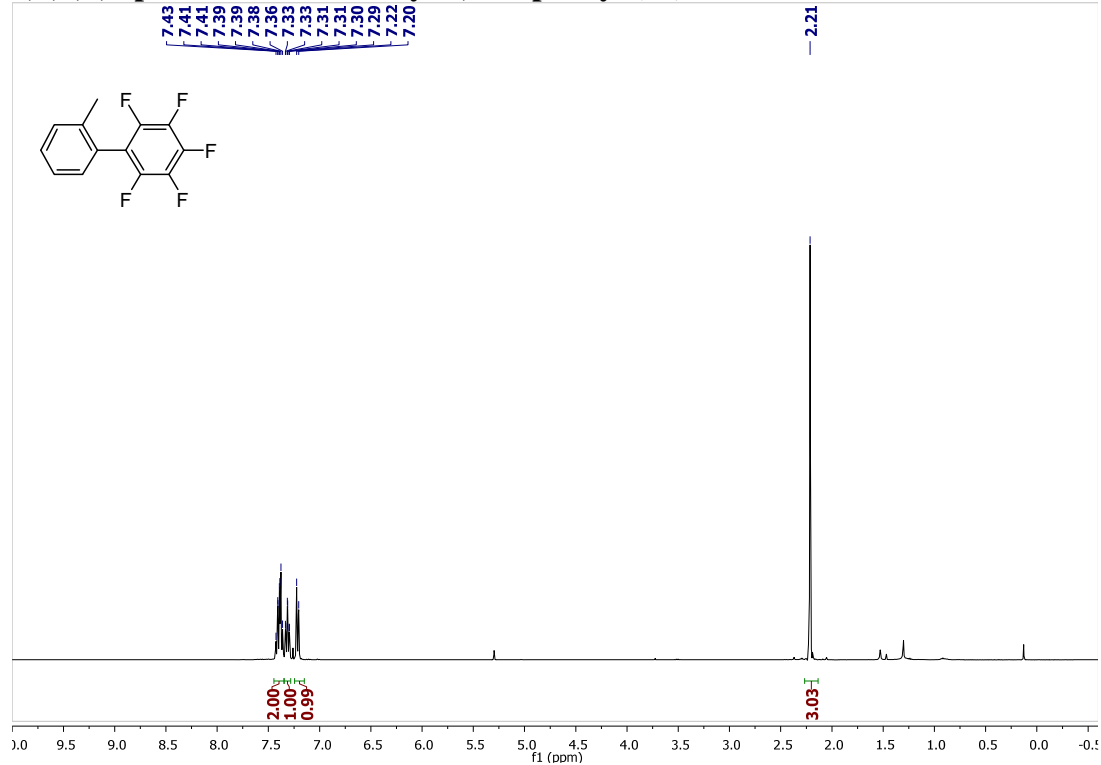
2,3,5,6-tetrafluoro-4-mesitylpyridine (3w) ^{13}C NMR-101MHz, CDCl_3



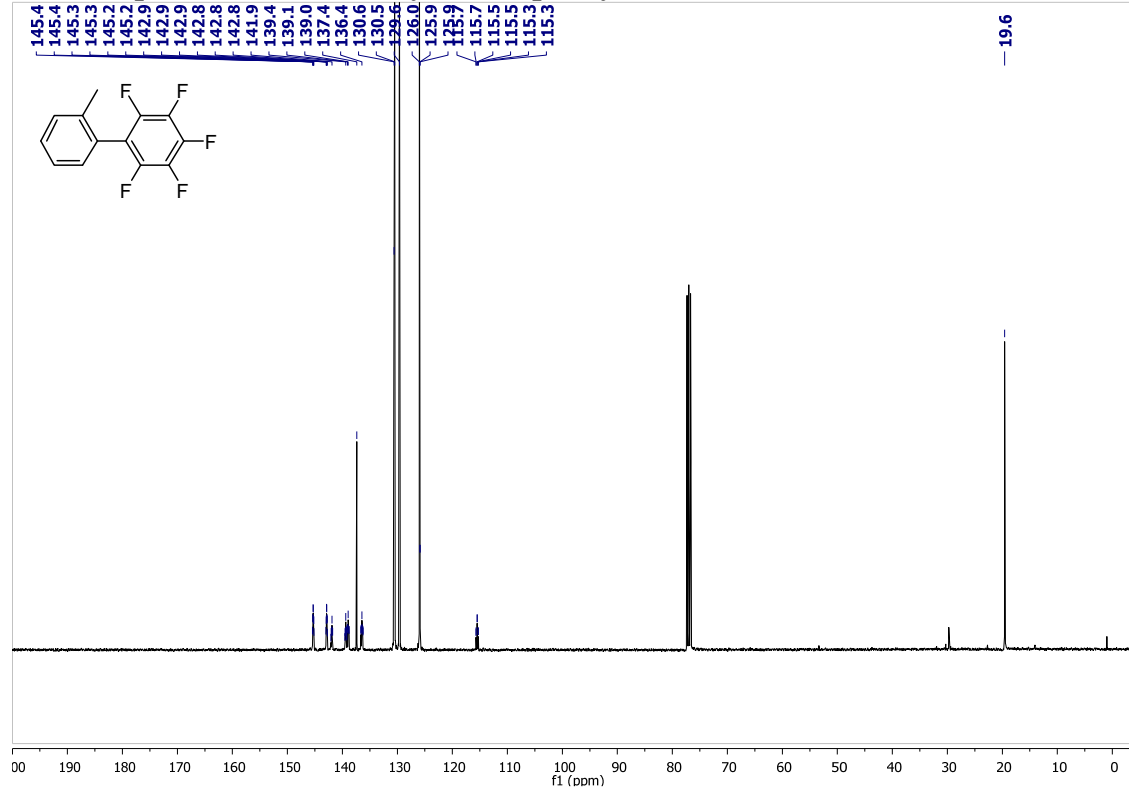
2,3,5,6-tetrafluoro-4-mesitylpyridine (3w) ^{19}F NMR-376 MHz, CDCl_3



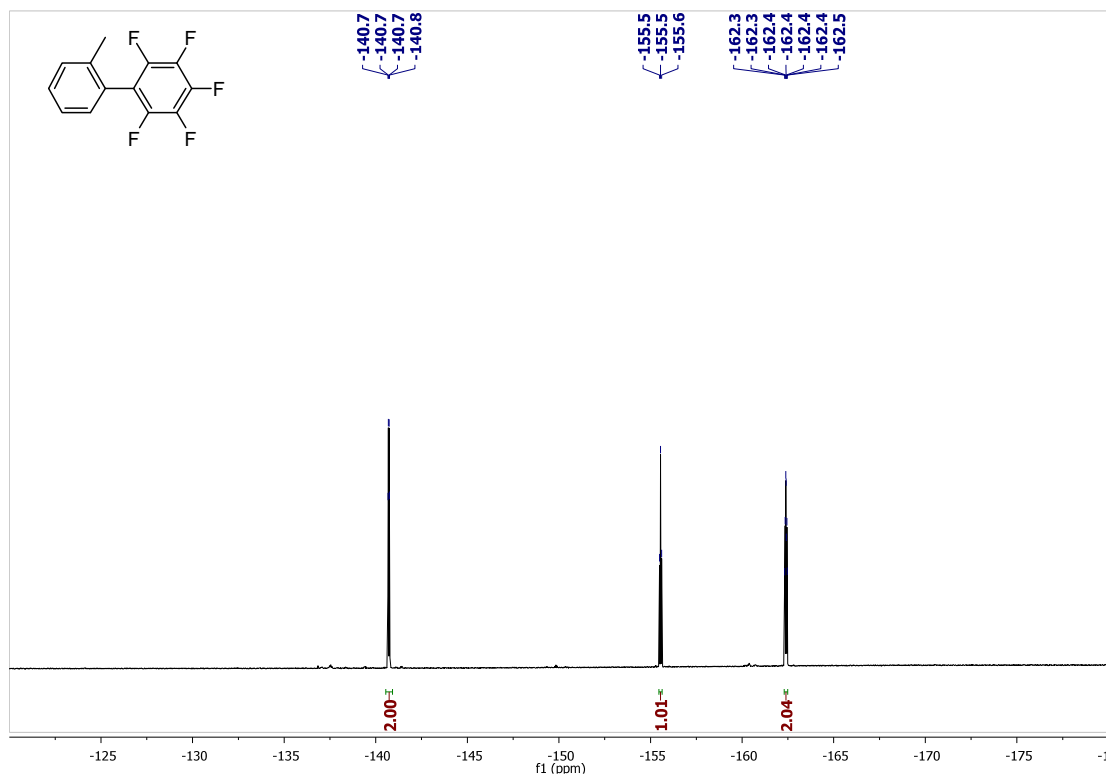
2,3,4,5,6-pentafluoro-2'-methyl-1,1'-biphenyl (3x) ^1H NMR-400 MHz, CDCl_3



