

# Supporting Information

## Synergistic Experimental and Computational Investigation of the Bioorthogonal Reactivity of Substituted Aryltetrazines

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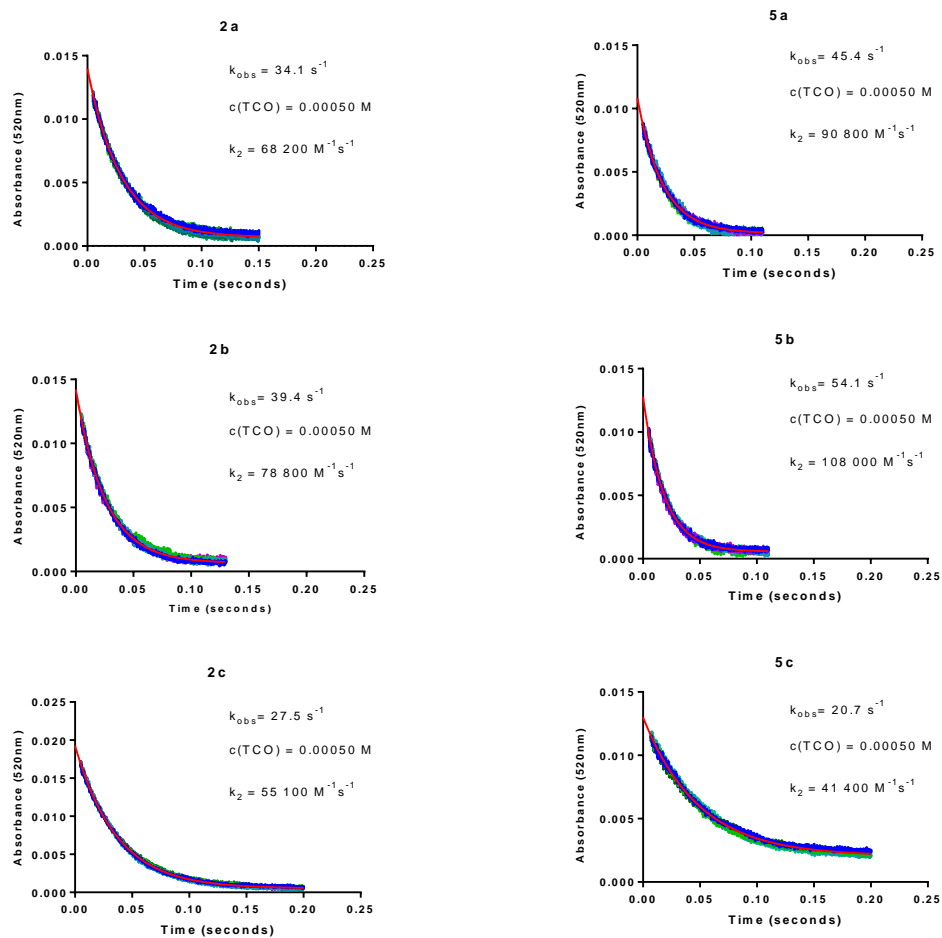
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**Figure S1.** Stopped-flow data for tetrazines **2a-c** and **5a-c** with **axTCO-PEG<sub>4</sub>** in DPBS at 37 °C. Red line indicates the exponential decay fit.



**Table S1.** Hammett constant and Upsilon parameter values employed in the correlations for the synthesized tetrazines

<b>Substituent (R)</b>	<b>Hammett constant <math>\delta_m</math></b>	<b>Hammett constant <math>\delta_p</math></b>	<b>Upsilon steric parameter</b>
-CH <sub>3</sub>	-0.07	-0.17	0.52
-CF <sub>3</sub>	0.43	0.54	-
-CH <sub>2</sub> NH <sub>2</sub>	-0.03	-0.11	0.54
-Cl	0.37	0.23	0.55
-Br	0.39	0.23	0.65
-I	0.35	0.18	0.78
-OH	0.12	-0.37	0.32
-OCH <sub>3</sub>	0.12	-0.27	0.36
-COOH	0.37	0.45	-
-COOCH <sub>3</sub>	0.37	0.45	-
-COOtBu	0.37	0.45	-
-CONH <sub>2</sub>	0.28	0.36	-
-CONHCH <sub>3</sub>	0.35	0.36	-
-NH <sub>2</sub>	-0.16	-0.66	-
-NHCOCH <sub>3</sub>	0.21	0.00	-
-SO <sub>2</sub> NH <sub>2</sub>	0.53	0.60	-
-O <sup>-</sup>	-0.47	-0.81	-
-COO <sup>-</sup>	-0.10	0.00	-

**Table S2:**  $\omega$ B97X-D/def2-TZVPD calculated gas phase energies.

Structure	E / hartree	ZPE / hartree	H / hartree	T*S / hartree	G / hartree
<b>2a</b>	-665.964631	0.153462	-665.799118	0.048974	-665.848092
<b>2b</b>	-665.963571	0.153105	-665.798244	0.049238	-665.847482
<b>2c</b>	-665.958262	0.153697	-665.792788	0.048351	-665.841139
<b>3a</b>	-963.744199	0.130388	-963.599880	0.053238	-963.653118
<b>3b</b>	-963.747345	0.130233	-963.603119	0.053368	-963.656488
<b>4a</b>	-721.316889	0.171779	-721.131932	0.051253	-721.183185
<b>4b</b>	-721.316192	0.171472	-721.131507	0.051406	-721.182913
<b>4c</b>	-721.312715	0.172108	-721.127734	0.050840	-721.178574
<b>5a</b>	-1086.250397	0.116040	-1086.122794	0.048362	-1086.171156
<b>5b</b>	-1086.252840	0.115990	-1086.125315	0.048483	-1086.173798
<b>6a</b>	-3200.254160	0.115459	-3200.126885	0.049524	-3200.176410
<b>6b</b>	-3200.256154	0.115369	-3200.128982	0.049758	-3200.178740
<b>6c</b>	-3200.247716	0.115150	-3200.120727	0.049676	-3200.170403
<b>7a</b>	-923.822897	0.115105	-923.695817	0.050390	-923.746208
<b>7b</b>	-923.823858	0.114859	-923.697010	0.050626	-923.747637
<b>7c</b>	-923.815625	0.114752	-923.688866	0.050501	-923.739367
<b>8a</b>	-701.878566	0.130427	-701.736721	0.047565	-701.784285
<b>8b</b>	-701.878516	0.130055	-701.736988	0.047723	-701.784711
<b>8c</b>	-701.883733	0.130804	-701.741883	0.046965	-701.788848
<b>9a</b>	-741.175366	0.158643	-741.003811	0.050892	-741.054703
<b>9b</b>	-741.179248	0.158468	-741.007889	0.050981	-741.058870
<b>9c</b>	-741.169749	0.158092	-740.998653	0.051143	-741.049796
<b>TCO</b>	-313.264541	0.205207	-313.050886	0.039615	-313.090501
<b>2a_TS</b>	-979.222821	0.361047	-978.842023	0.064055	-978.906078
<b>2b_TS</b>	-979.222209	0.360605	-978.841640	0.064247	-978.905886
<b>2c_TS</b>	-979.217450	0.361228	-978.836712	0.063290	-978.900002
<b>3a_TS</b>	-1277.004133	0.338045	-1276.644432	0.068072	-1276.712505
<b>3b_TS</b>	-1277.007350	0.338052	-1276.647615	0.067876	-1276.715491
<b>4a_TS</b>	-1034.575467	0.379496	-1034.175117	0.066182	-1034.241299
<b>4b_TS</b>	-1034.575058	0.379030	-1034.175082	0.066219	-1034.241300
<b>4c_TS</b>	-1034.572936	0.379785	-1034.172581	0.065538	-1034.238118
<b>5a_TS</b>	-1399.509387	0.323885	-1399.166289	0.063238	-1399.229528
<b>5b_TS</b>	-1399.512396	0.323766	-1399.169424	0.063131	-1399.232554
<b>6a_TS</b>	-3513.513268	0.323205	-3513.170541	0.064406	-3513.234947
<b>6b_TS</b>	-3513.515804	0.323071	-3513.173213	0.064303	-3513.237516
<b>6c_TS</b>	-3513.508521	0.323042	-3513.165963	0.064218	-3513.230181
<b>7a_TS</b>	-1237.082057	0.322779	-1236.739591	0.065222	-1236.804813
<b>7b_TS</b>	-1237.083567	0.322672	-1236.741198	0.065062	-1236.806260
<b>7c_TS</b>	-1237.076513	0.322565	-1236.734281	0.064825	-1236.799105
<b>8a_TS</b>	-1015.136041	0.337882	-1014.778996	0.062692	-1014.841688
<b>8b_TS</b>	-1015.137498	0.337634	-1014.780659	0.062687	-1014.843345
<b>8c_TS</b>	-1015.143168	0.338479	-1014.785911	0.061956	-1014.847867
<b>9a_TS</b>	-1054.432817	0.366347	-1054.045903	0.065679	-1054.111582
<b>9b_TS</b>	-1054.438166	0.366153	-1054.051443	0.065646	-1054.117090
<b>9c_TS</b>	-1054.430152	0.365725	-1054.043736	0.065800	-1054.109537

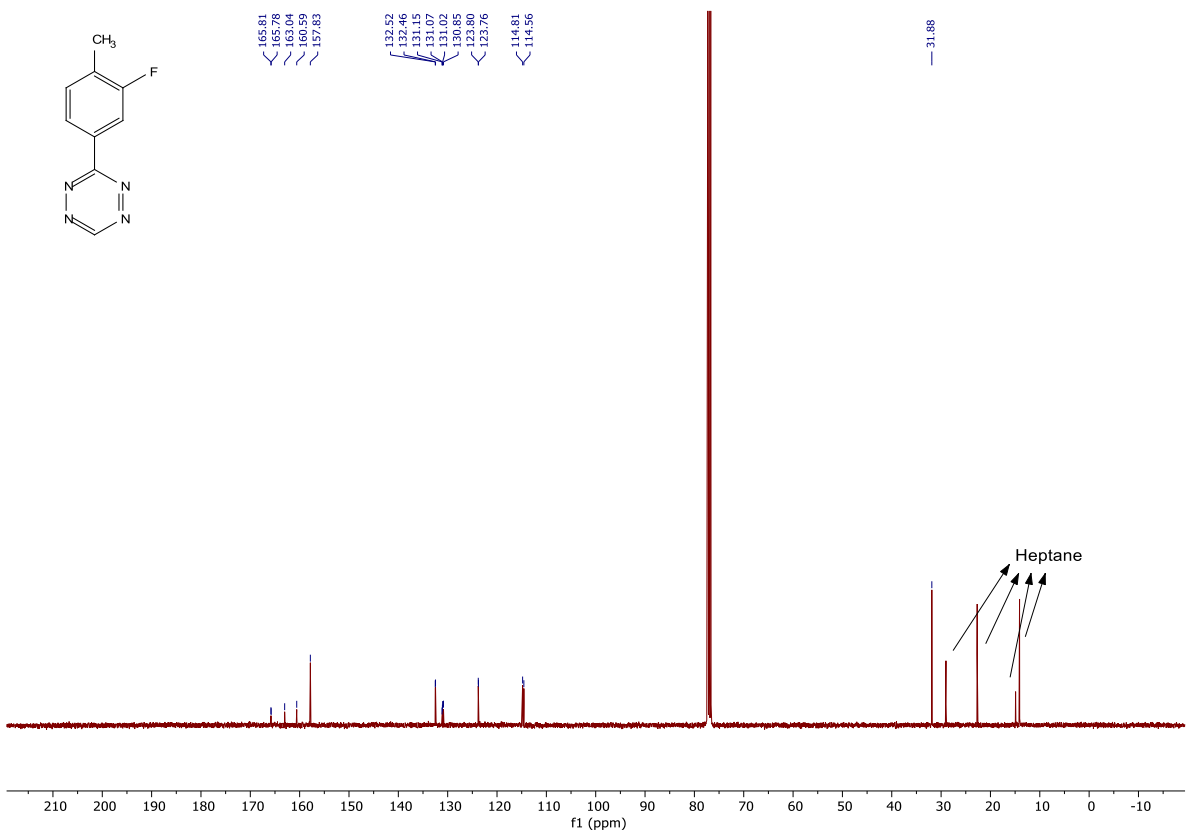
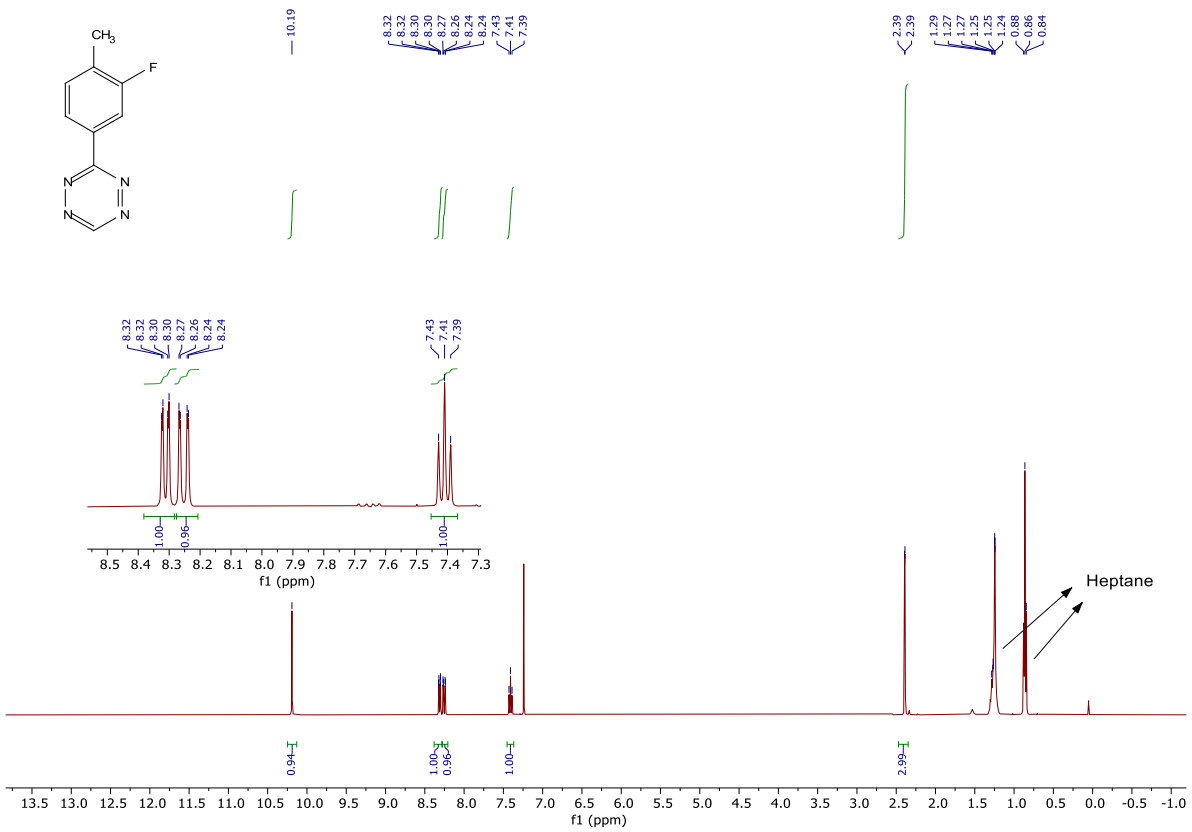


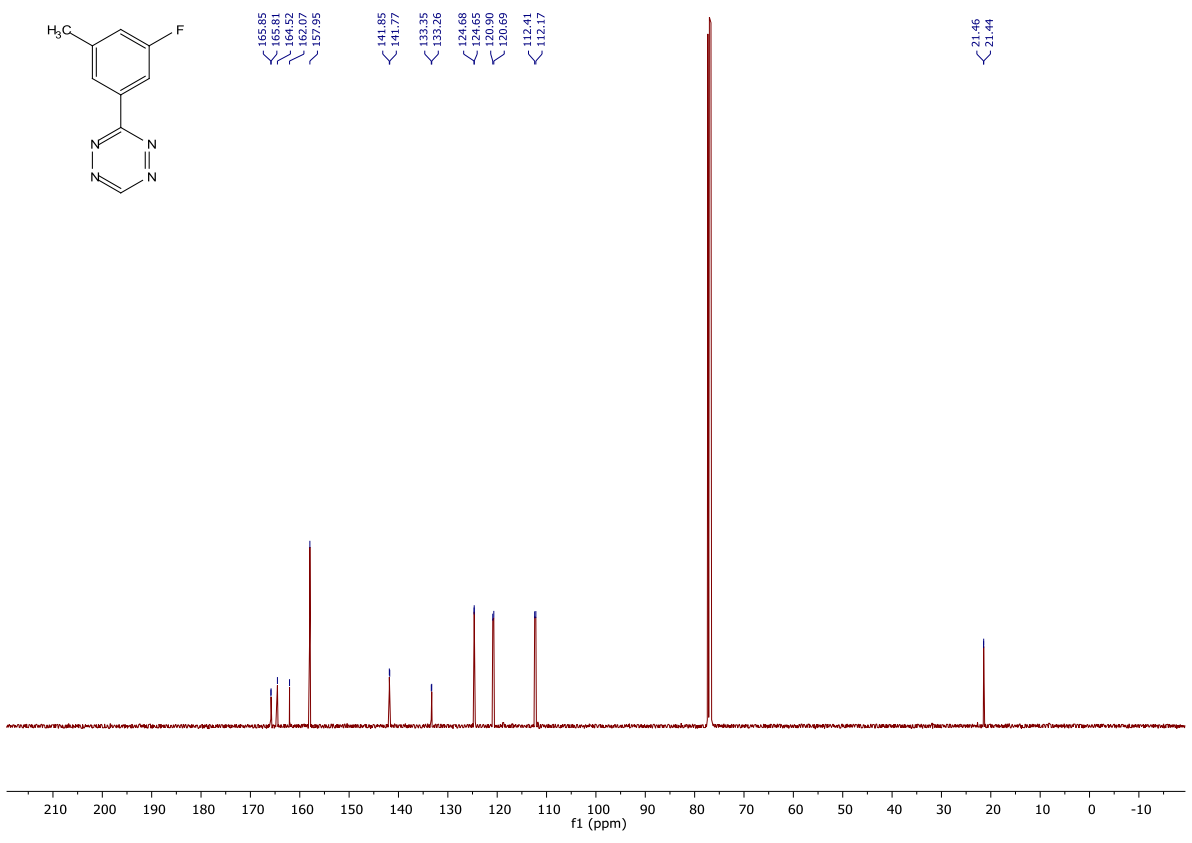
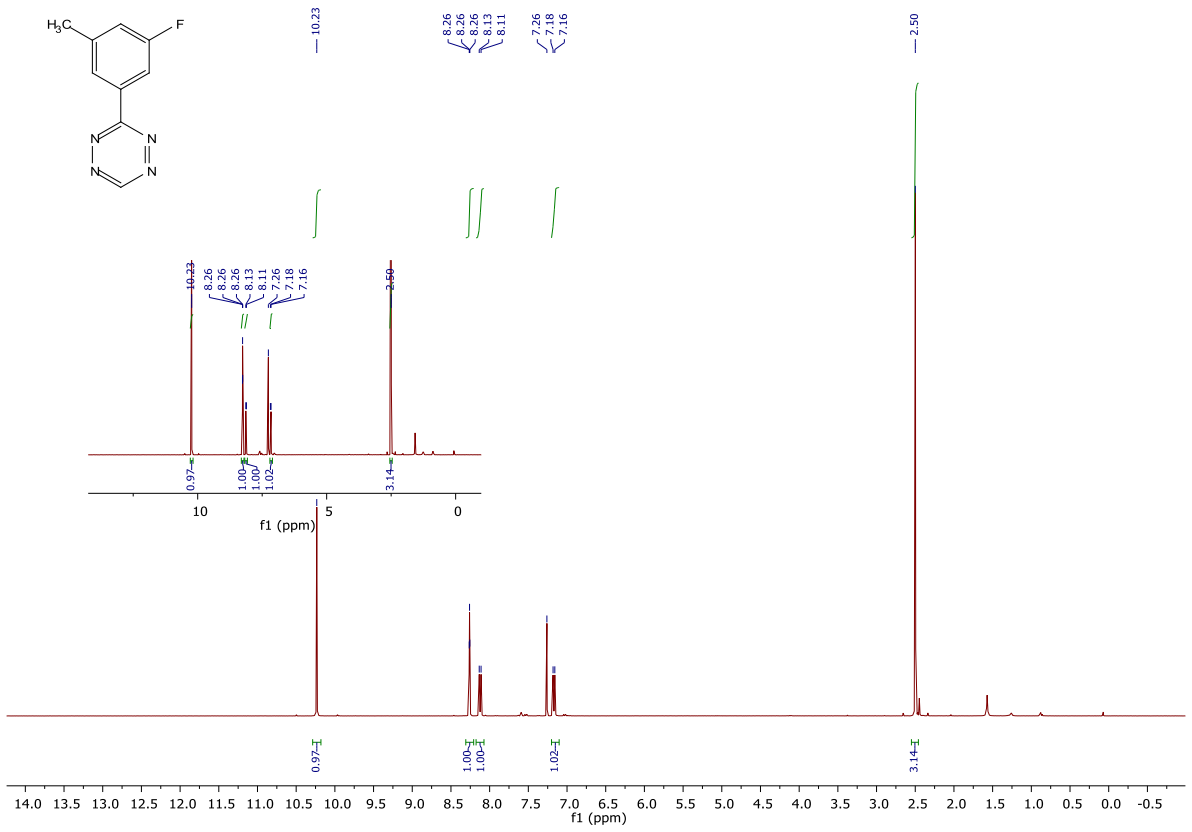
**Table S3:**  $\omega$ B97X-D/def2-TZVPD calculated energies in SMD water.

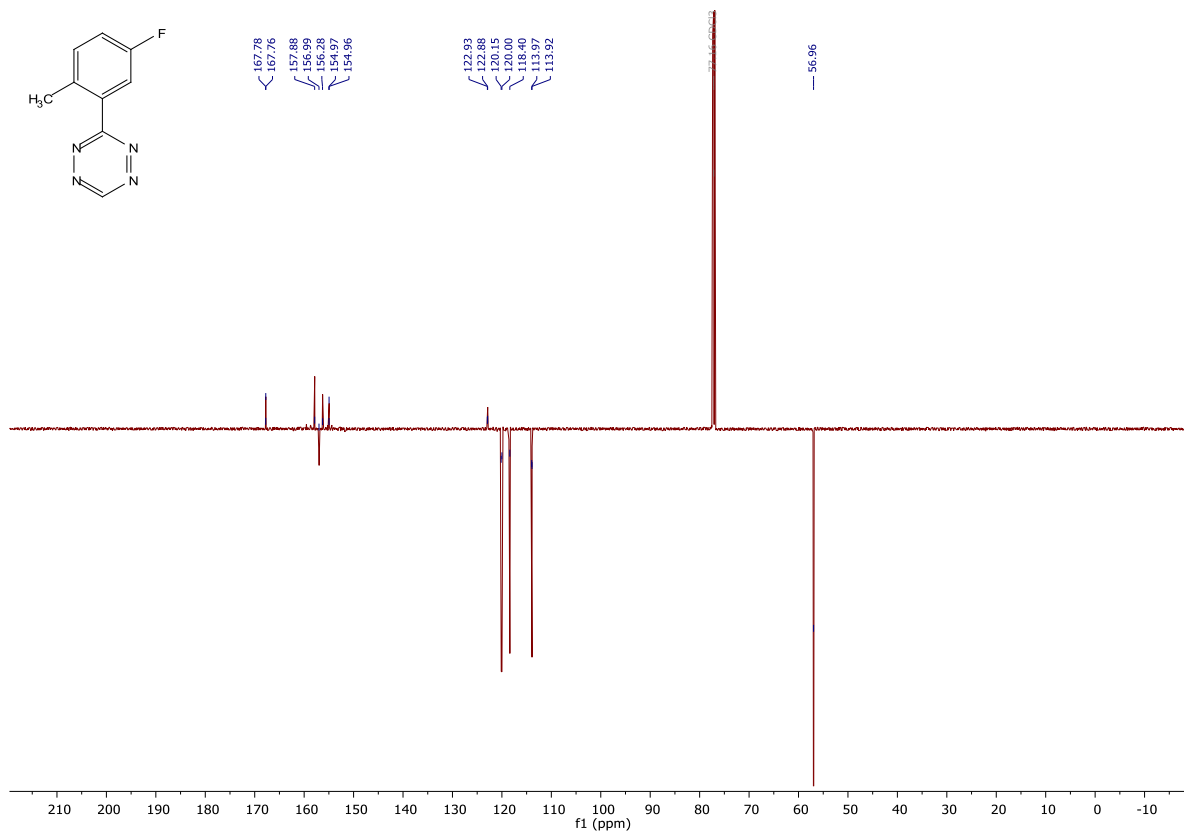
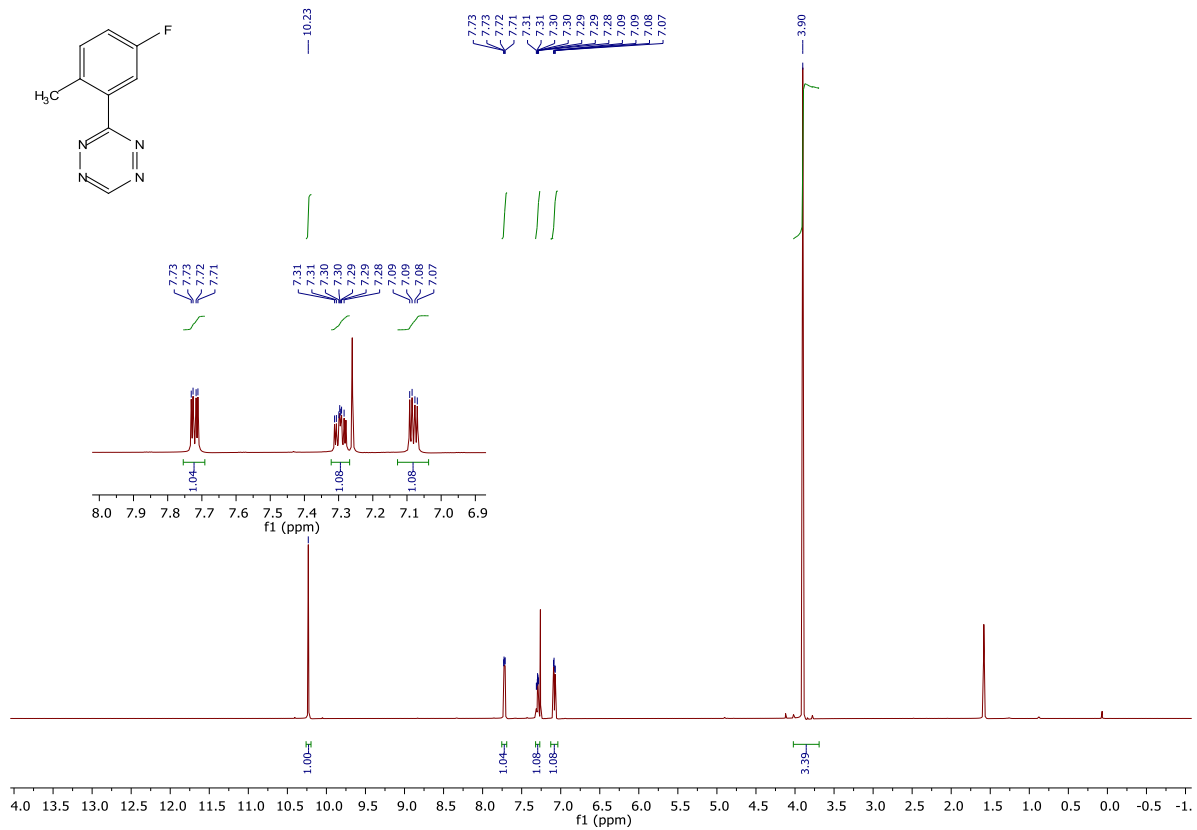
Structure	E / hartree	ZPE / hartree	H / hartree	T*S / hartree	G / hartree
<b>2a</b>	-665.975776	0.15318	-665.810477	0.04897	-665.859446
<b>2b</b>	-665.974655	0.152753	-665.810496	0.047686	-665.858182
<b>2c</b>	-665.971175	0.153338	-665.805881	0.048863	-665.854744
<b>3a</b>	-963.753922	0.129972	-963.610826	0.051726	-963.662551
<b>3b</b>	-963.757087	0.129938	-963.614017	0.051804	-963.665821
<b>4a</b>	-721.335815	0.171655	-721.150934	0.051261	-721.202196
<b>4b</b>	-721.335621	0.171598	-721.150843	0.051407	-721.20225
<b>4c</b>	-721.332377	0.171989	-721.1474	0.051171	-721.198571
<b>5a</b>	-1086.261528	0.115987	-1086.134817	0.046783	-1086.181601
<b>5b</b>	-1086.263915	0.115878	-1086.137321	0.046929	-1086.184251
<b>6a</b>	-3200.266076	0.115377	-3200.13971	0.047978	-3200.187688
<b>6b</b>	-3200.268005	0.115314	-3200.140834	0.049811	-3200.190645
<b>6c</b>	-3200.262682	0.115207	-3200.135569	0.049802	-3200.185371
<b>7a</b>	-923.836362	0.114902	-923.710319	0.048843	-923.759162
<b>7b</b>	-923.837003	0.114967	-923.71004	0.050642	-923.760683
<b>7c</b>	-923.832252	0.114928	-923.705333	0.050529	-923.755862
<b>8a_anion</b>	-701.425911	0.116719	-701.297945	0.047387	-701.345332
<b>8b</b>	-701.896358	0.129902	-701.754985	0.047636	-701.802621
<b>8c</b>	-701.896298	0.130094	-701.755025	0.04711	-701.802135
<b>9a</b>	-741.188886	0.158227	-741.017626	0.051031	-741.068657
<b>9b</b>	-741.191292	0.15814	-741.020202	0.051109	-741.071311
<b>9c</b>	-741.185643	0.158158	-741.014495	0.051148	-741.065644
<b>TCO</b>	-313.264112	0.204539	-313.051096	0.039664	-313.09076
<b>2a_TS</b>	-979.239174	0.360101	-978.859167	0.064289	-978.923457
<b>2b_TS</b>	-979.238594	0.35986	-978.858648	0.064394	-978.923042
<b>2c_TS</b>	-979.233281	0.360818	-978.85293	0.063364	-978.916293
<b>3a_TS</b>	-1277.018864	0.337091	-1276.660022	0.068271	-1276.728293
<b>3b_TS</b>	-1277.021877	0.337176	-1276.662913	0.068141	-1276.731054
<b>4a_TS</b>	-1034.599283	0.378735	-1034.199509	0.066563	-1034.266073
<b>4b_TS</b>	-1034.599403	0.378484	-1034.199828	0.066476	-1034.266304
<b>4c_TS</b>	-1034.595221	0.379238	-1034.195294	0.065809	-1034.261103
<b>5a_TS</b>	-1399.525761	0.323065	-1399.183317	0.063577	-1399.246894
<b>5b_TS</b>	-1399.528502	0.322802	-1399.186273	0.063605	-1399.249878
<b>6a_TS</b>	-3513.530438	0.322525	-3513.188289	0.064624	-3513.252914
<b>6b_TS</b>	-3513.532739	0.322527	-3513.190604	0.064492	-3513.255097
<b>6c_TS</b>	-3513.524356	0.322157	-3513.182541	0.064487	-3513.247028
<b>7a_TS</b>	-1237.100464	0.322057	-1236.758596	0.065474	-1236.82407
<b>7b_TS</b>	-1237.101561	0.321991	-1236.75979	0.065258	-1236.825048
<b>7c_TS</b>	-1237.094083	0.32207	-1236.752286	0.064949	-1236.817235
<b>8a_anion_TS</b>	-1014.685258	0.323712	-1014.342527	0.062597	-1014.405124
<b>8b_TS</b>	-1015.160321	0.336688	-1014.804314	0.062894	-1014.867208
<b>8c_TS</b>	-1015.16067	0.337224	-1014.804535	0.062223	-1014.866758
<b>9a_TS</b>	-1054.451683	0.365507	-1054.065478	0.065939	-1054.131417
<b>9b_TS</b>	-1054.455296	0.365309	-1054.069289	0.065863	-1054.135152
<b>9c_TS</b>	-1054.449109	0.365072	-1054.063247	0.065942	-1054.129189

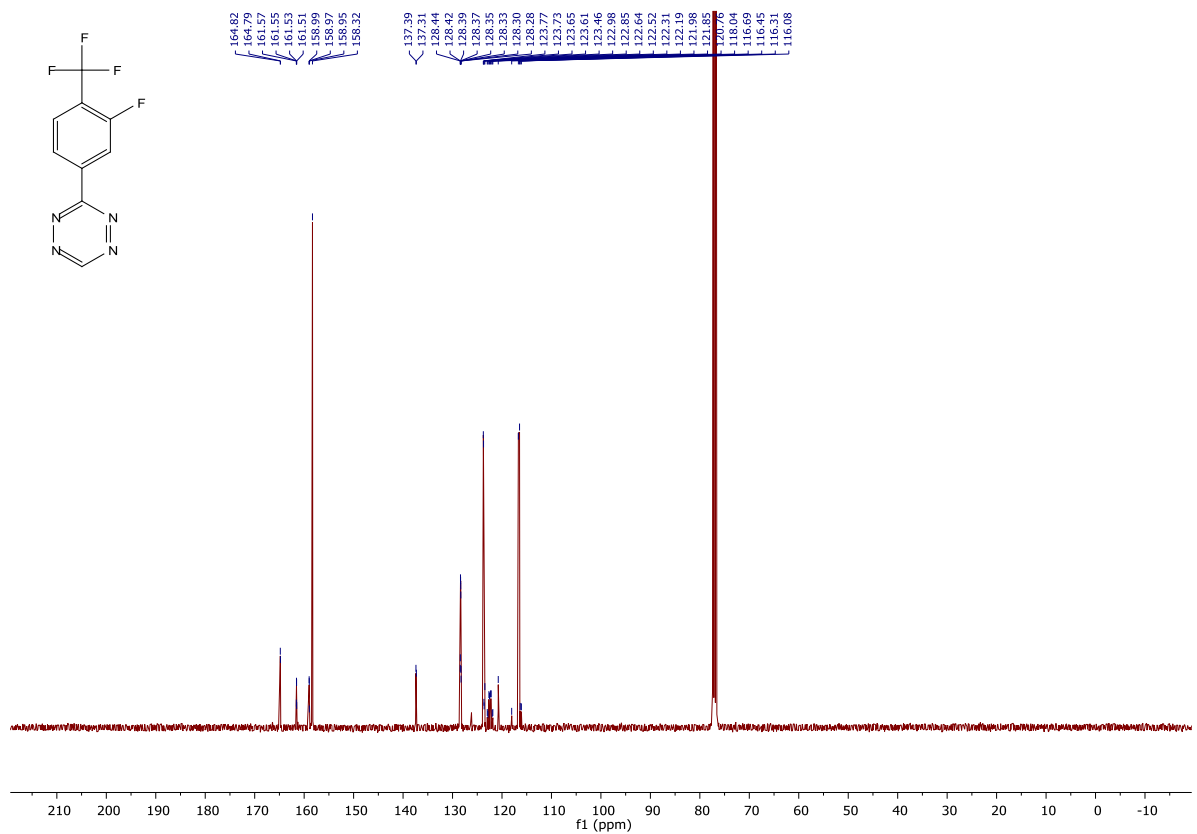
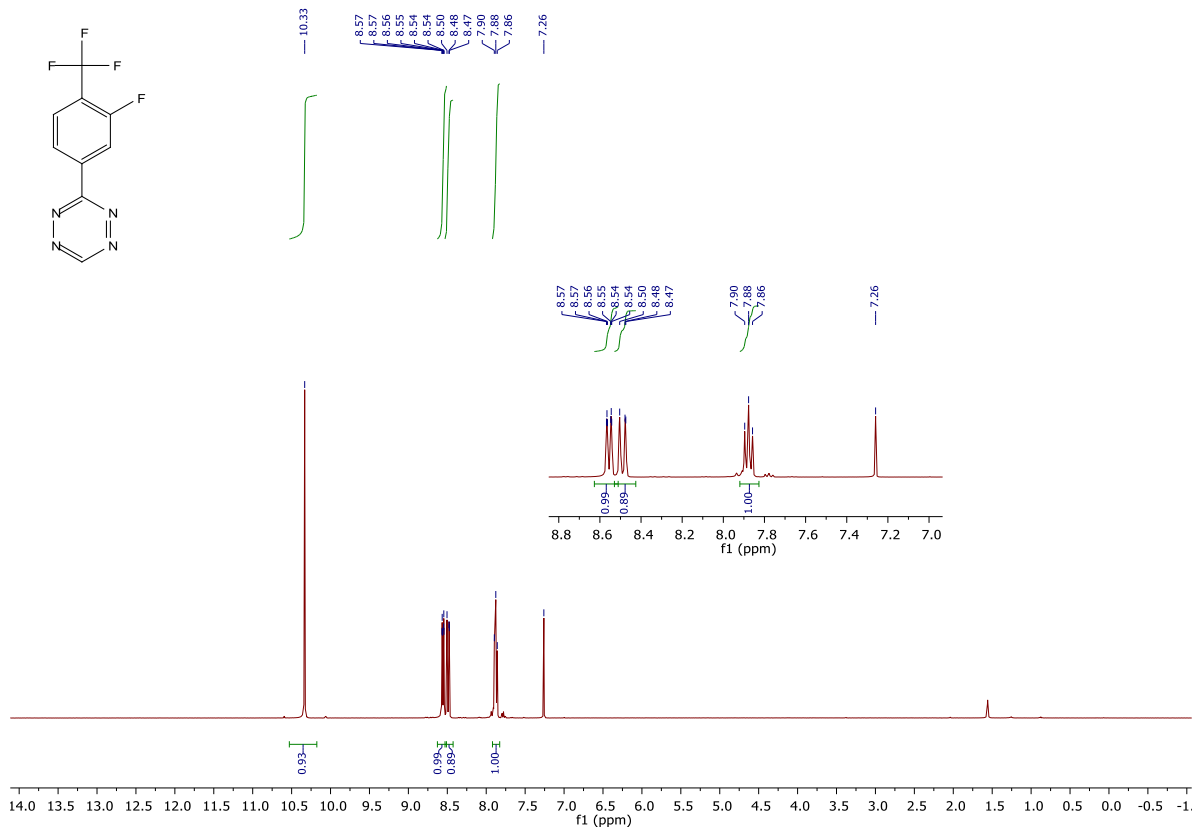
**Table S4:**  $\omega$ B97X-D/def2-TZVPD calculated barrier heights in kcal/mol.