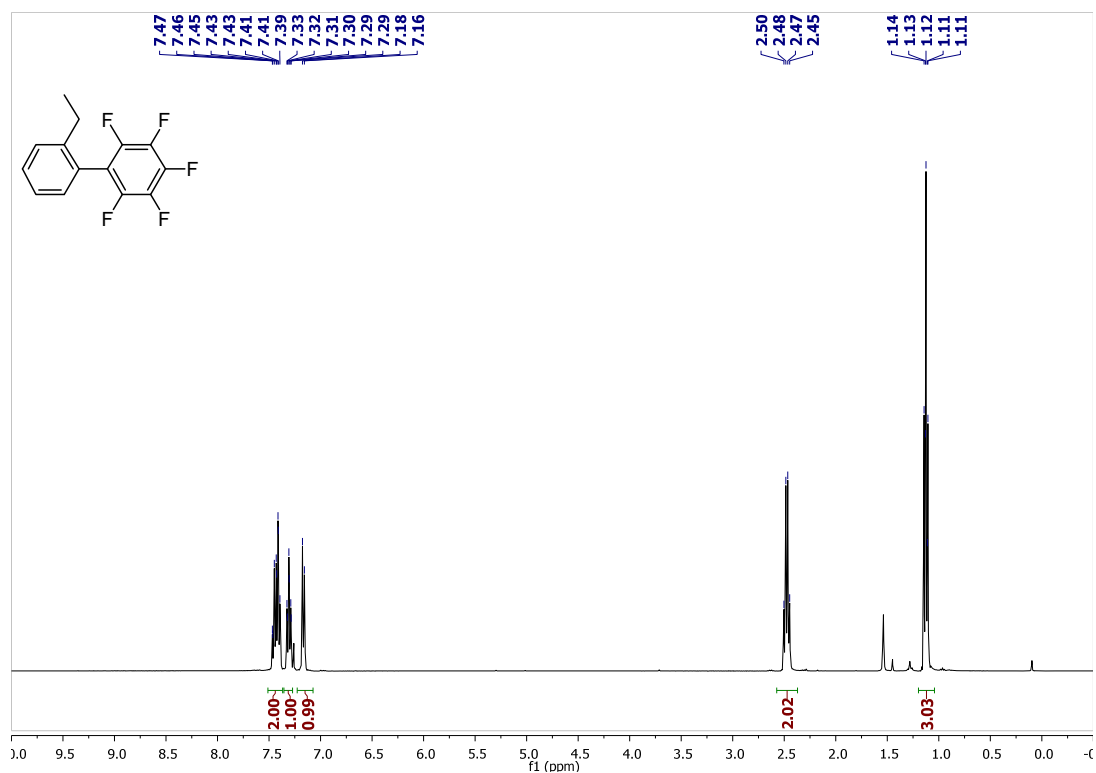
2,3,4,5,6-pentafluoro-2'-methyl-1,1'-biphenyl (3x) ^{13}C NMR-101MHz, CDCl_3

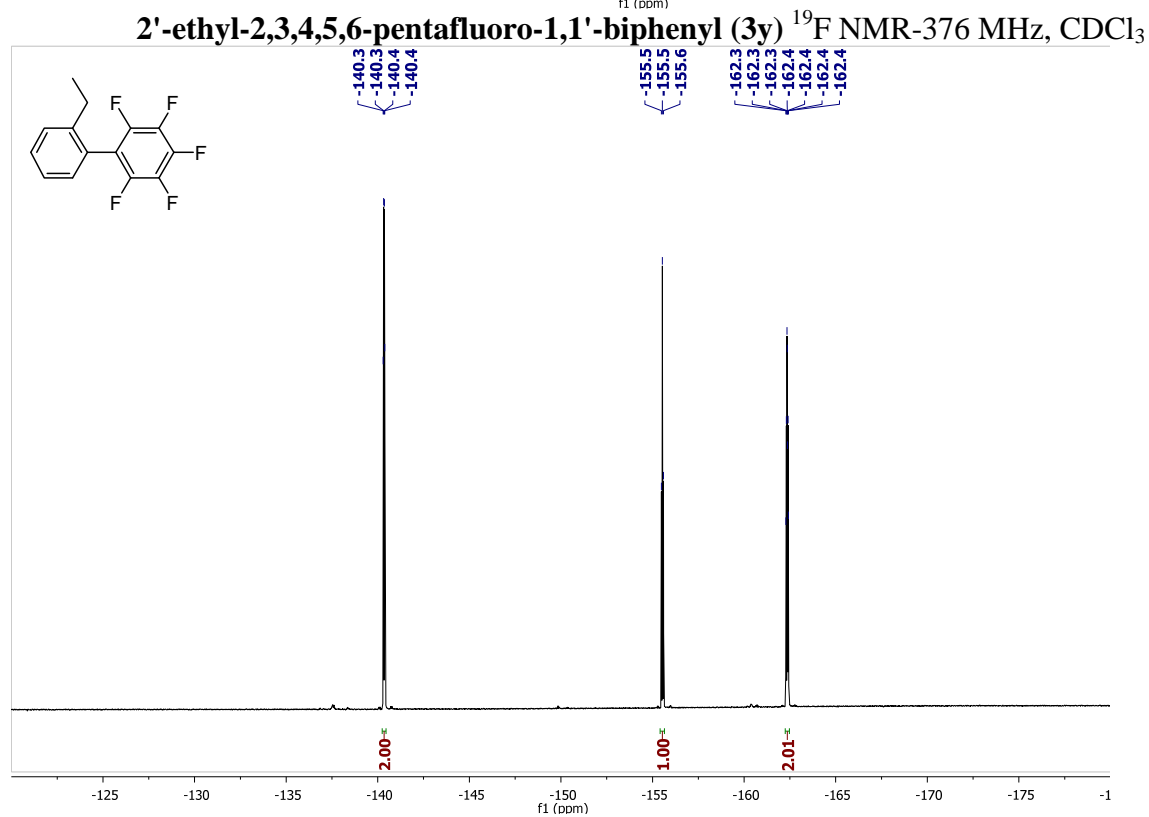
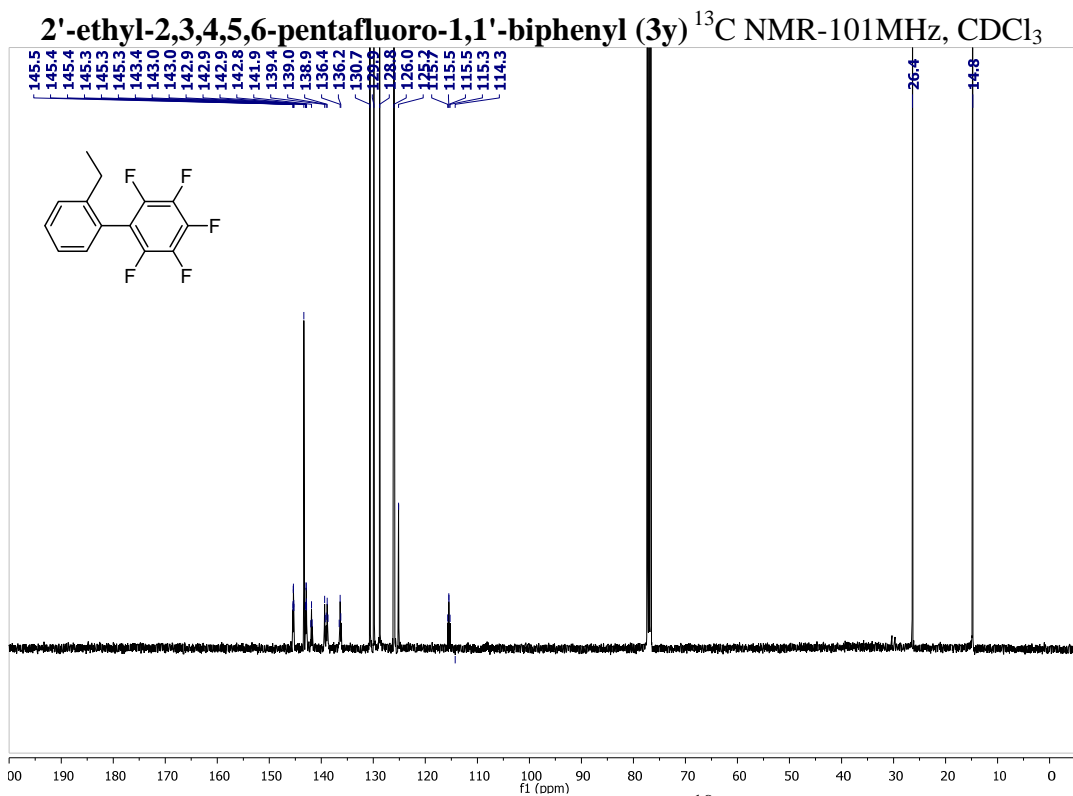