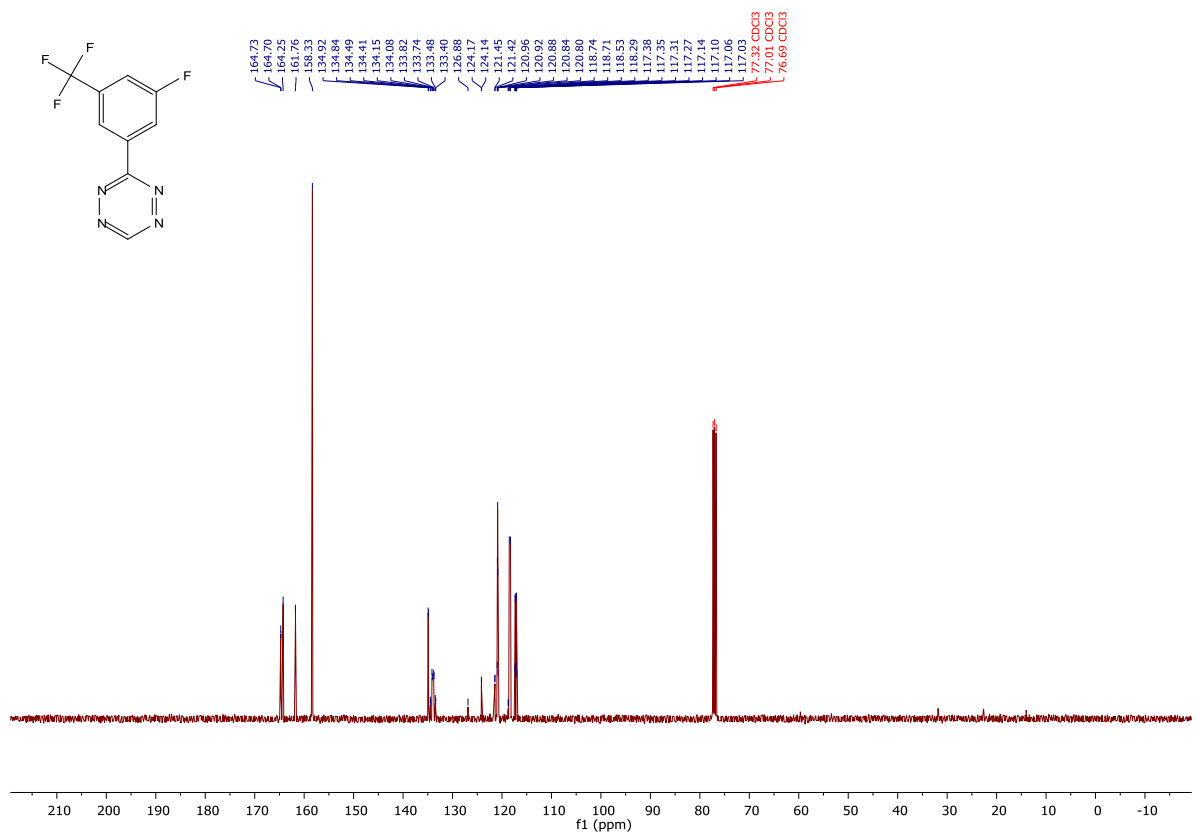
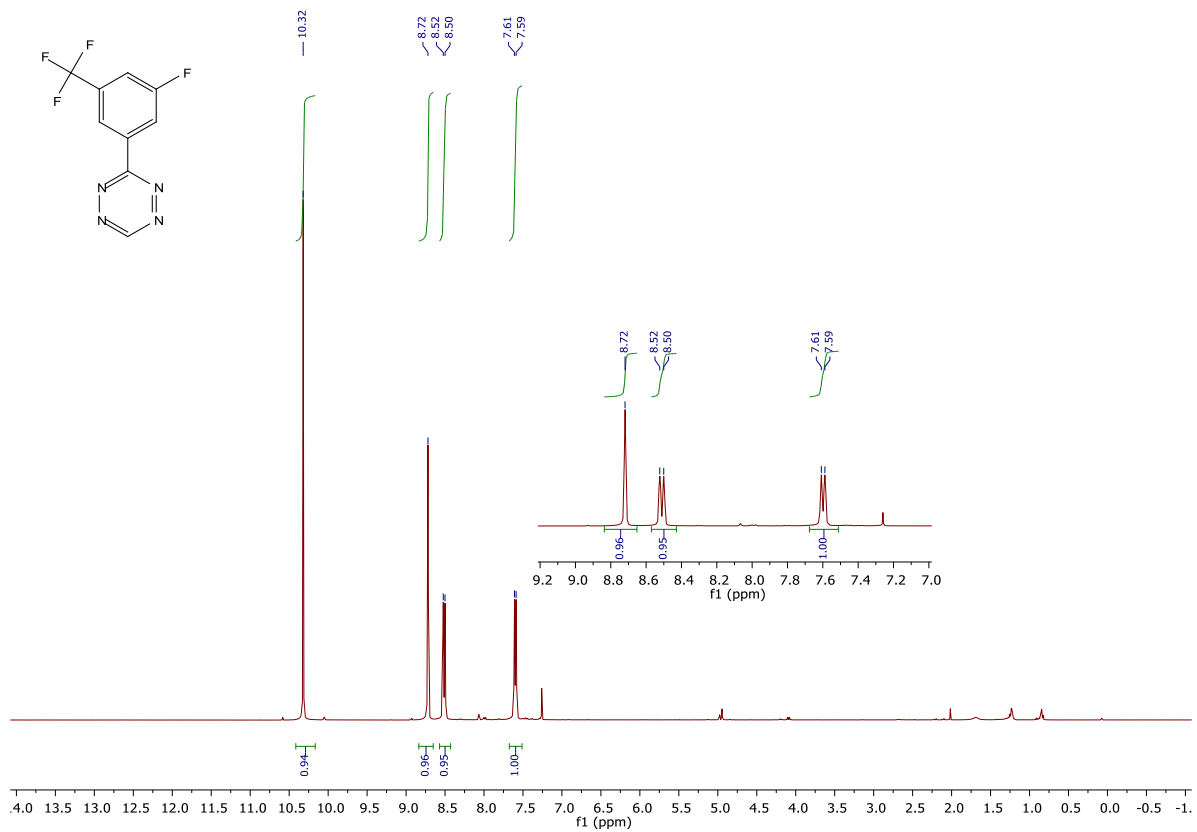
	gas phase	water
<b>2a</b>	20.4	16.8
<b>2b</b>	20.1	16.3
<b>2c</b>	19.9	18.3
<b>3a</b>	19.5	15.7
<b>3b</b>	19.8	16
<b>4a</b>	20.3	16.9
<b>4b</b>	20.2	16.8
<b>5a</b>	20.2	16
<b>5b</b>	19.9	15.8
<b>5c</b>	19.4	17.7
<b>6a</b>	20.1	16
<b>6b</b>	19.9	16.5
<b>6c</b>	19.3	18.3
<b>7a</b>	20	16.2
<b>7b</b>	20	16.6
<b>7c</b>	19.3	18.4
<b>8a</b>	20.8	19.4
<b>8b</b>	20	16.4
<b>8c</b>	19.8	16.4
<b>9a</b>	21.1	17.6
<b>9b</b>	20.3	16.9
<b>9c</b>	19.3	17.1

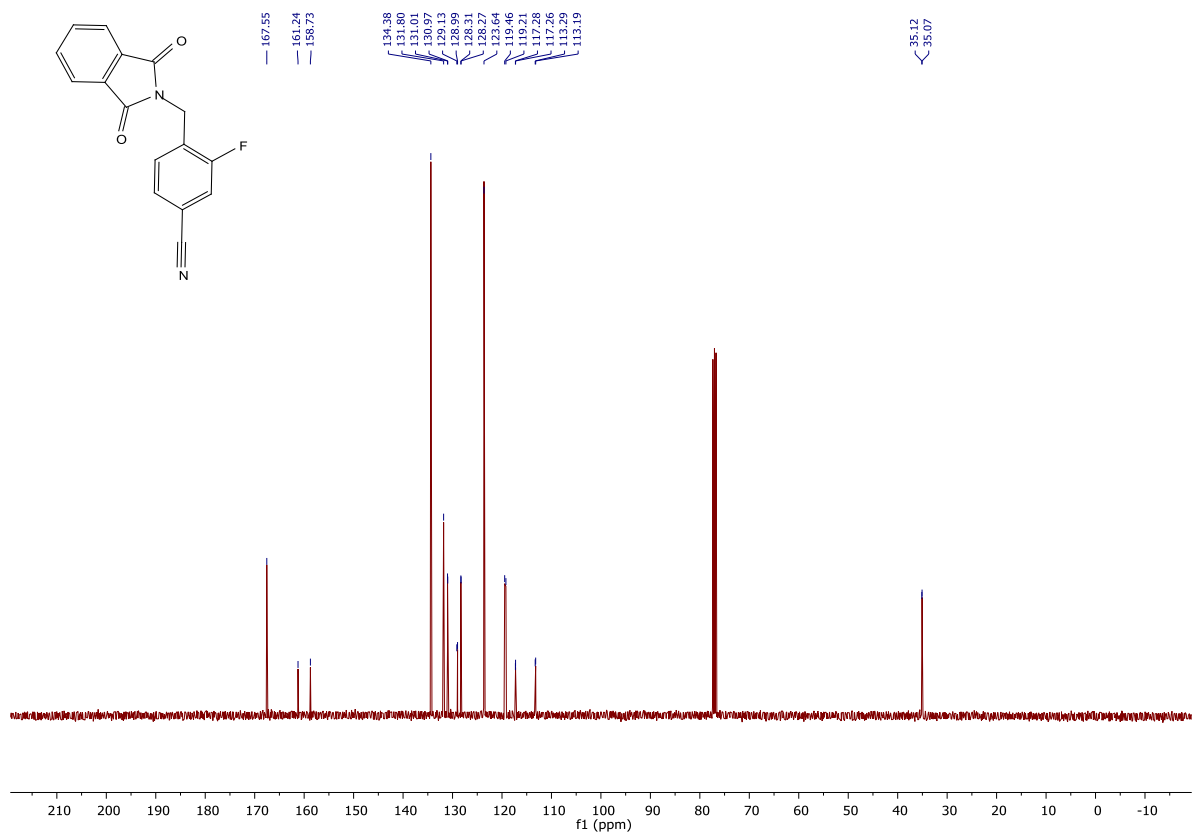
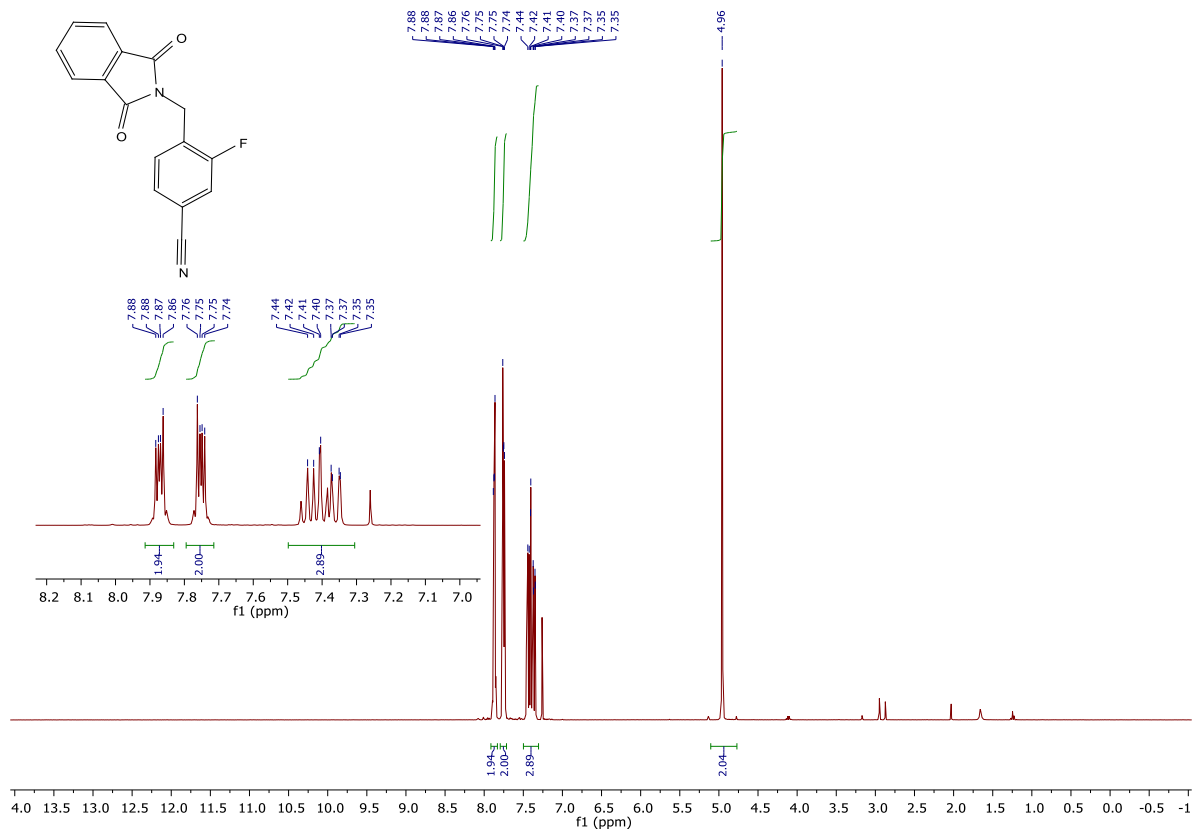




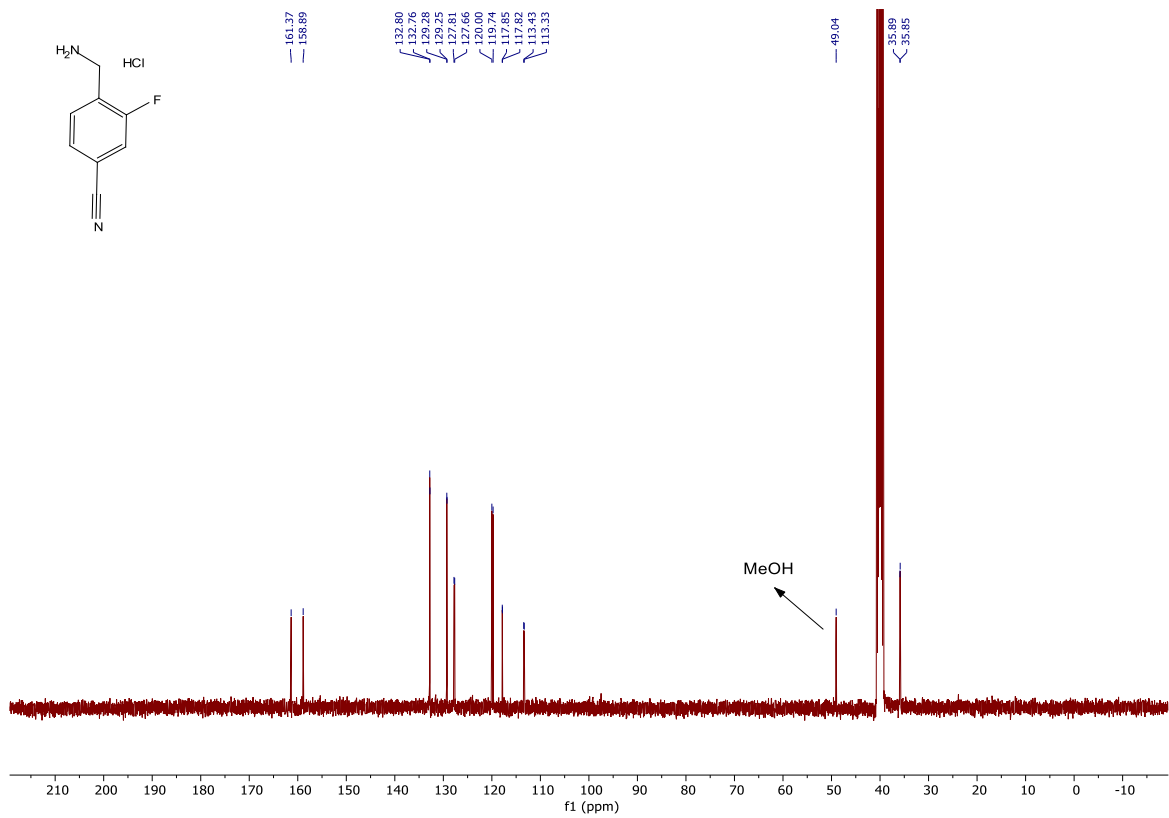
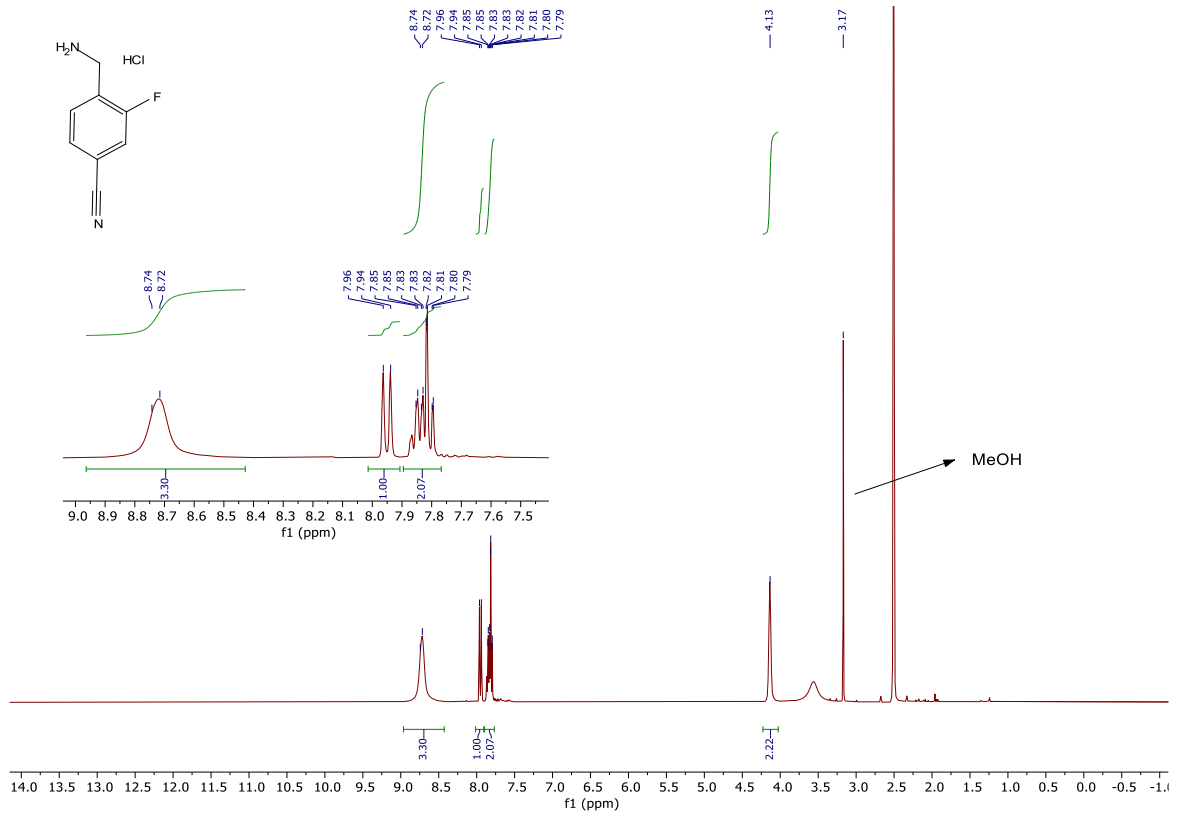


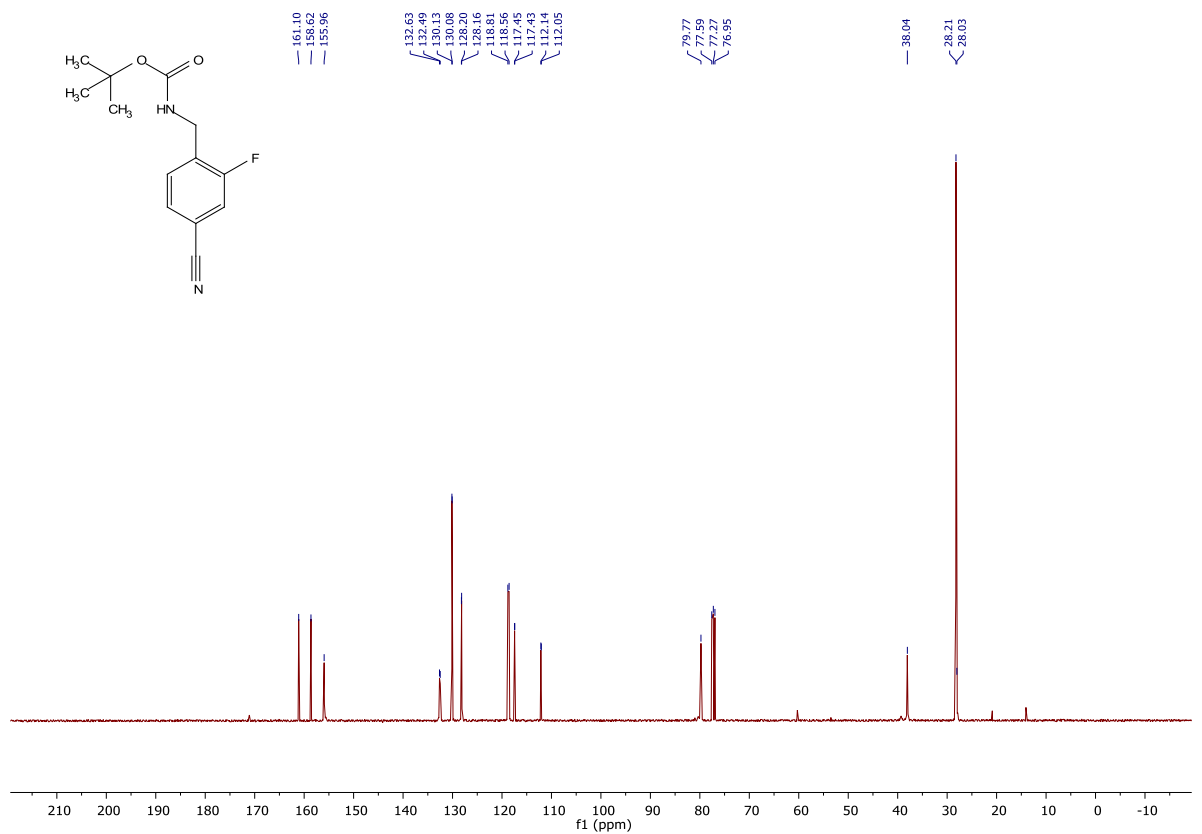
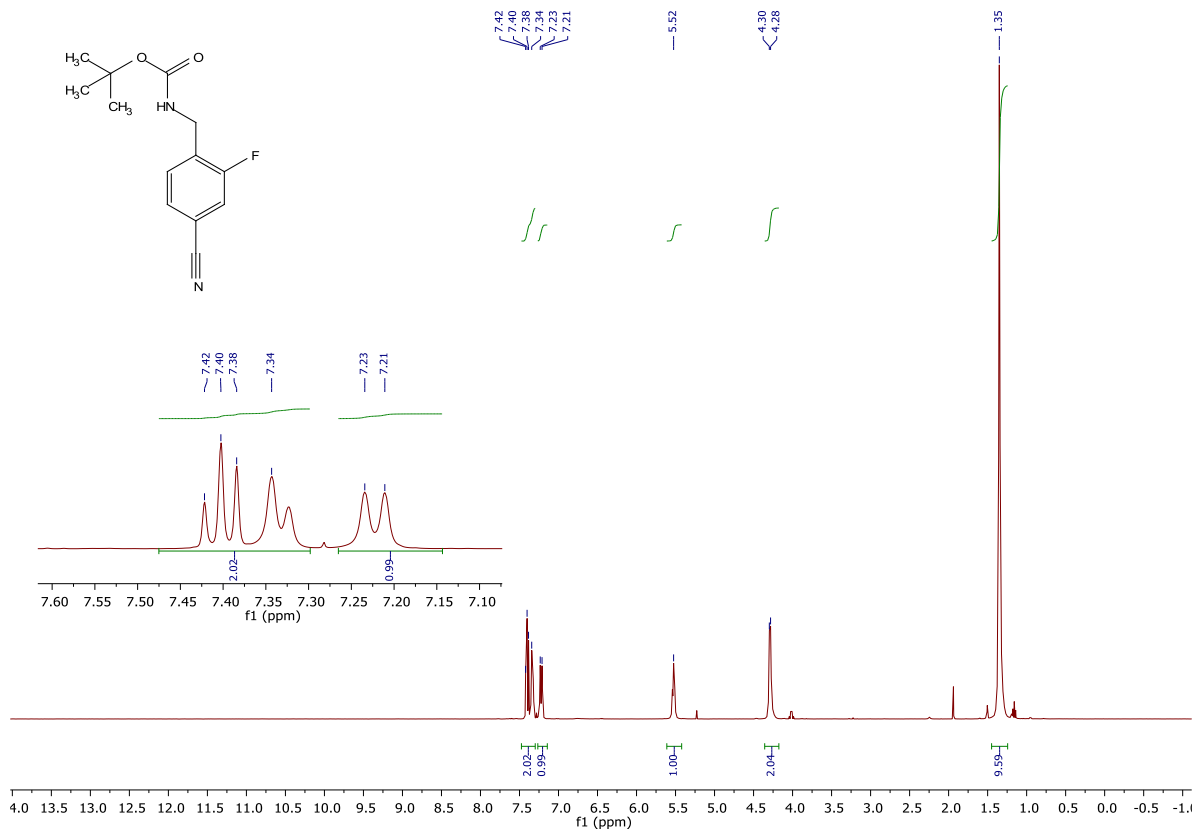


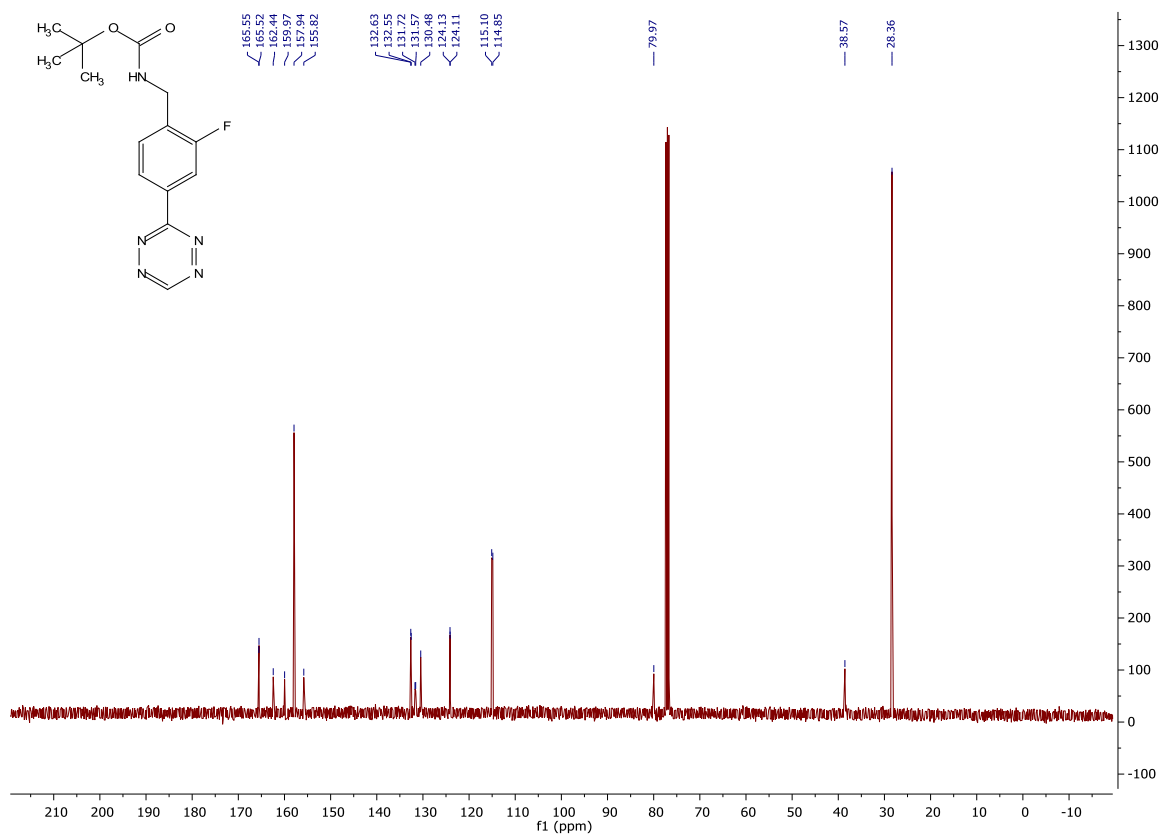
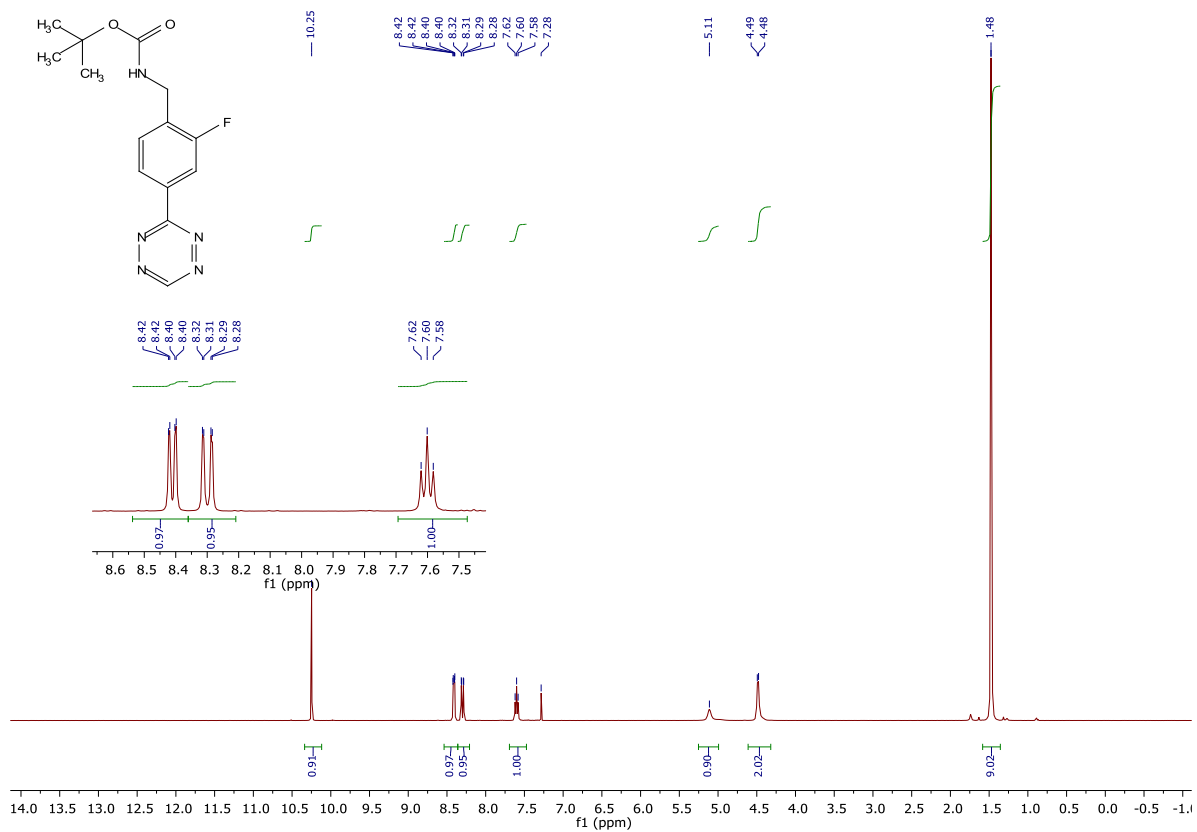


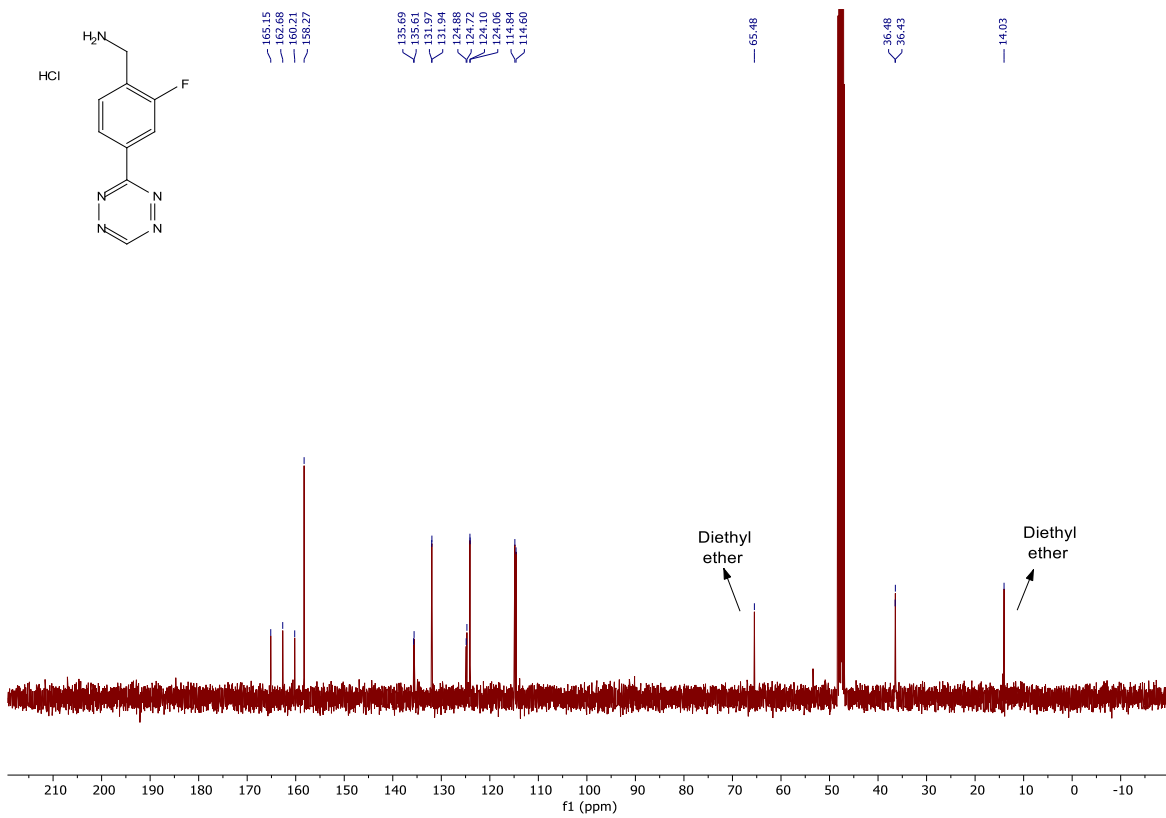
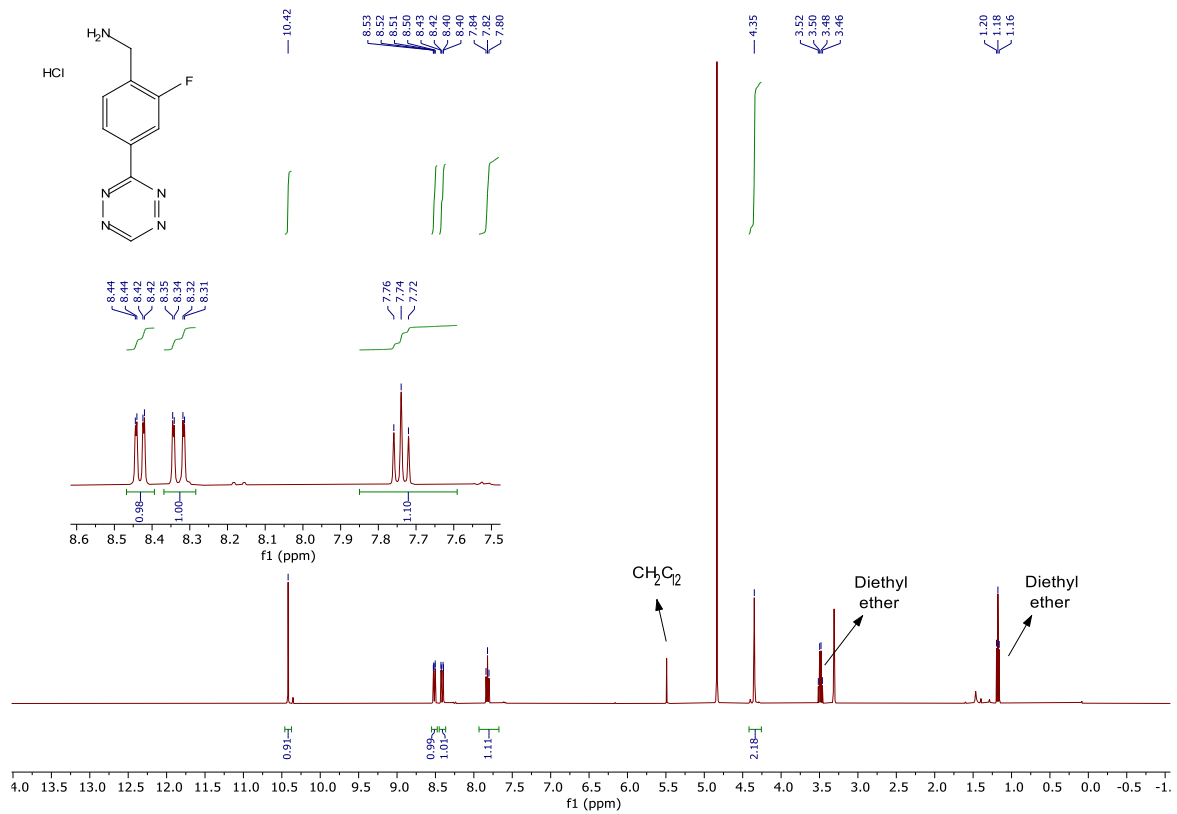


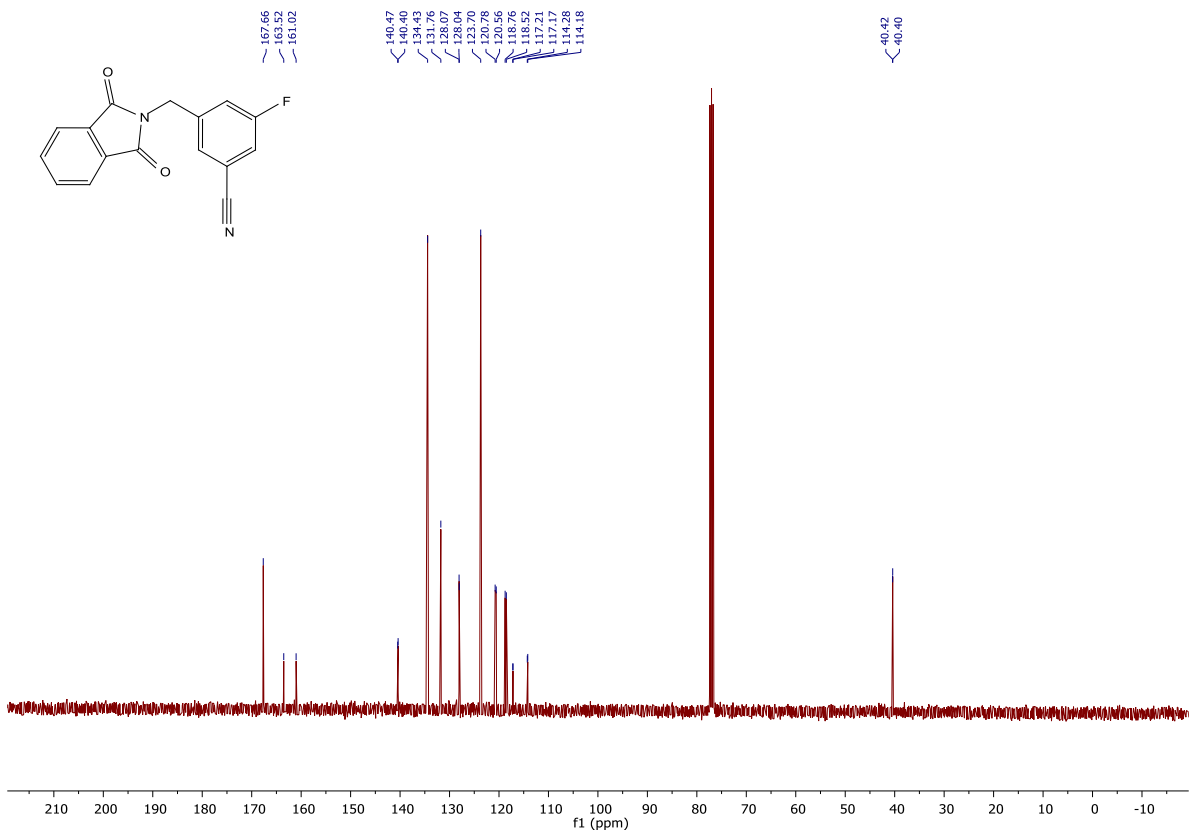
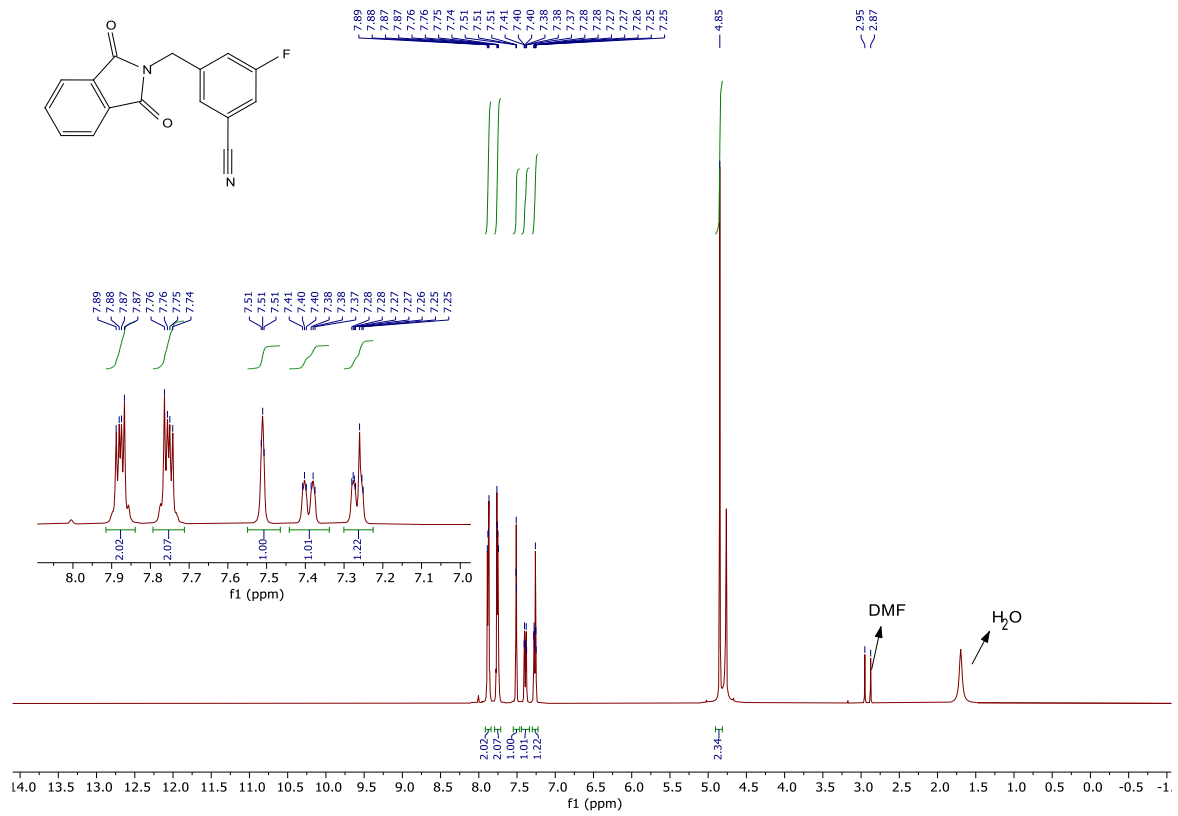


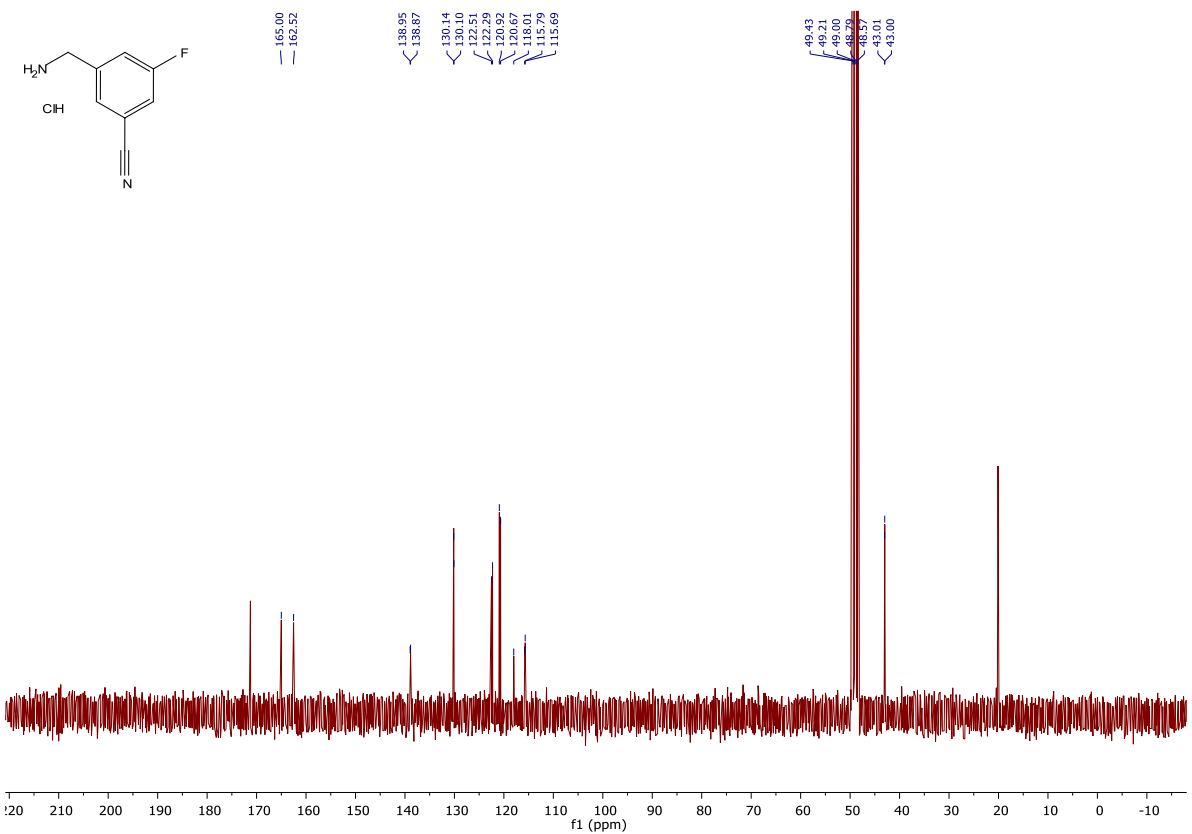
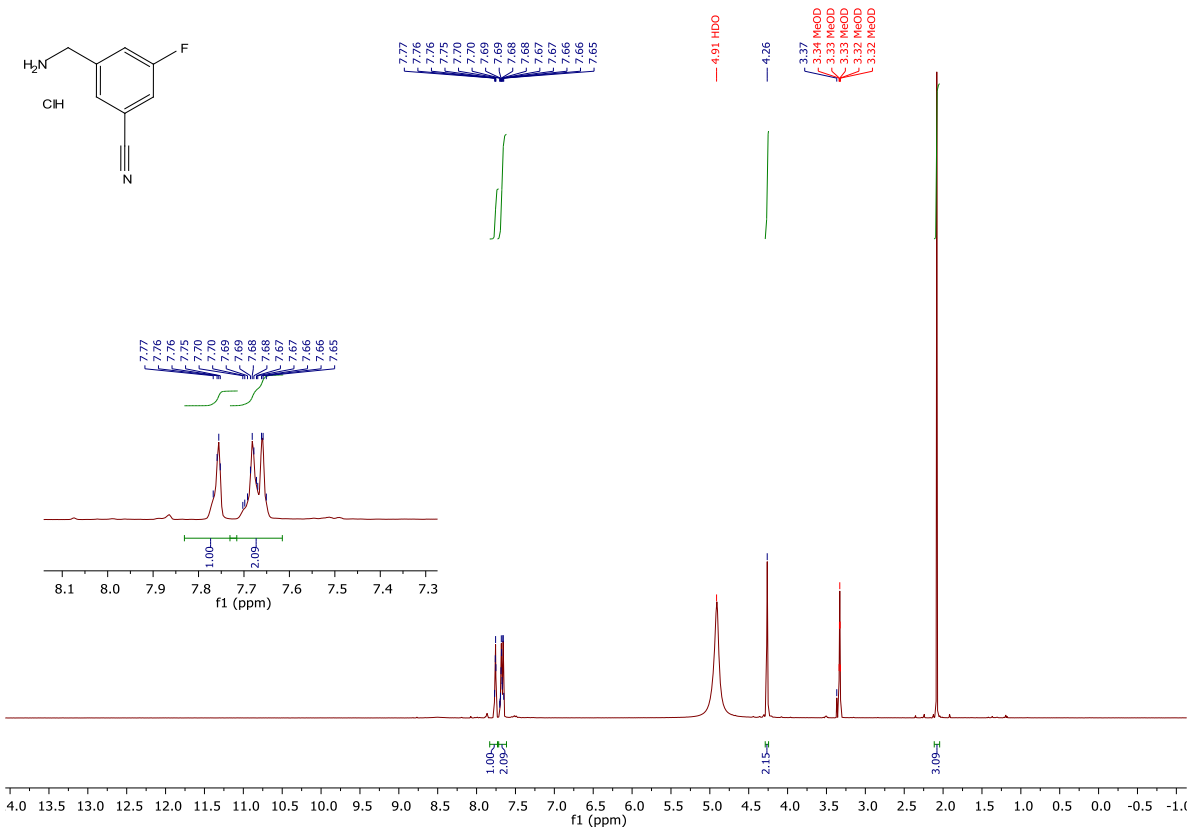


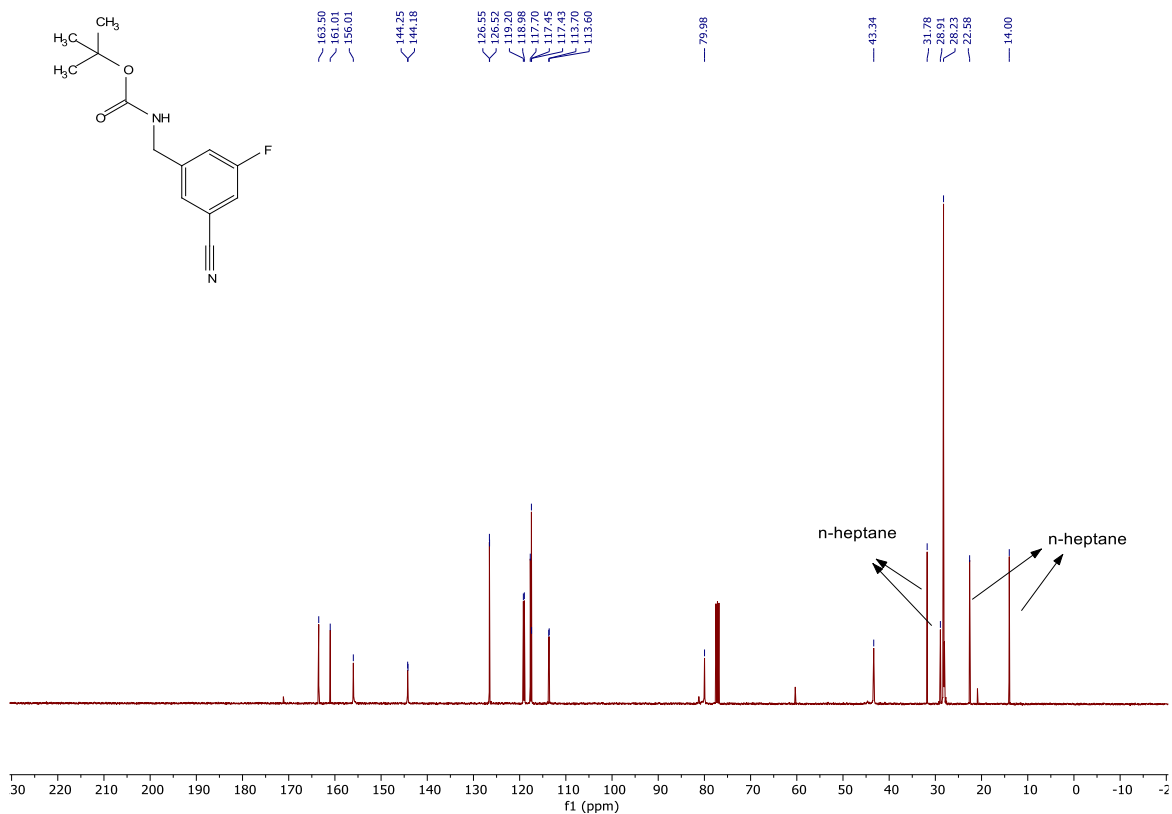
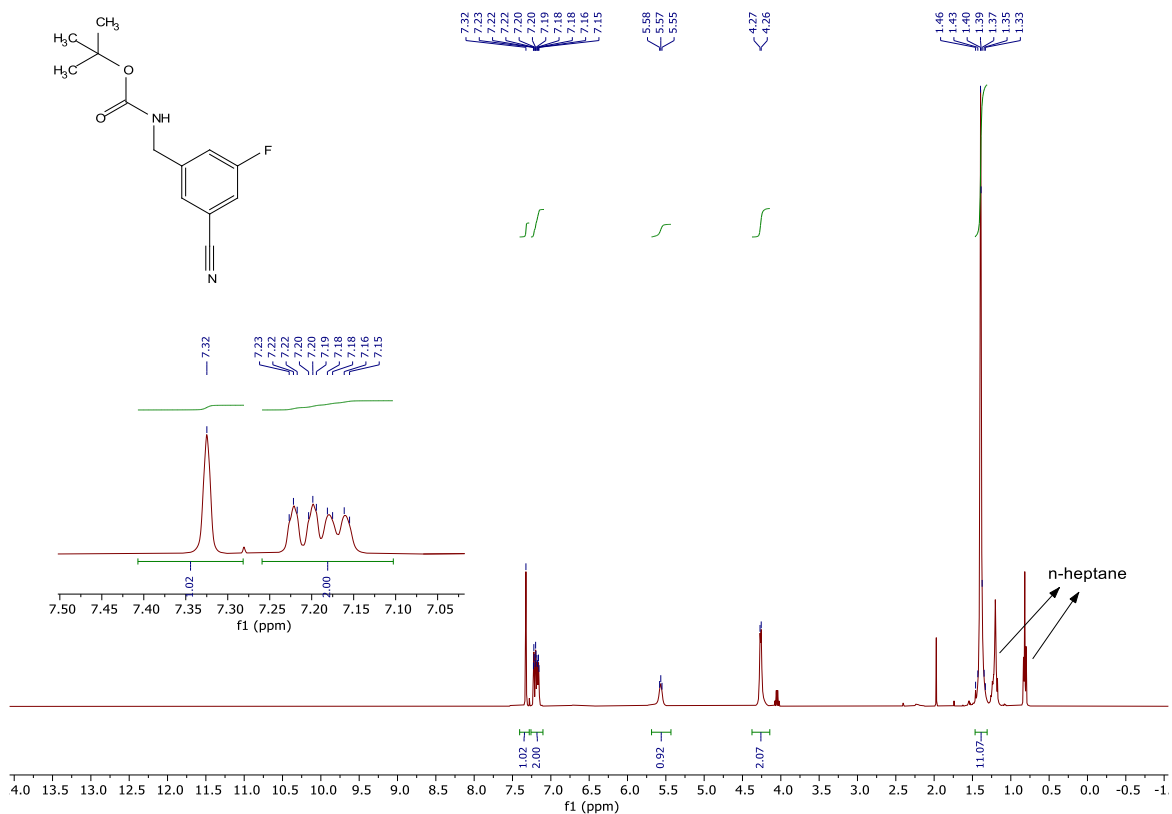


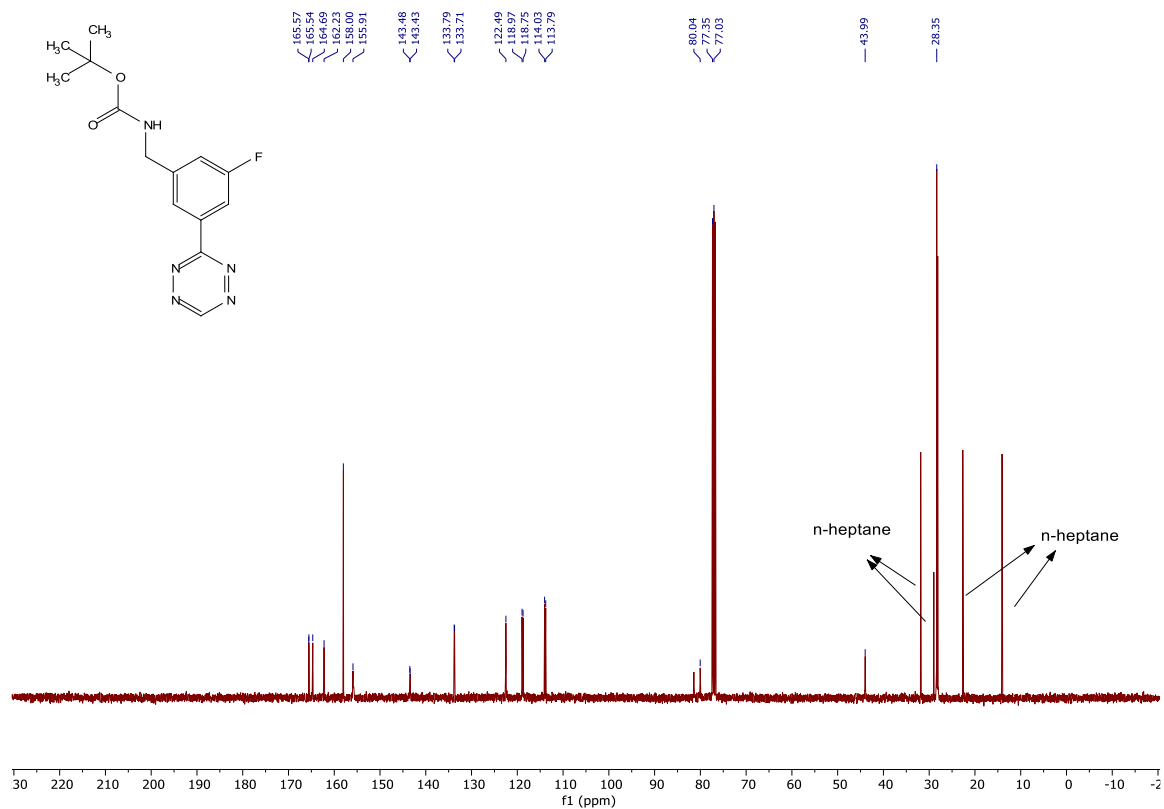
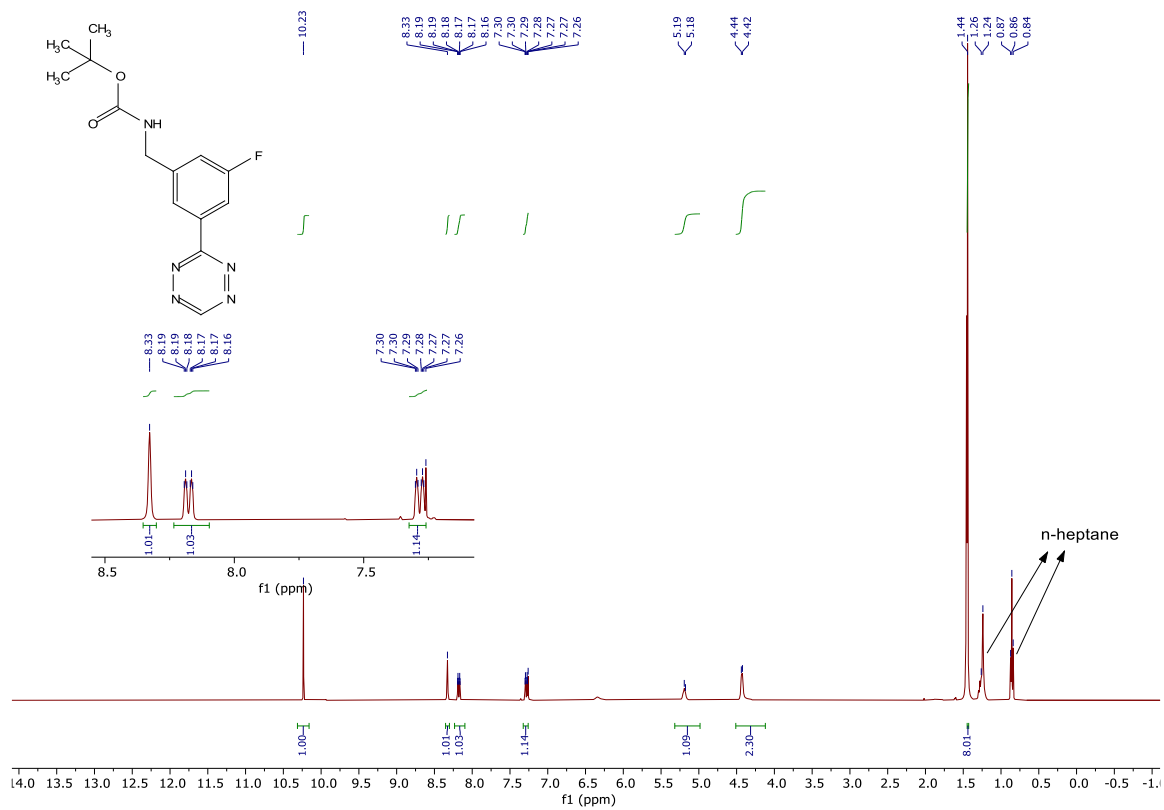




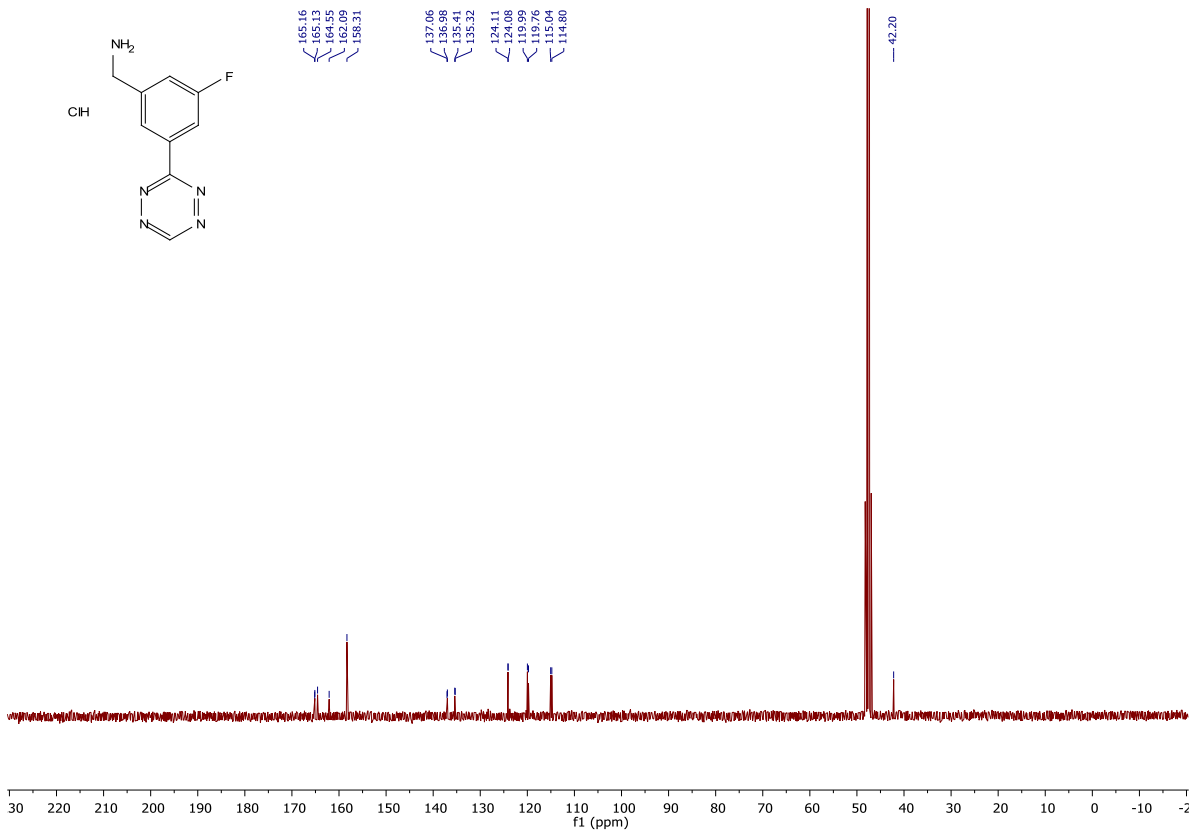
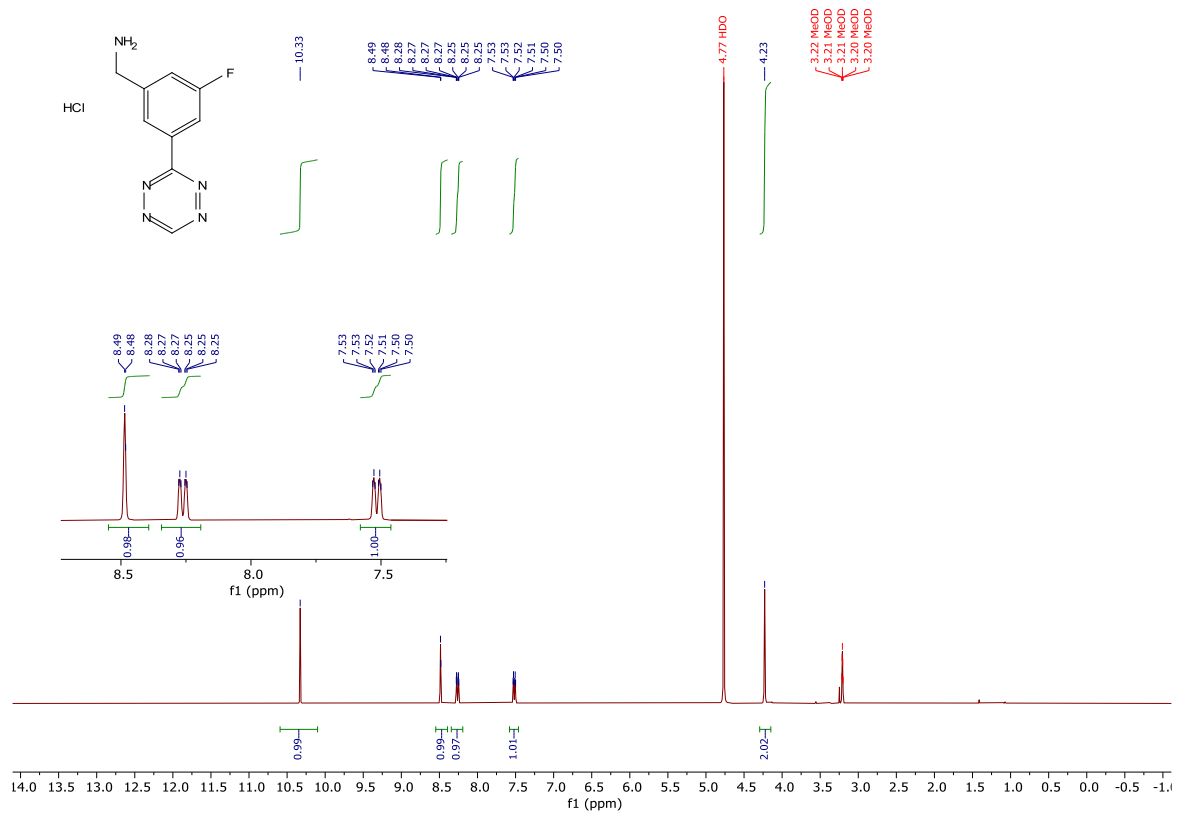


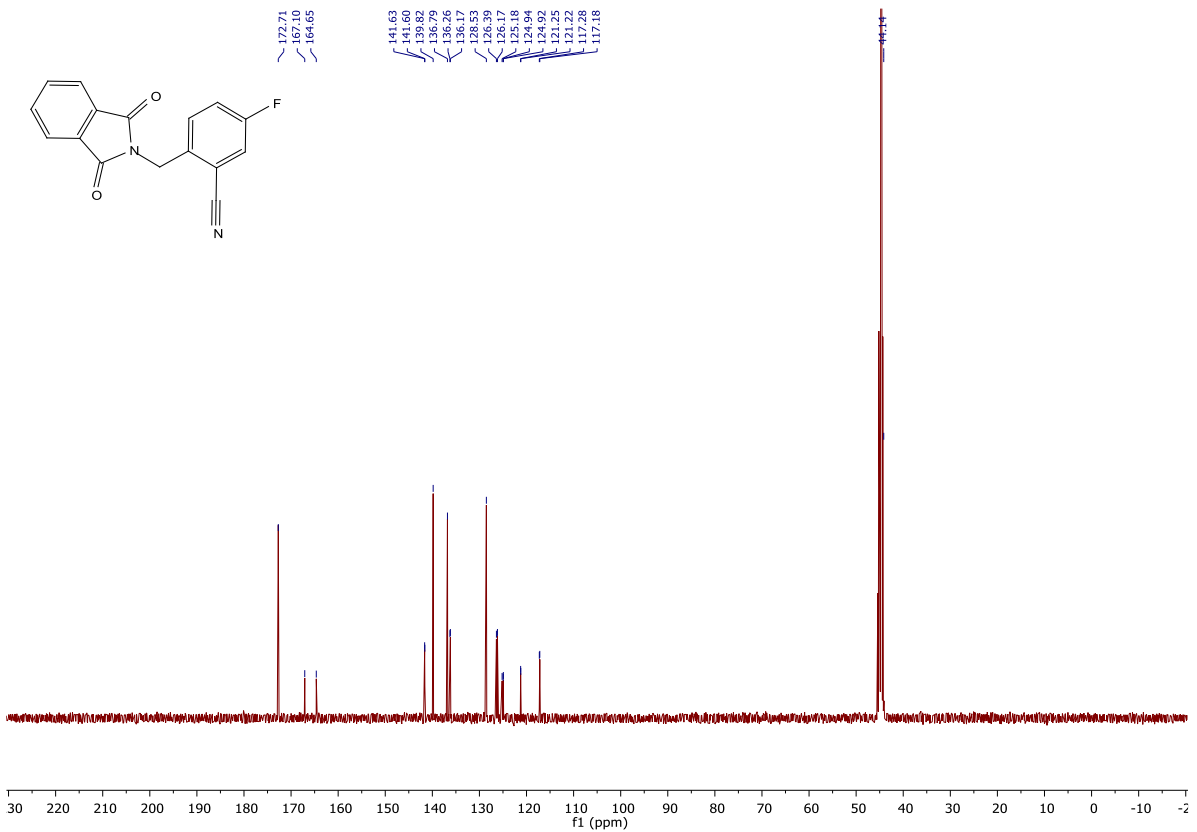
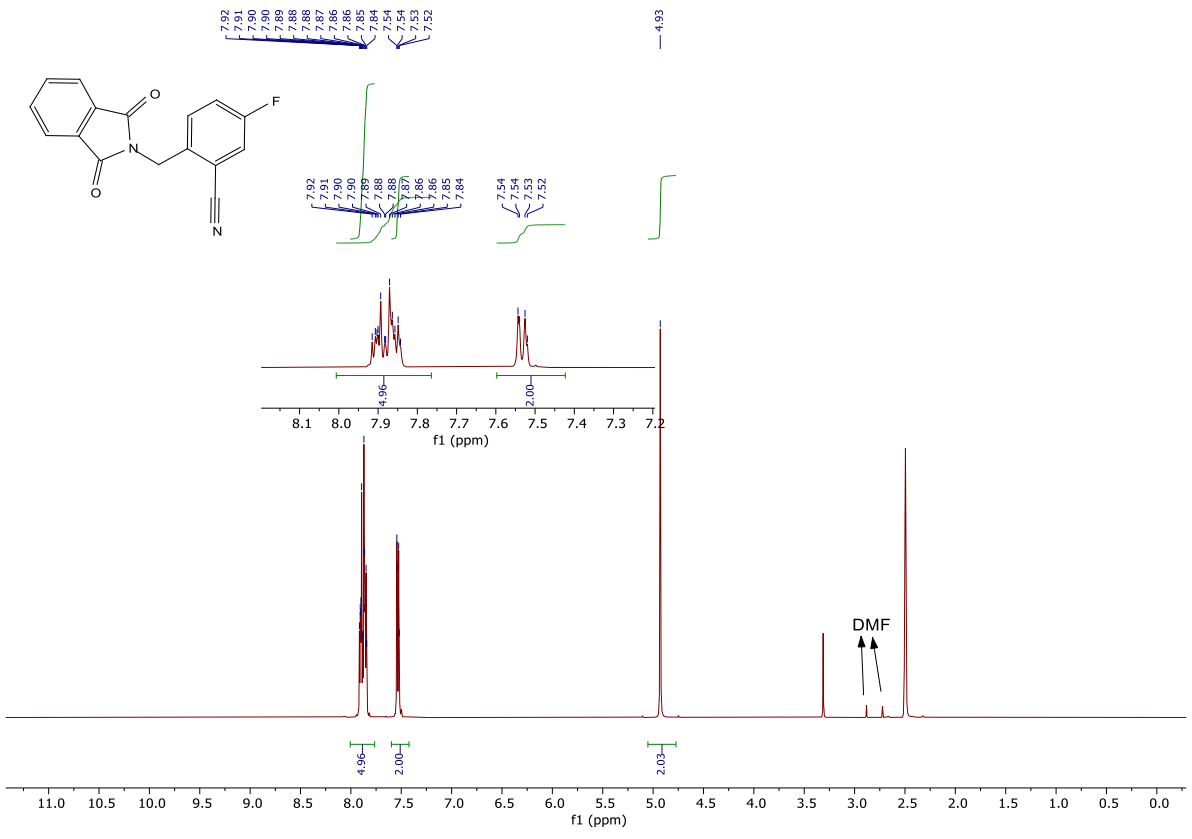


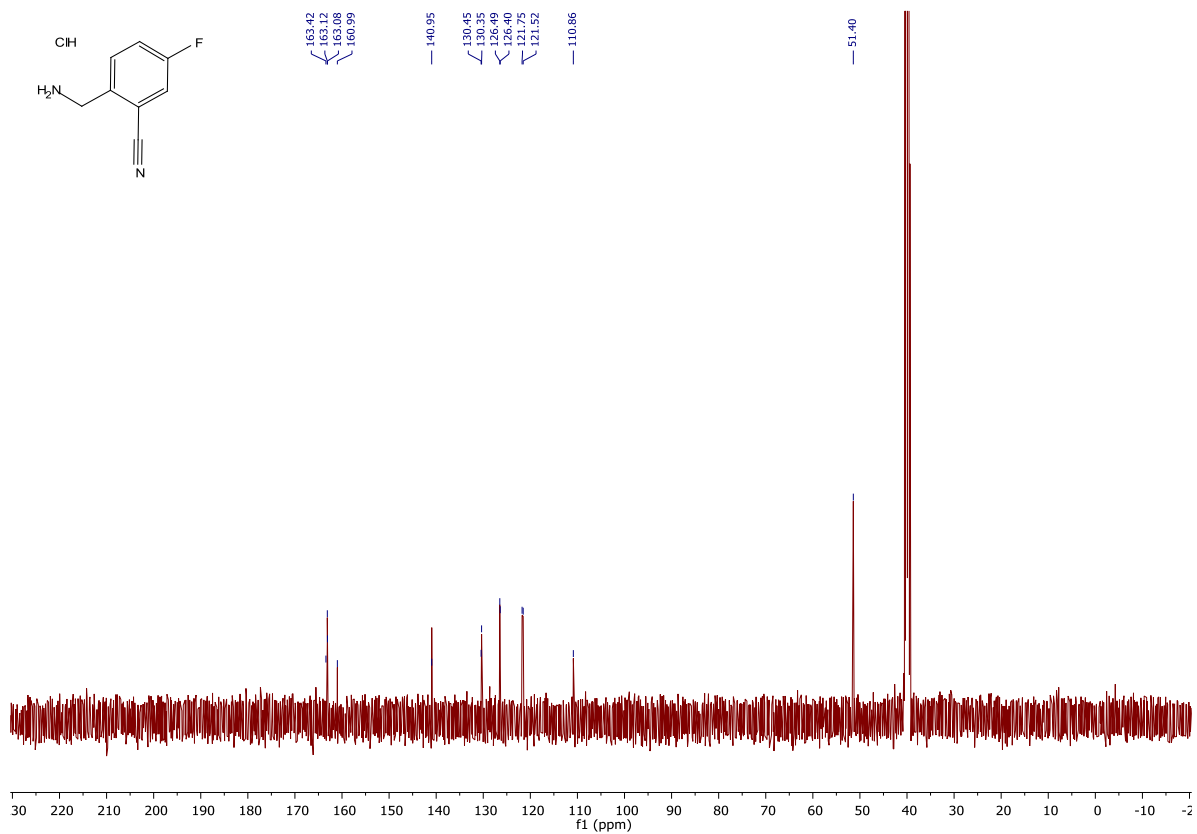
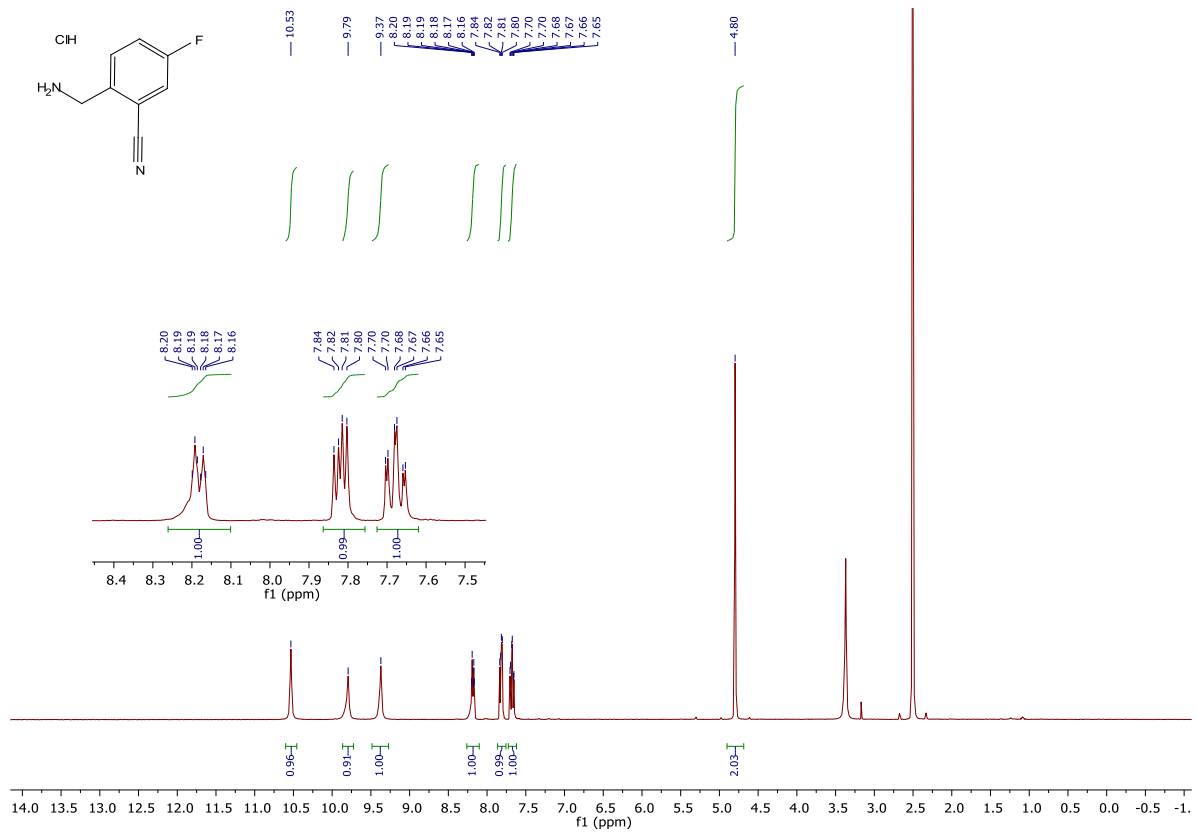


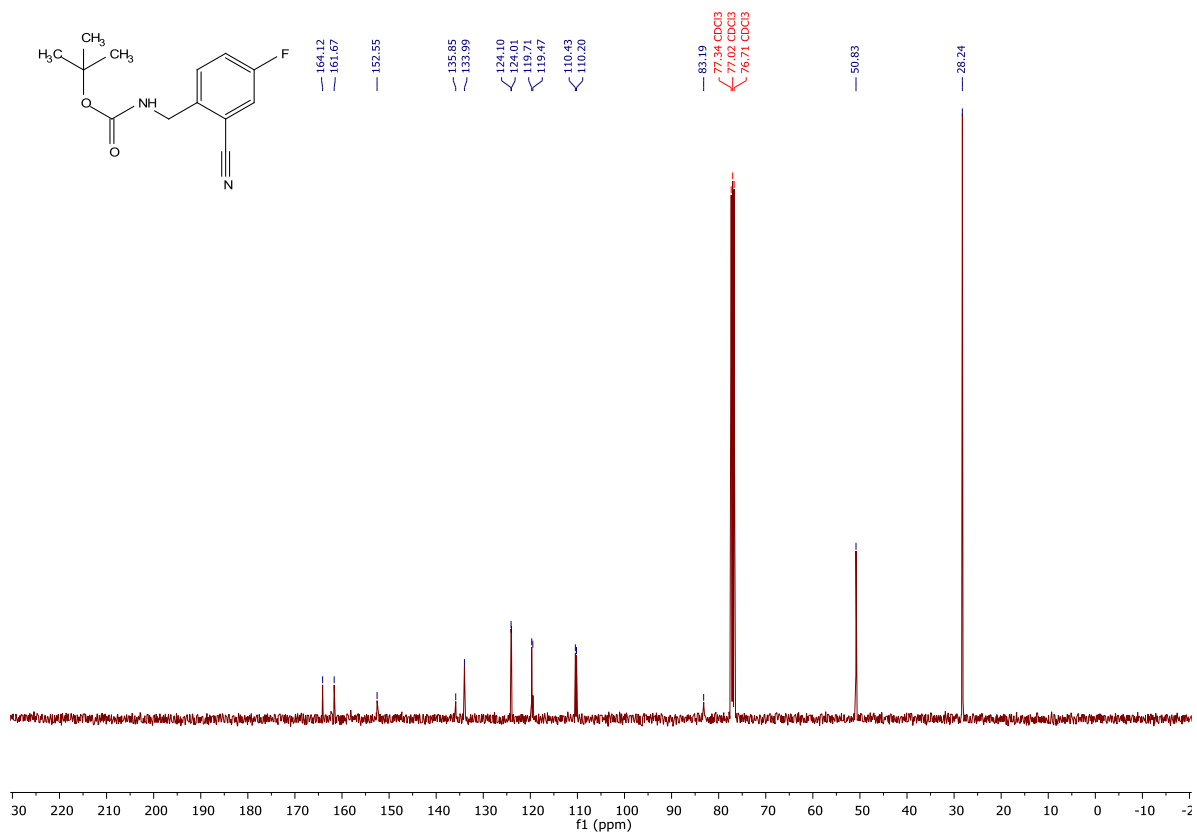
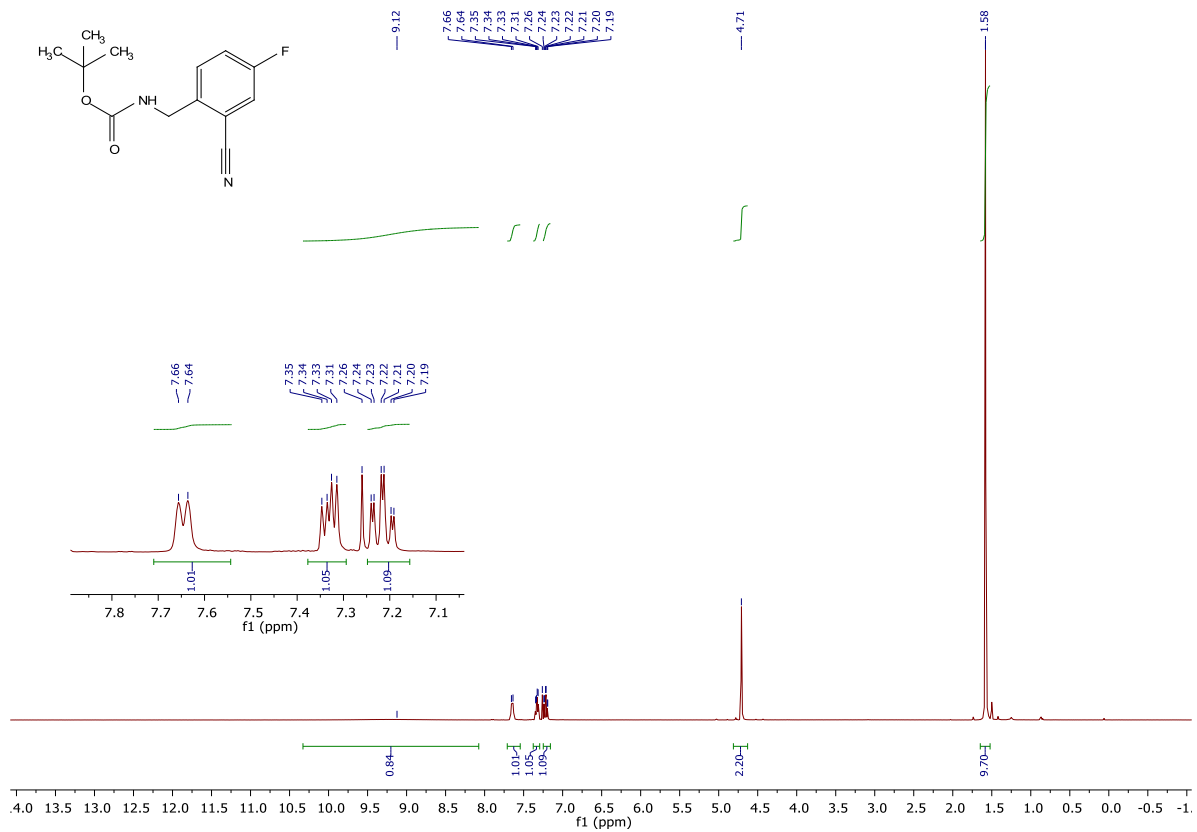