2,3,4,5,6-pentafluoro-2'-methyl-1,1'-biphenyl (3x) ^{19}F NMR-376 MHz, CDCl_3

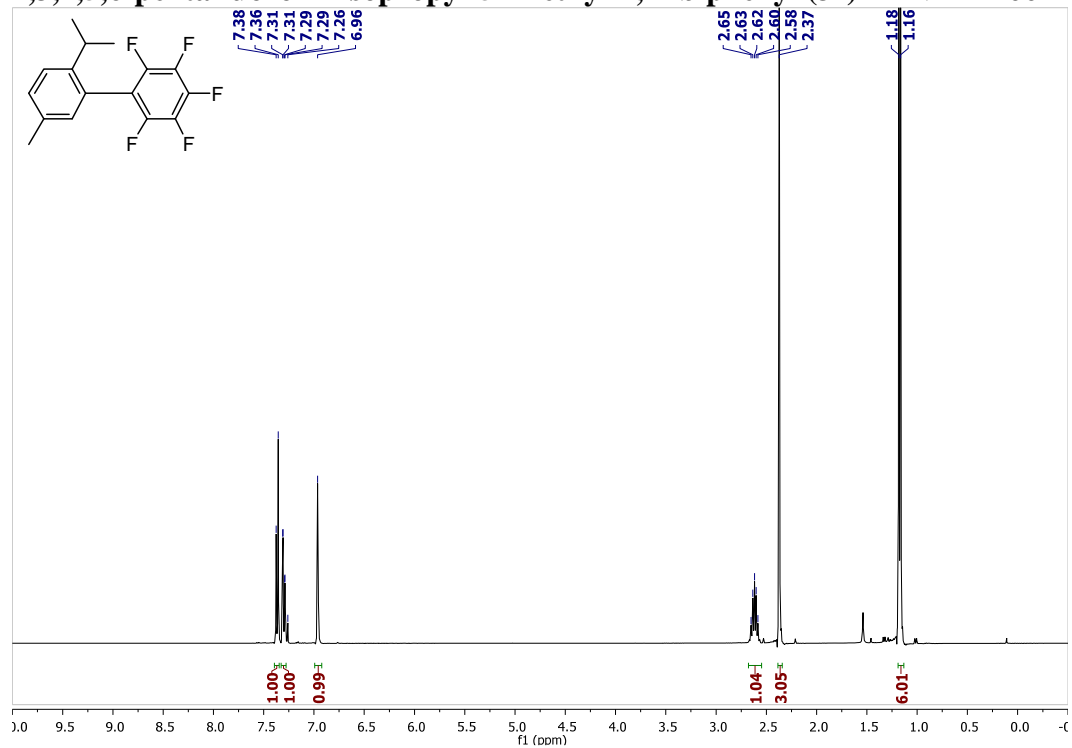


2'-ethyl-2,3,4,5,6-pentafluoro-1,1'-biphenyl (3y) ^1H NMR-400 MHz, CDCl_3

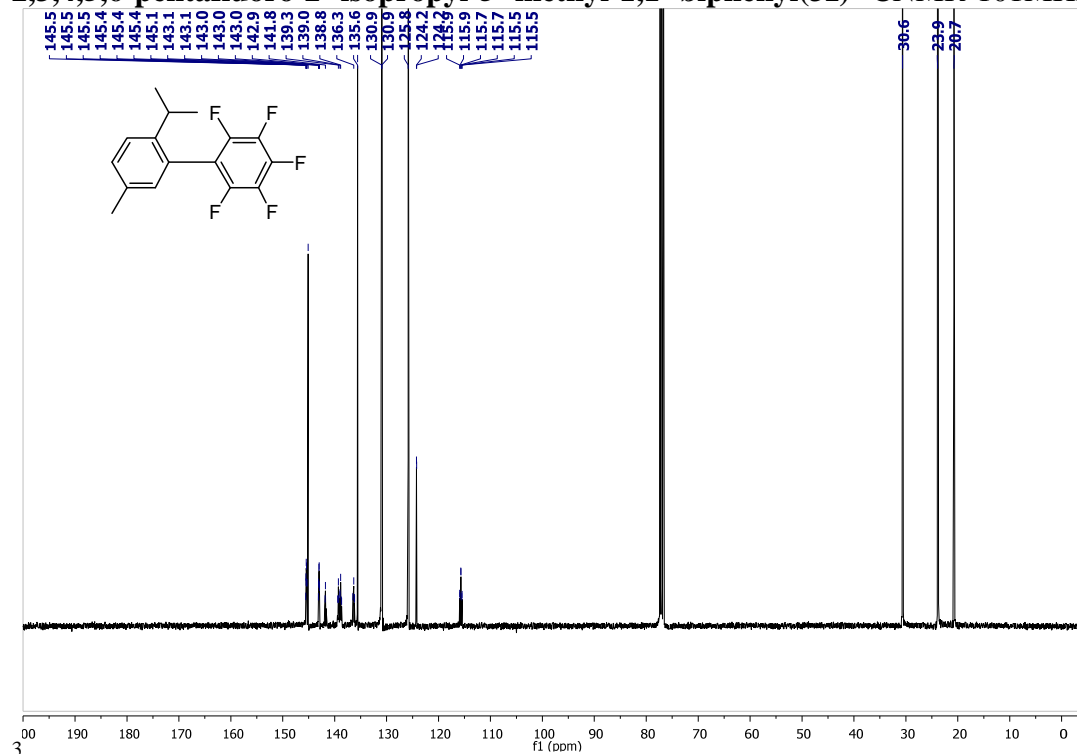




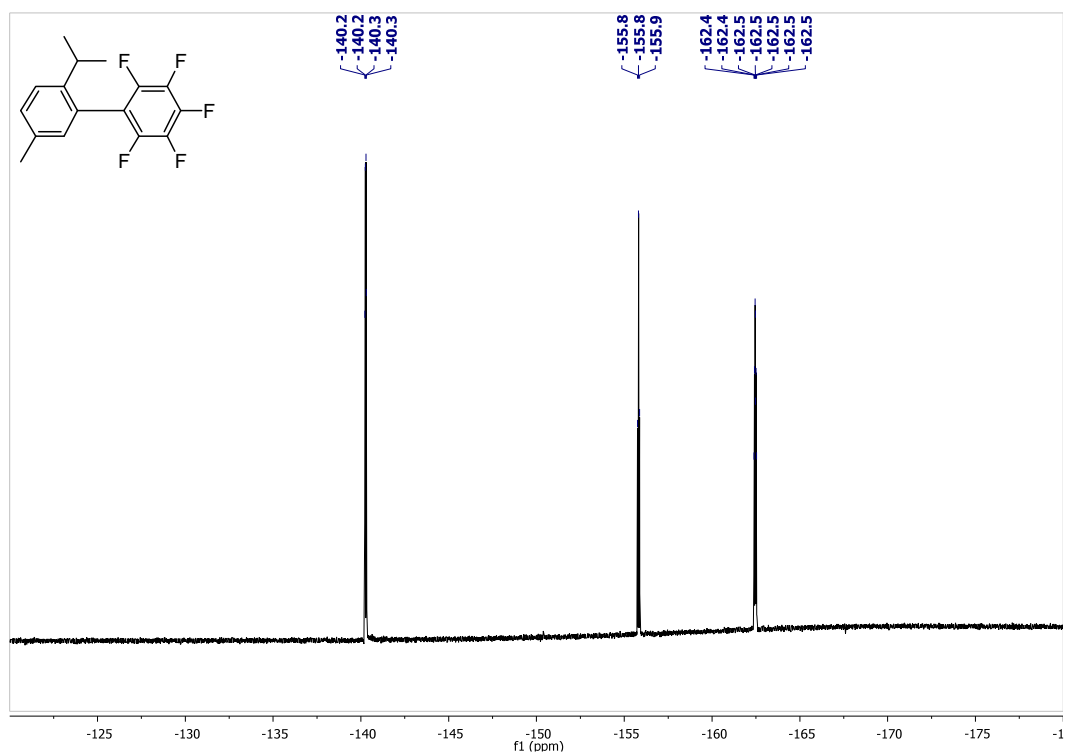
2,3,4,5,6-pentafluoro-2'-isopropyl-5'-methyl-1,1'-biphenyl (3z) ^1H NMR-400 MHz, CDCl_3



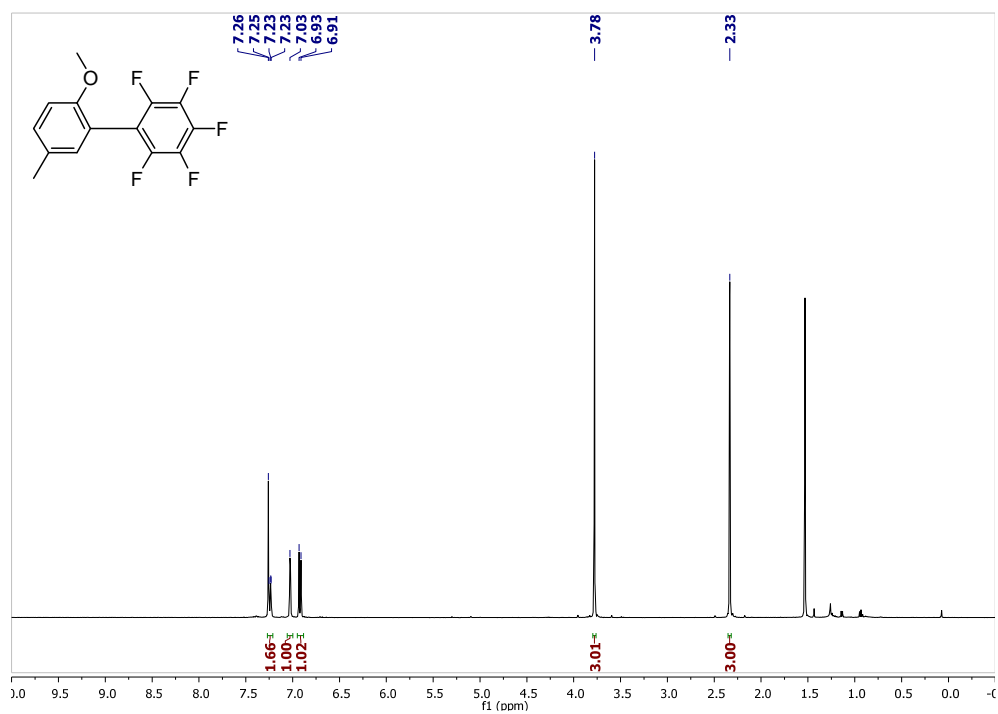
2,3,4,5,6-pentafluoro-2'-isopropyl-5'-methyl-1,1'-biphenyl(3z) ^{13}C NMR-101MHz, CDCl_3



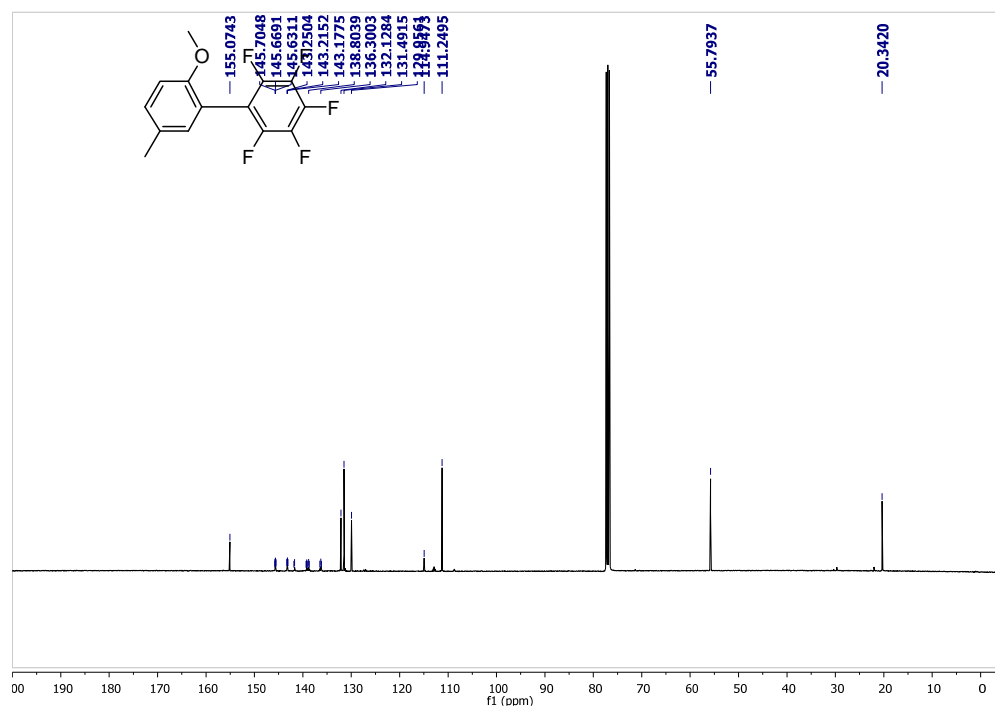
2,3,4,5,6-pentafluoro-2'-isopropyl-5'-methyl-1,1'-biphenyl (3z) ^{19}F NMR-376 MHz, CDCl_3