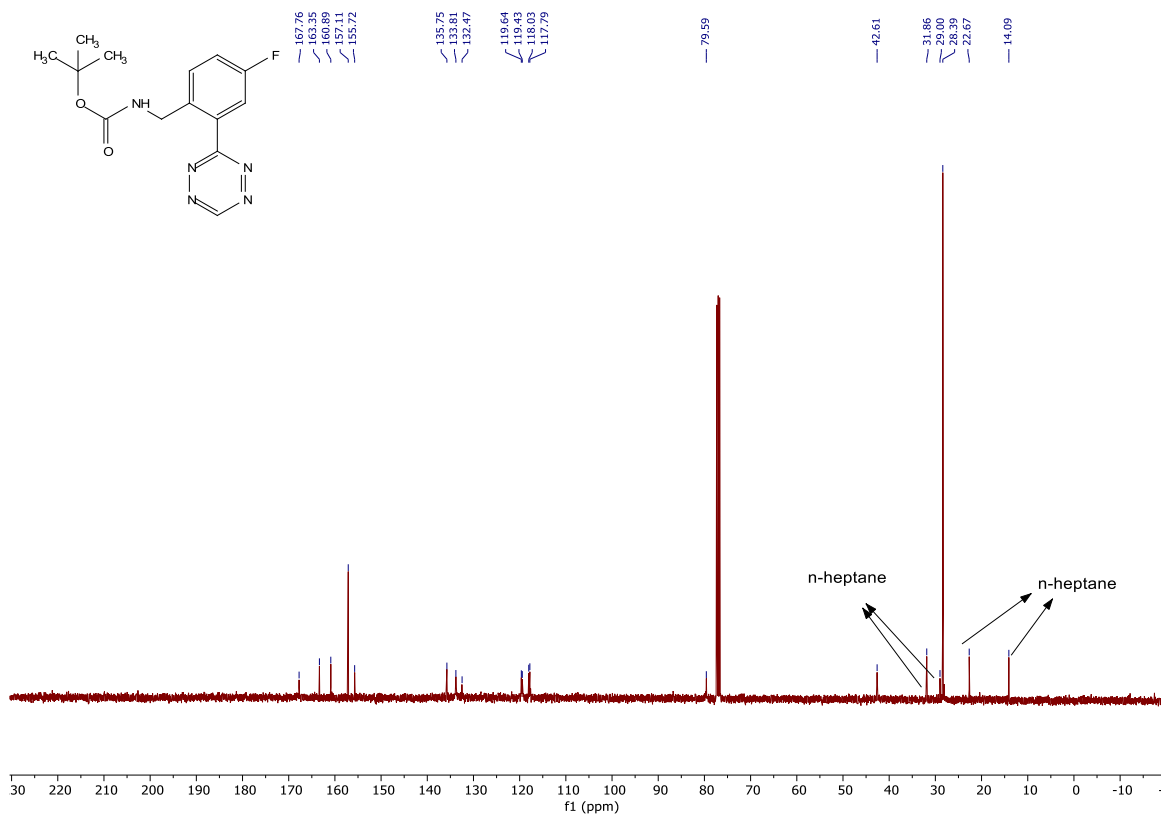
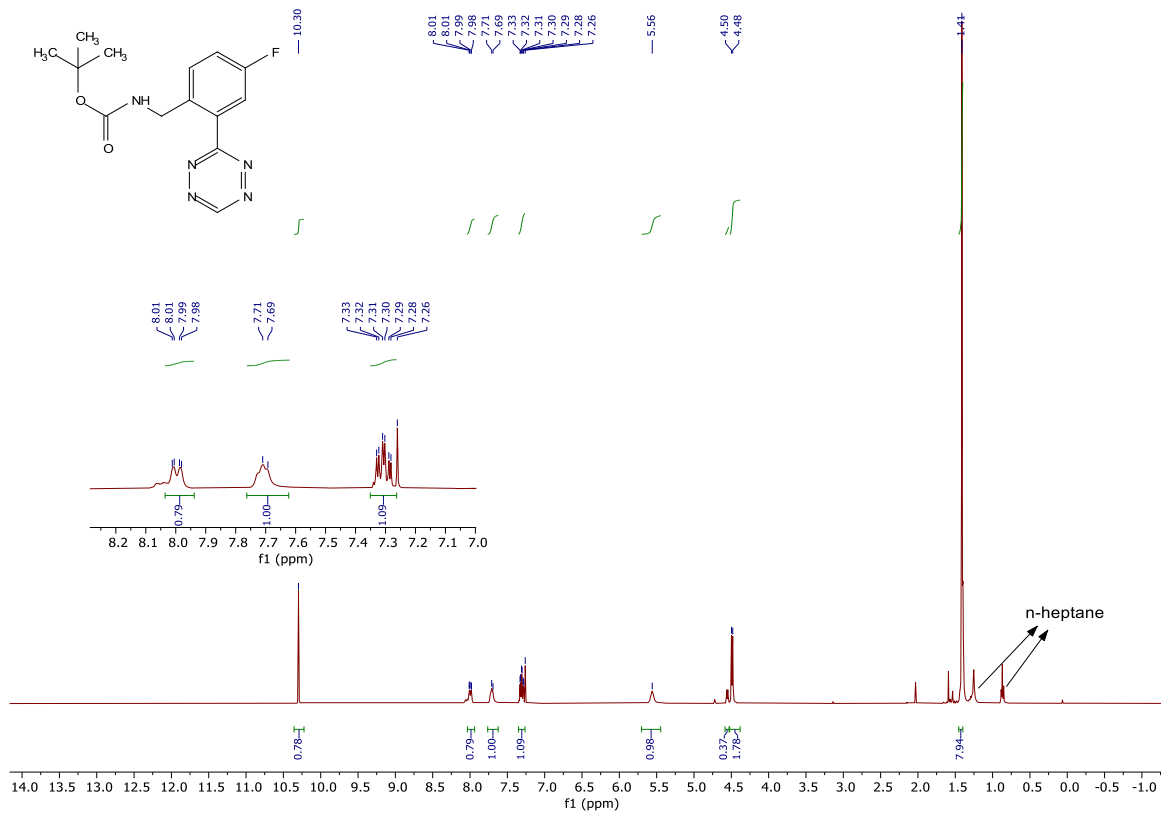


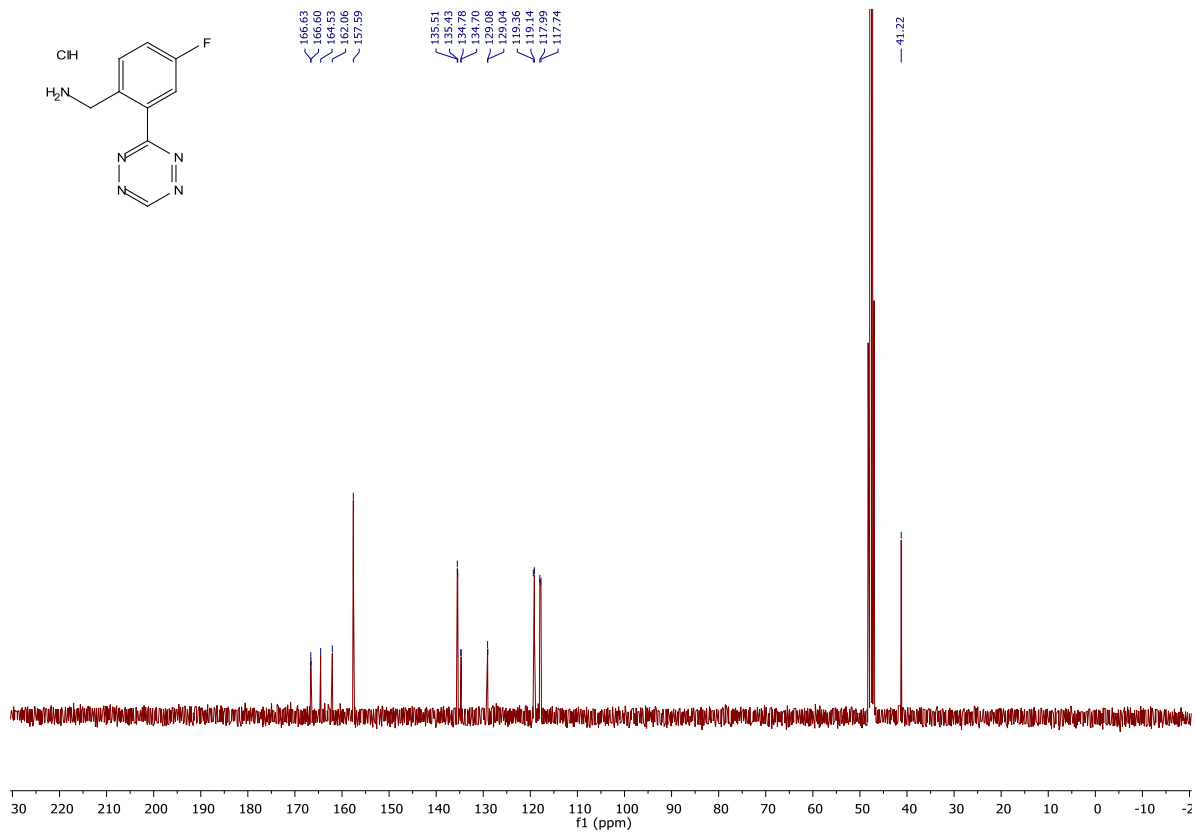
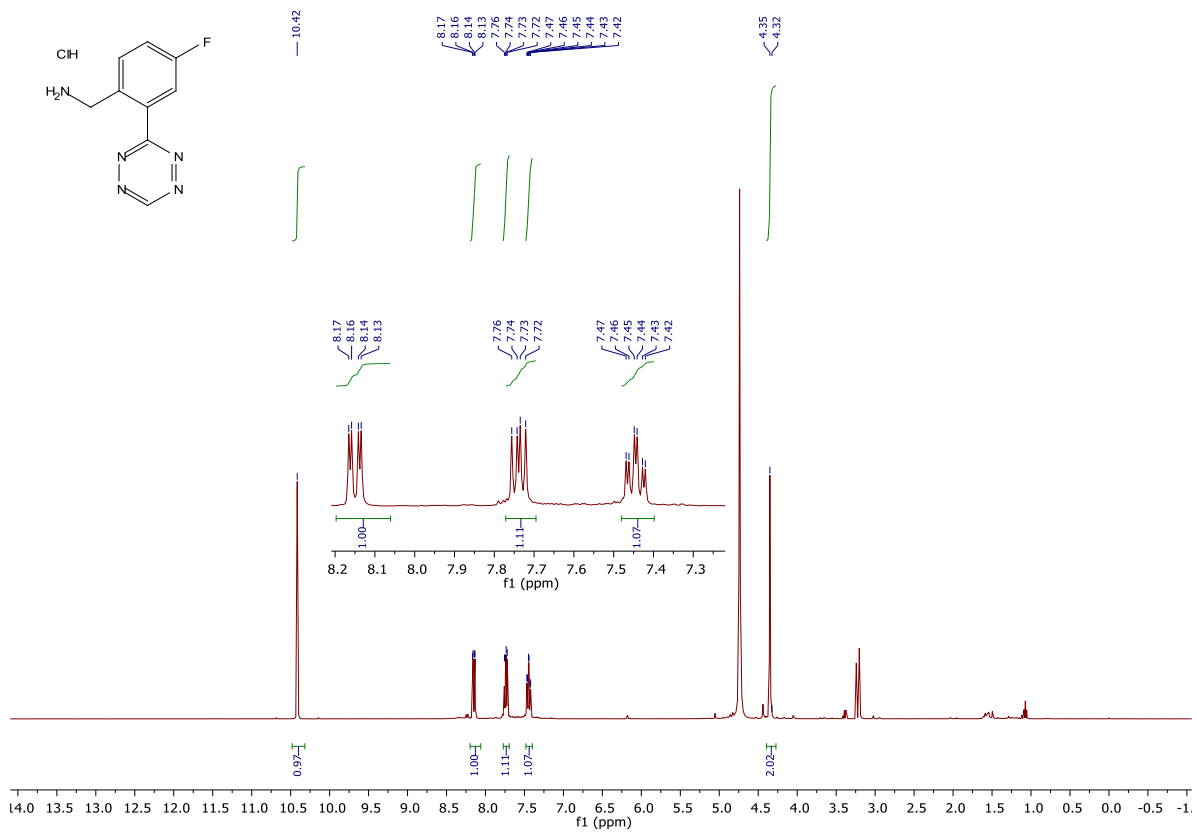


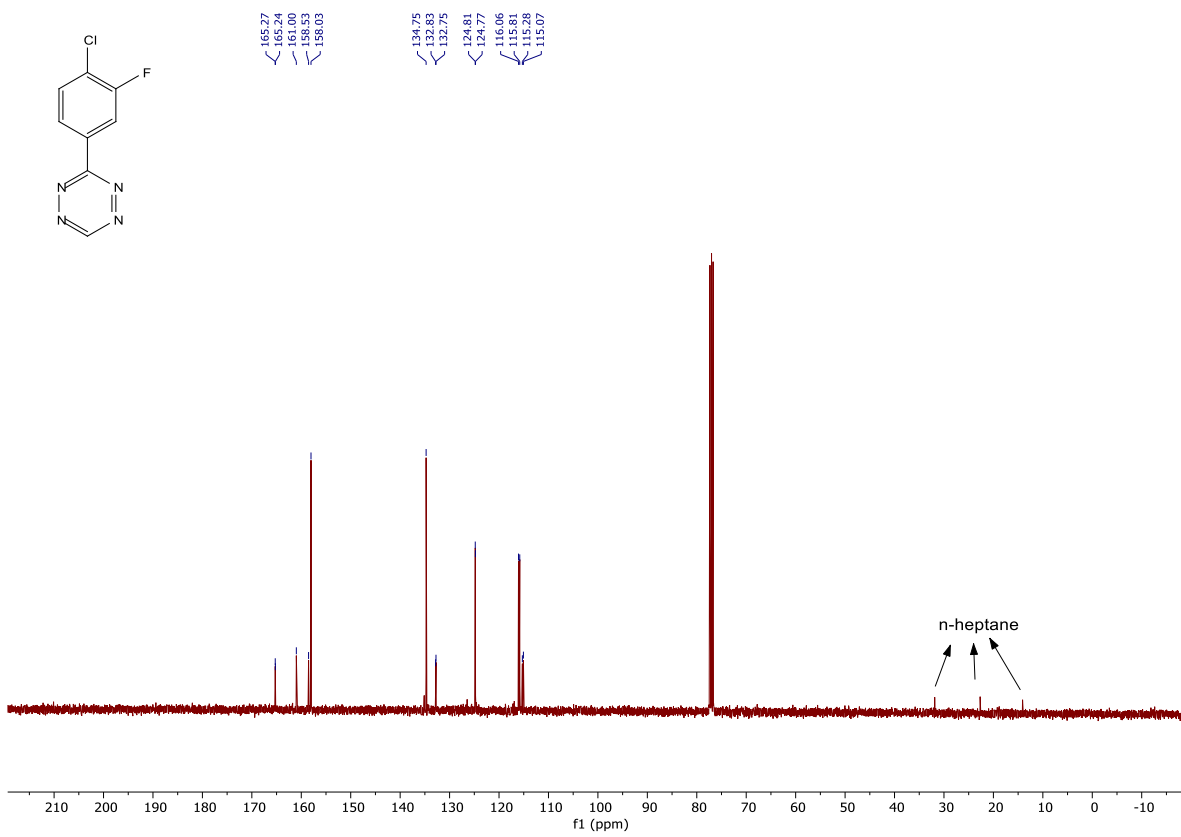
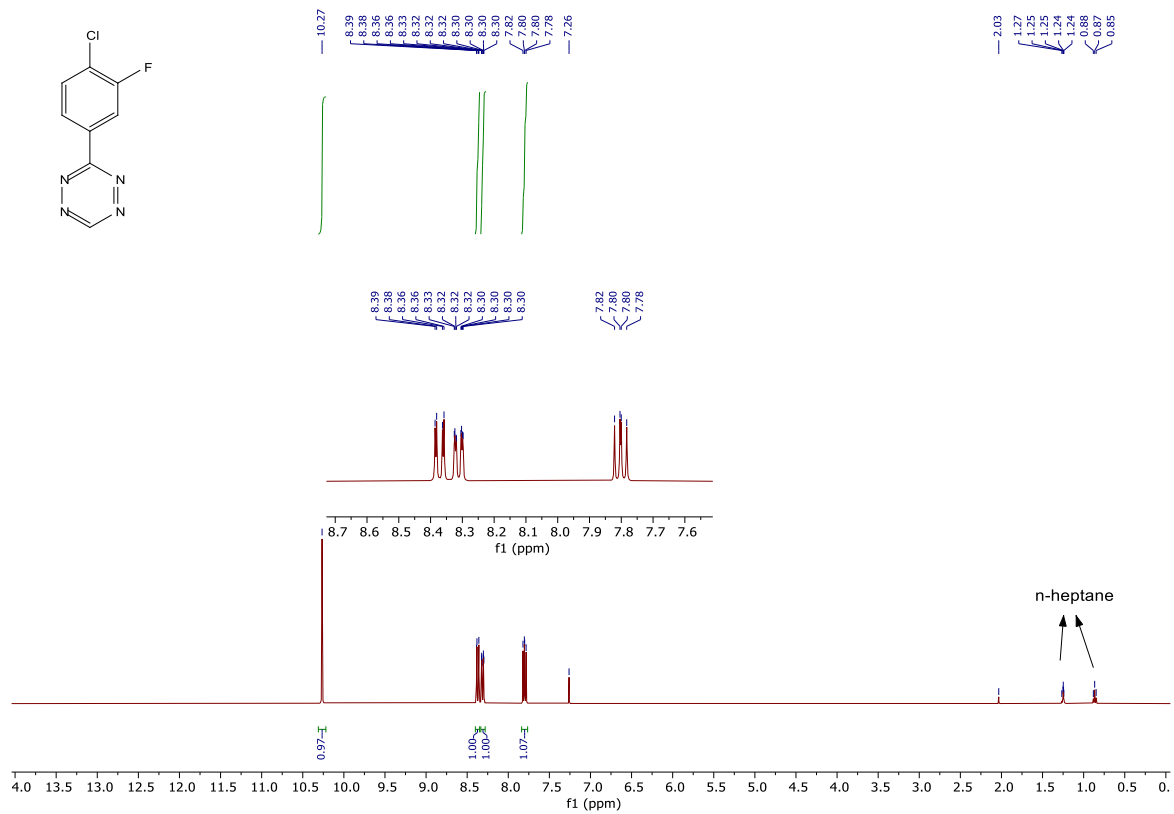


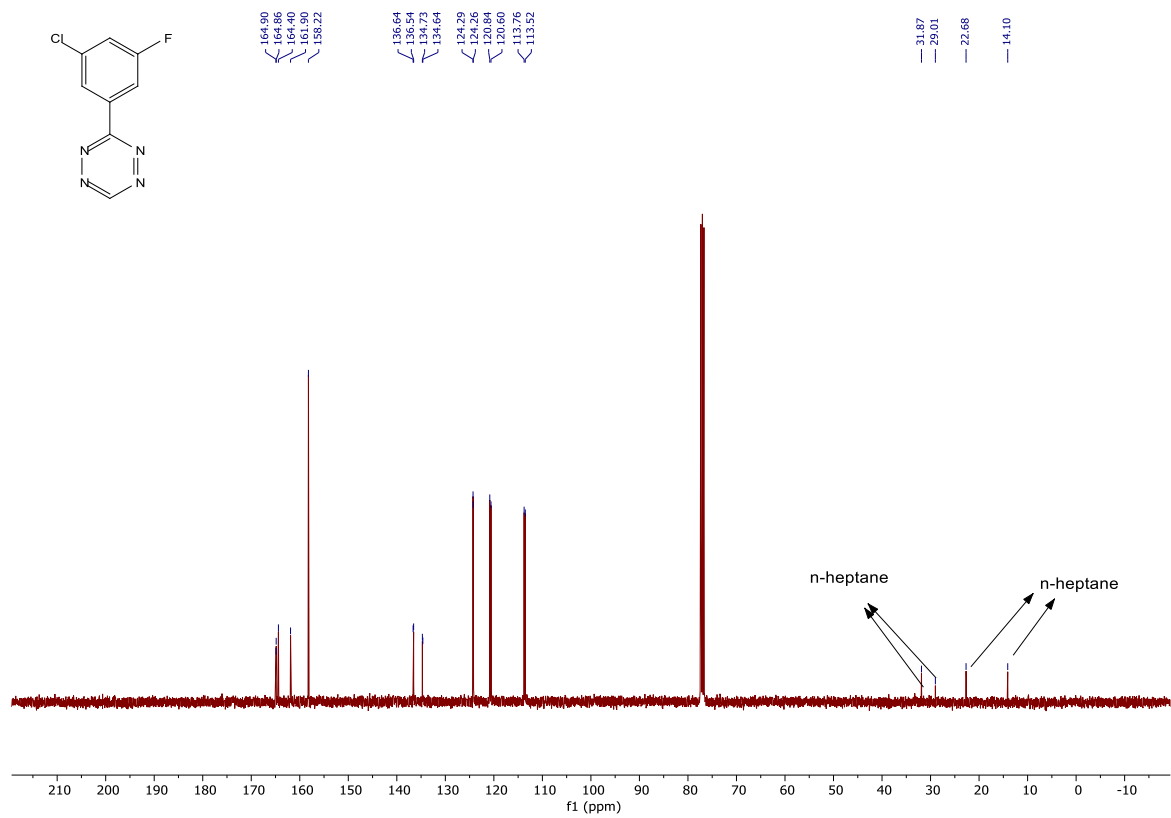
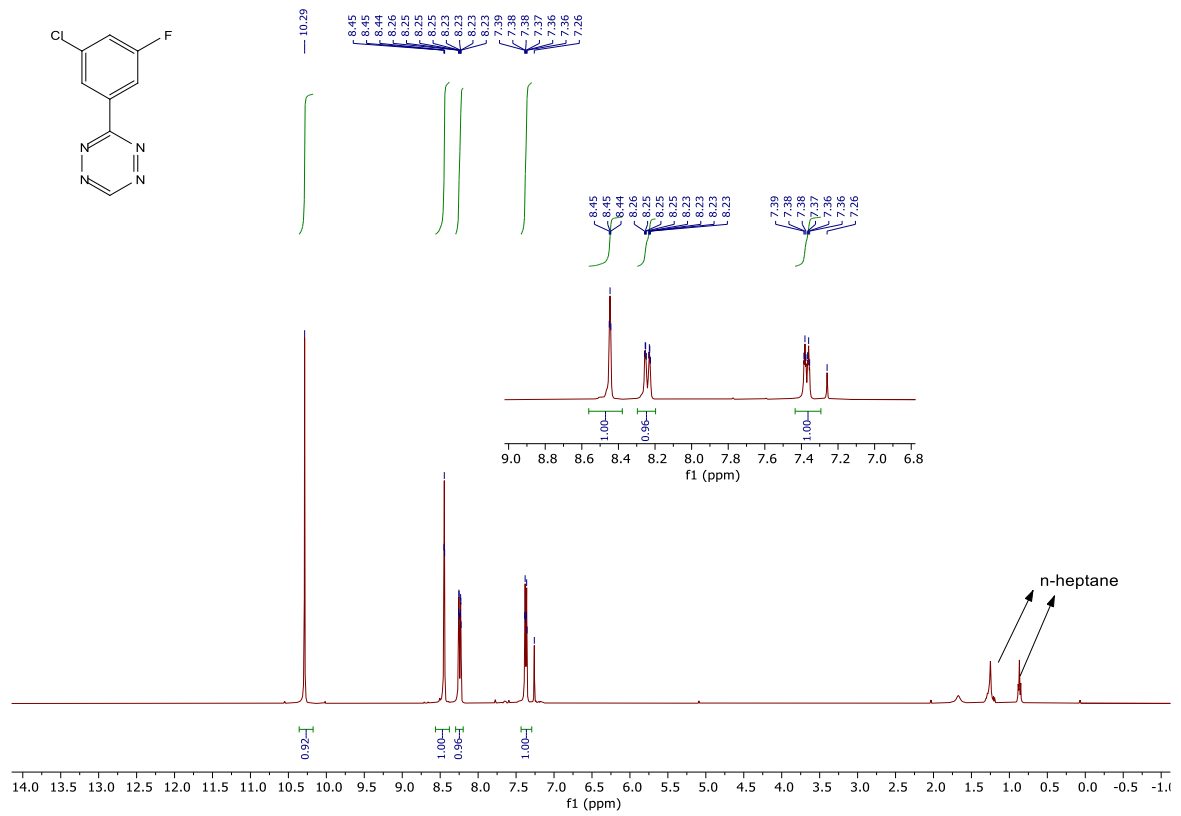




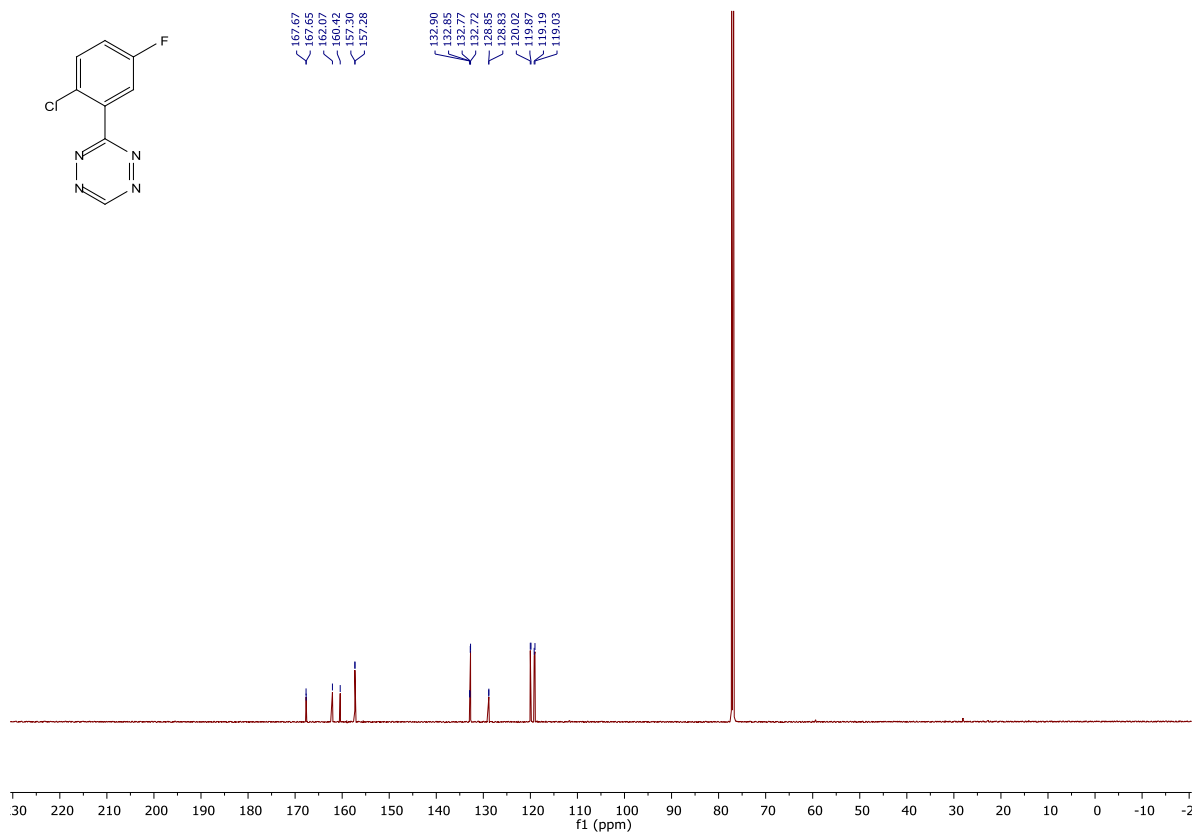
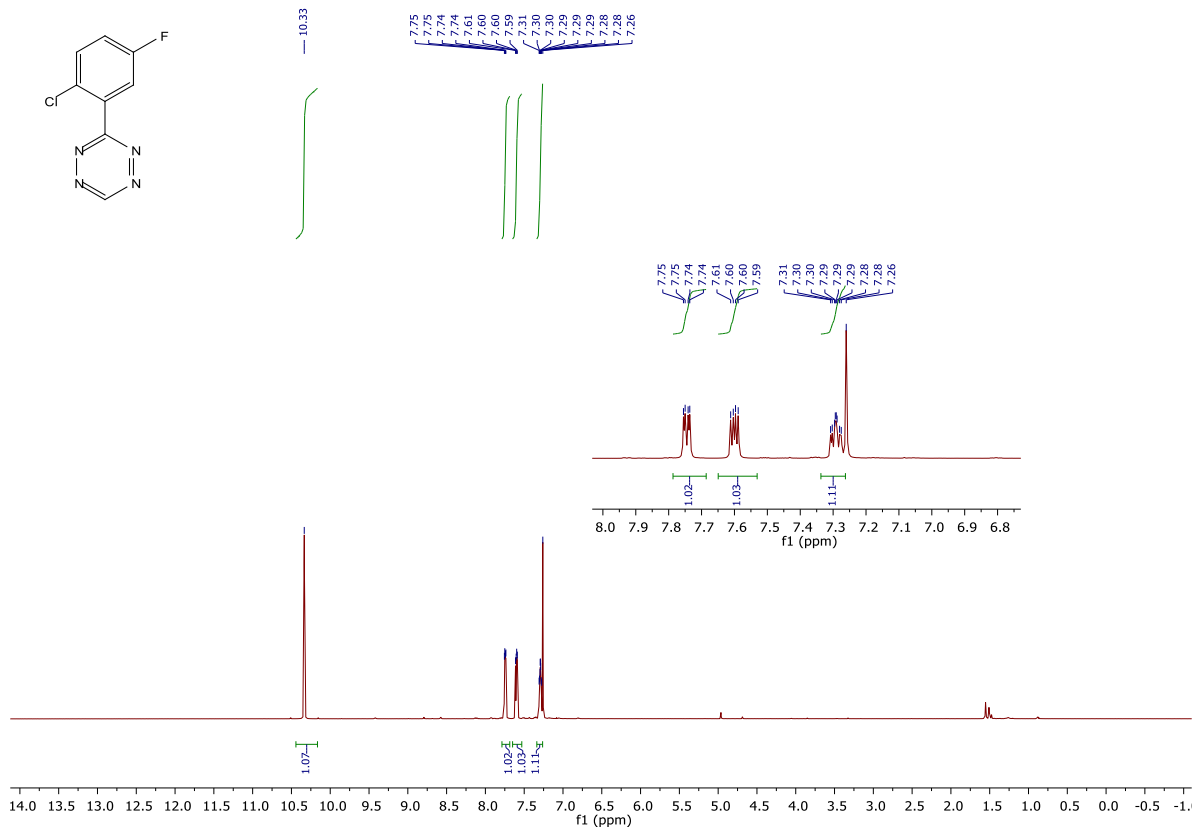


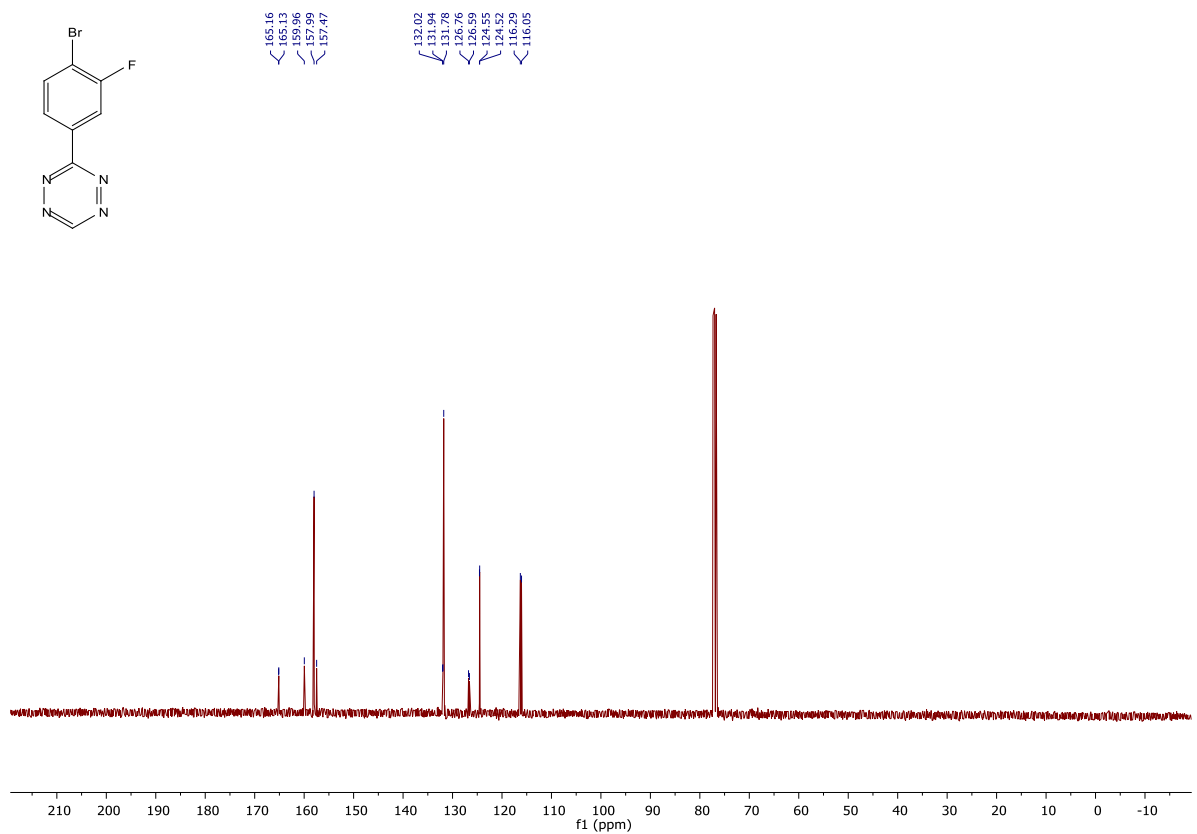
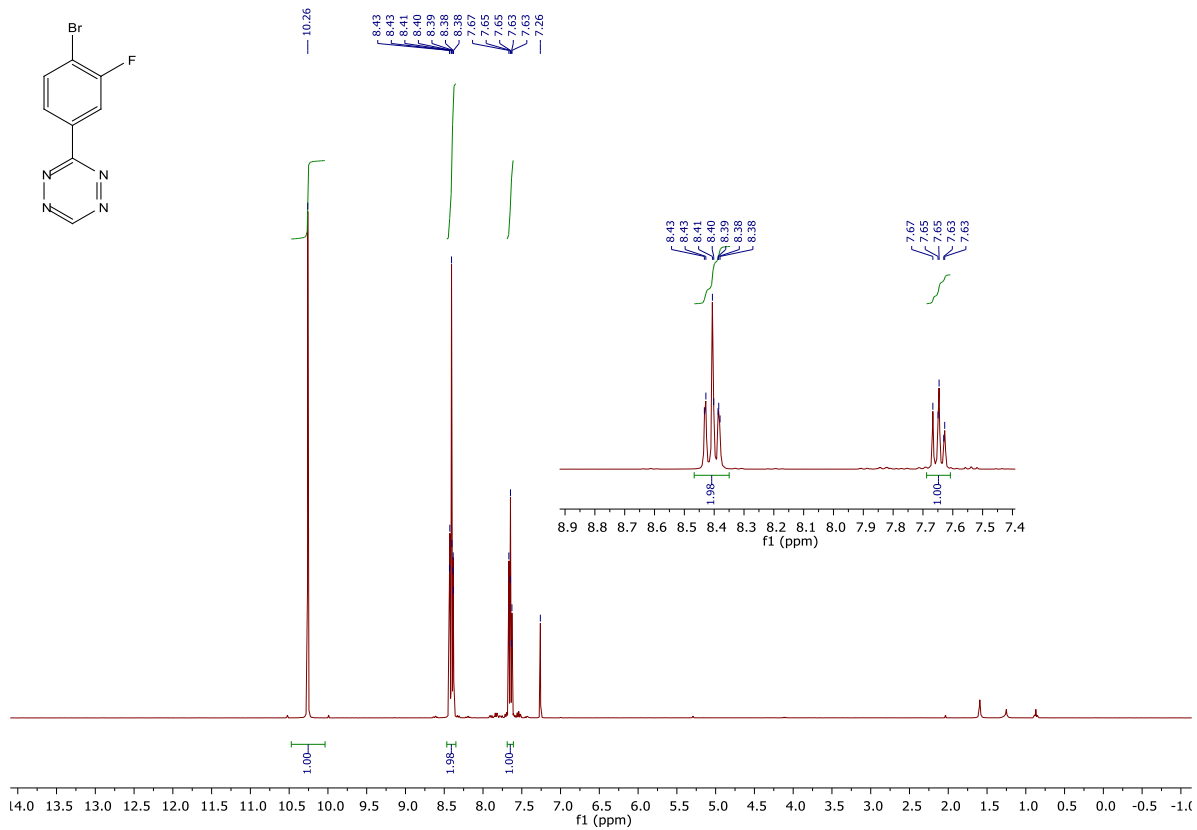


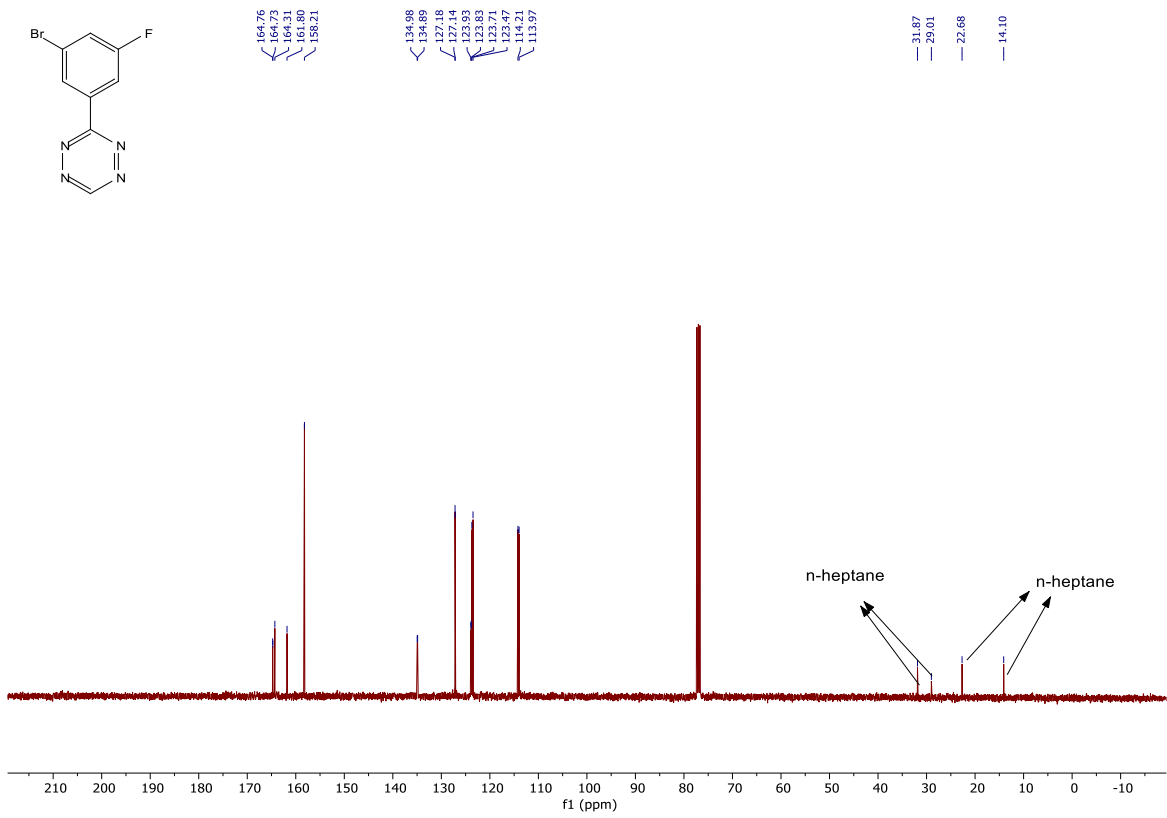
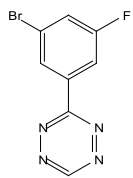
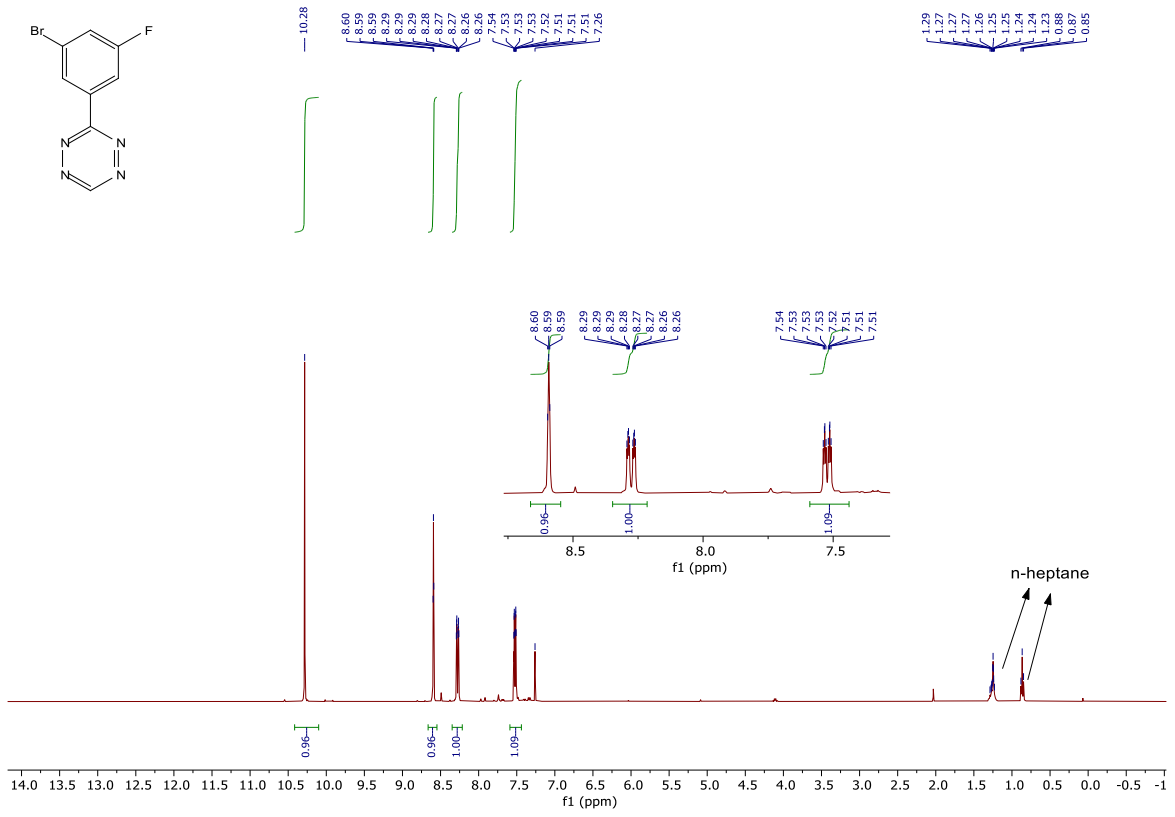
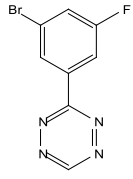


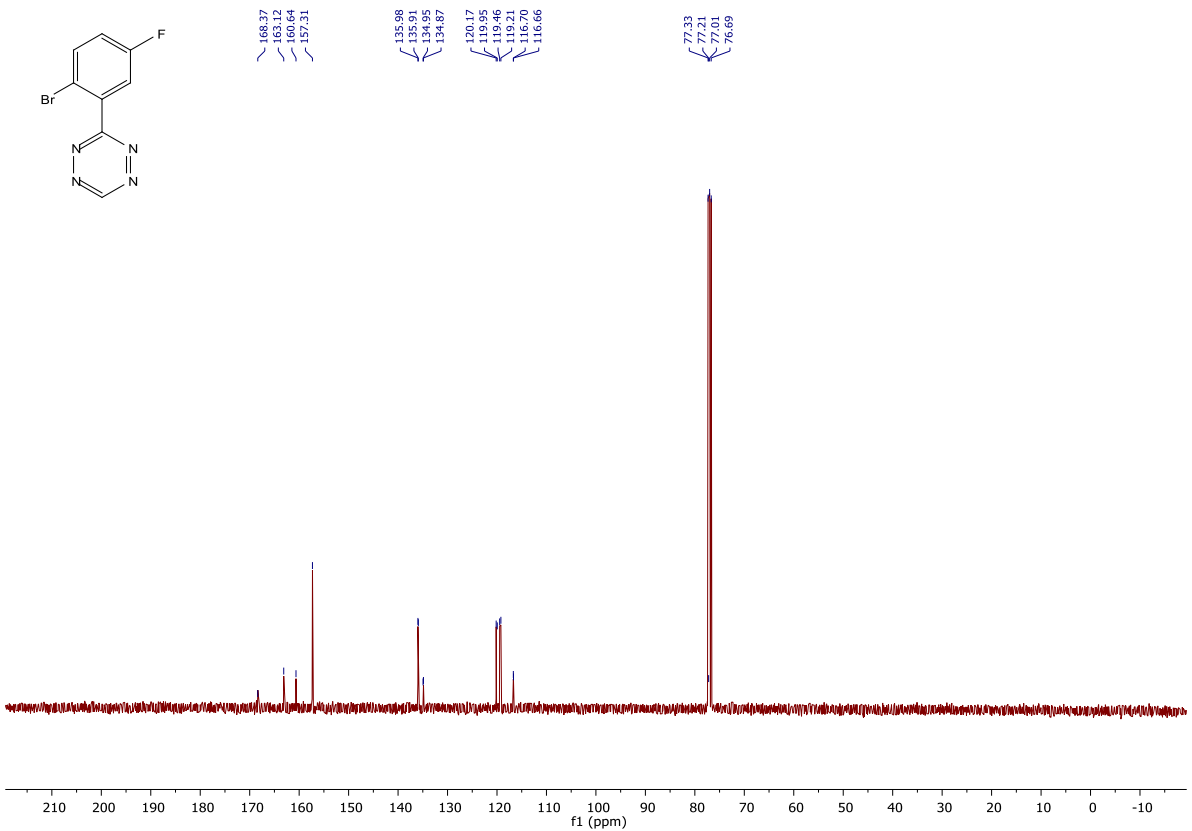
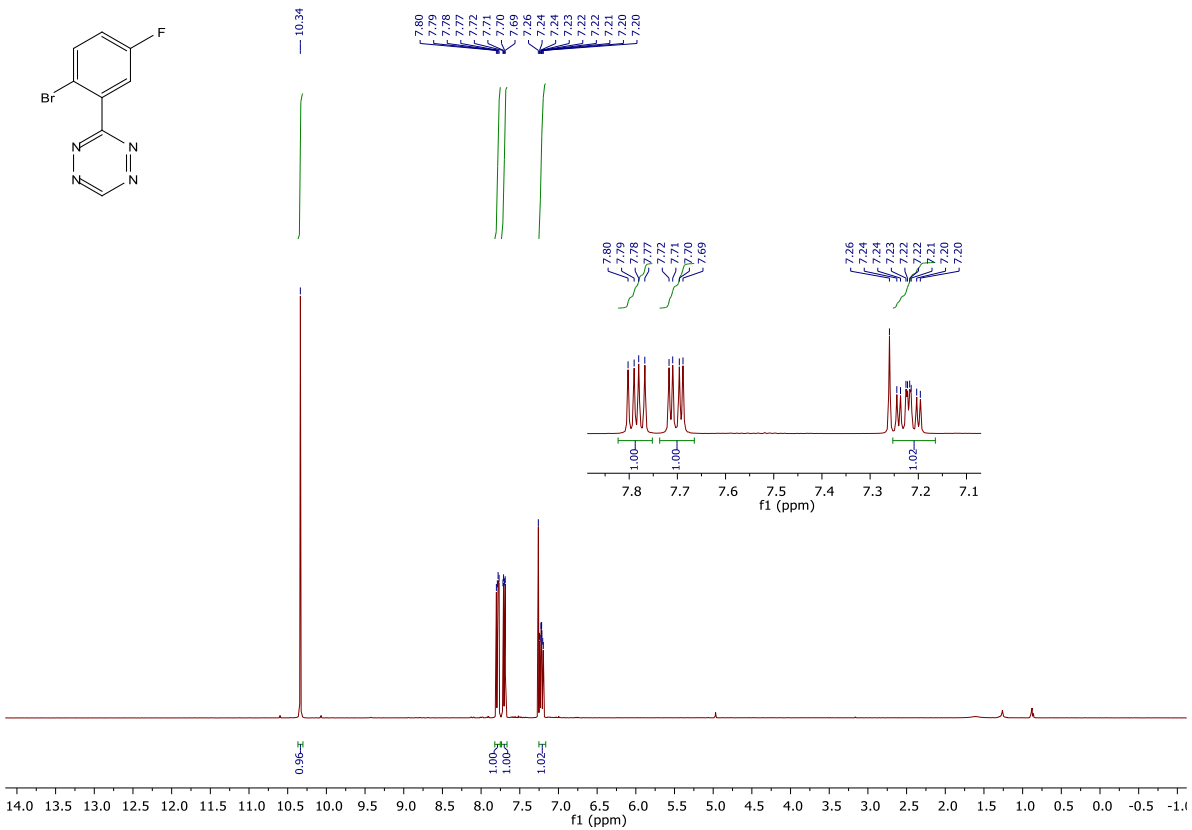


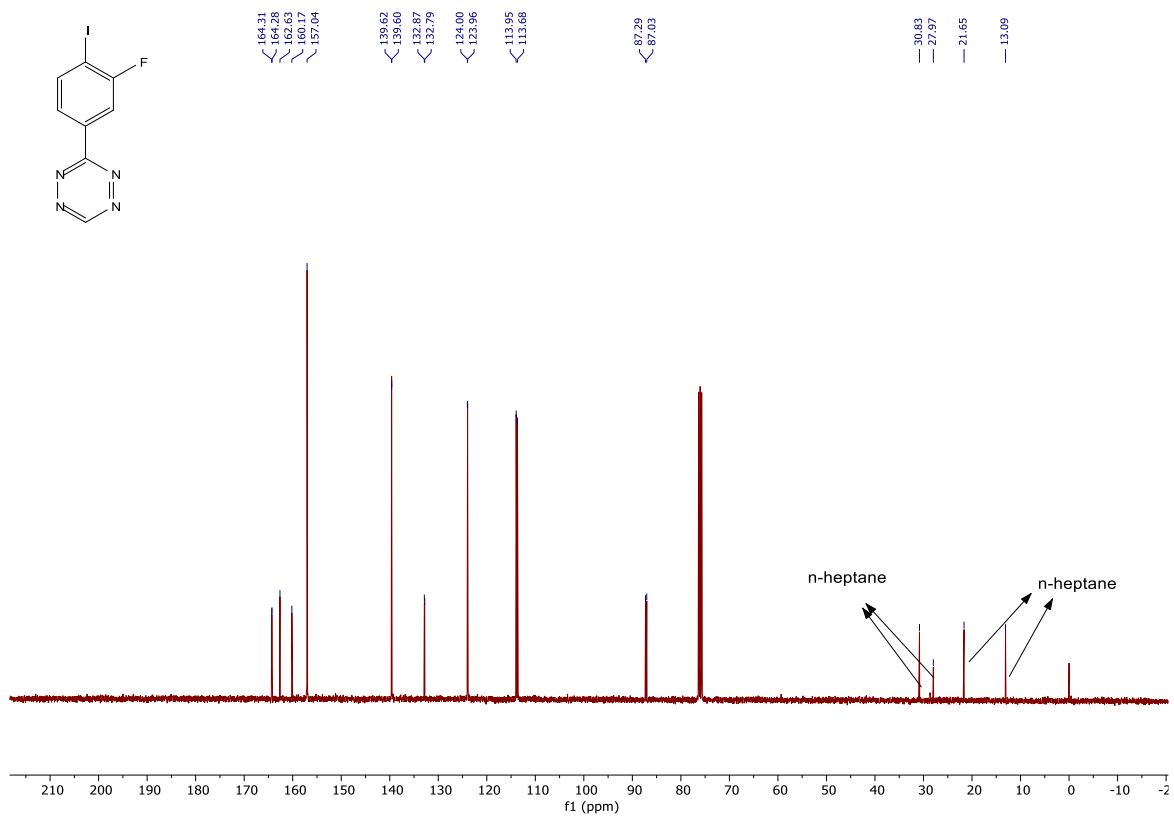
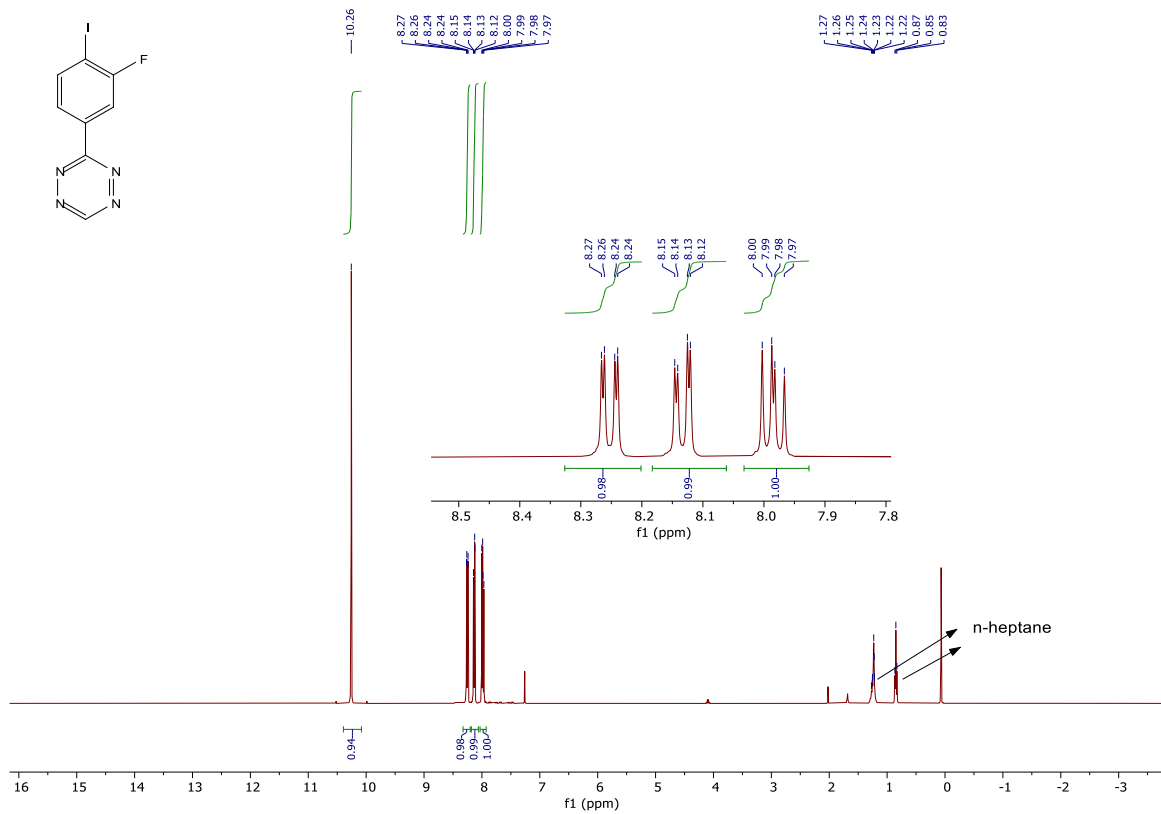


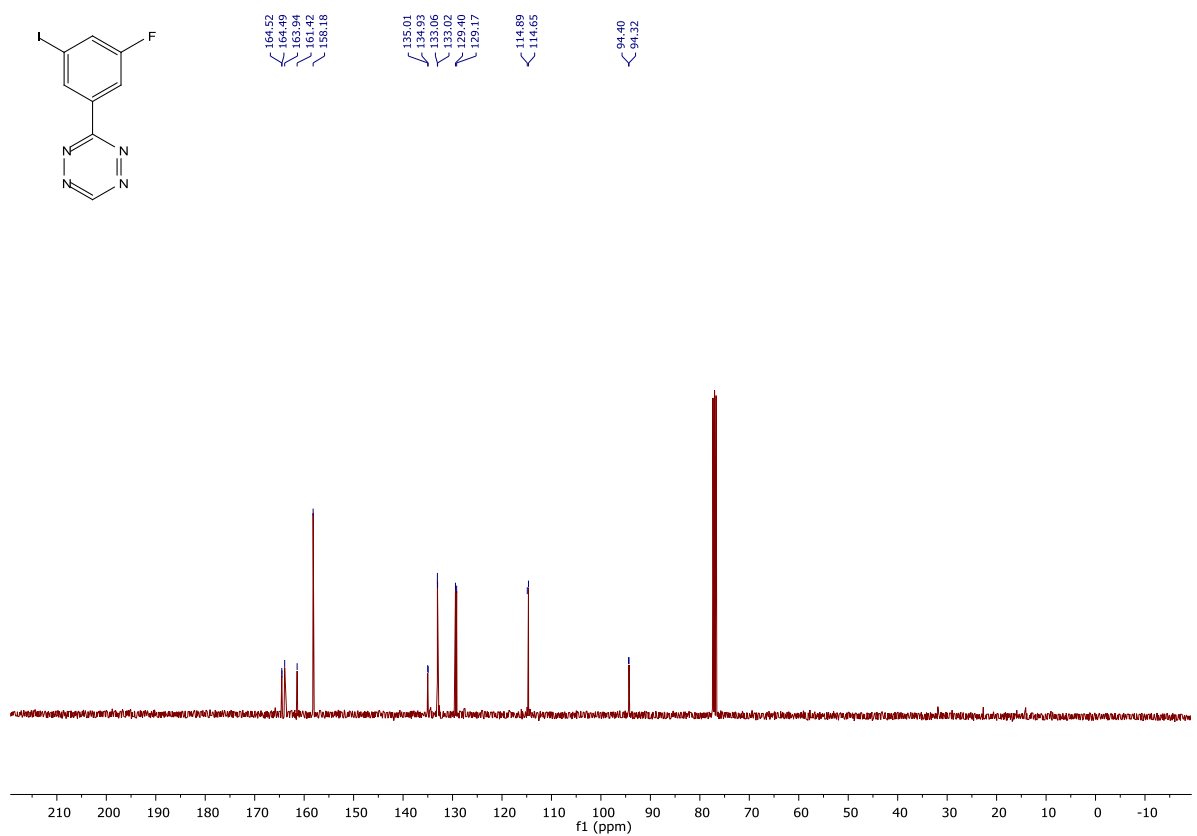
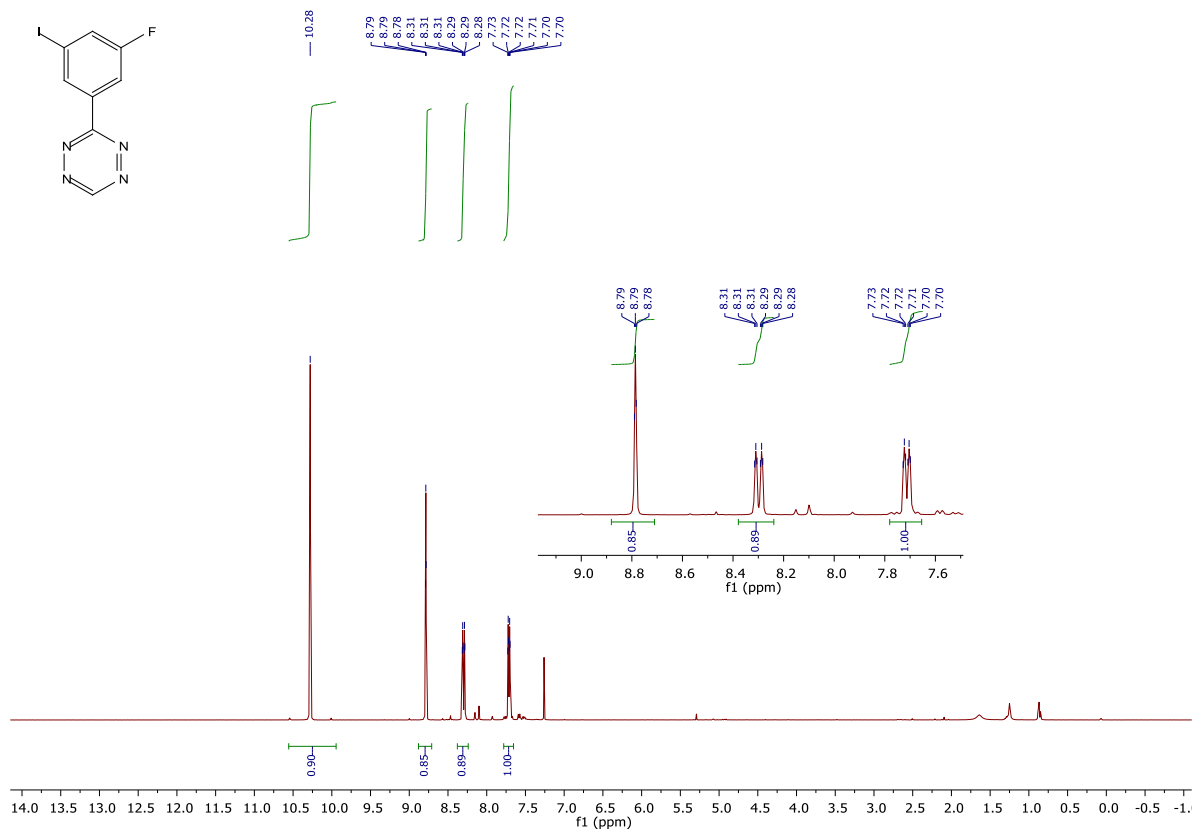


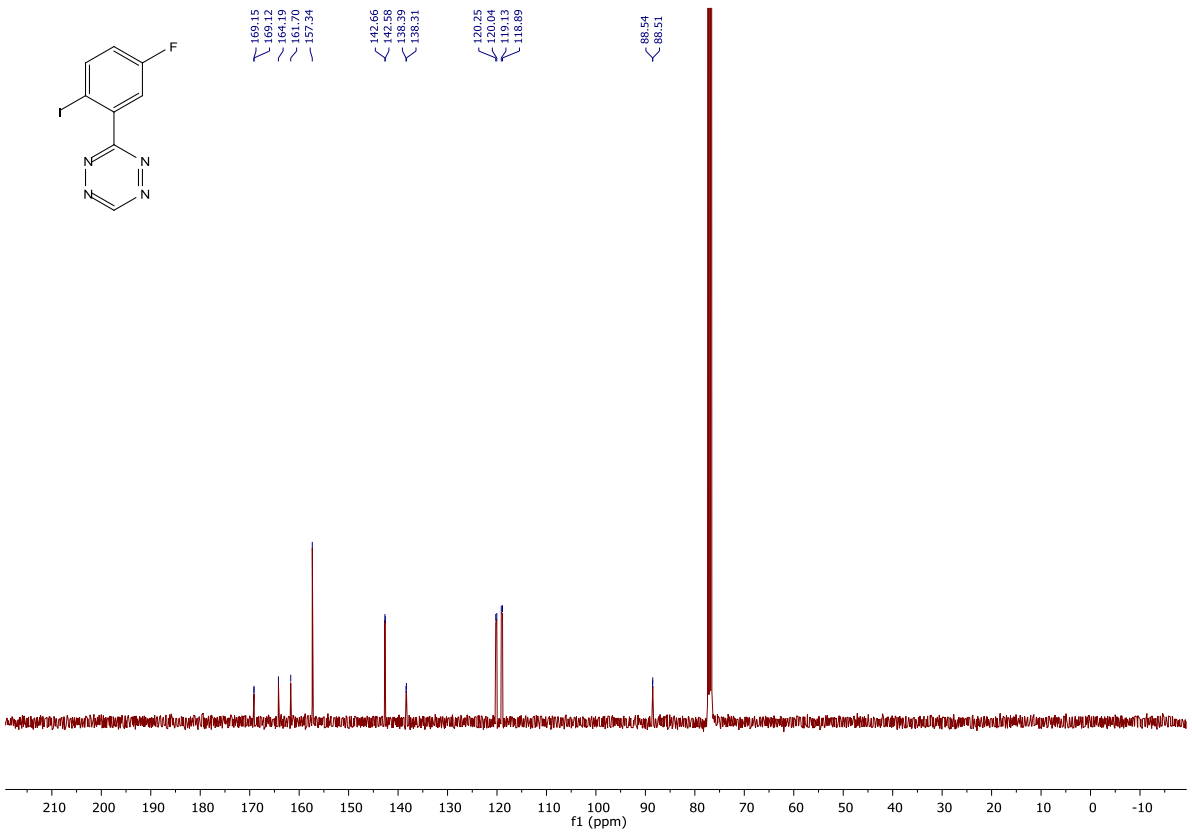
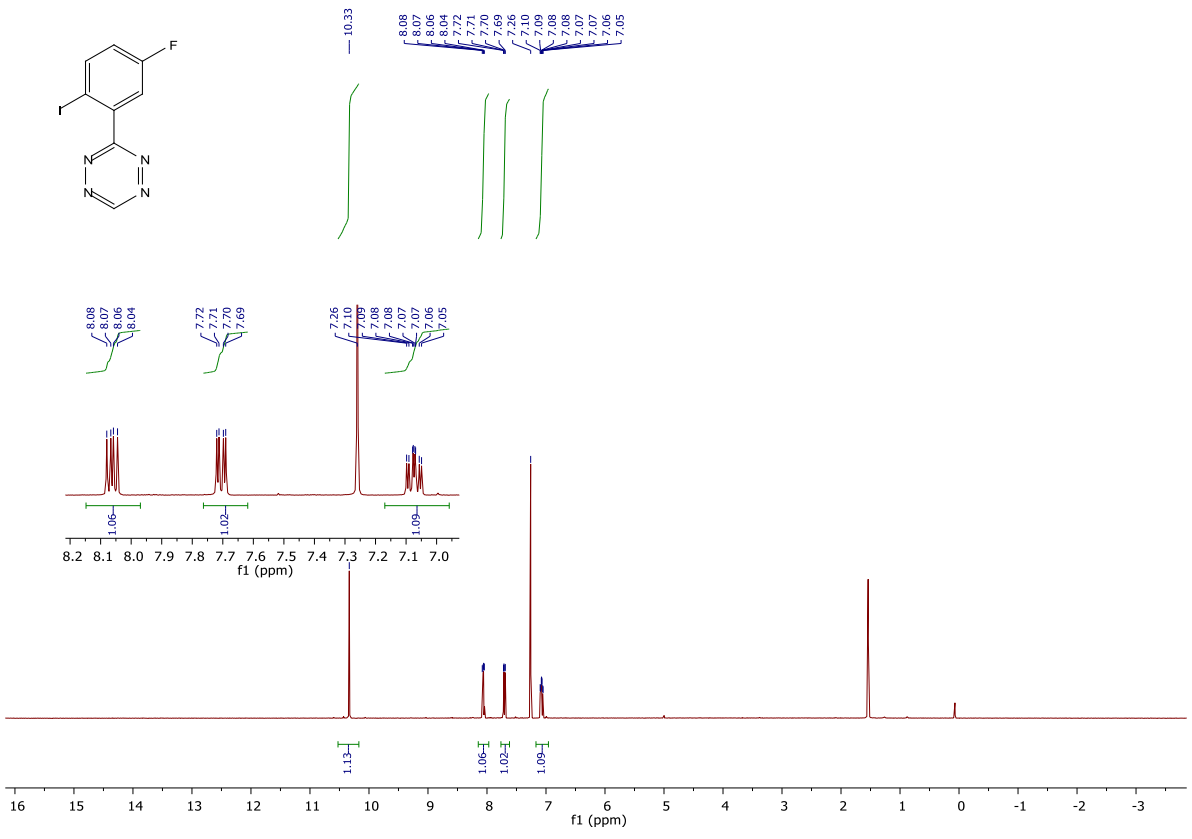


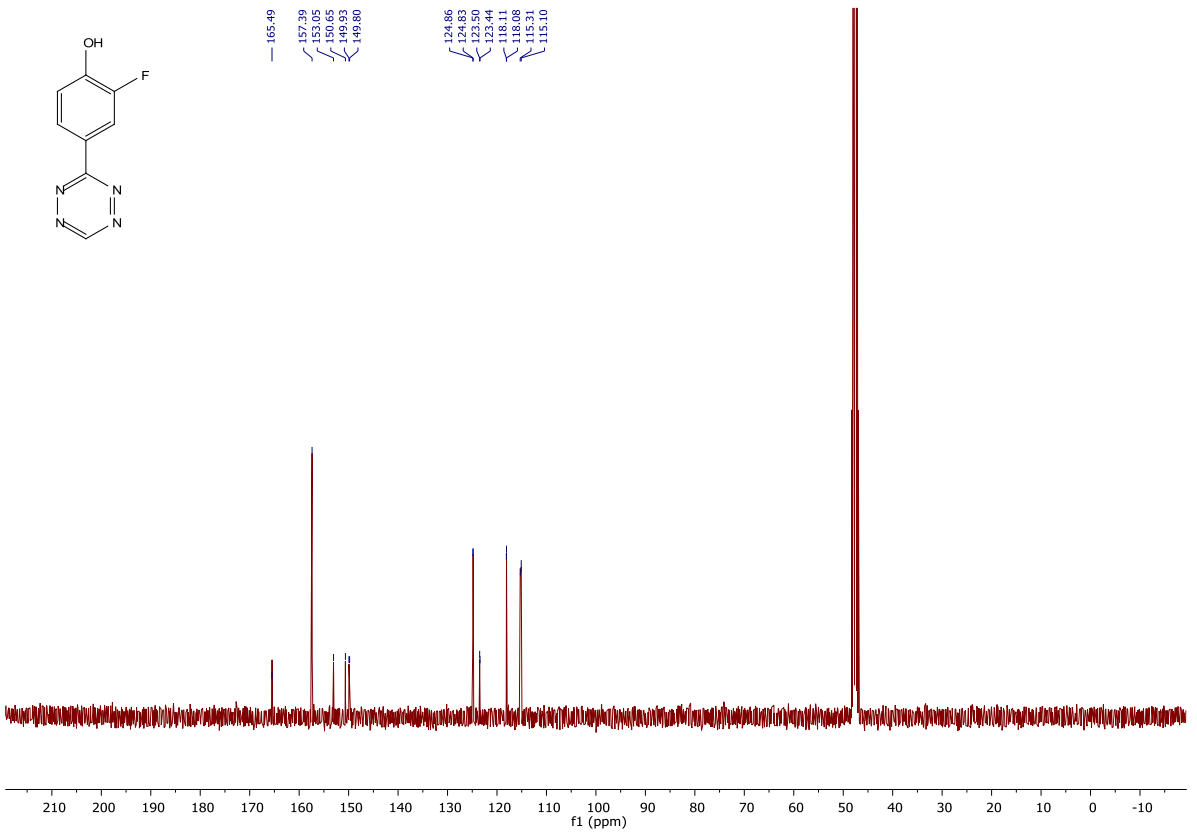
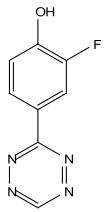
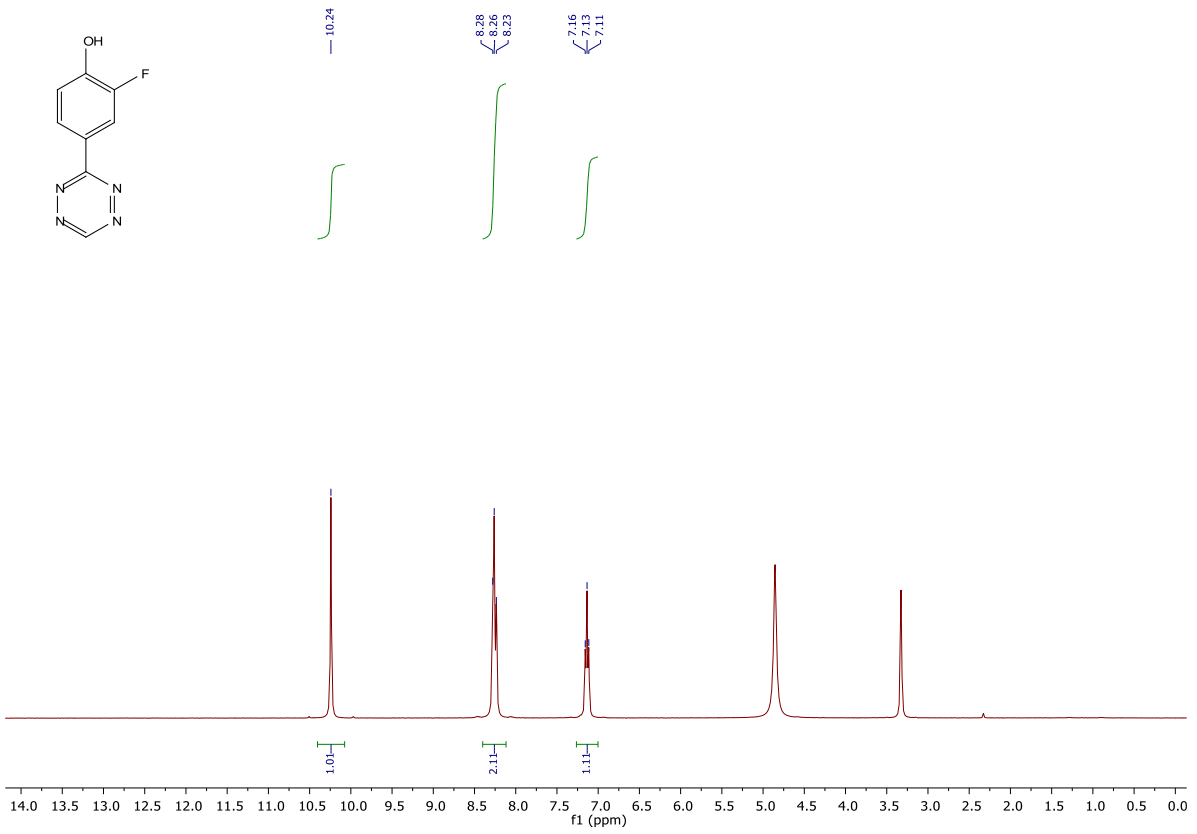
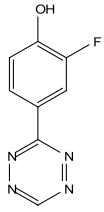




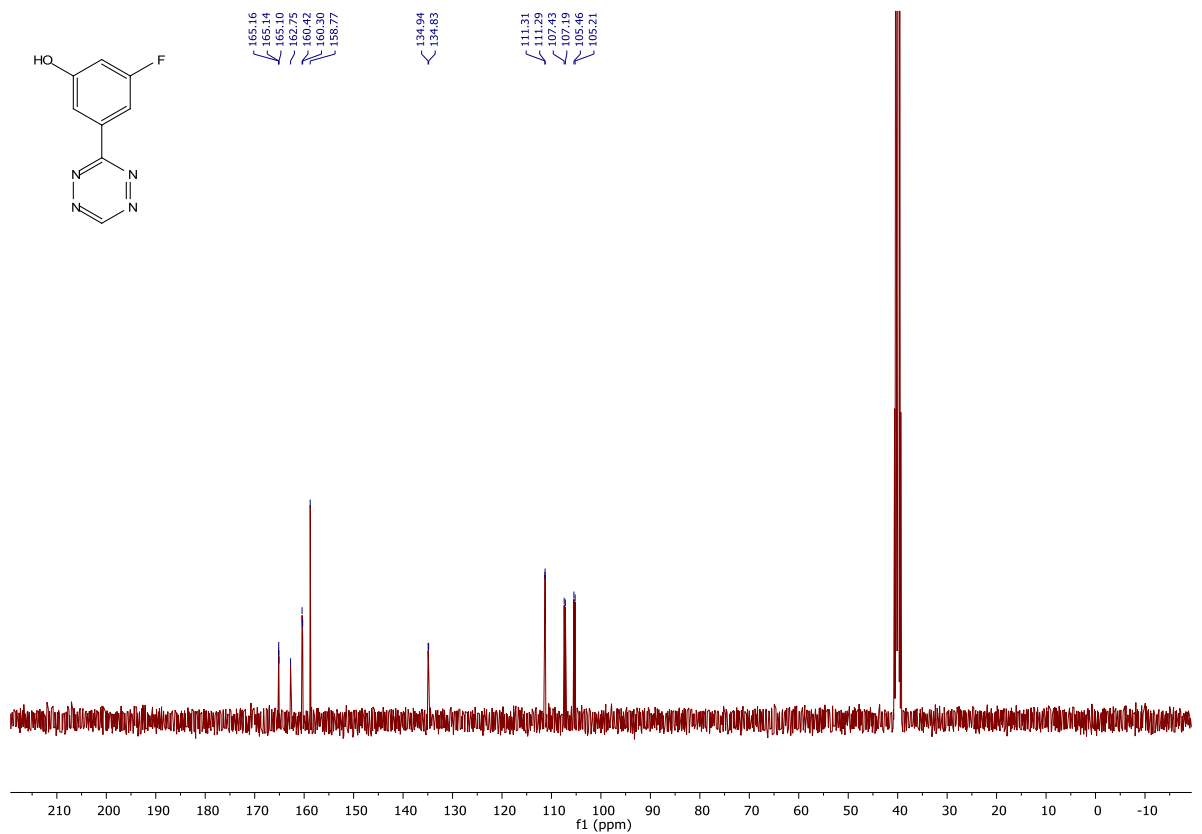
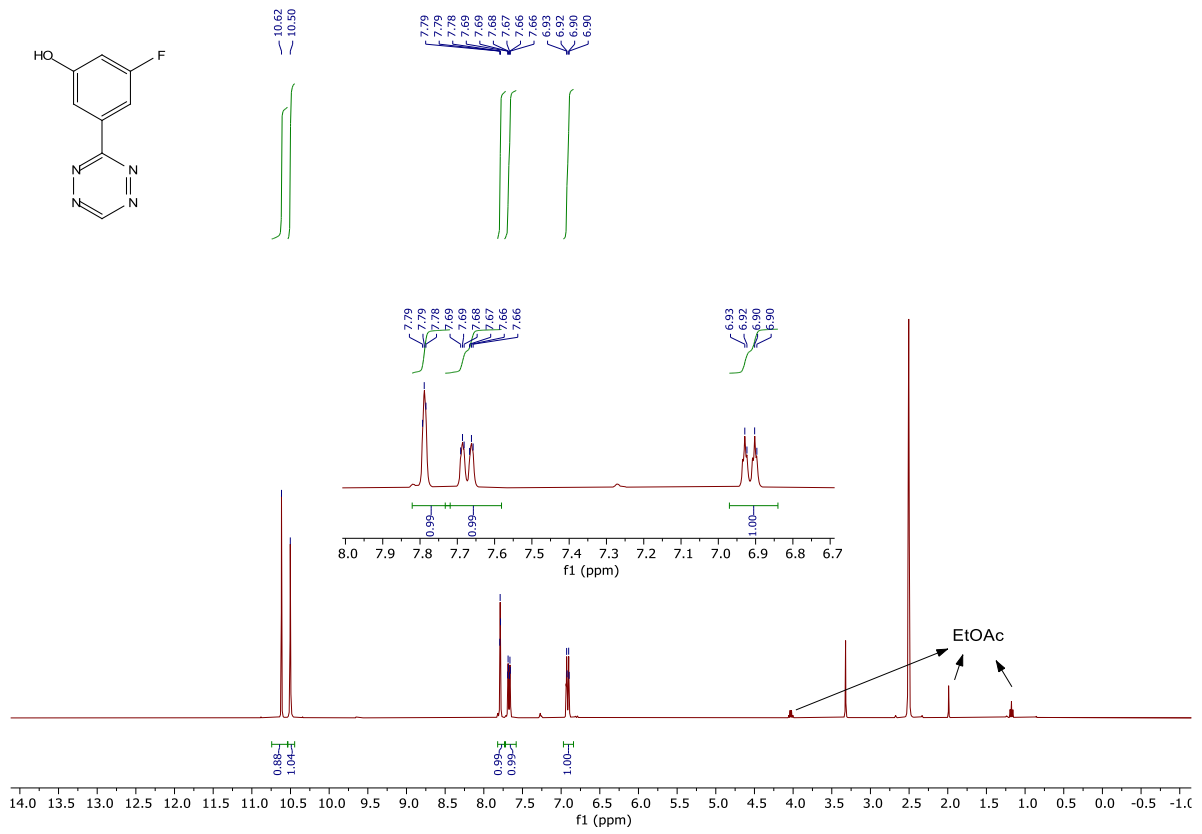


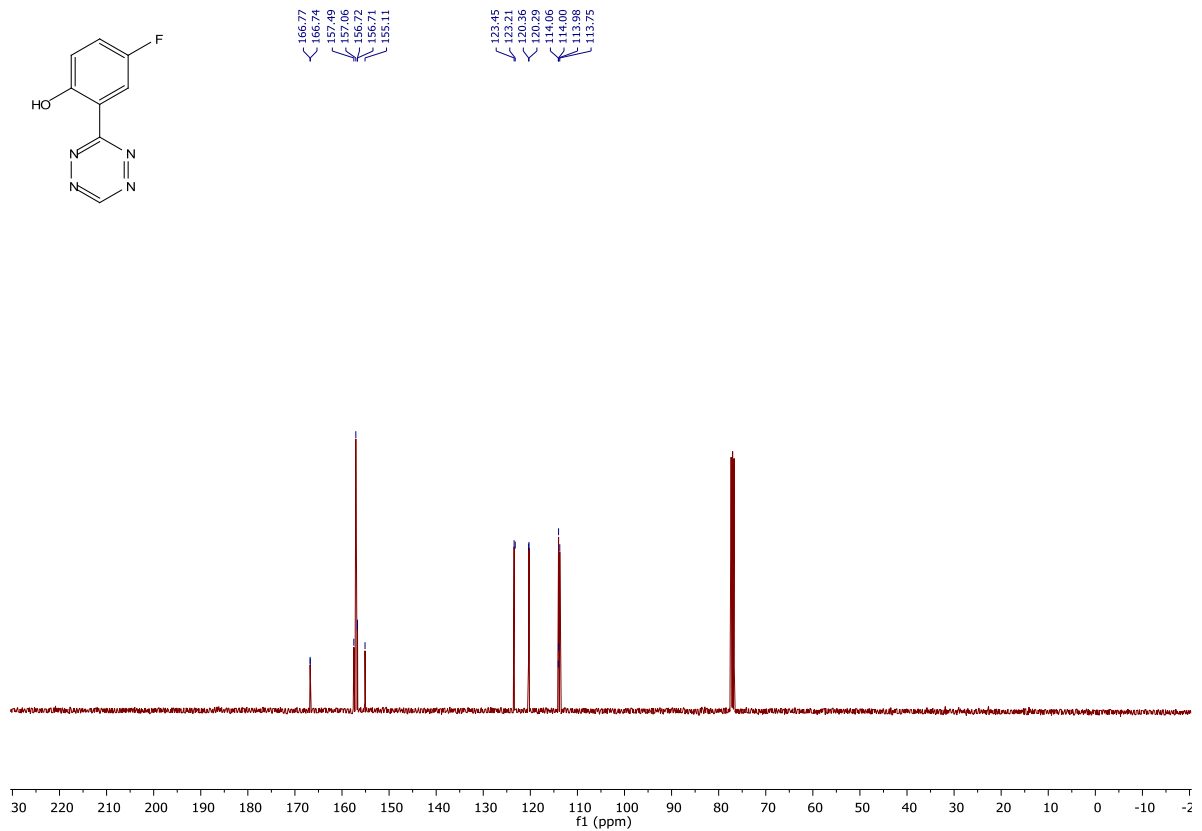
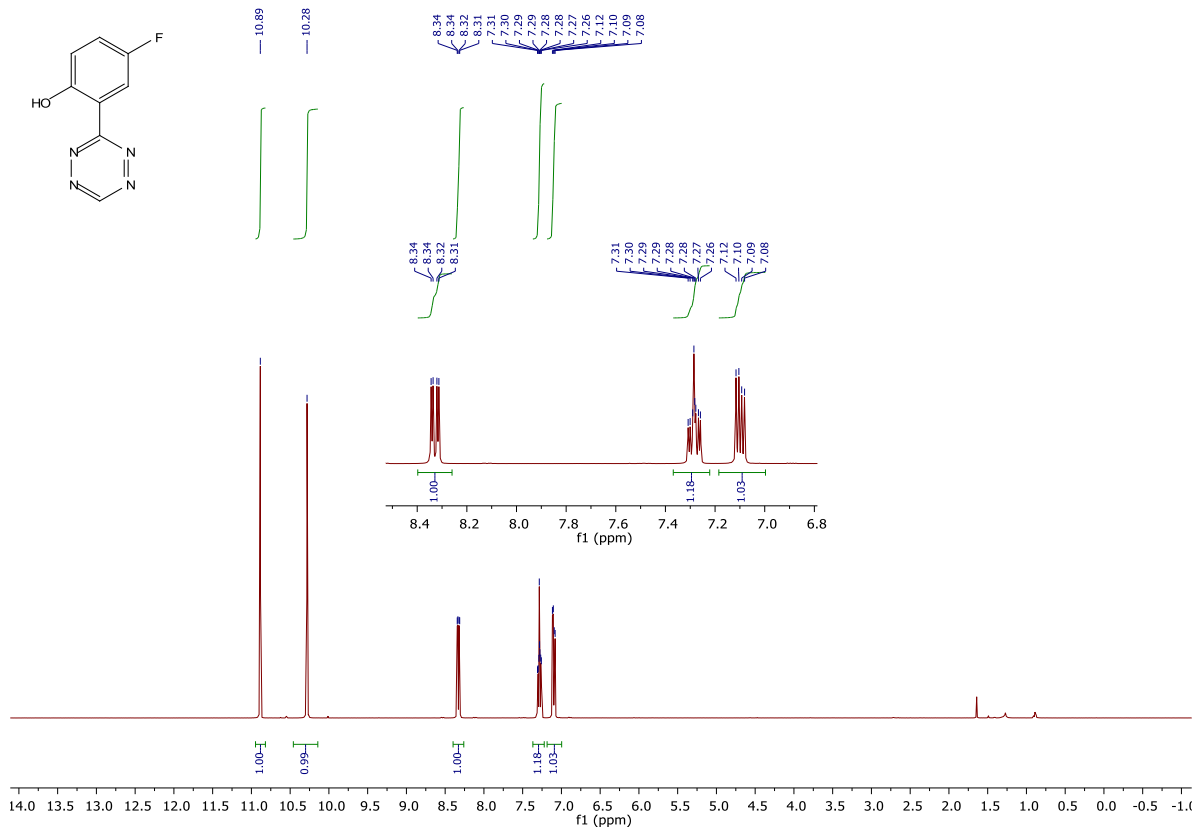