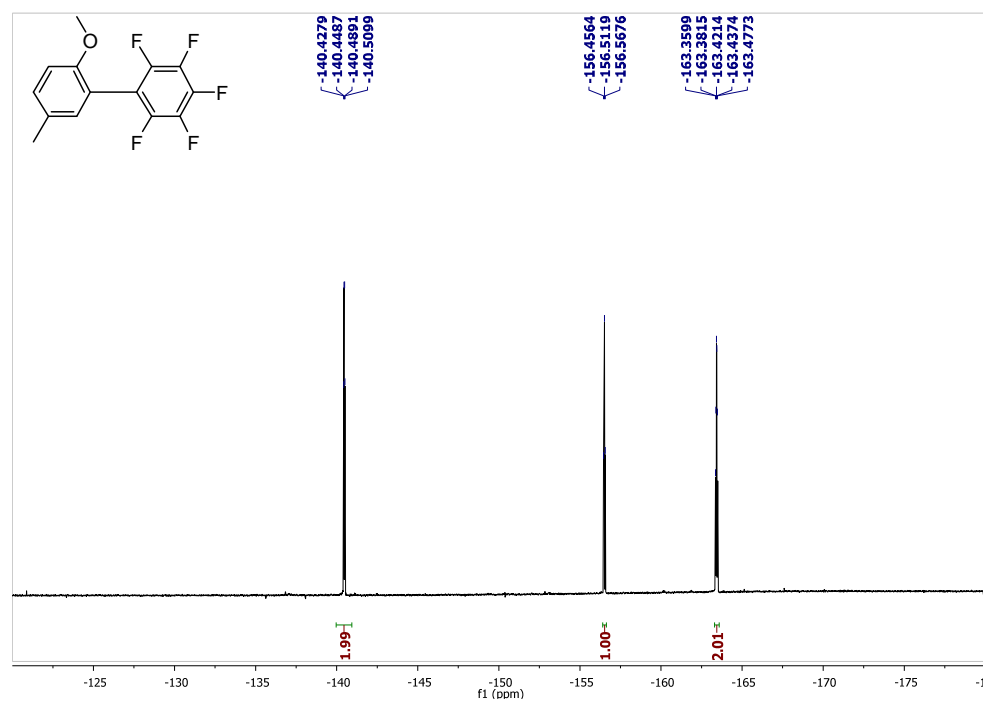
2,3,4,5,6-pentafluoro-2'-methoxy-5'-methyl-1,1'-biphenyl (3a1) ^1H NMR-400 MHz, CDCl_3



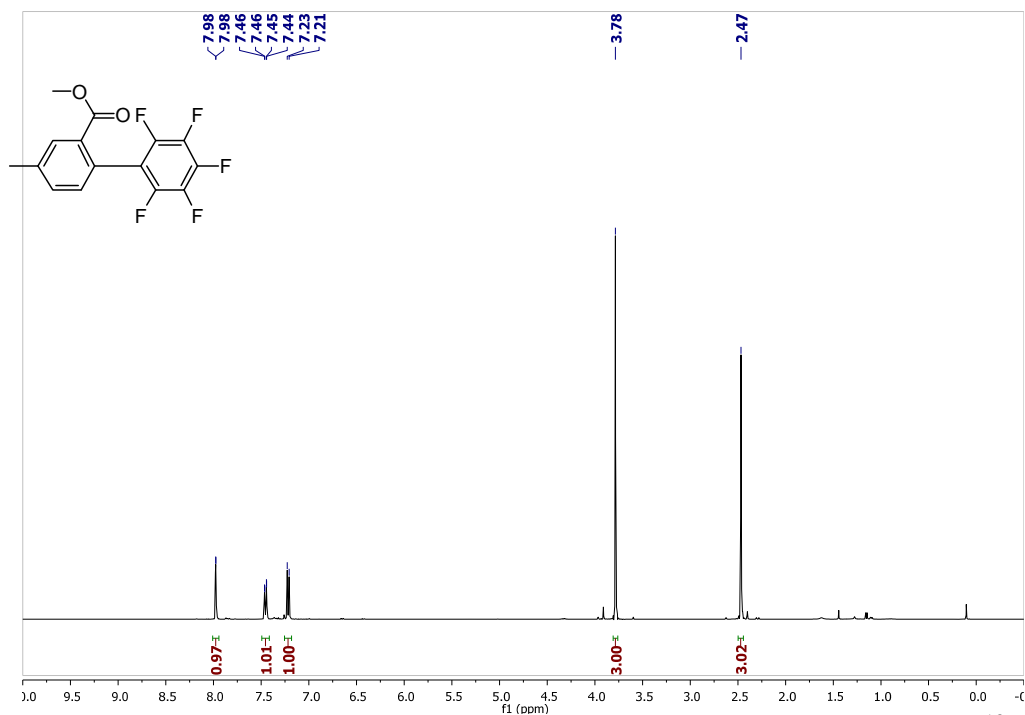
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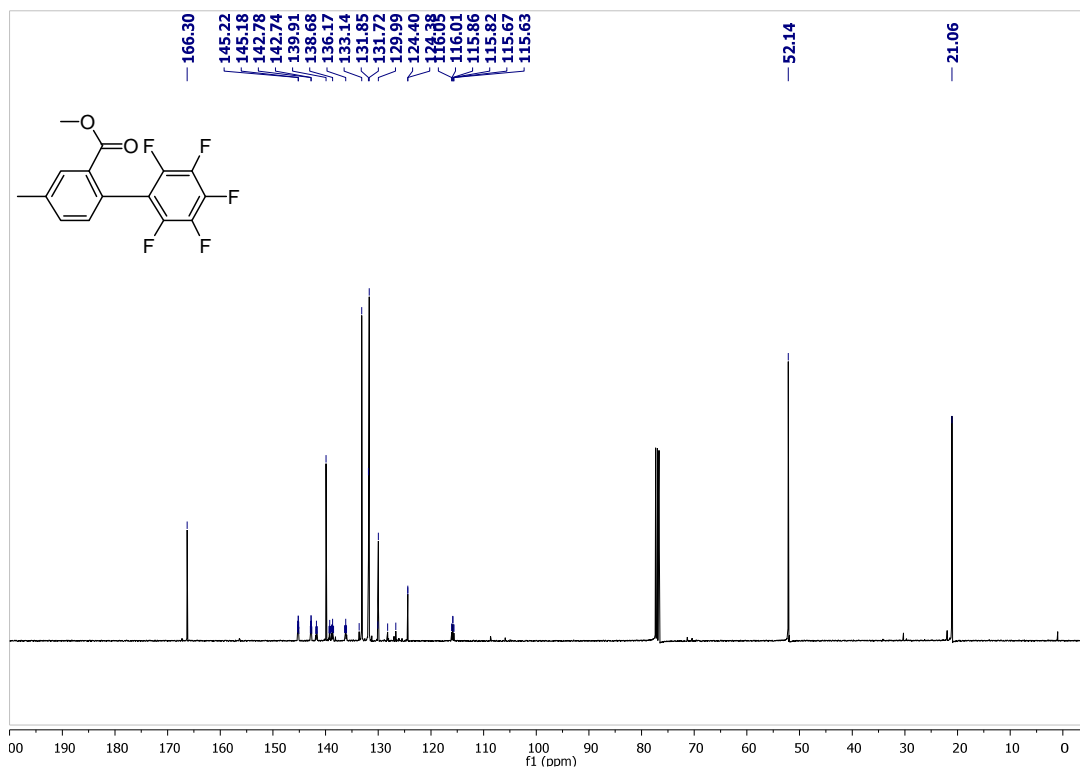
2,3,4,5,6-pentafluoro-2'-methoxy-5'-methyl-1,1'-biphenyl (3a1) ^{19}F NMR-376 MHz, CDCl_3



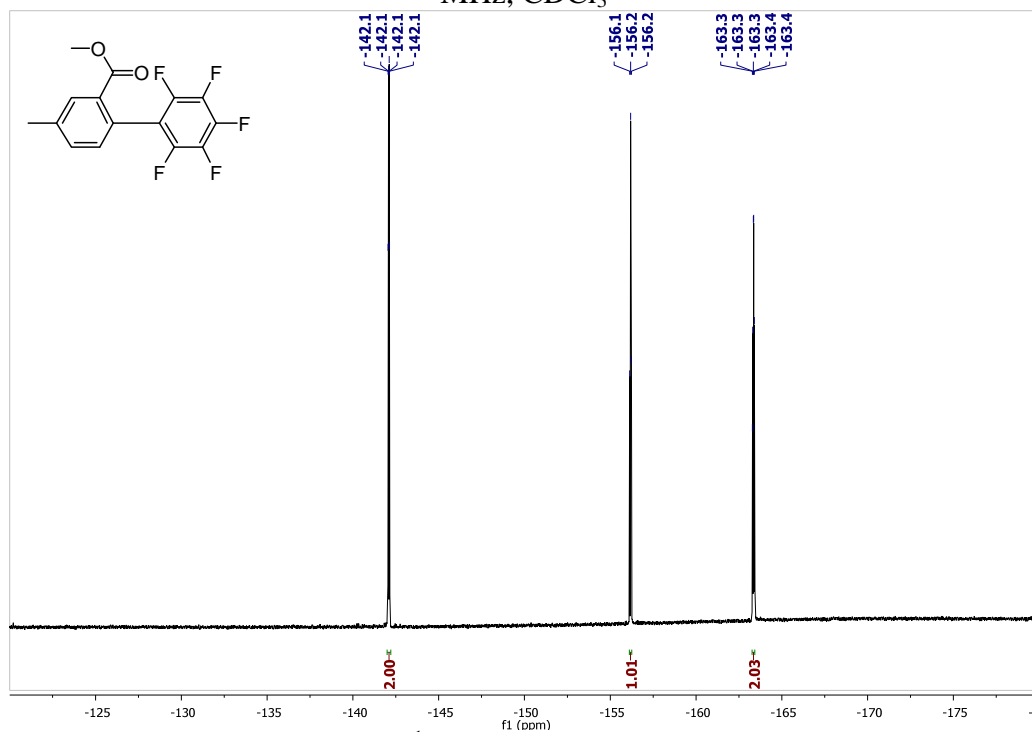
methyl 2',3',4',5',6'-pentafluoro-4-methyl-[1,1'-biphenyl]-2-carboxylate (3b1) ^1H NMR-400 MHz, CDCl_3



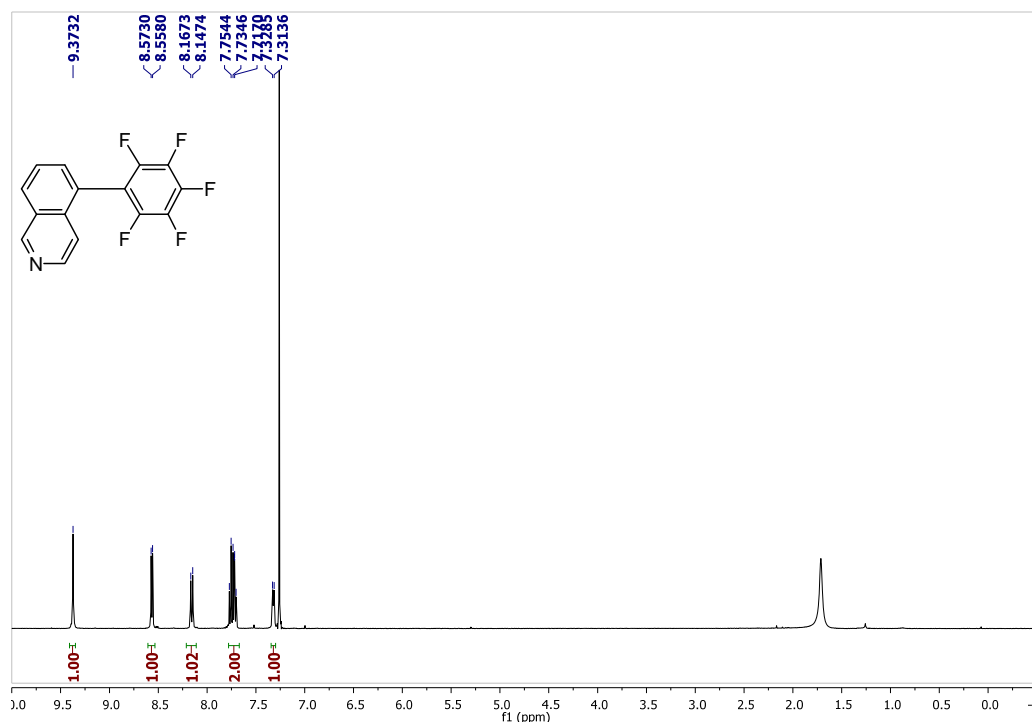
methyl 2',3',4',5',6'-pentafluoro-4-methyl-[1,1'-biphenyl]-2-carboxylate (3b1) ^{13}C NMR-101MHz, CDCl_3



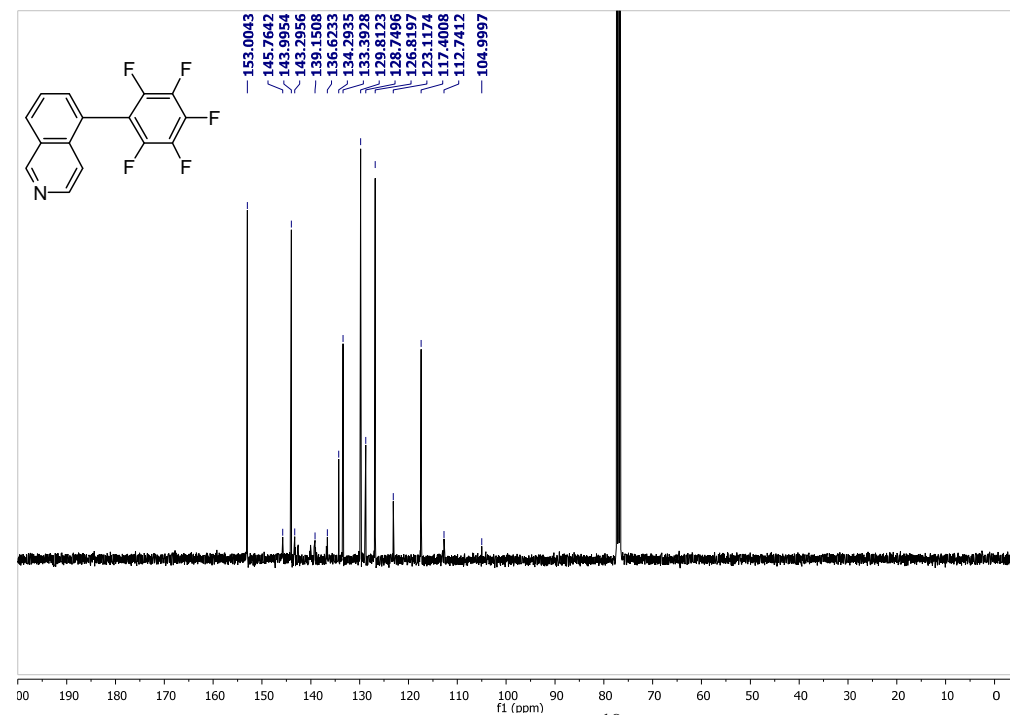
methyl 2',3',4',5',6'-pentafluoro-4-methyl-[1,1'-biphenyl]-2-carboxylate (3b1) ^{19}F NMR-376
MHz, CDCl_3



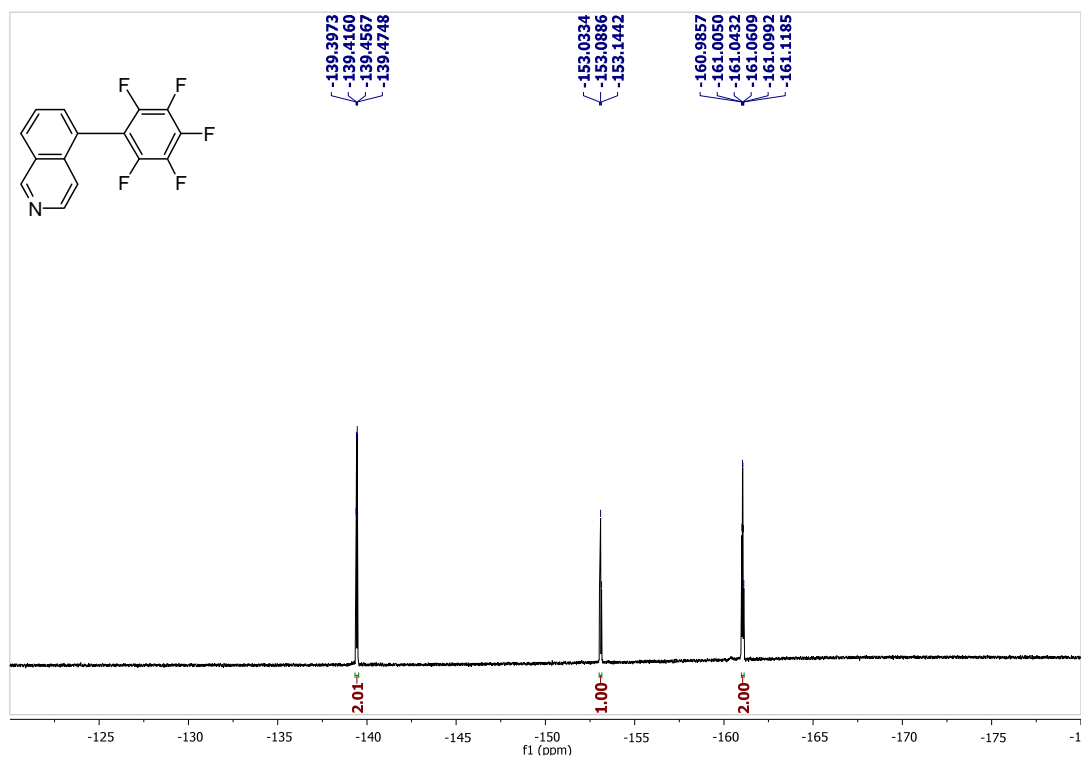
5-(perfluorophenyl)isoquinoline (3c1) ^1H NMR-400 MHz, CDCl_3