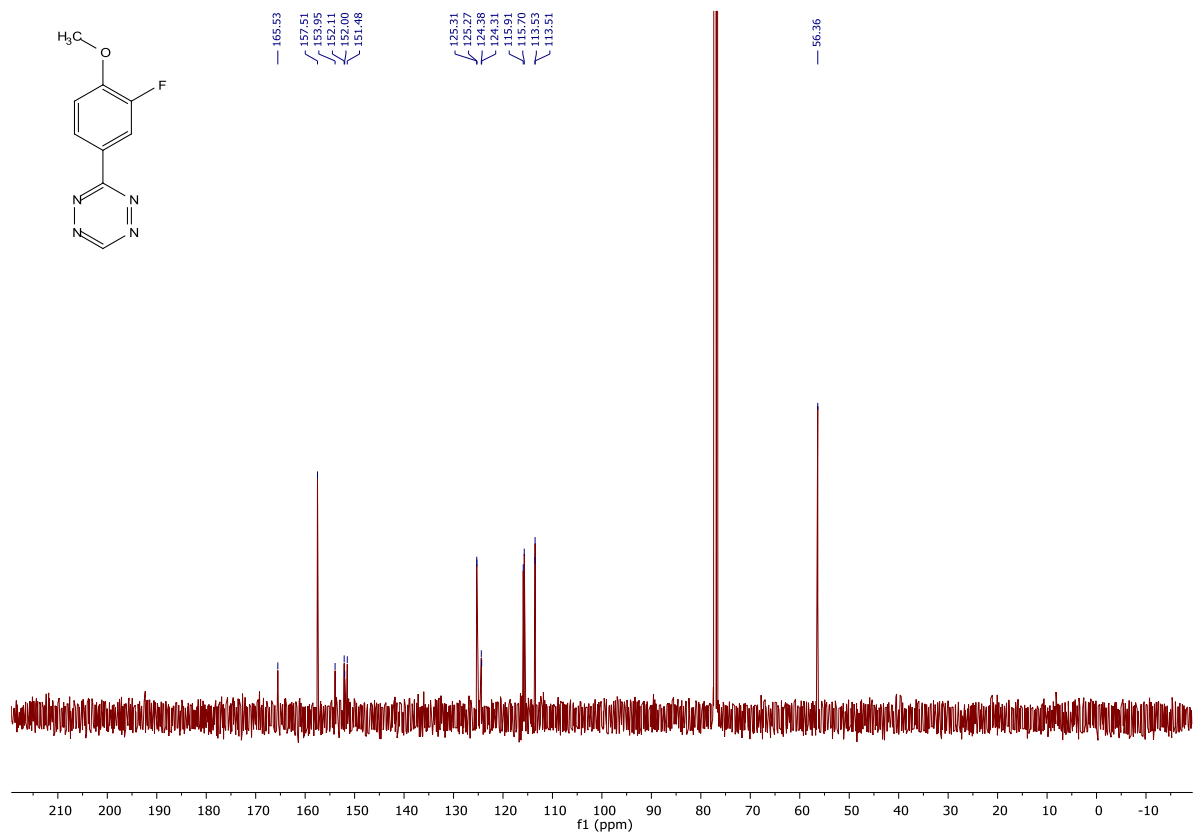
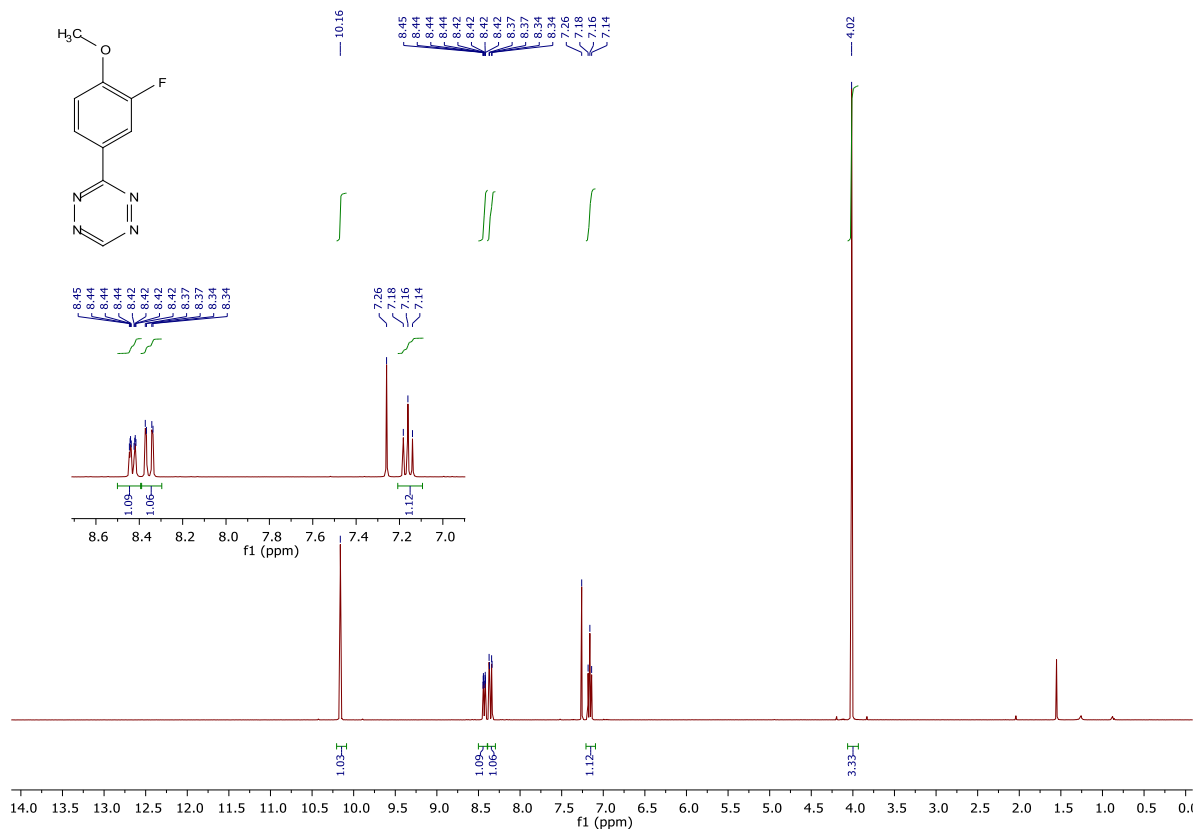


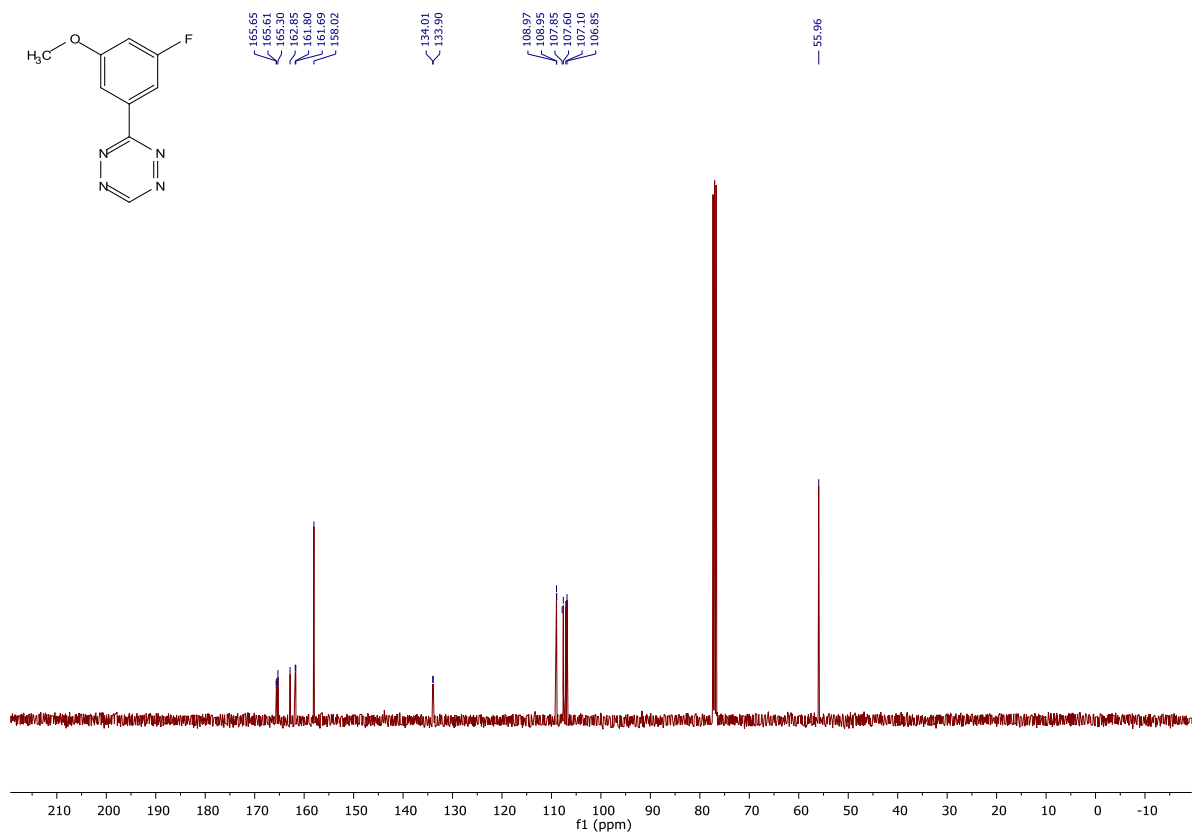
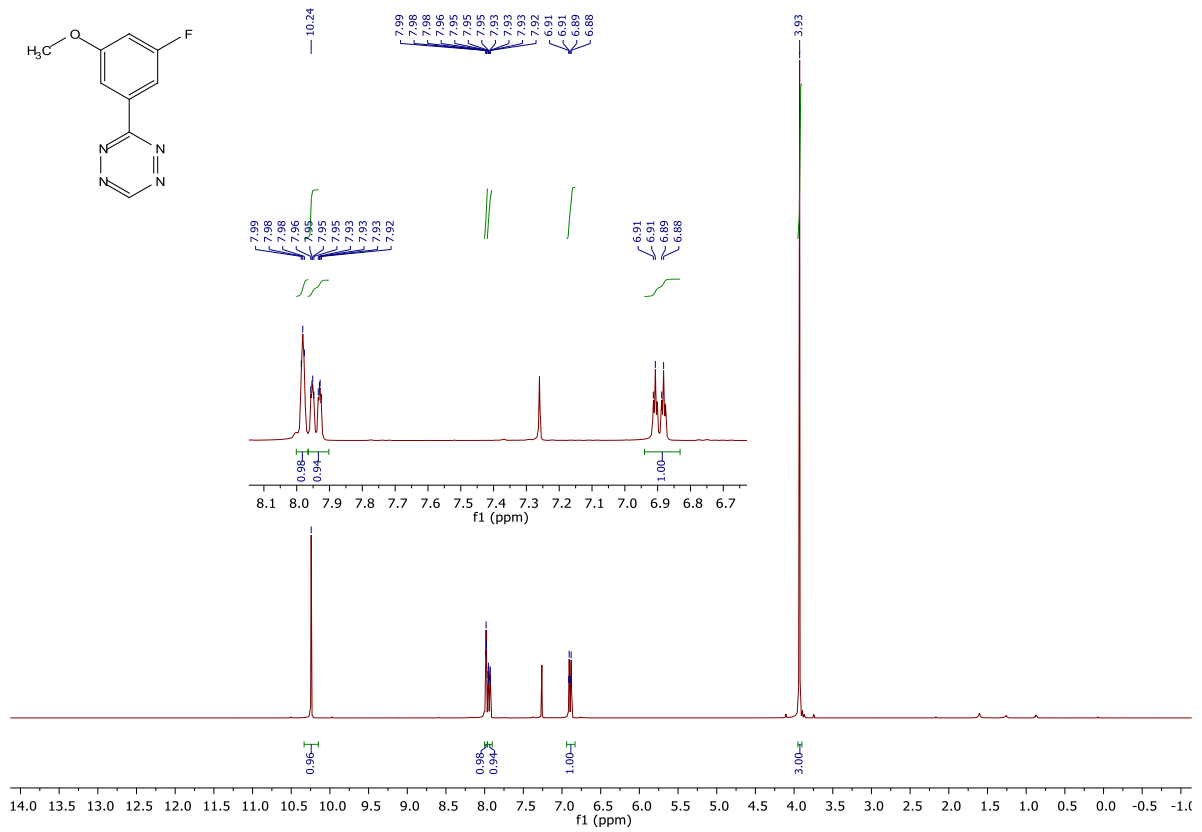


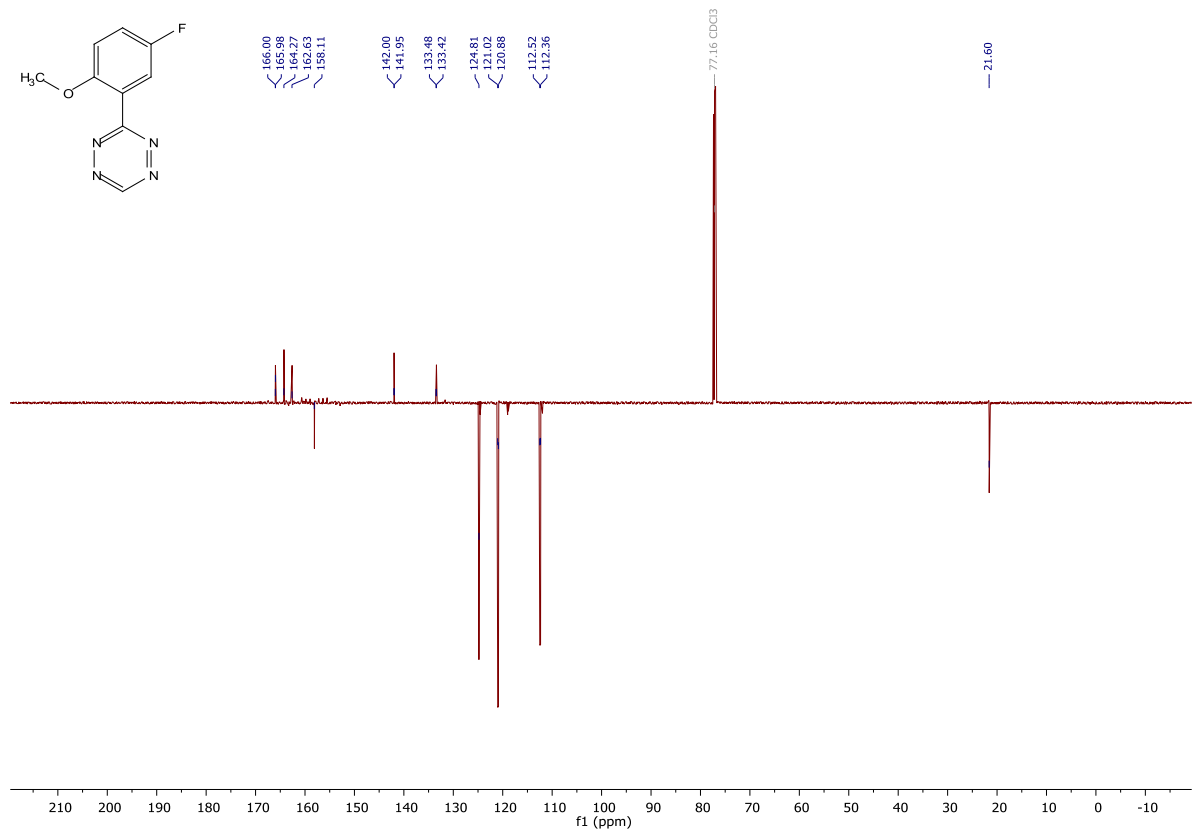
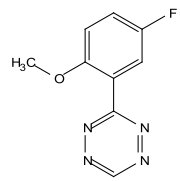
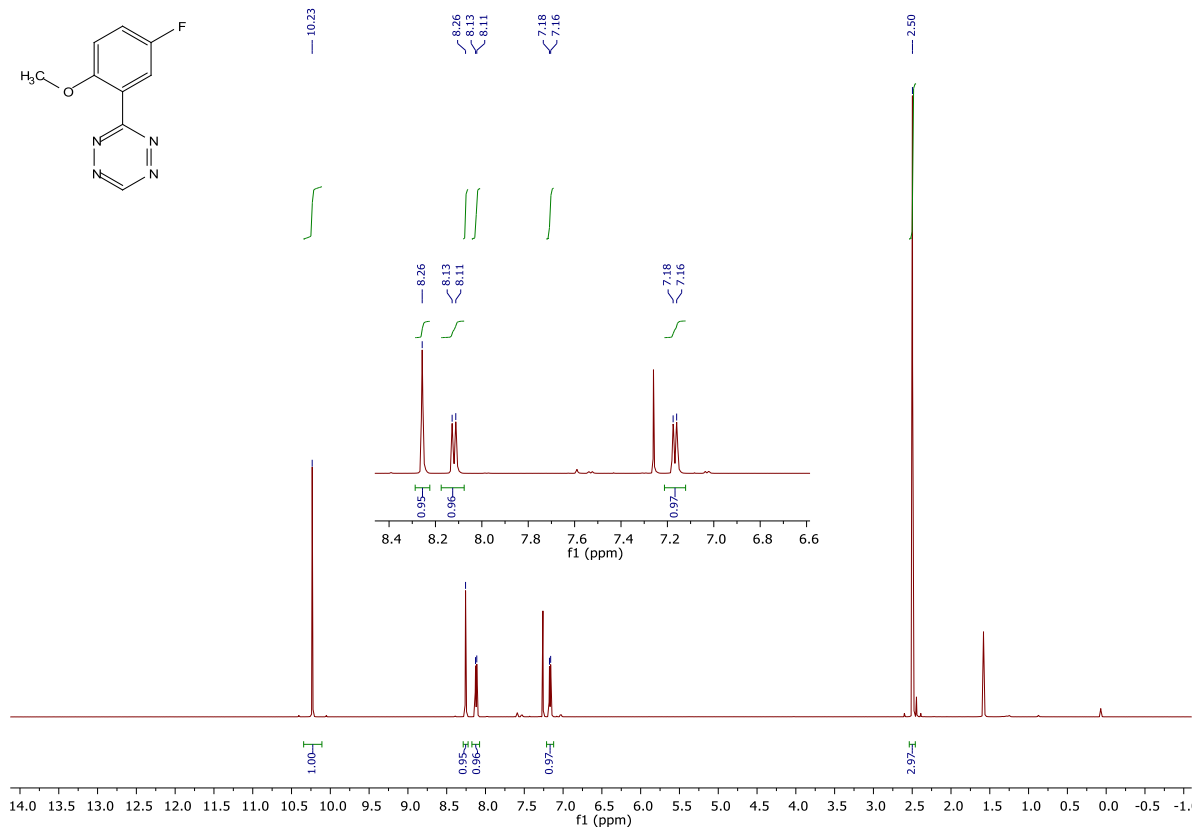
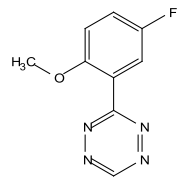


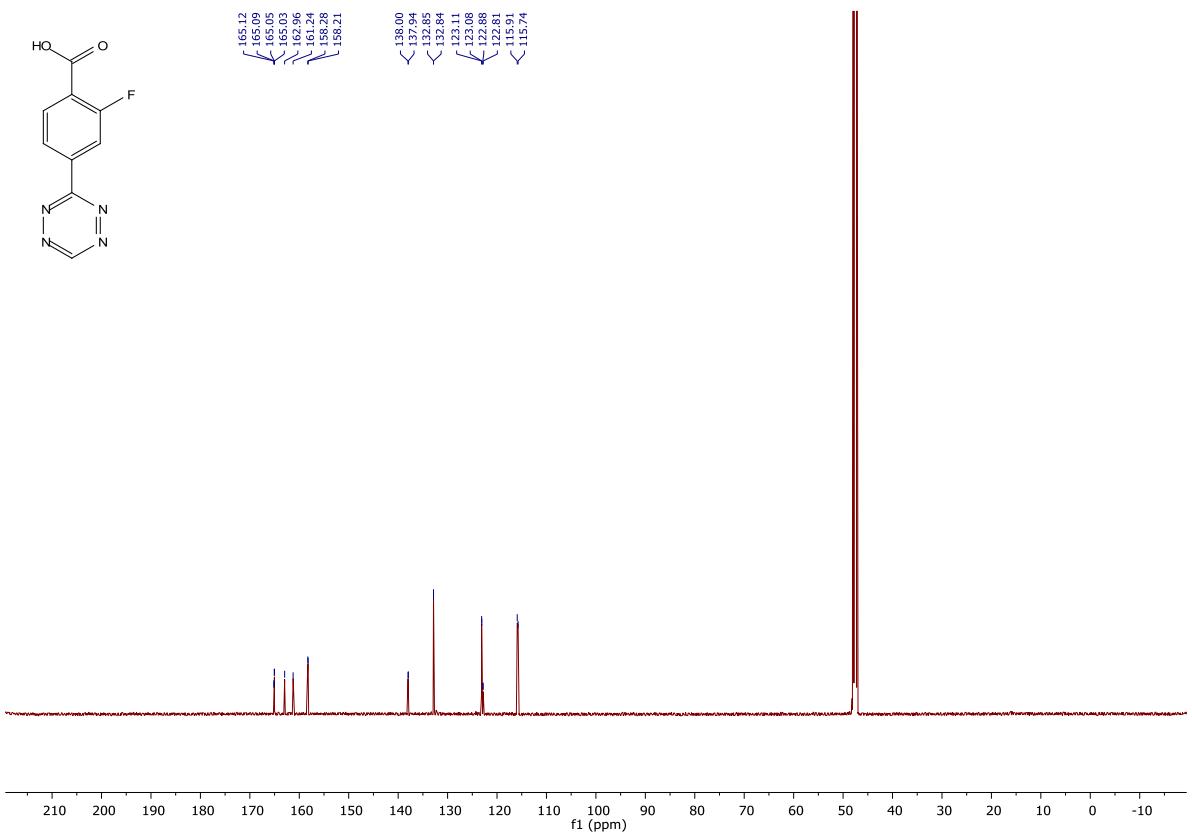
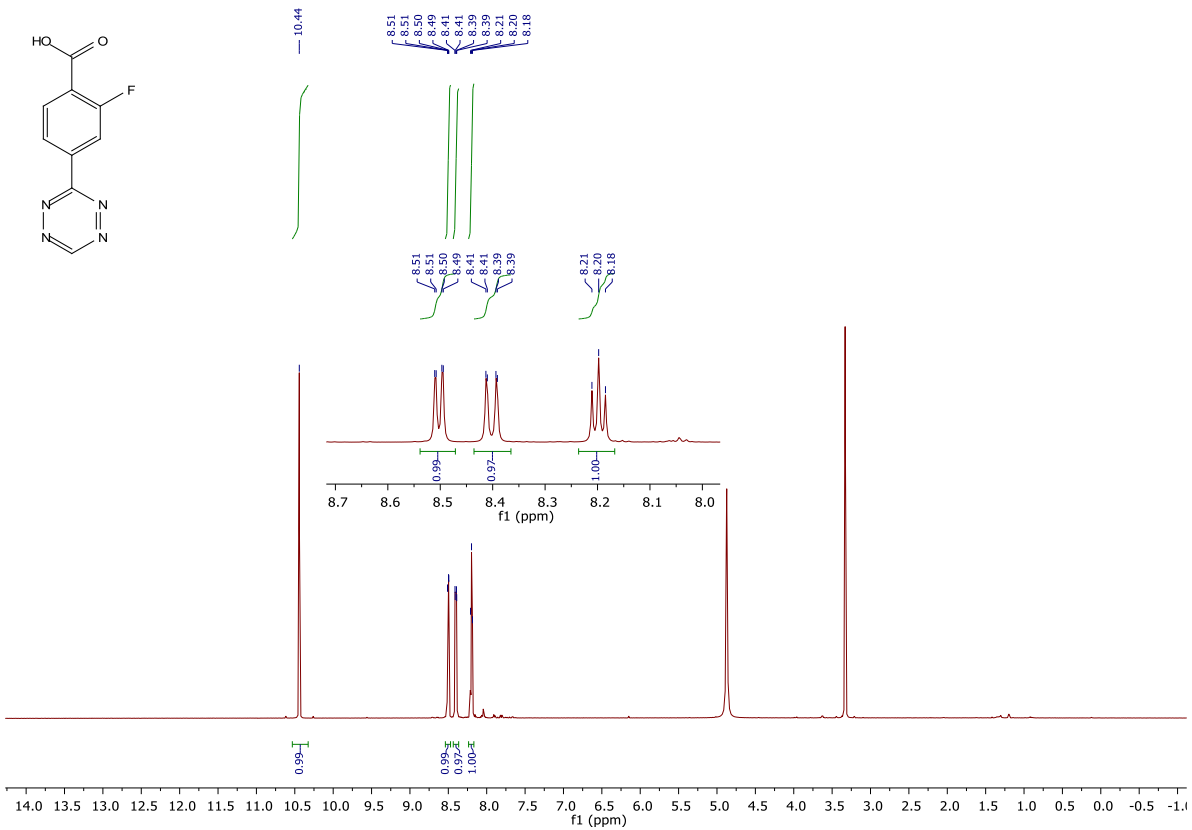


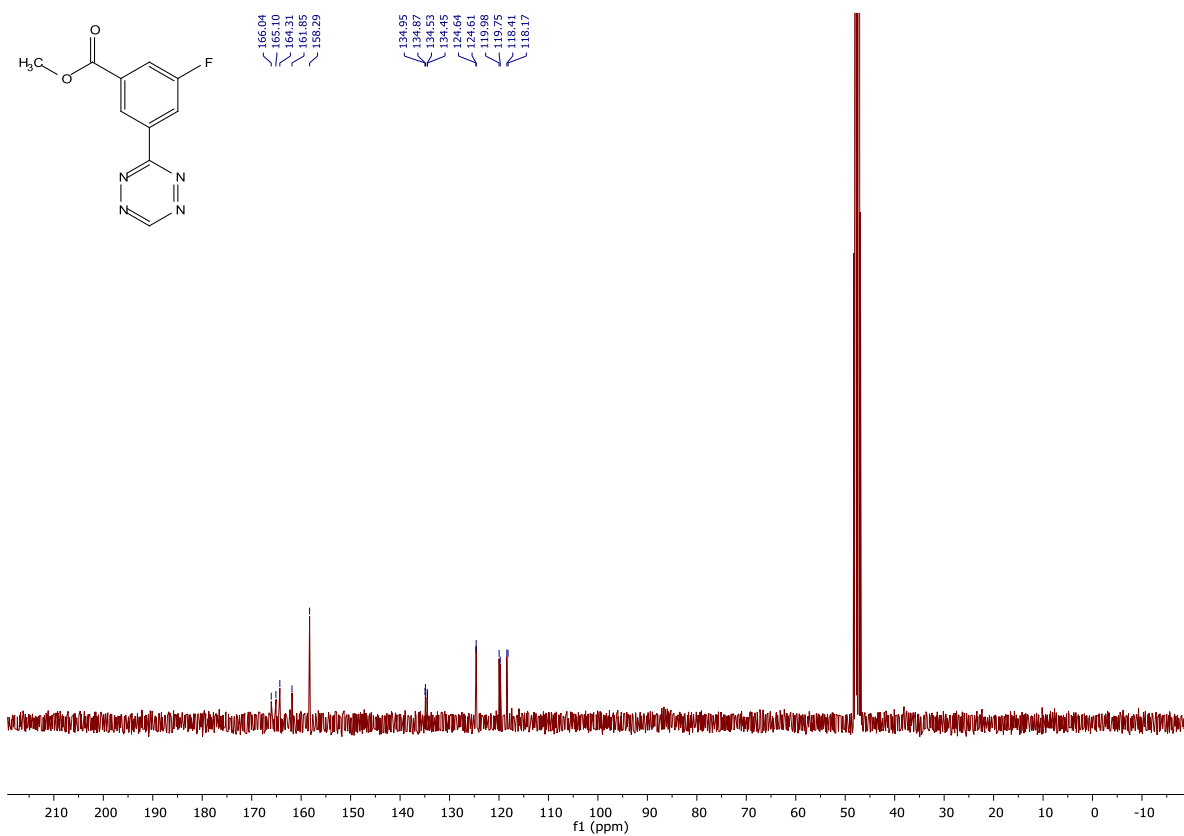
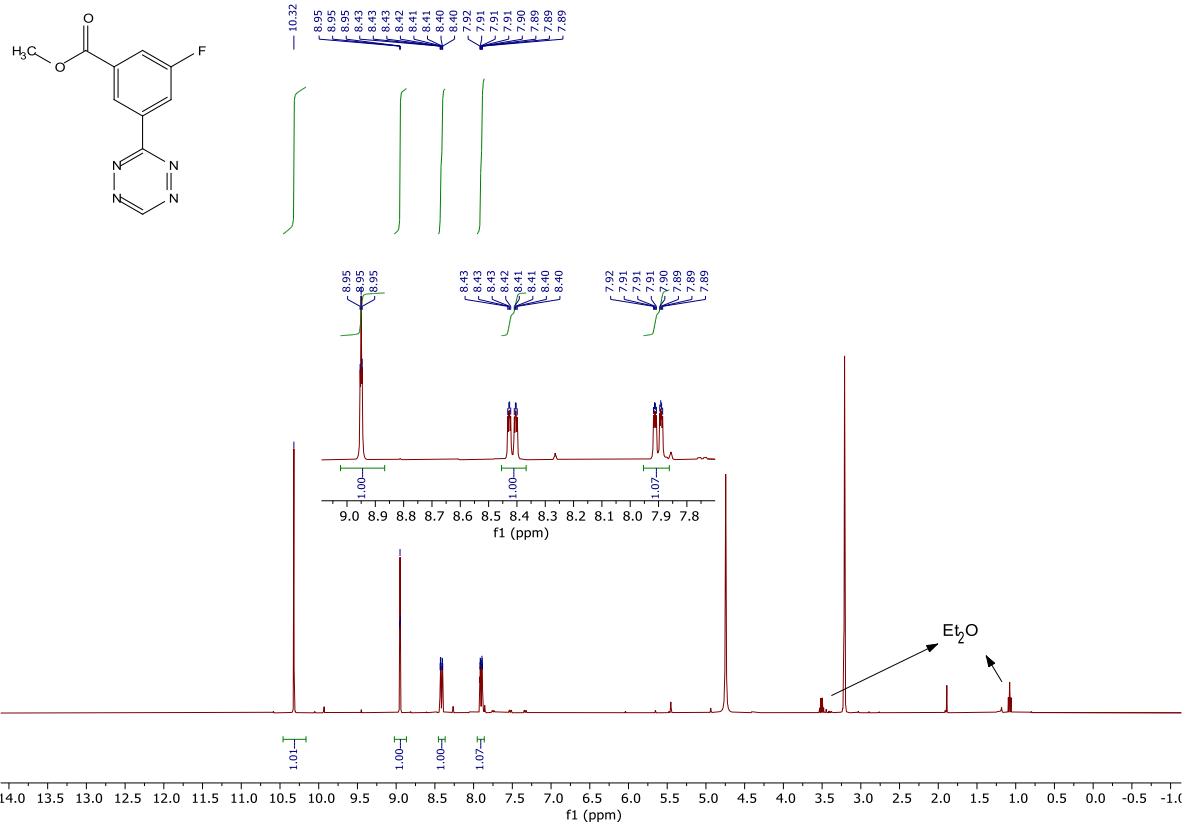


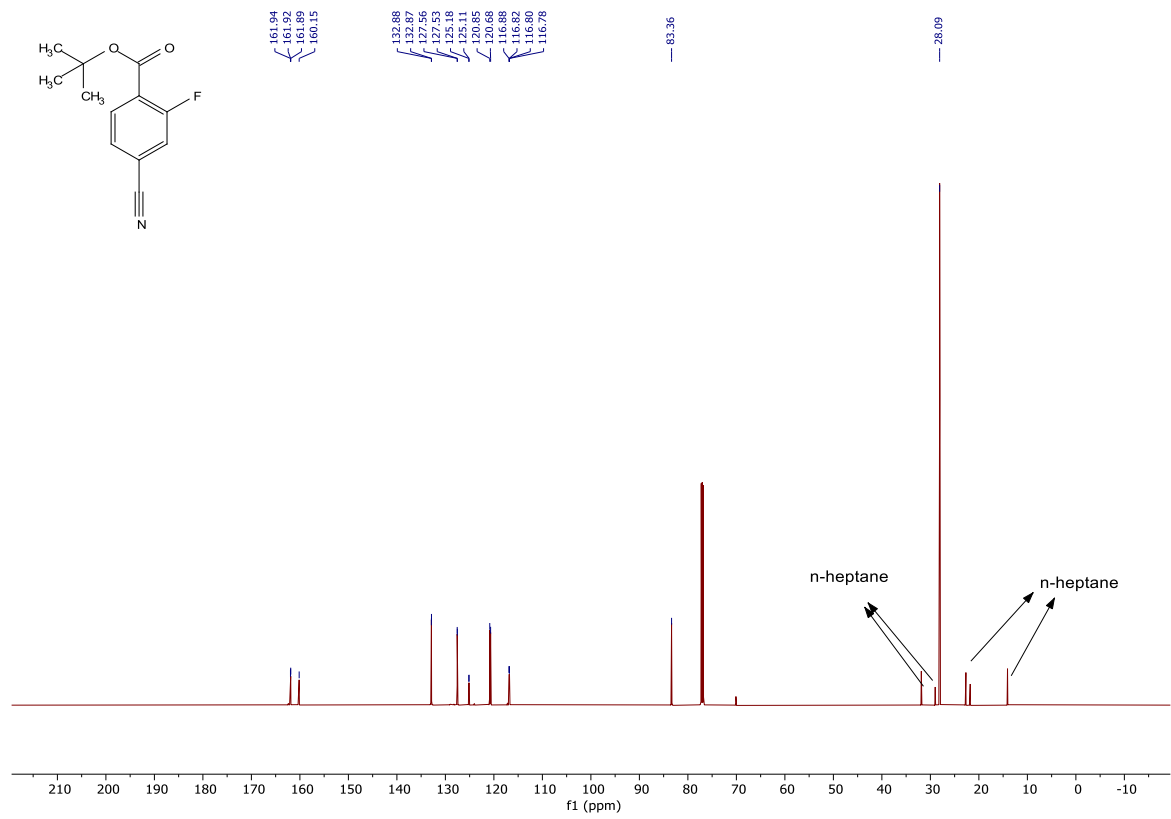
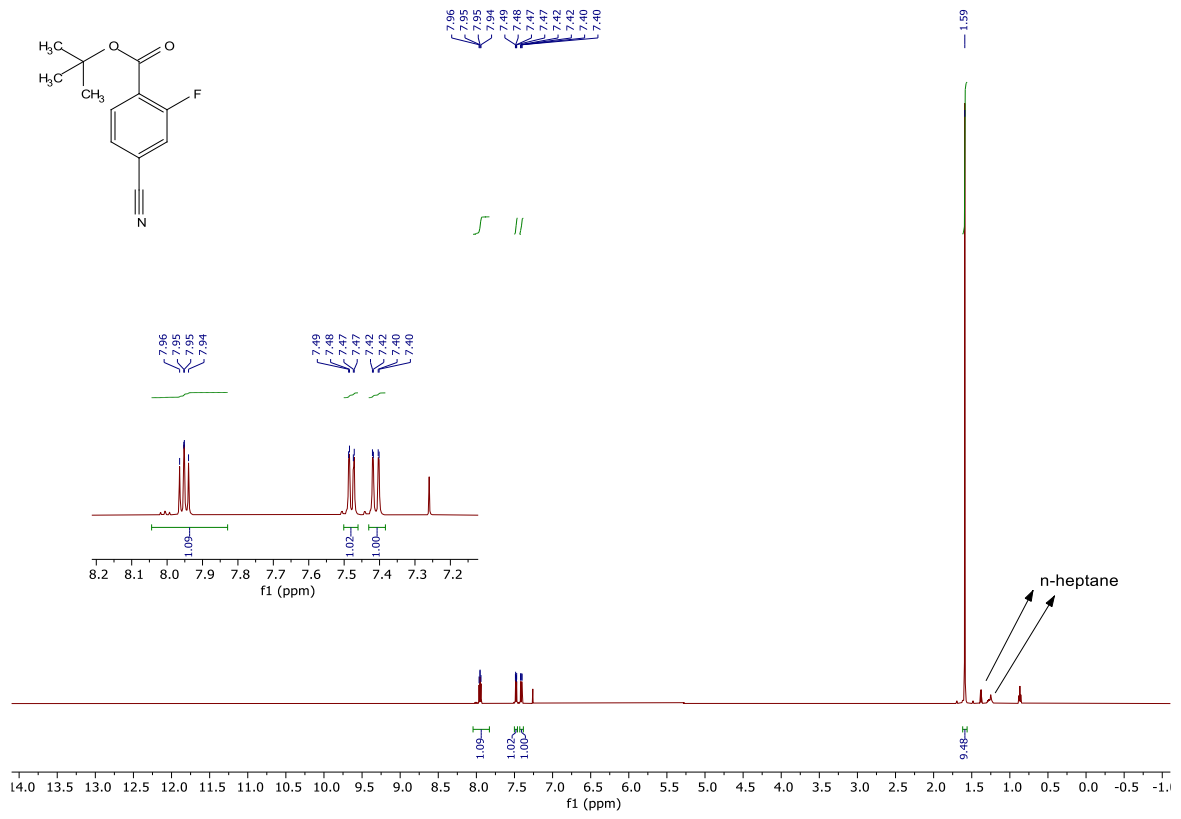




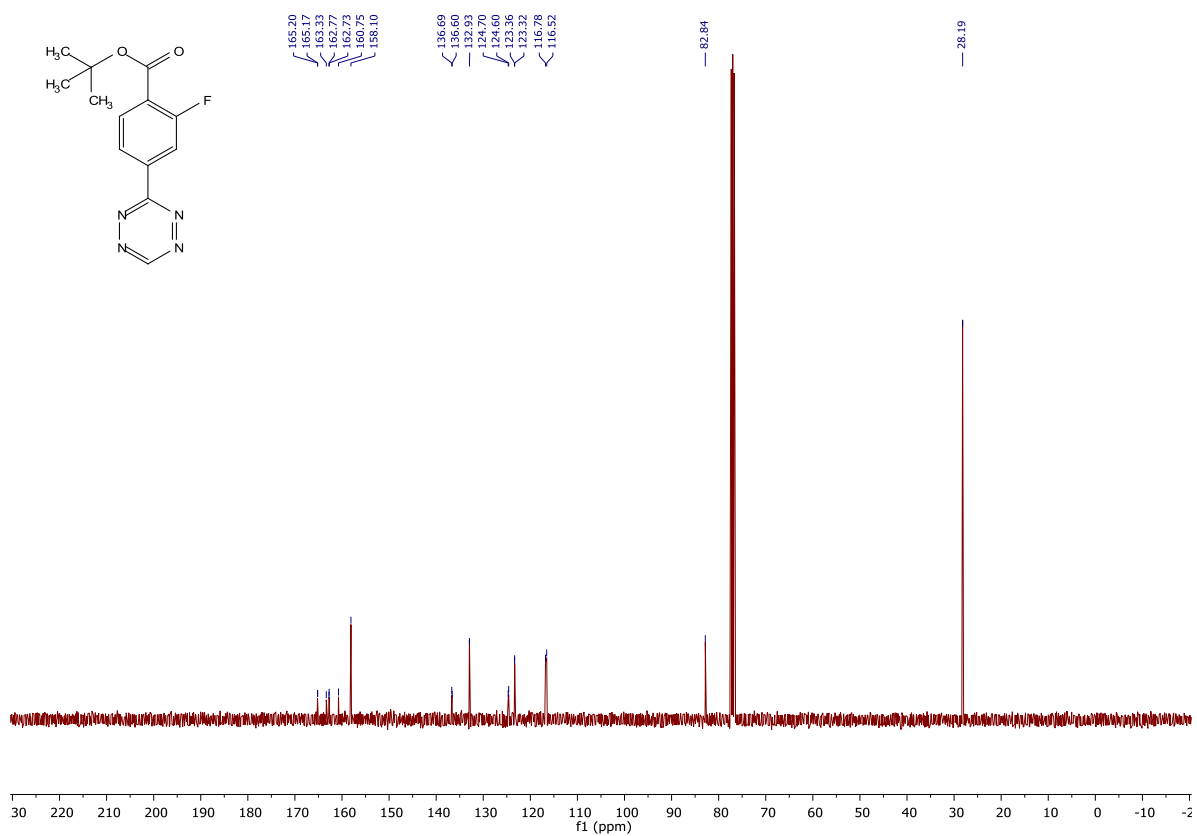
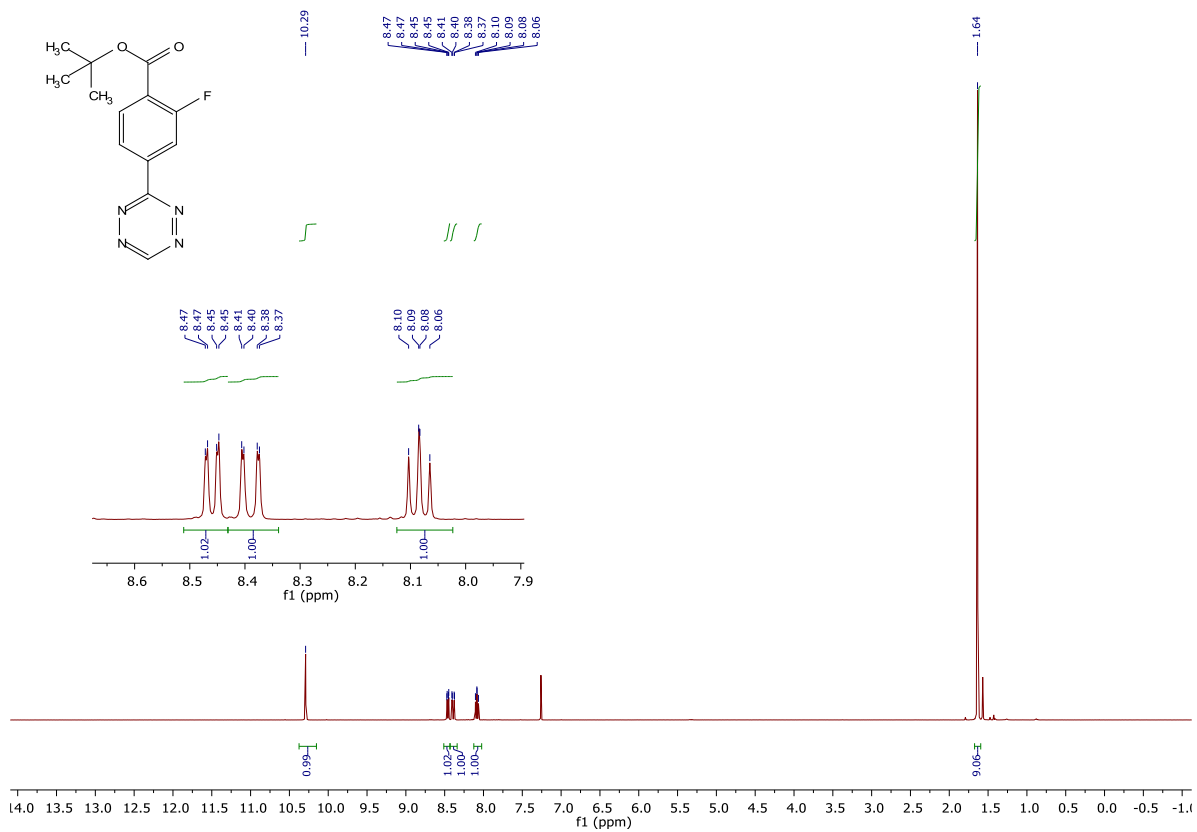