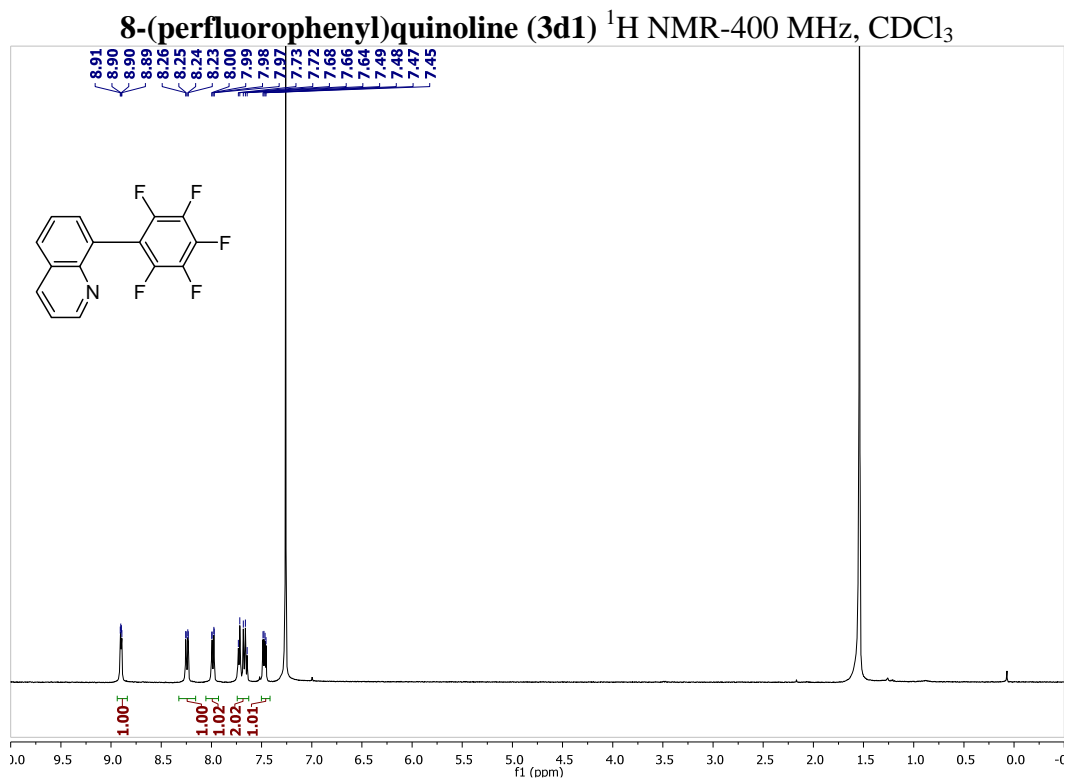


5-(perfluorophenyl)isoquinoline (3c1) ^{13}C NMR-101MHz, CDCl_3

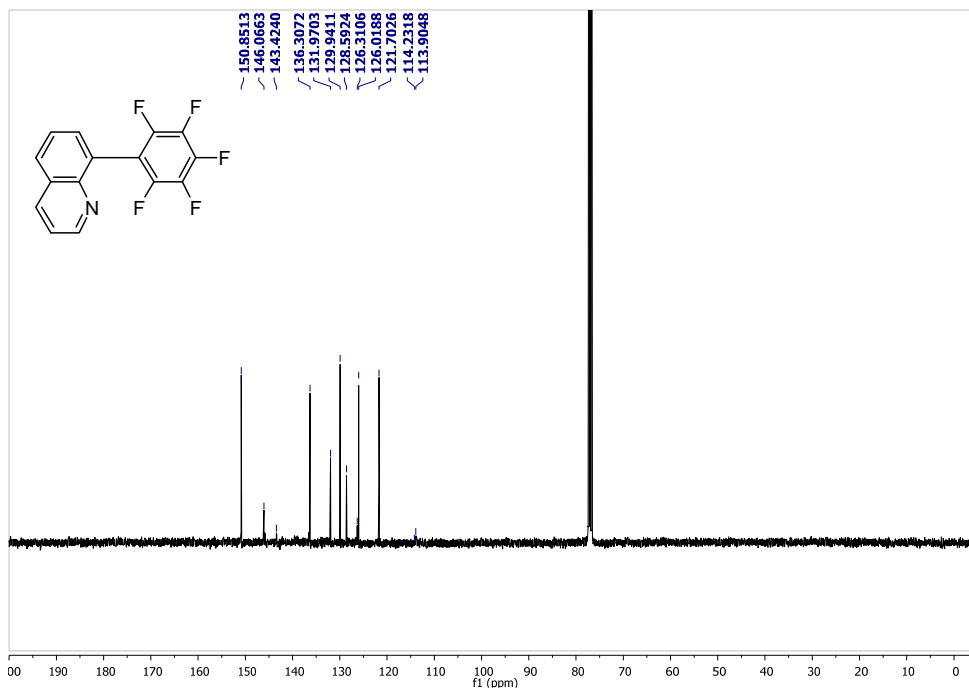


5-(perfluorophenyl)isoquinoline (3c1) ^{19}F NMR-376 MHz, CDCl_3

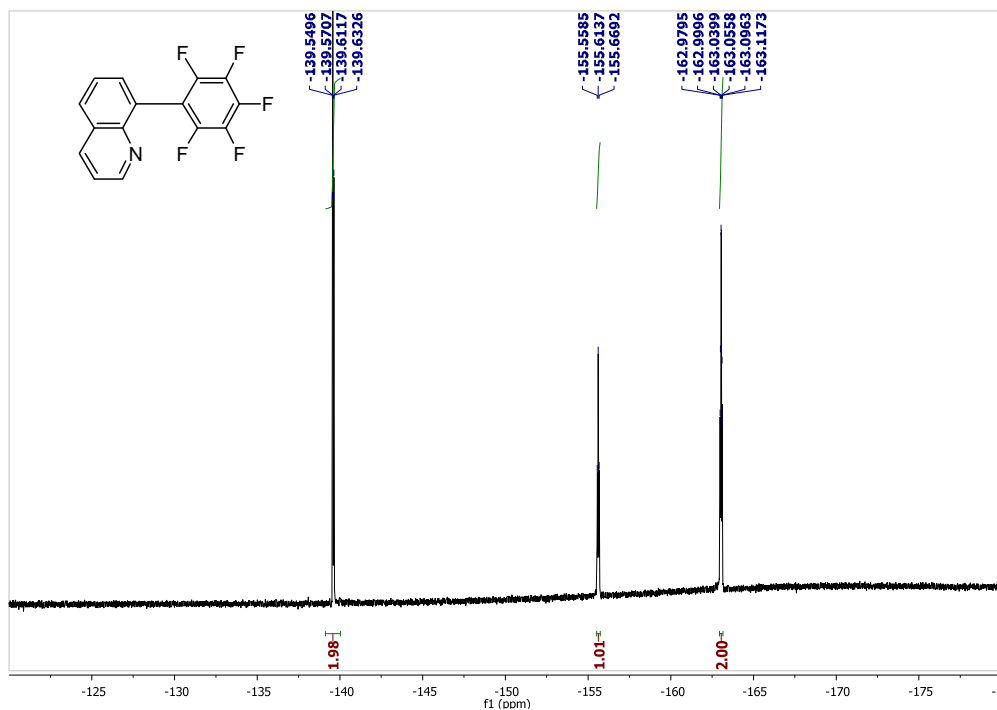




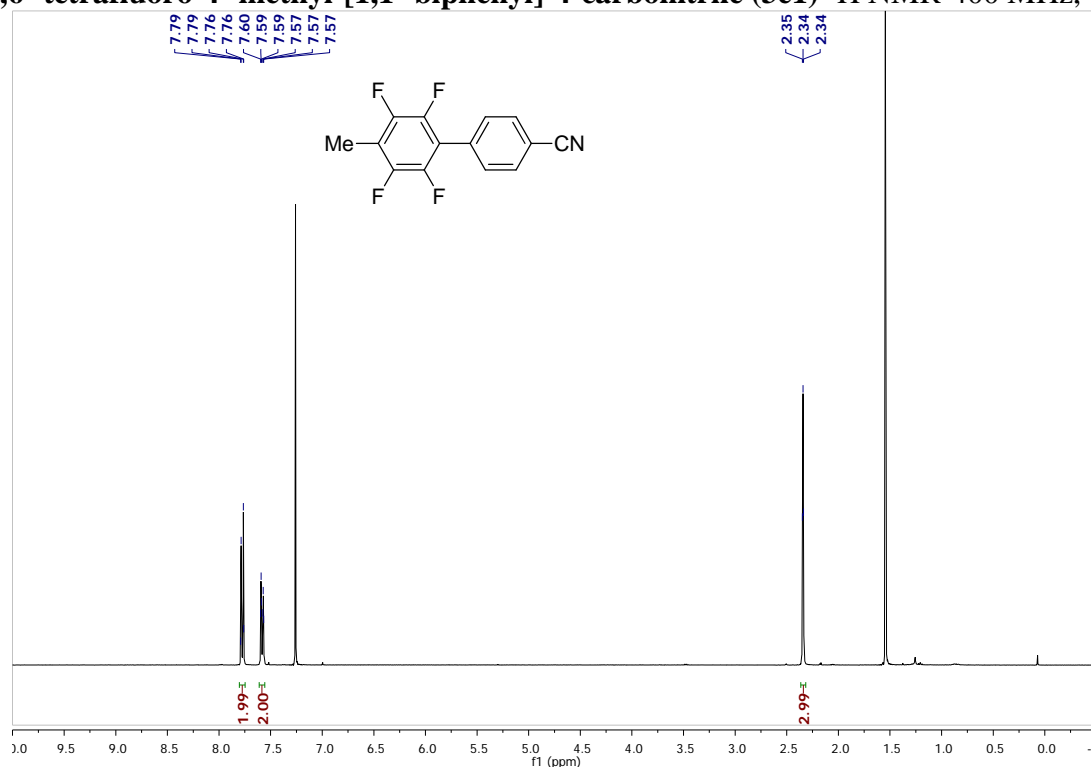
8-(perfluorophenyl)quinoline (3d1) ^{13}C NMR-101MHz, CDCl_3