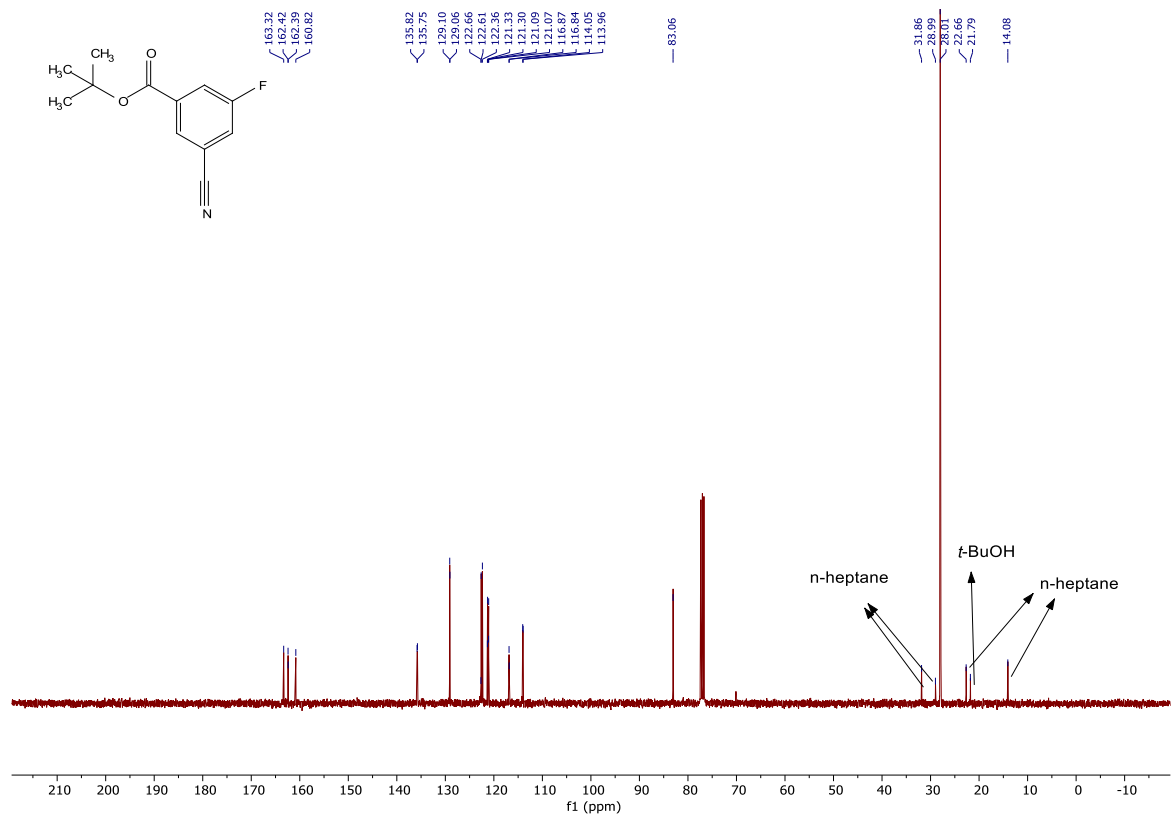
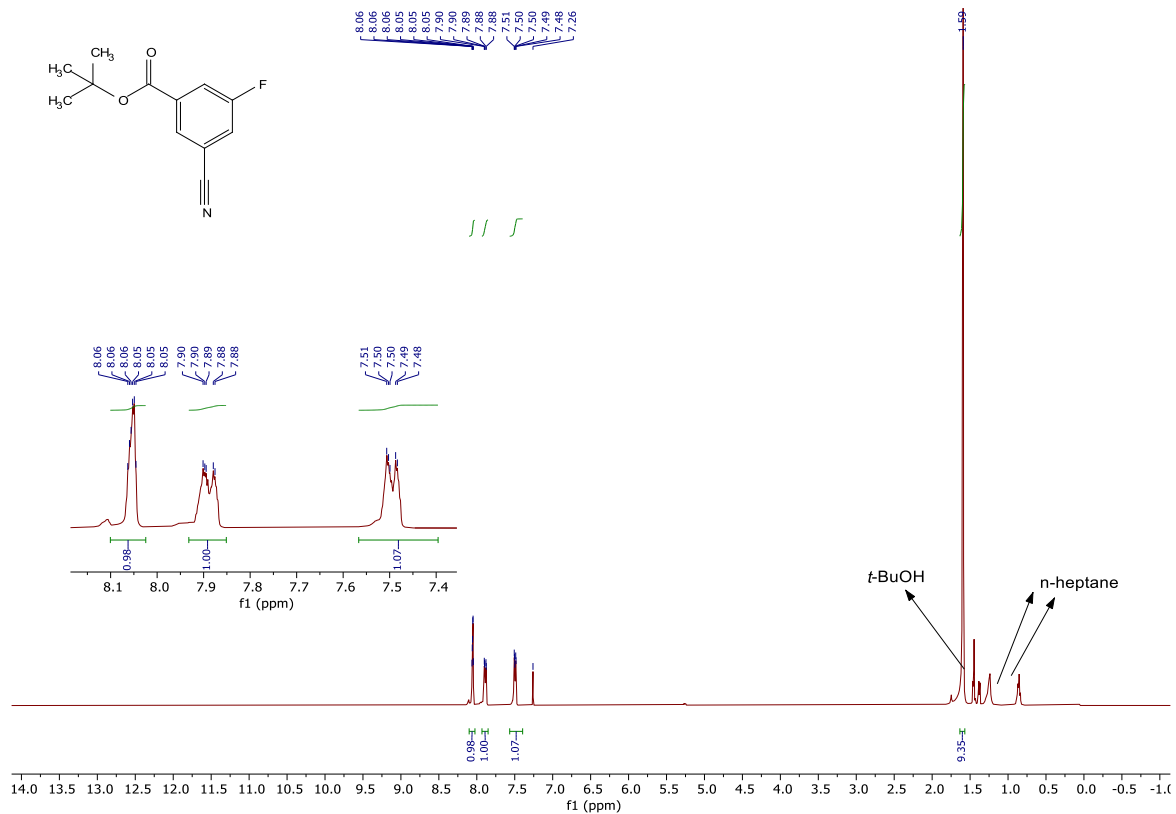


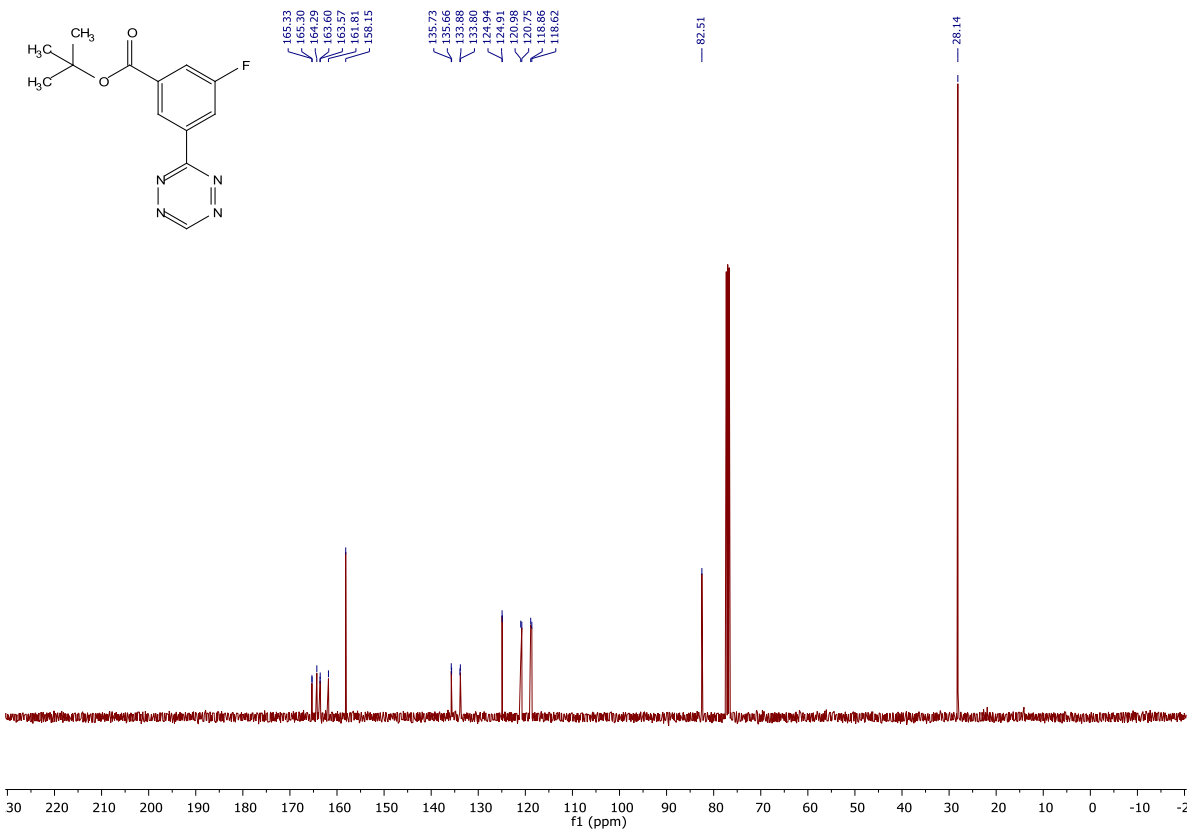
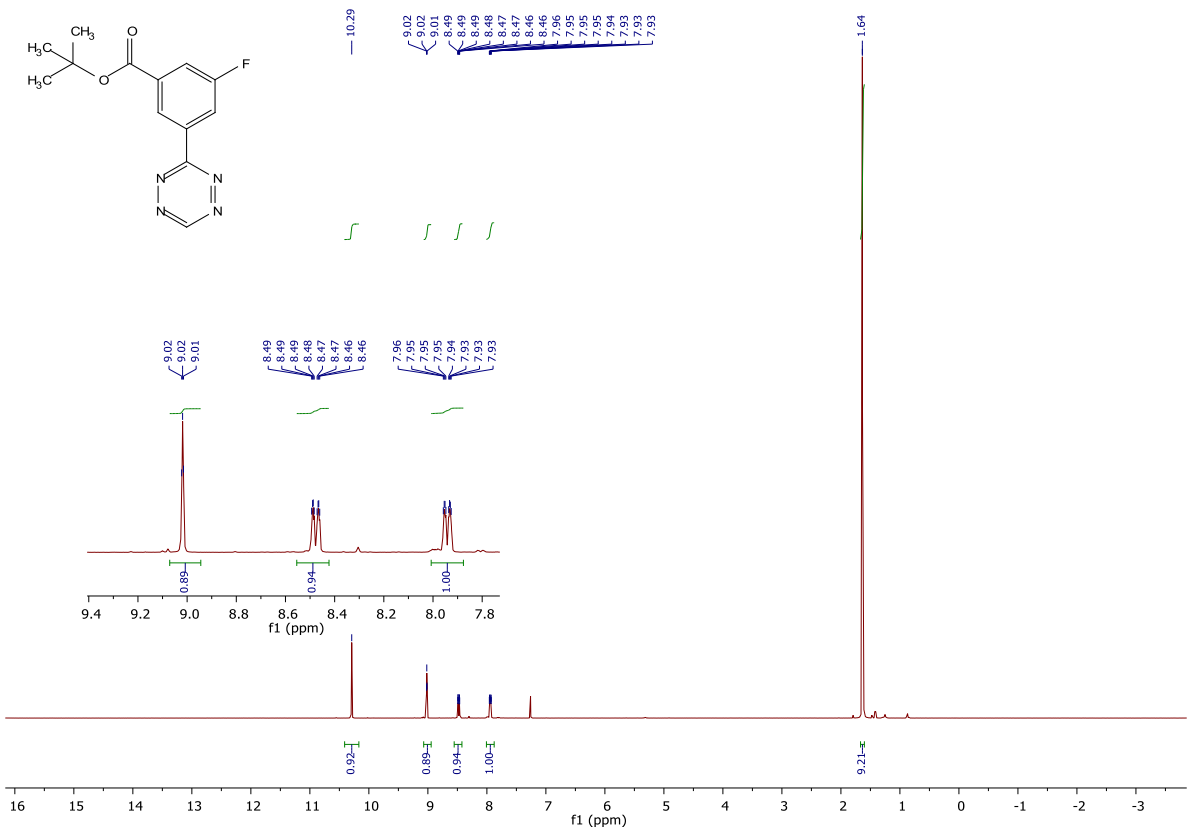


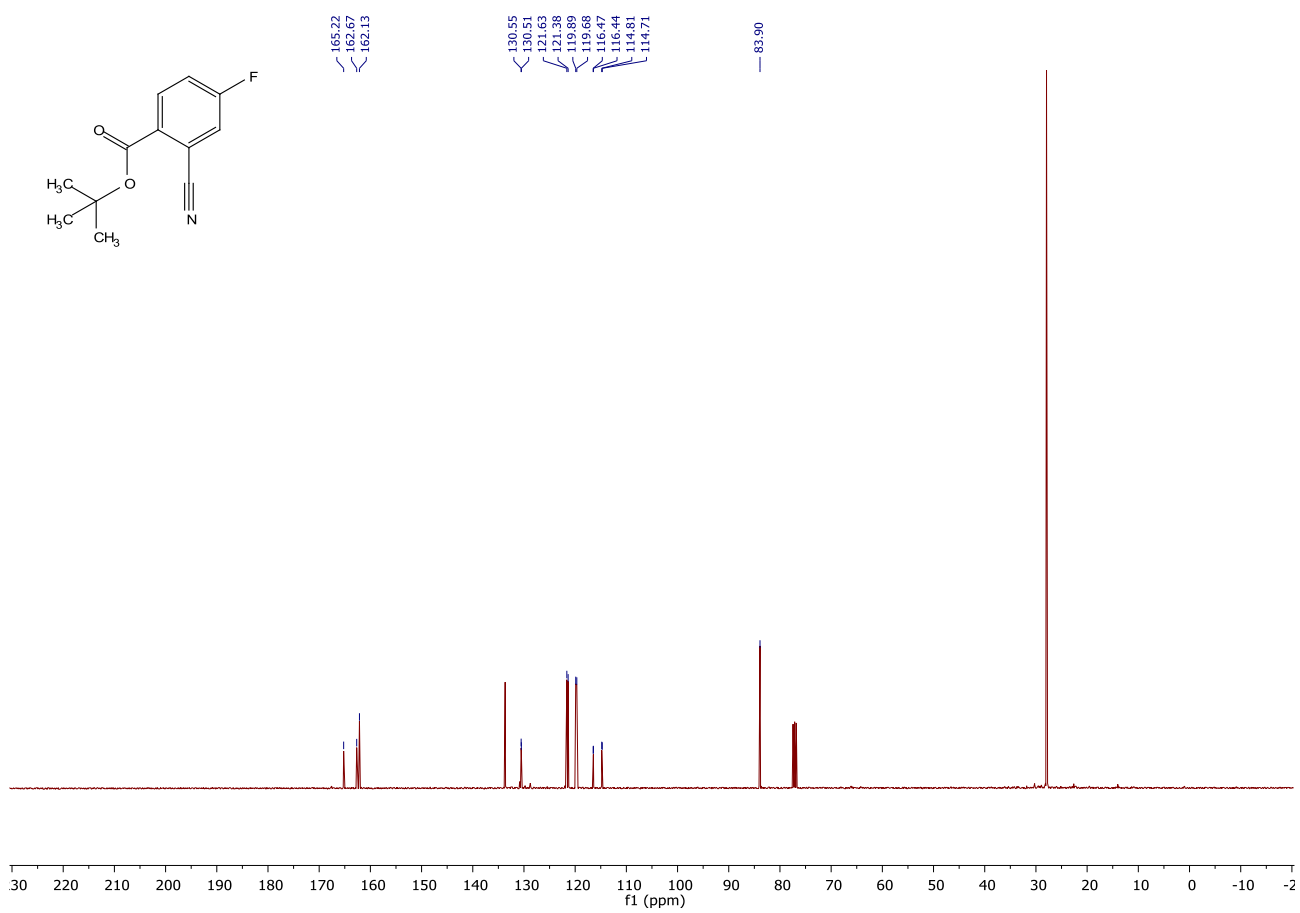
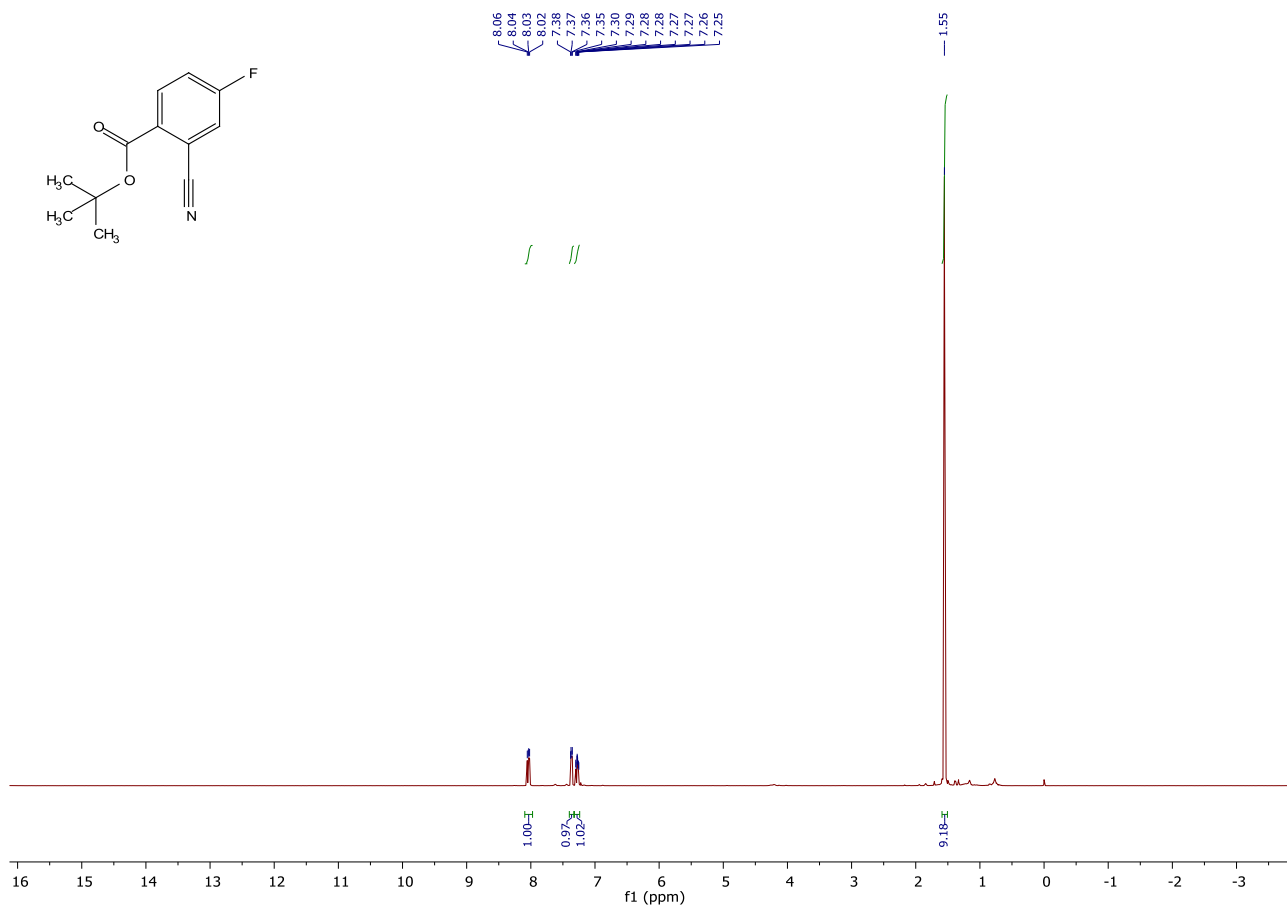


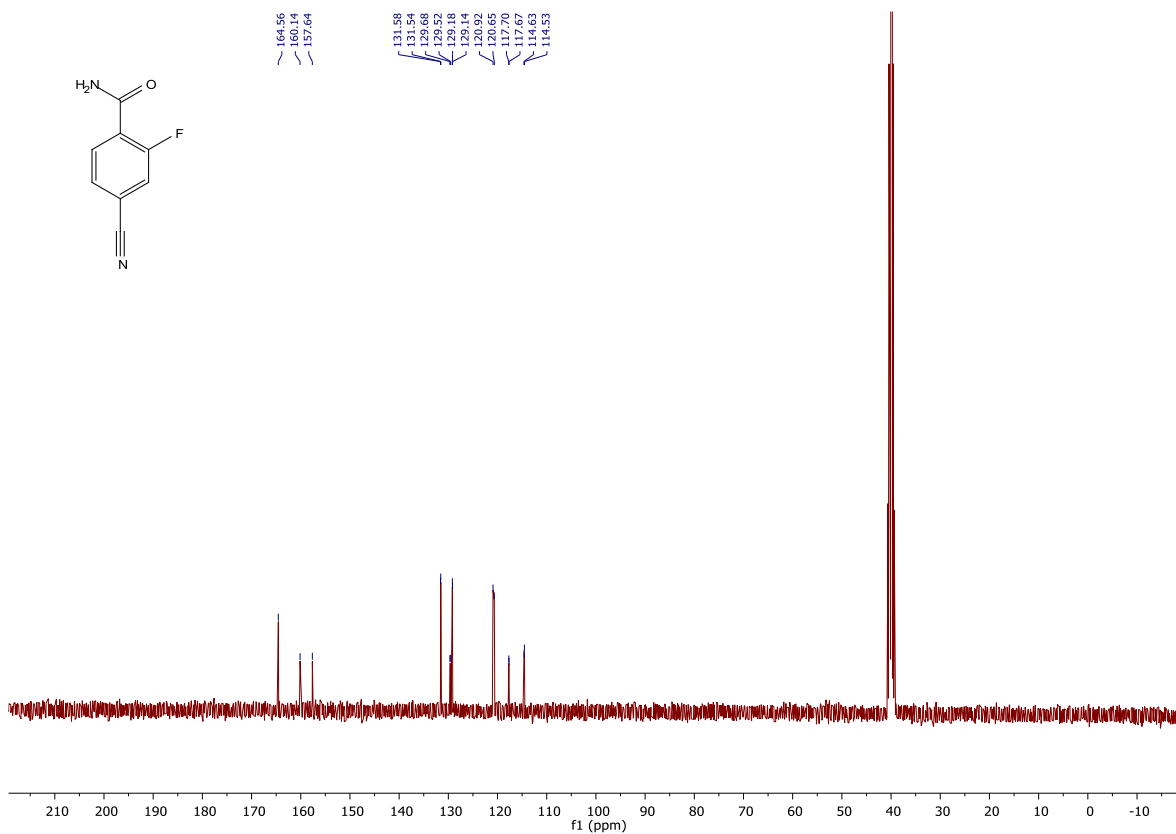
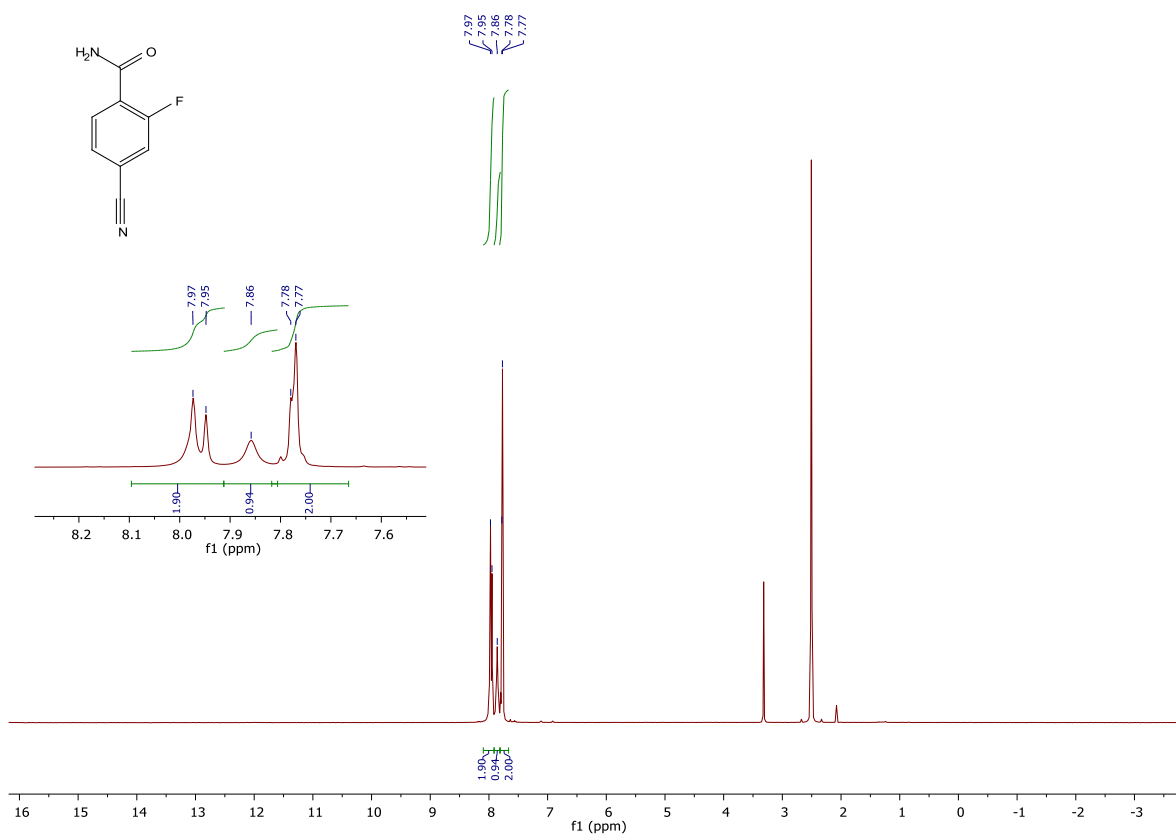


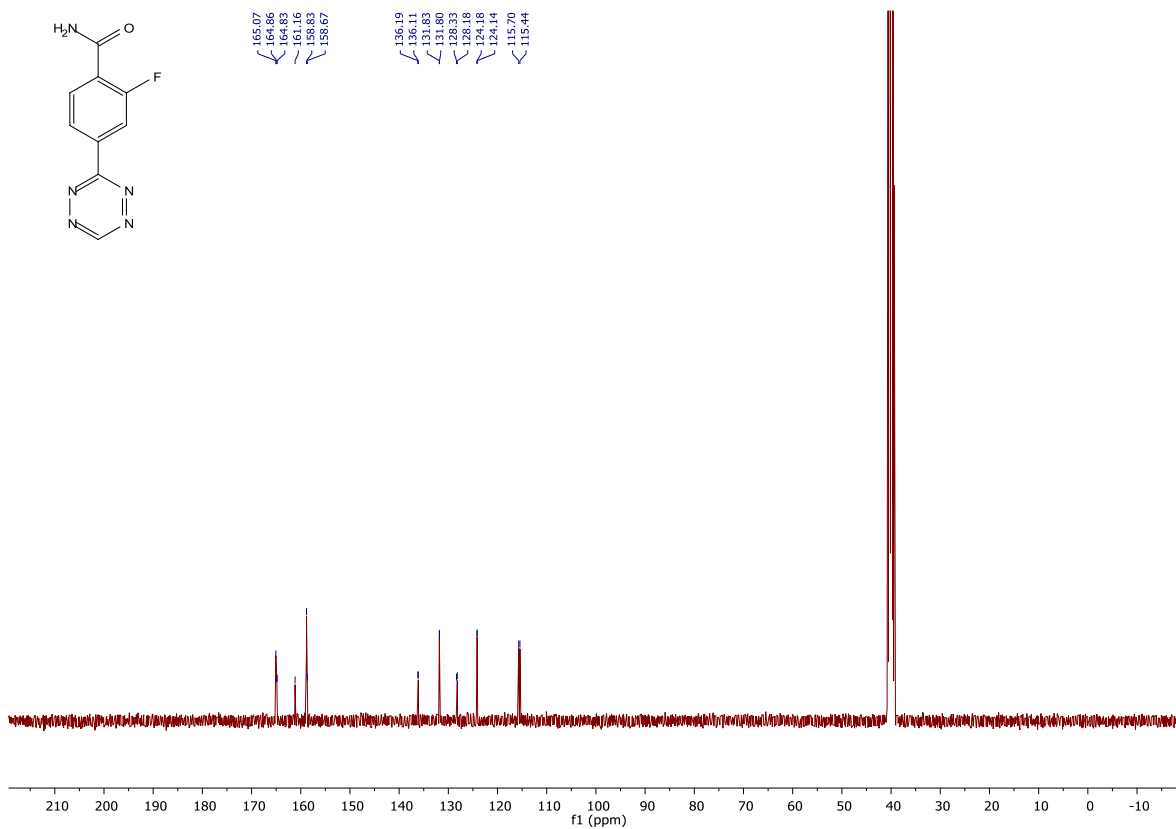
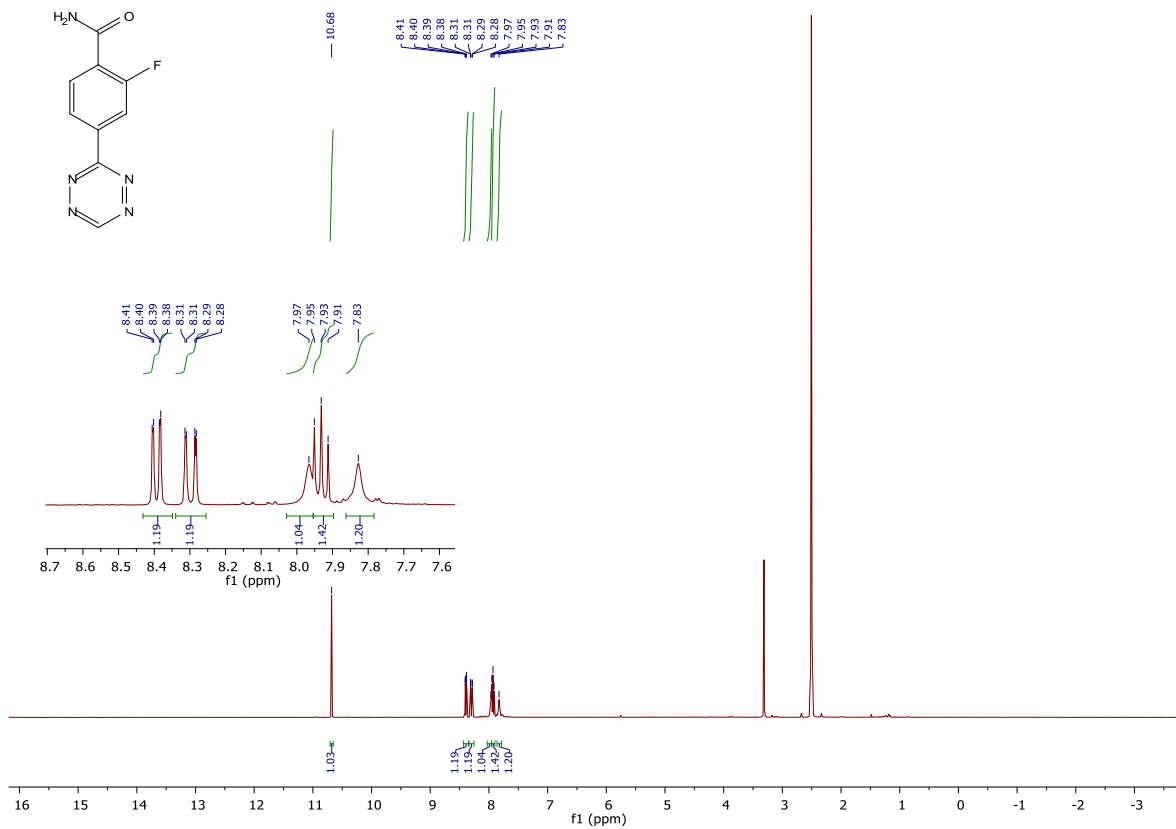


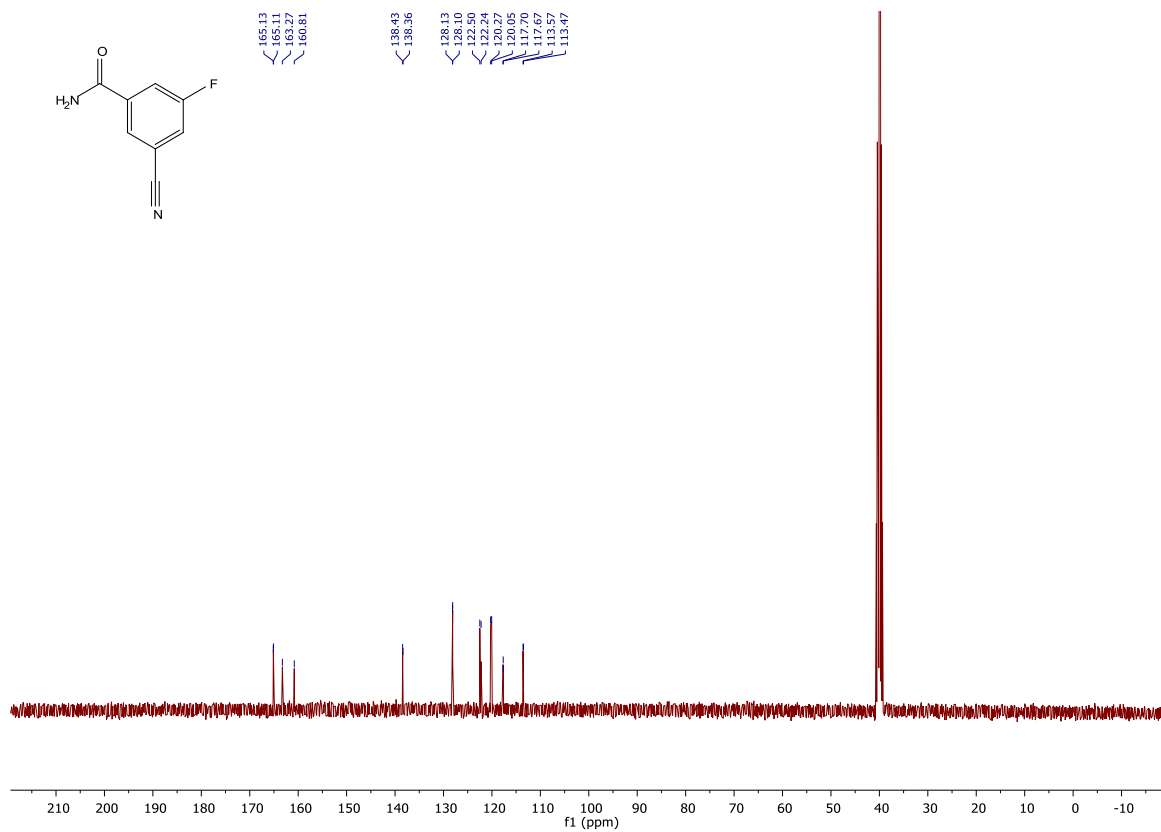
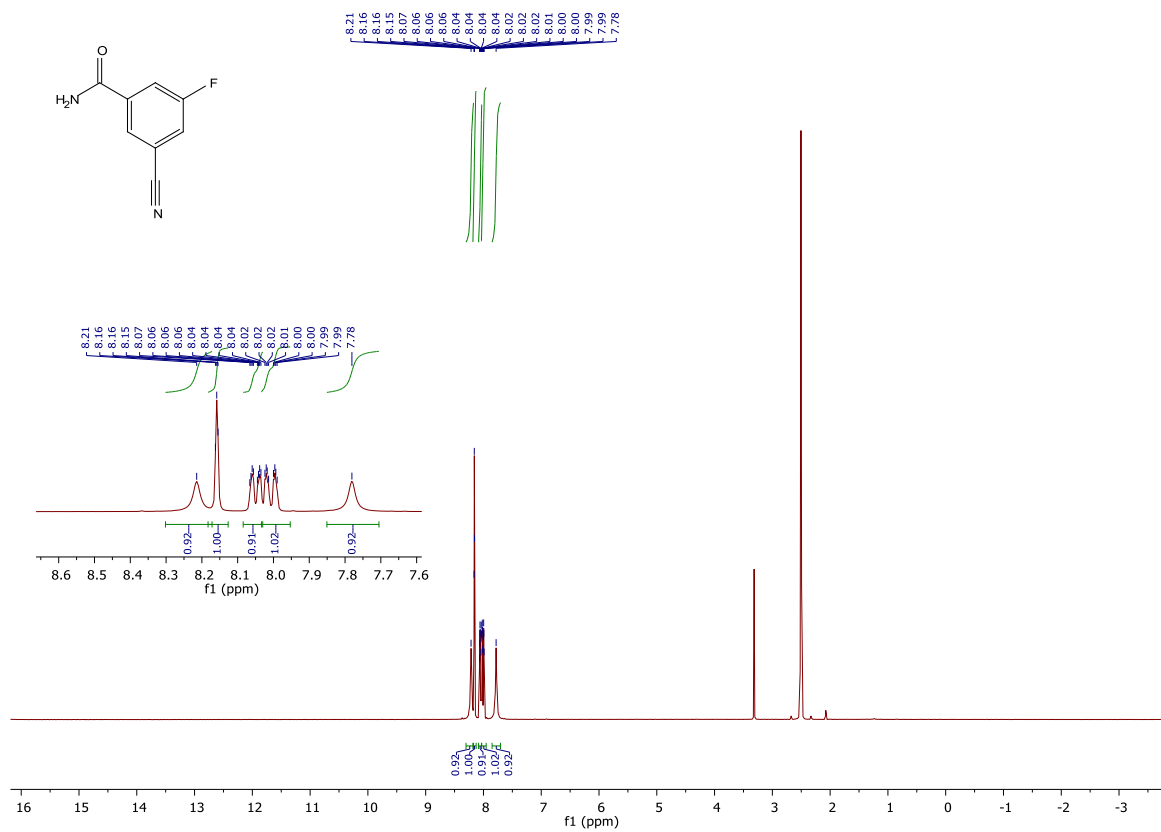