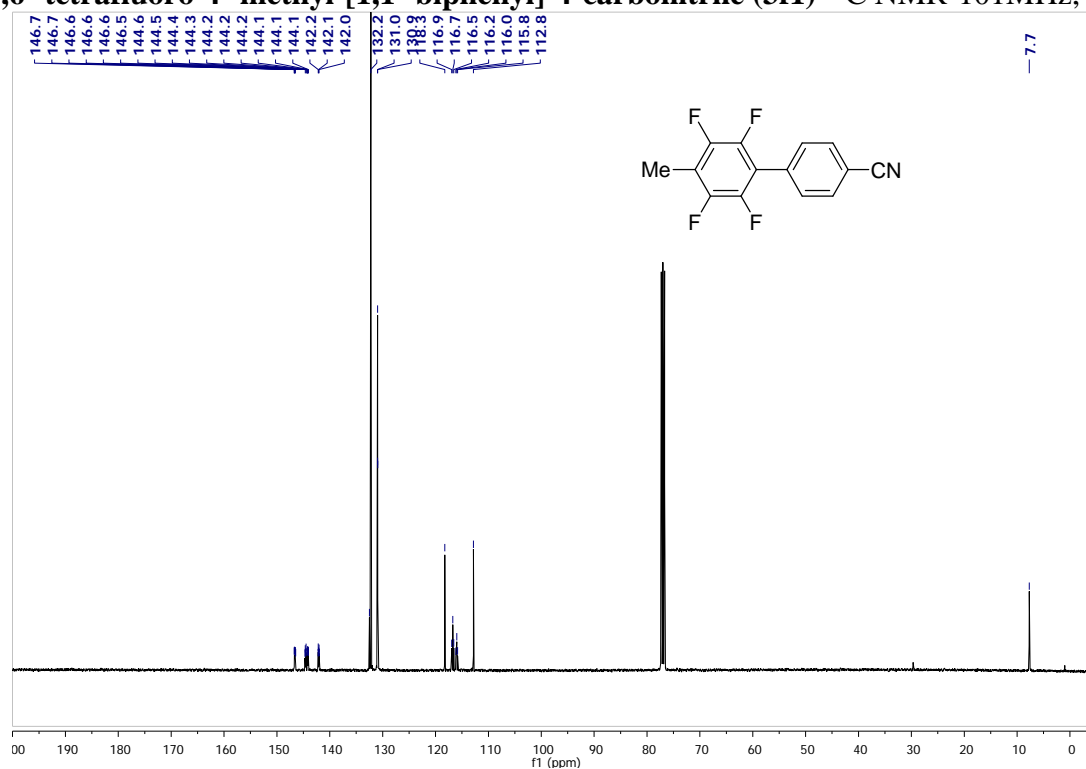
8-(perfluorophenyl)quinoline (3d1) ^{19}F NMR-376 MHz, CDCl_3



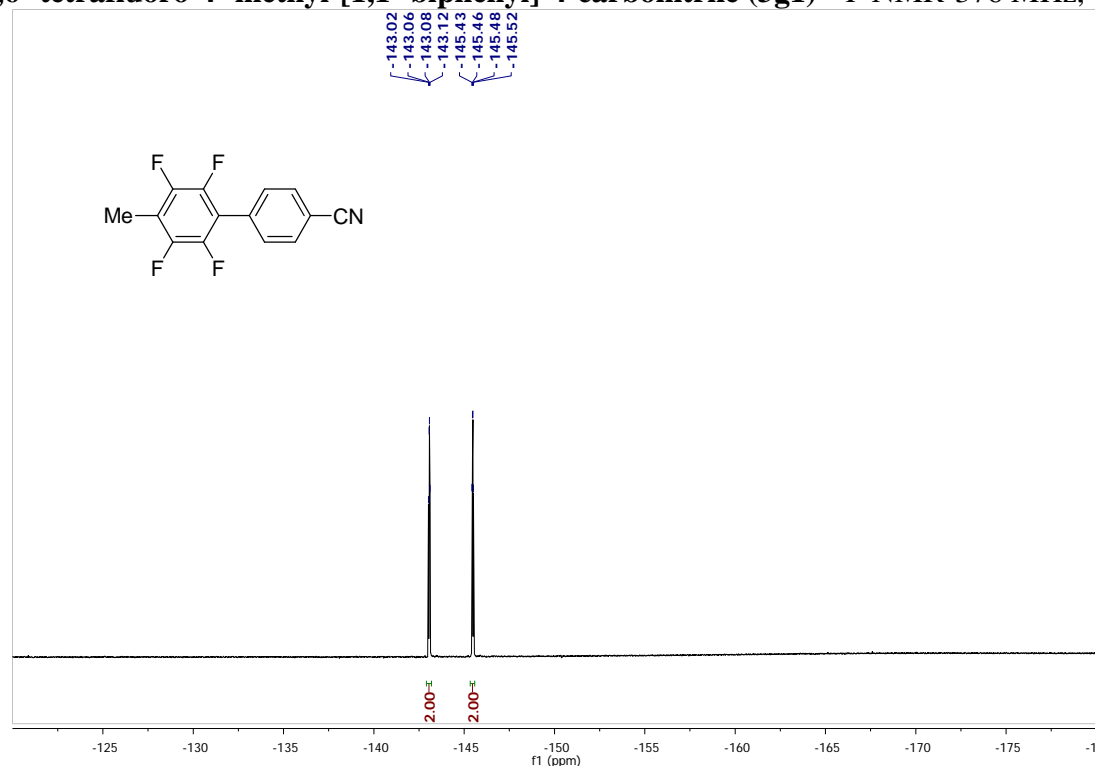
2',3',5',6'-tetrafluoro-4'-methyl-[1,1'-biphenyl]-4-carbonitrile (3e1) ^1H NMR-400 MHz, CDCl_3



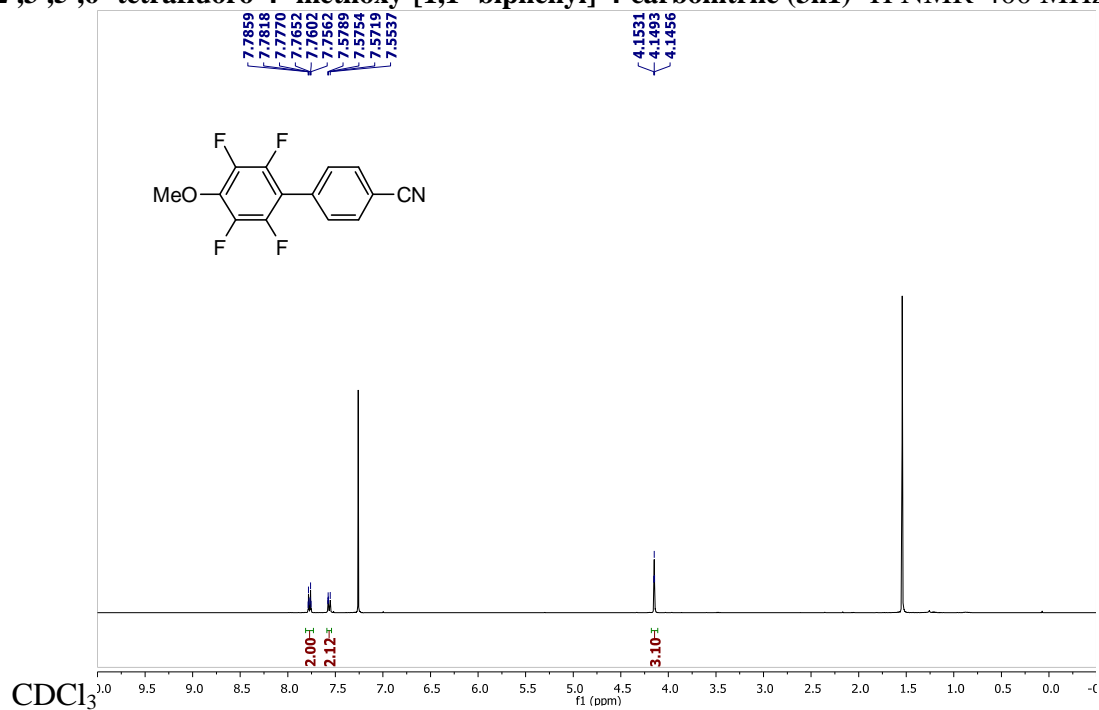
2',3',5',6'-tetrafluoro-4'-methyl-[1,1'-biphenyl]-4-carbonitrile (3f1) ^{13}C NMR-101MHz, CDCl_3



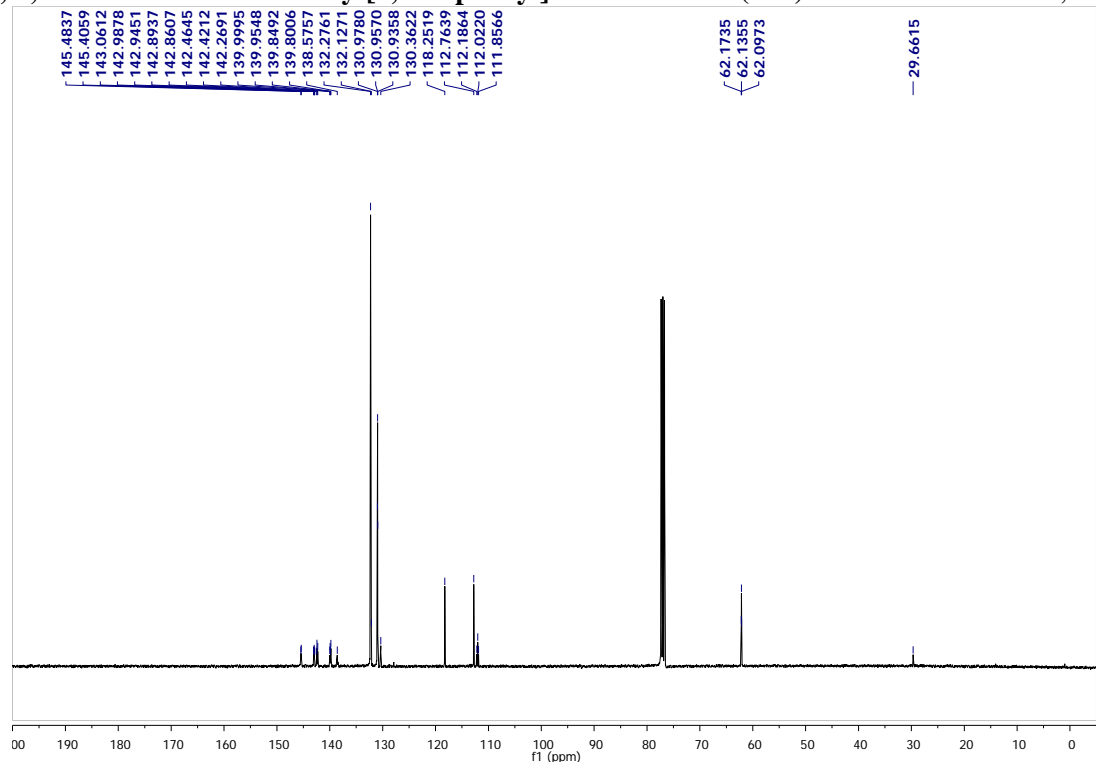
2',3',5',6'-tetrafluoro-4'-methyl-[1,1'-biphenyl]-4-carbonitrile (3g1) ^{19}F NMR-376 MHz, CDCl_3



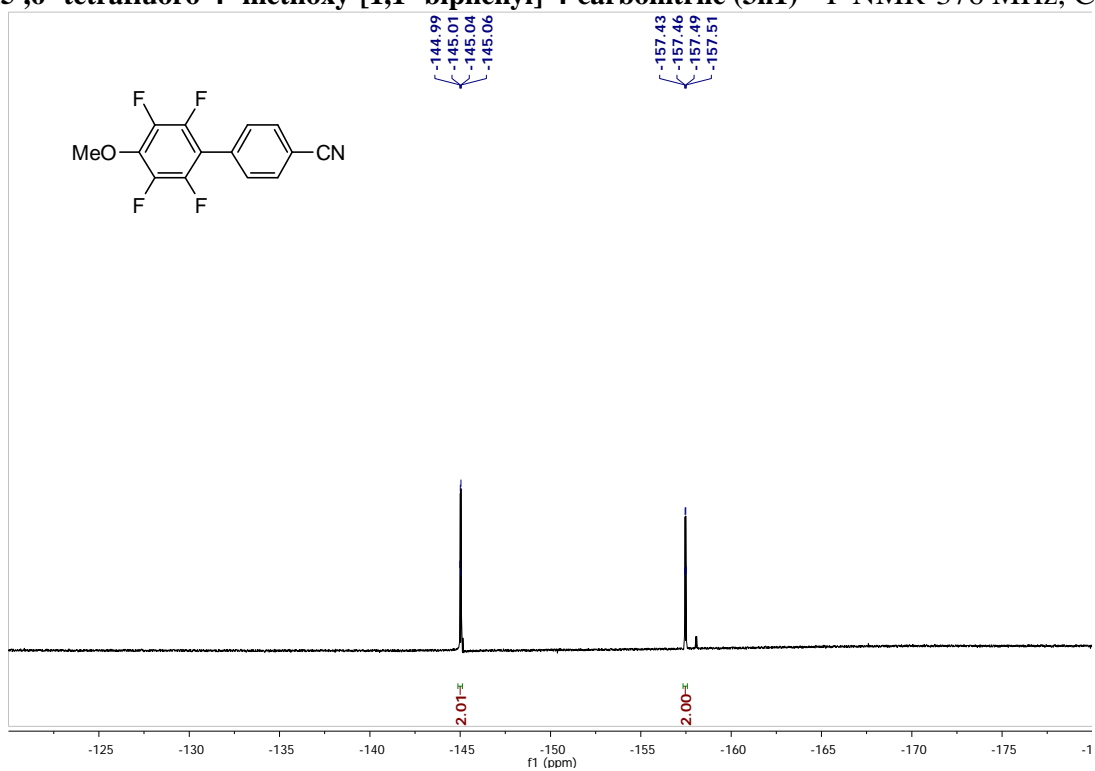
2',3',5',6'-tetrafluoro-4'-methoxy-[1,1'-biphenyl]-4-carbonitrile (3h1) ^1H NMR-400 MHz,



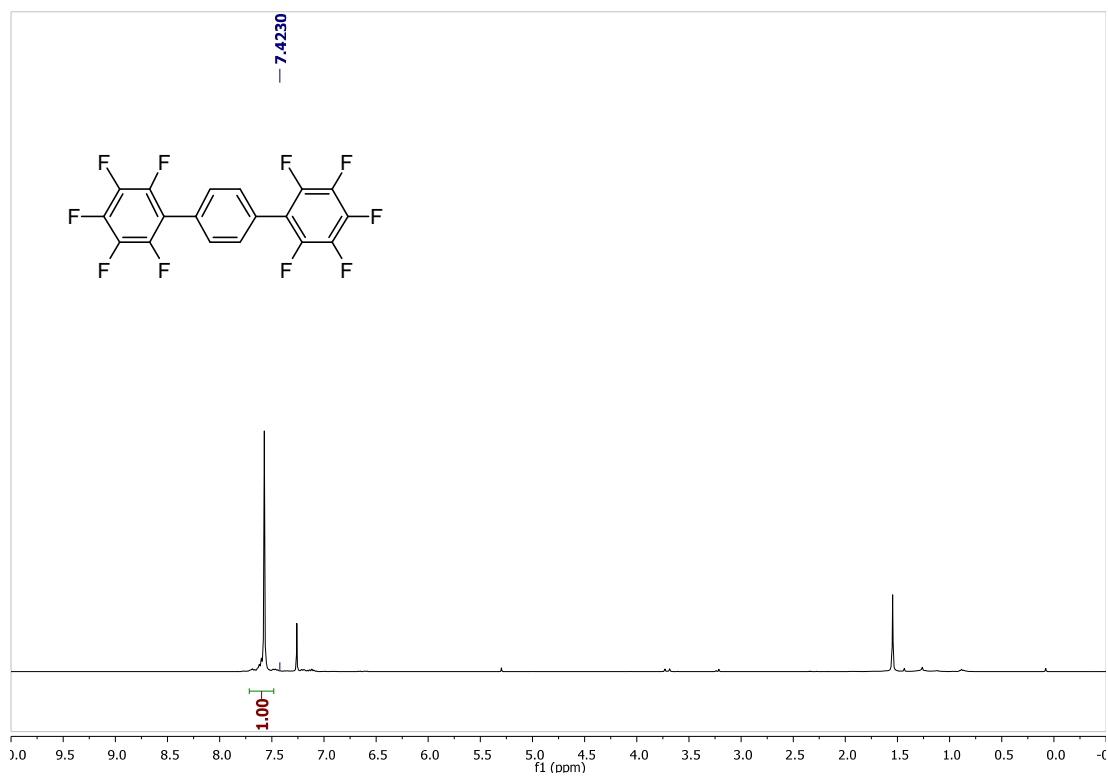
2',3',5',6'-tetrafluoro-4'-methoxy-[1,1'-biphenyl]-4-carbonitrile (3h1) ^{13}C NMR-101MHz, CDCl_3



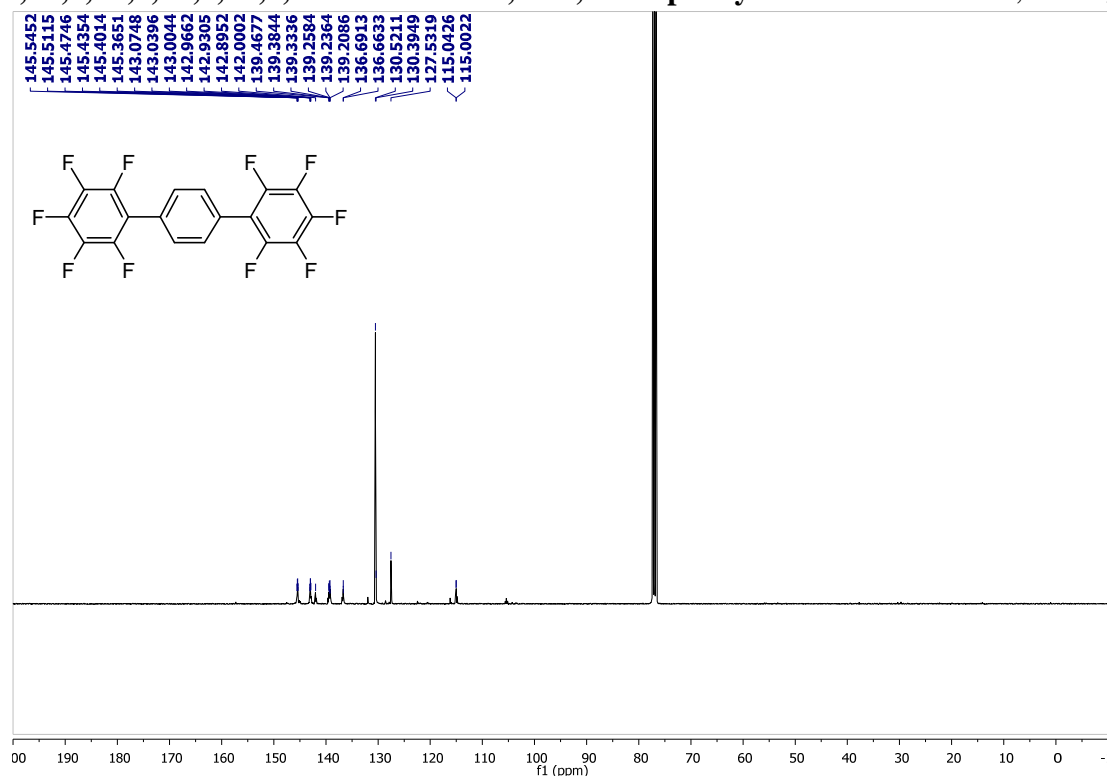
2',3',5',6'-tetrafluoro-4'-methoxy-[1,1'-biphenyl]-4-carbonitrile (3h1) ^{19}F NMR-376 MHz, CDCl_3



2,2'',3,3'',4,4'',5,5'',6,6''-decafluoro-1,1':4,1''-terphenyl ^1H NMR-400 MHz, CDCl_3



2,2'',3,3'',4,4'',5,5'',6,6''-decafluoro-1,1':4',1''-terphenyl ¹³C NMR-101MHz, CDCl₃



2,2'',3,3'',4,4'',5,5'',6,6''-decafluoro-1,1':4',1''-terphenyl ¹³g NMR-400MHz, CDCl₃