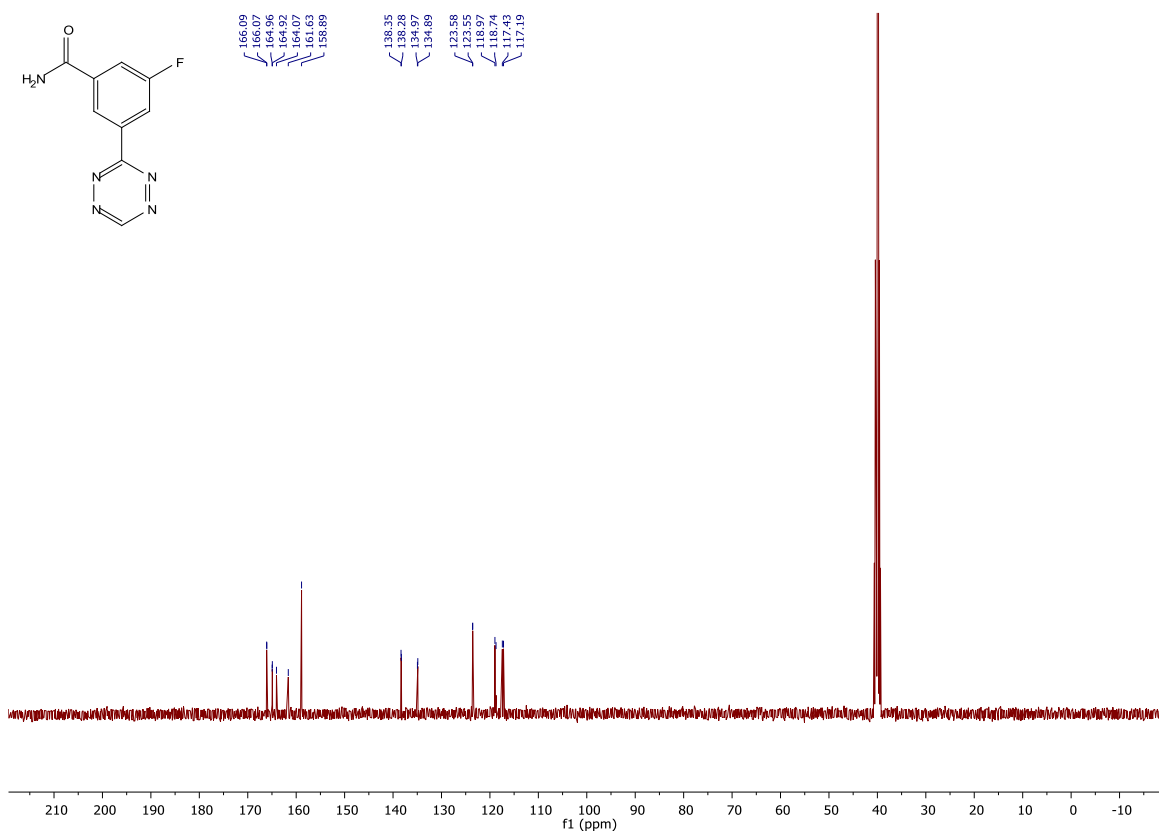
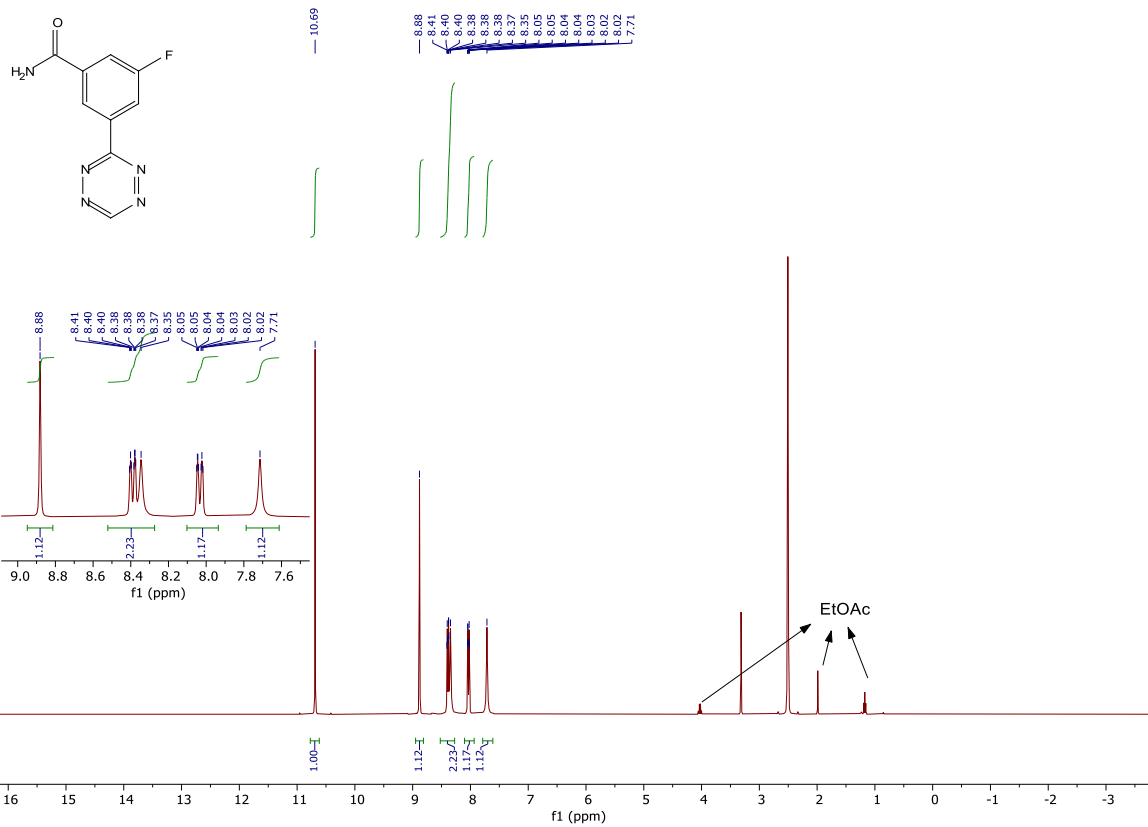




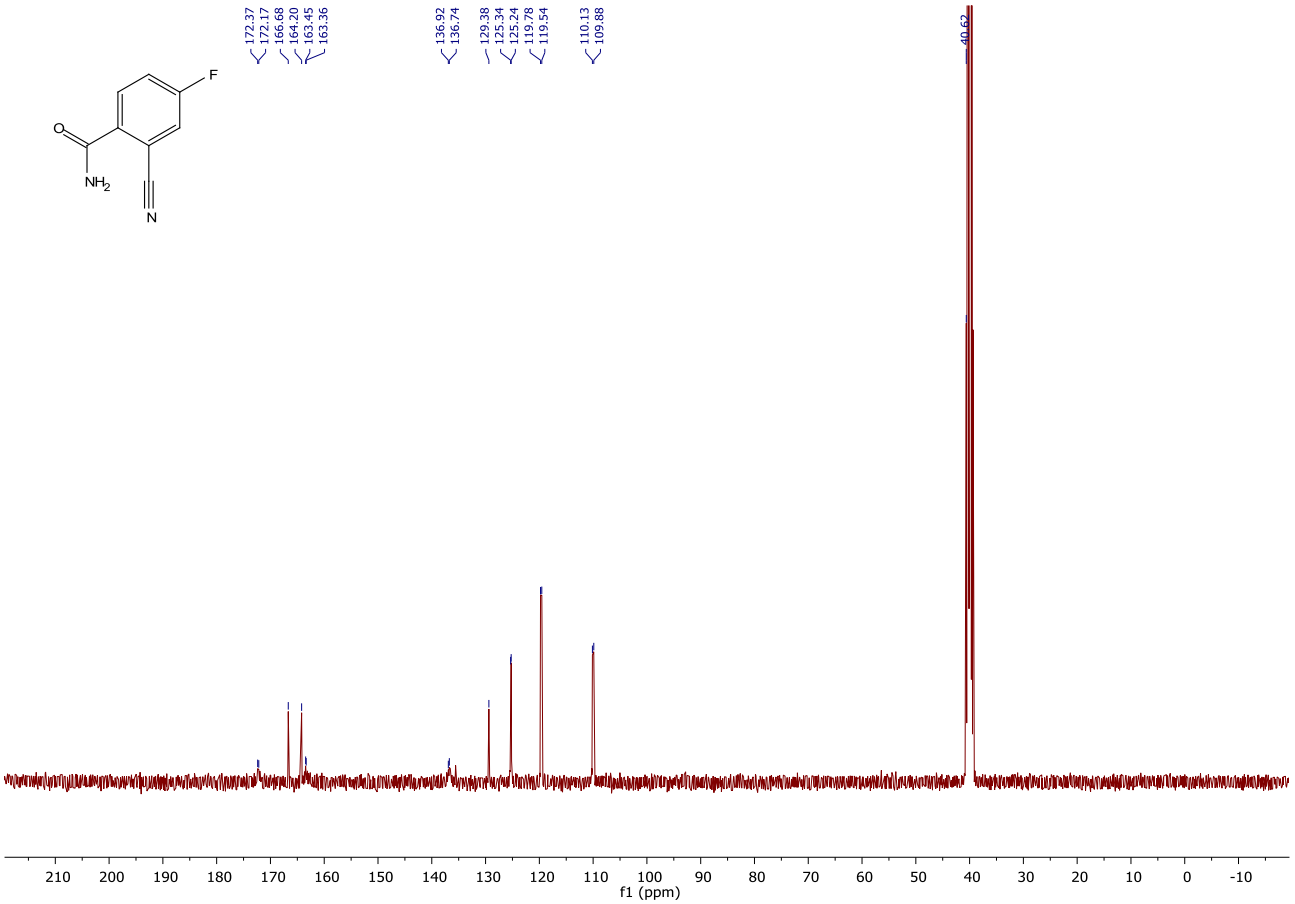
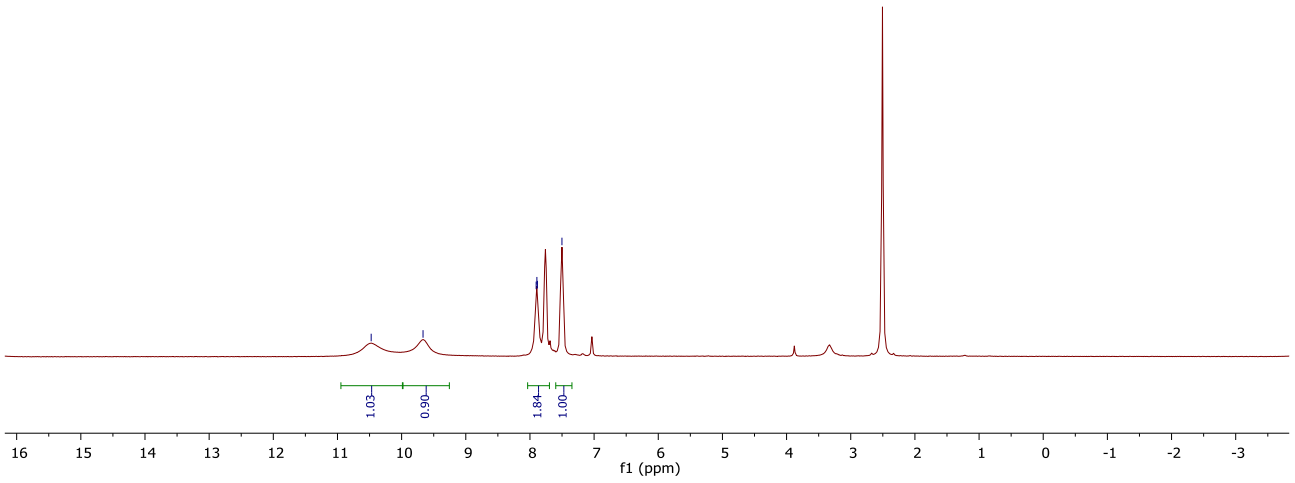
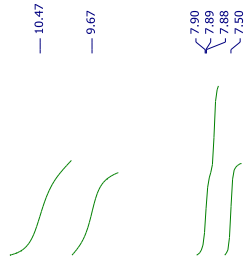
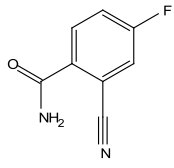


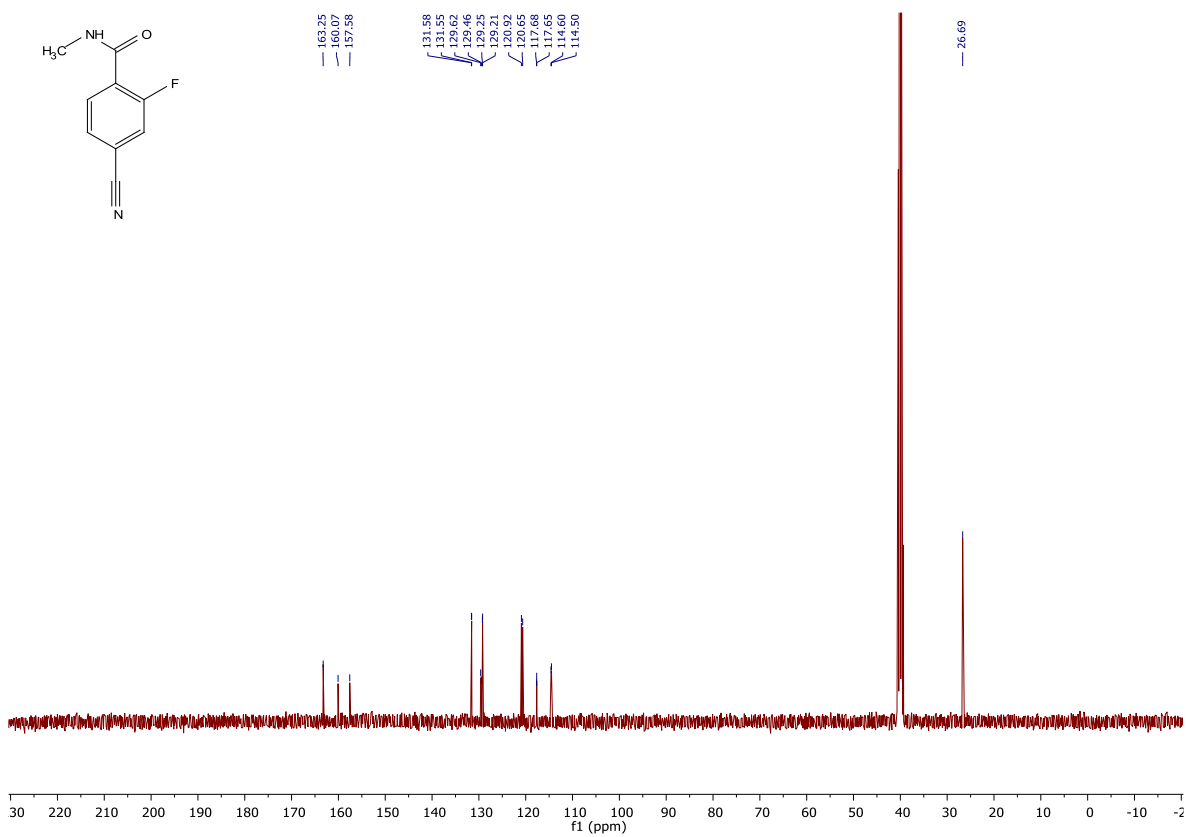
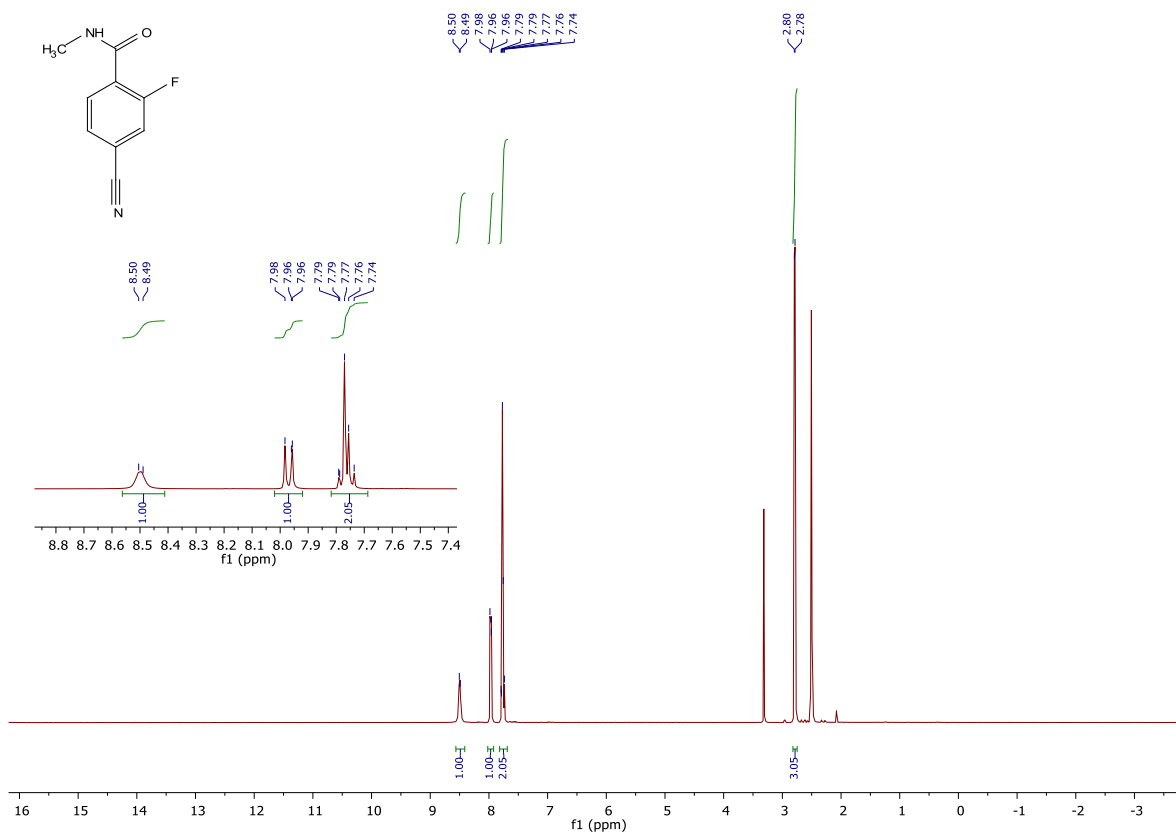


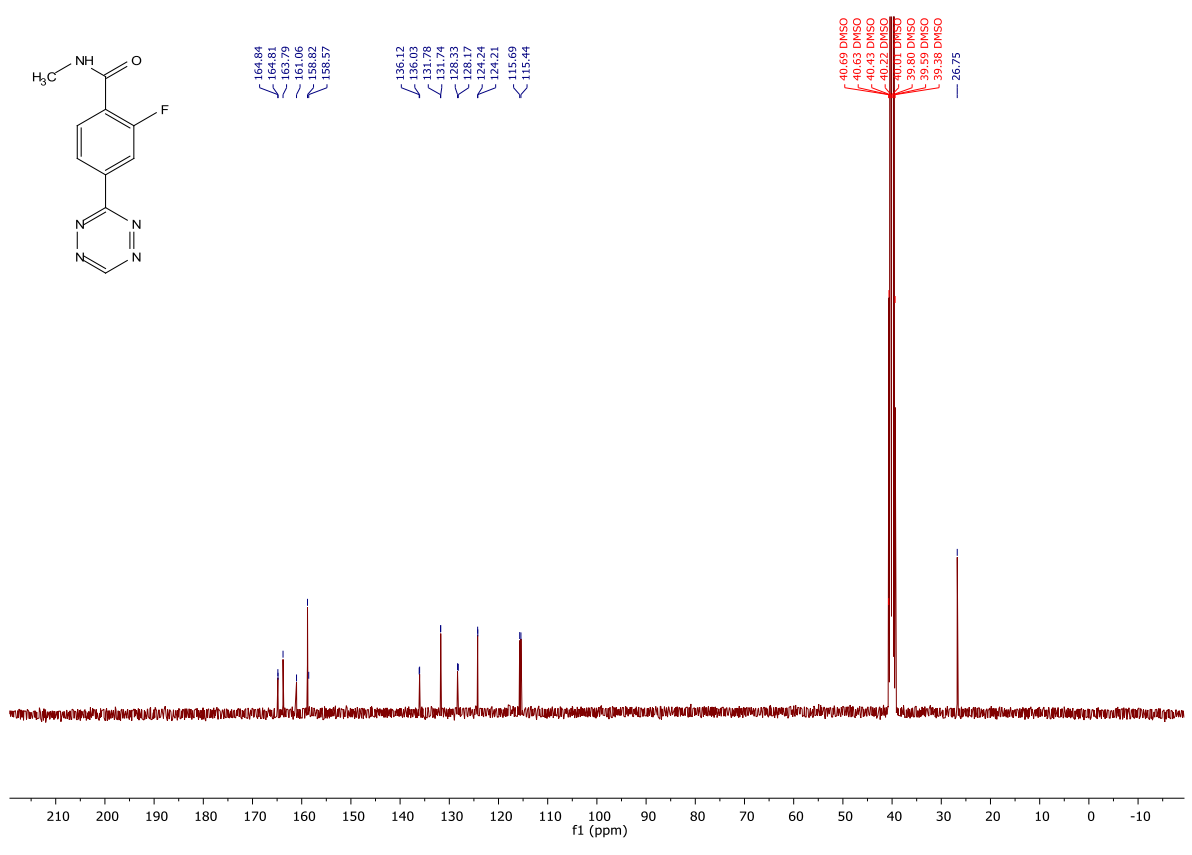
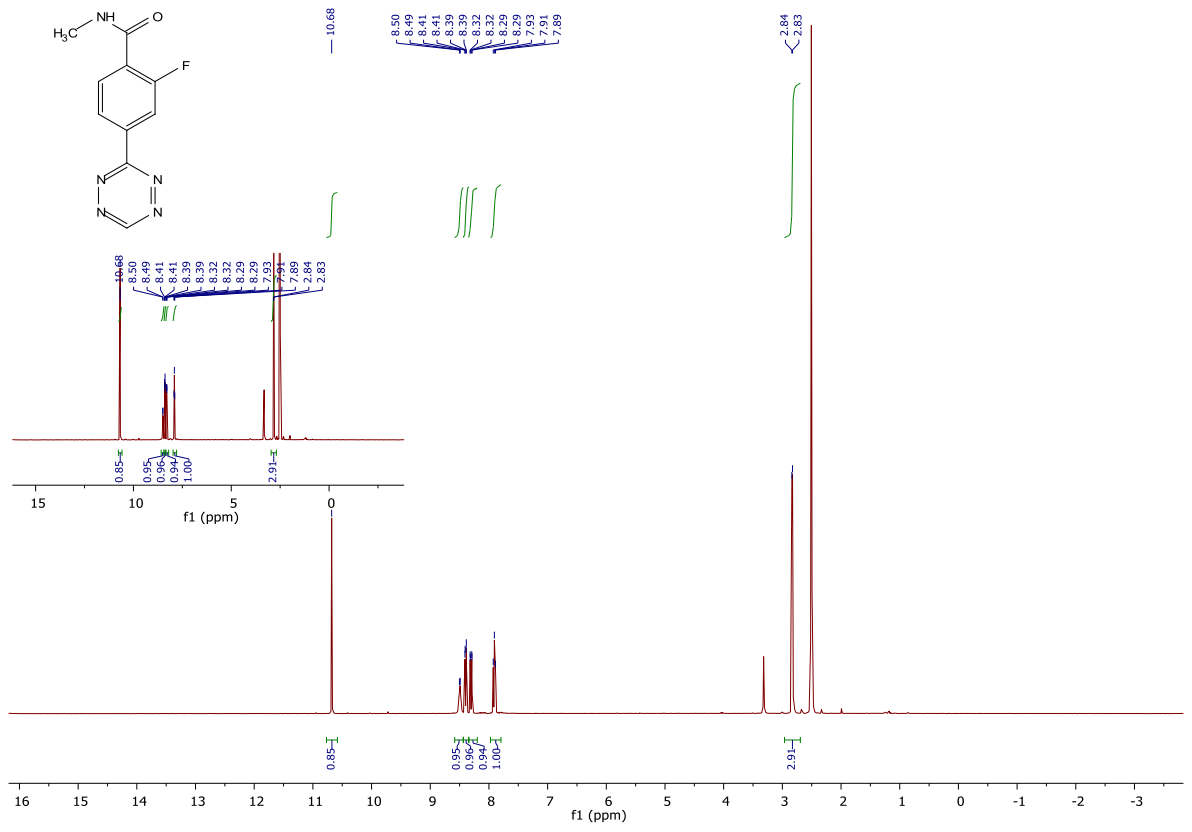


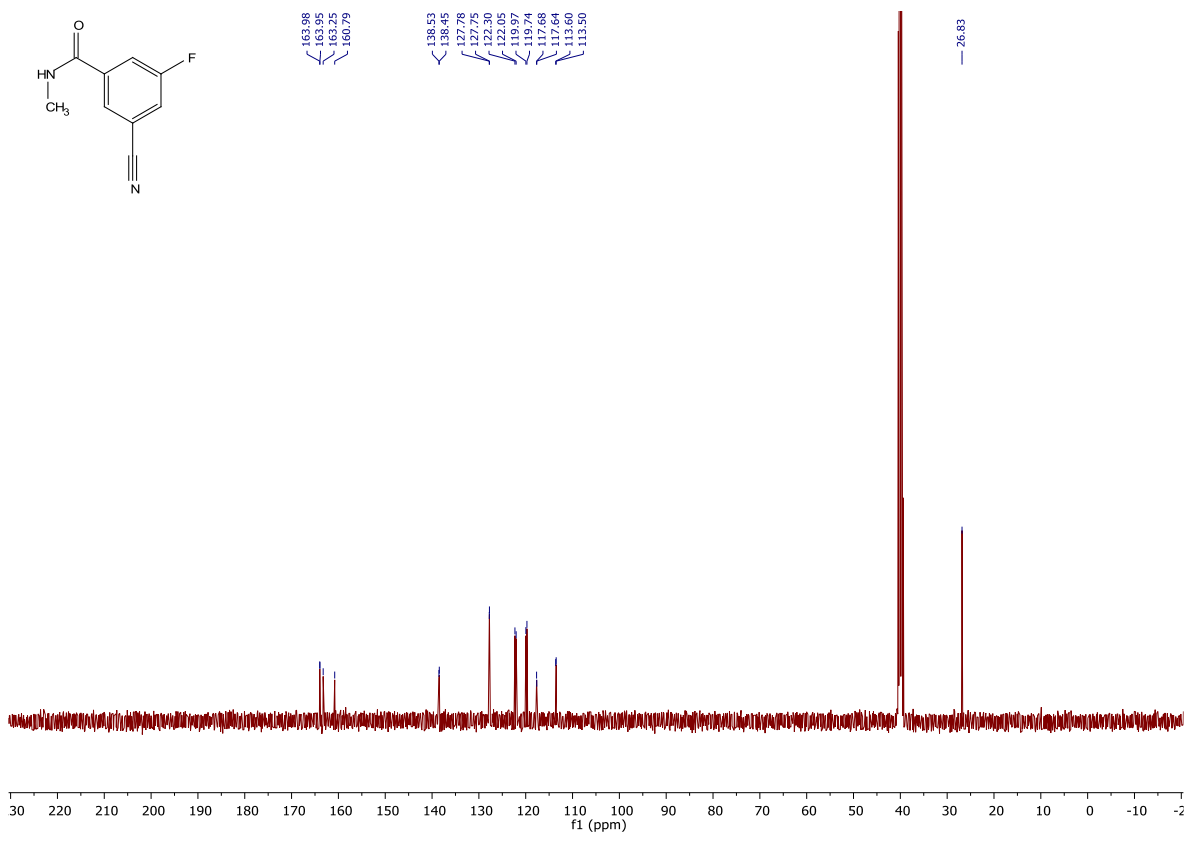
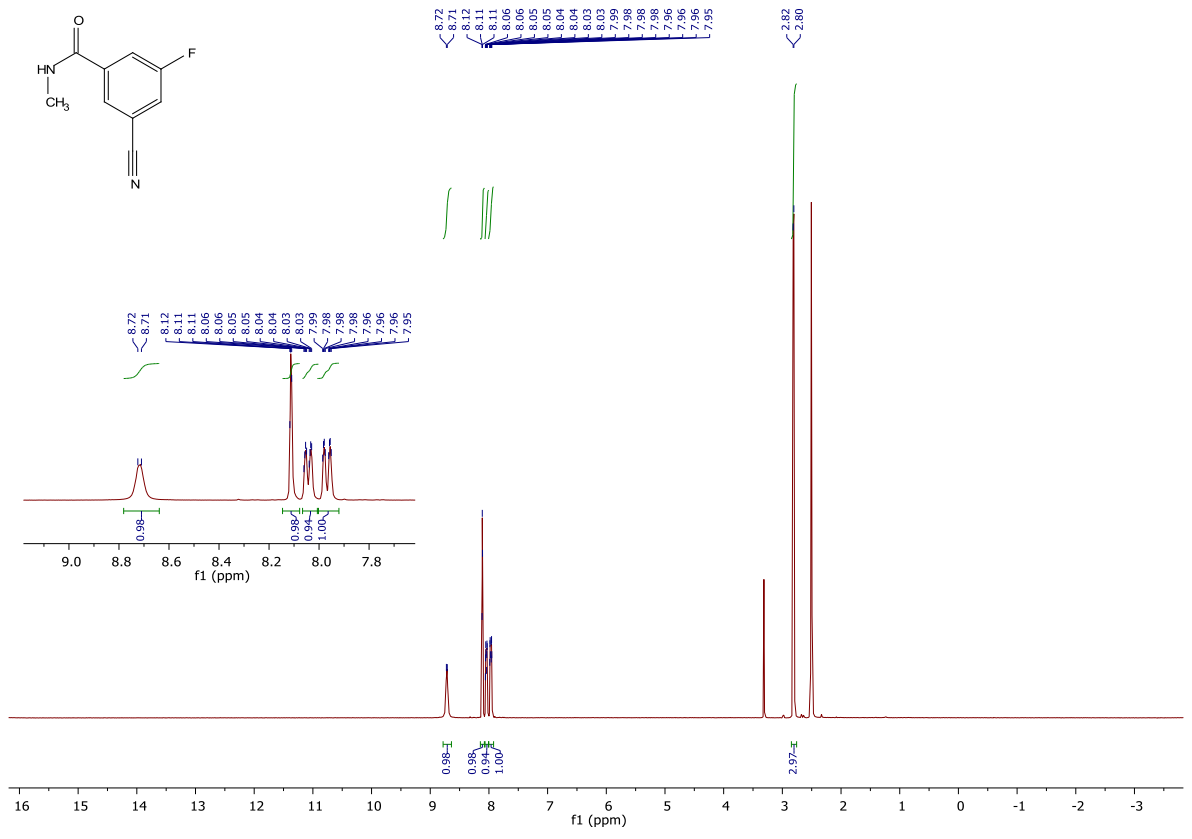


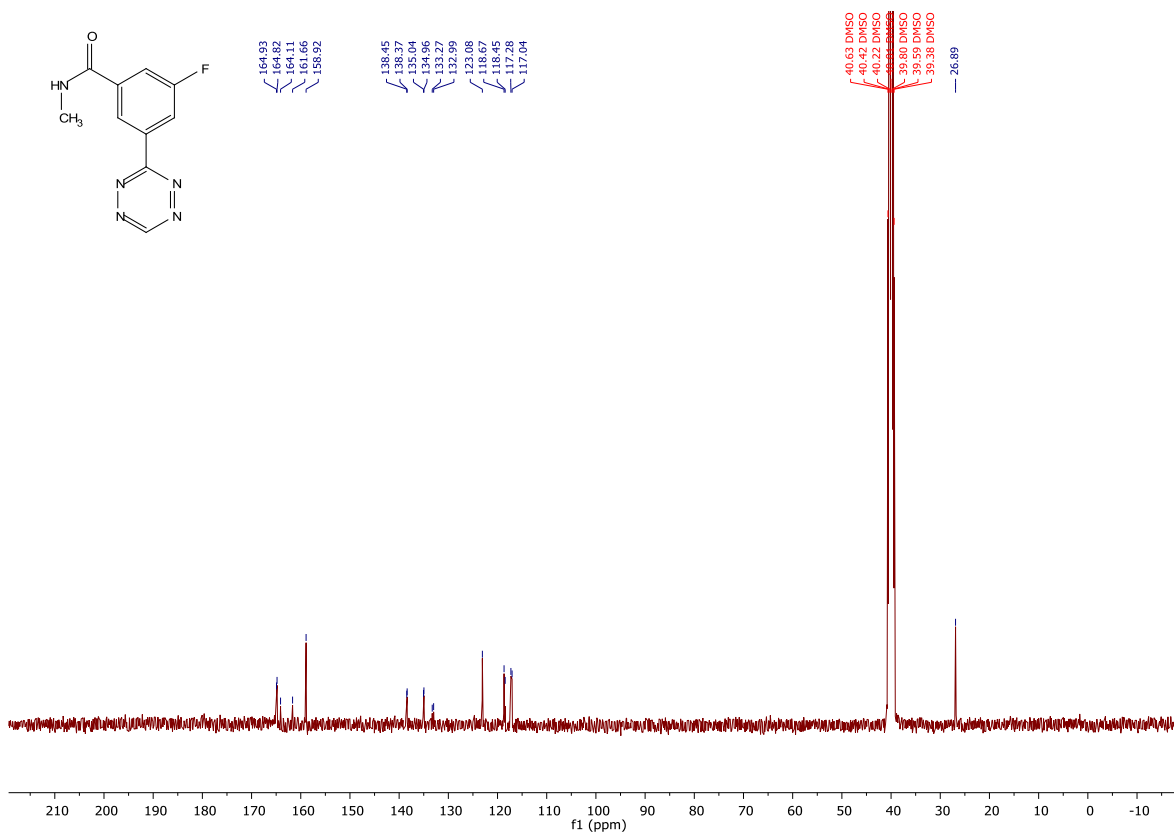
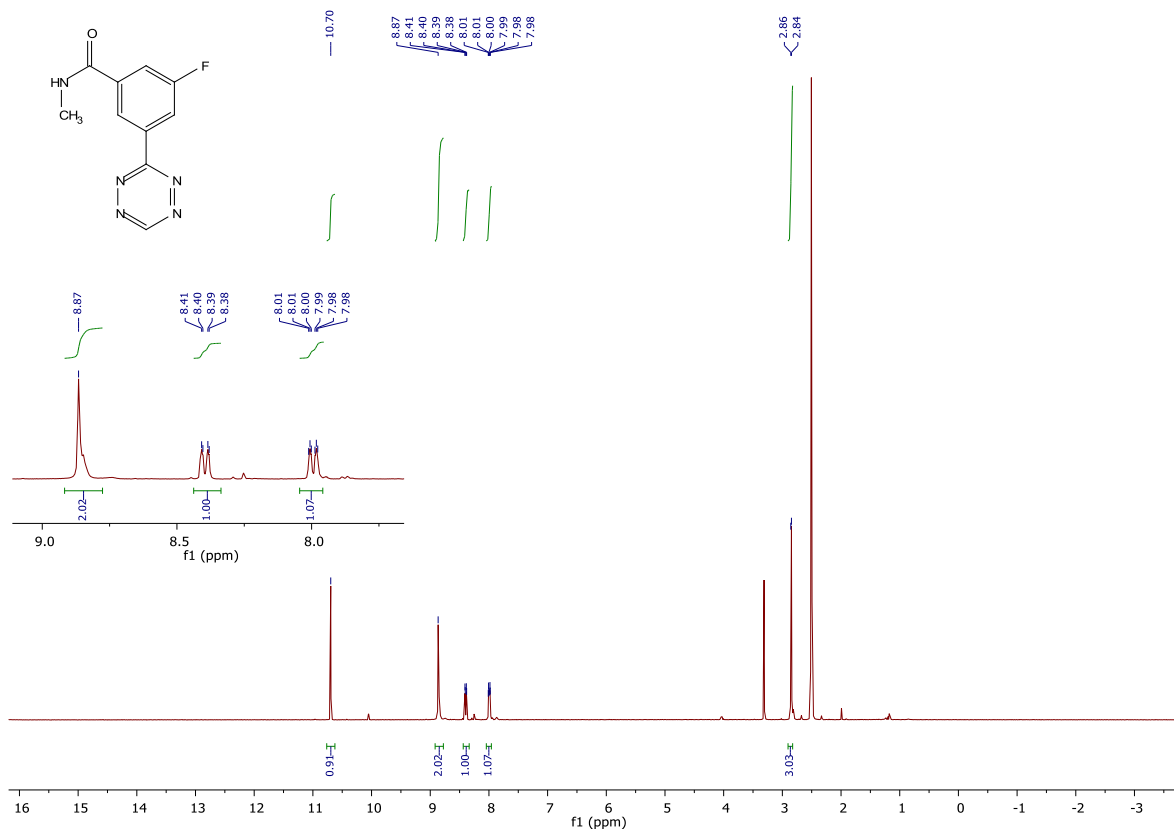


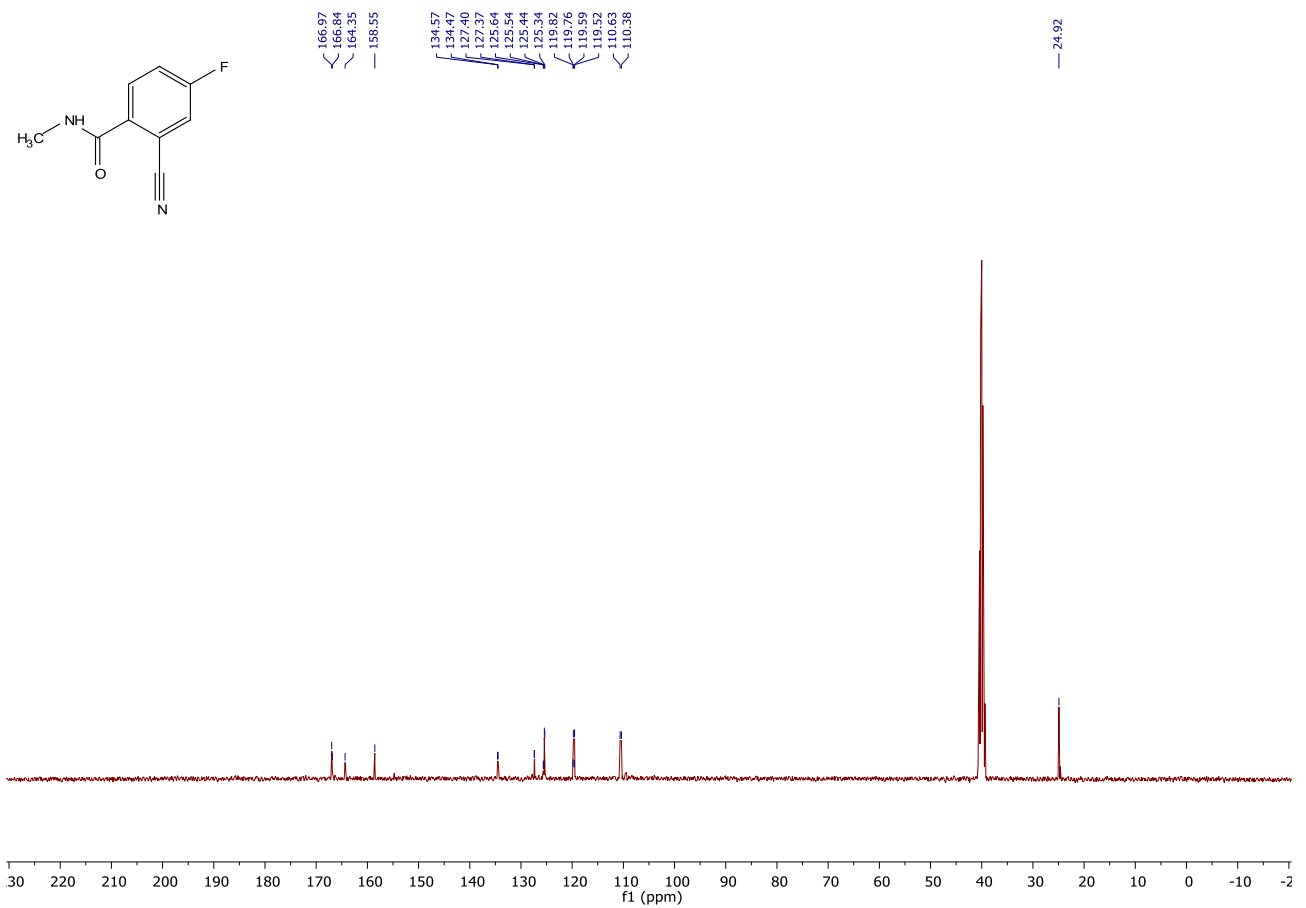
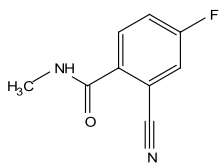
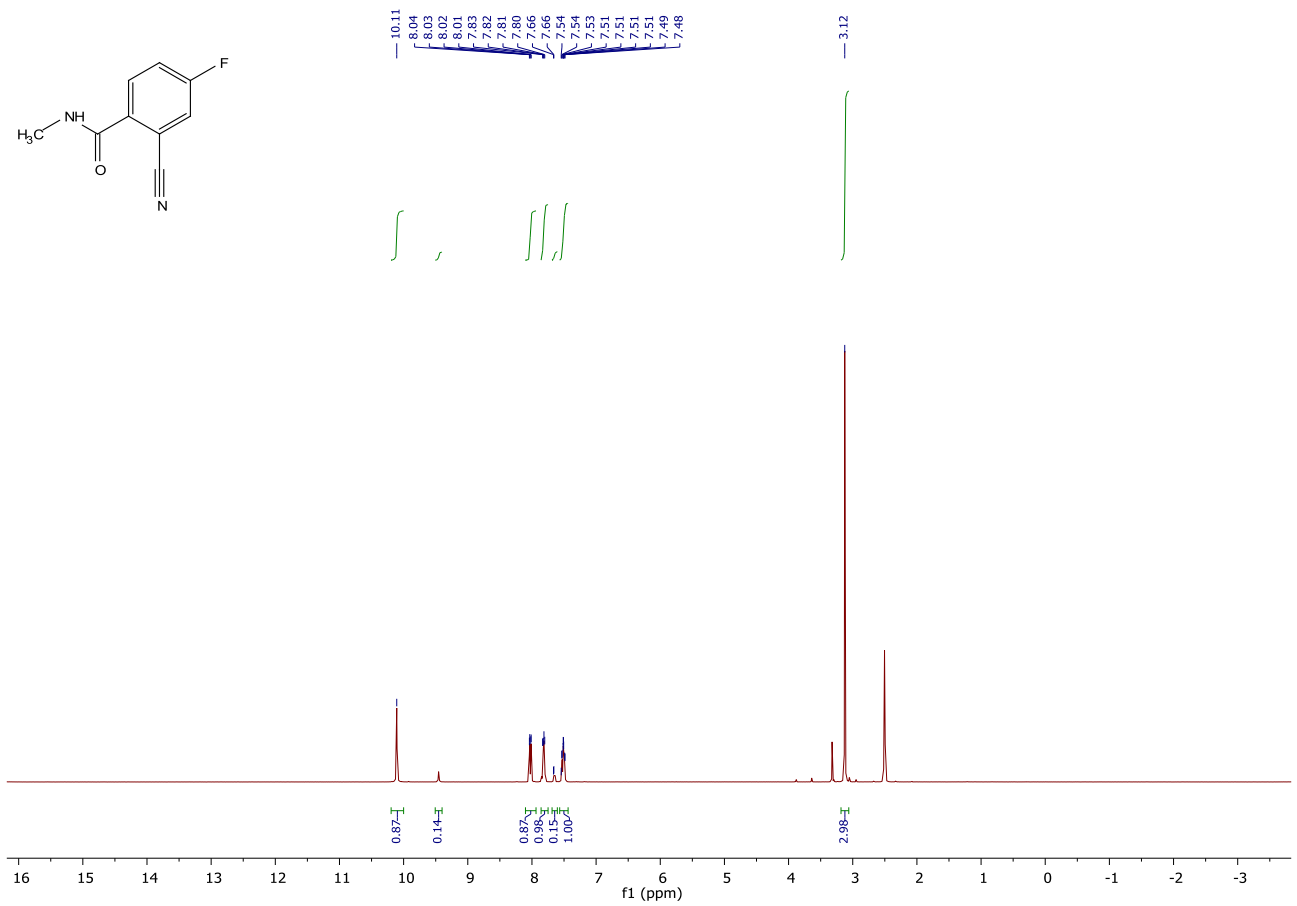
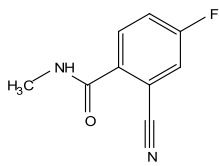


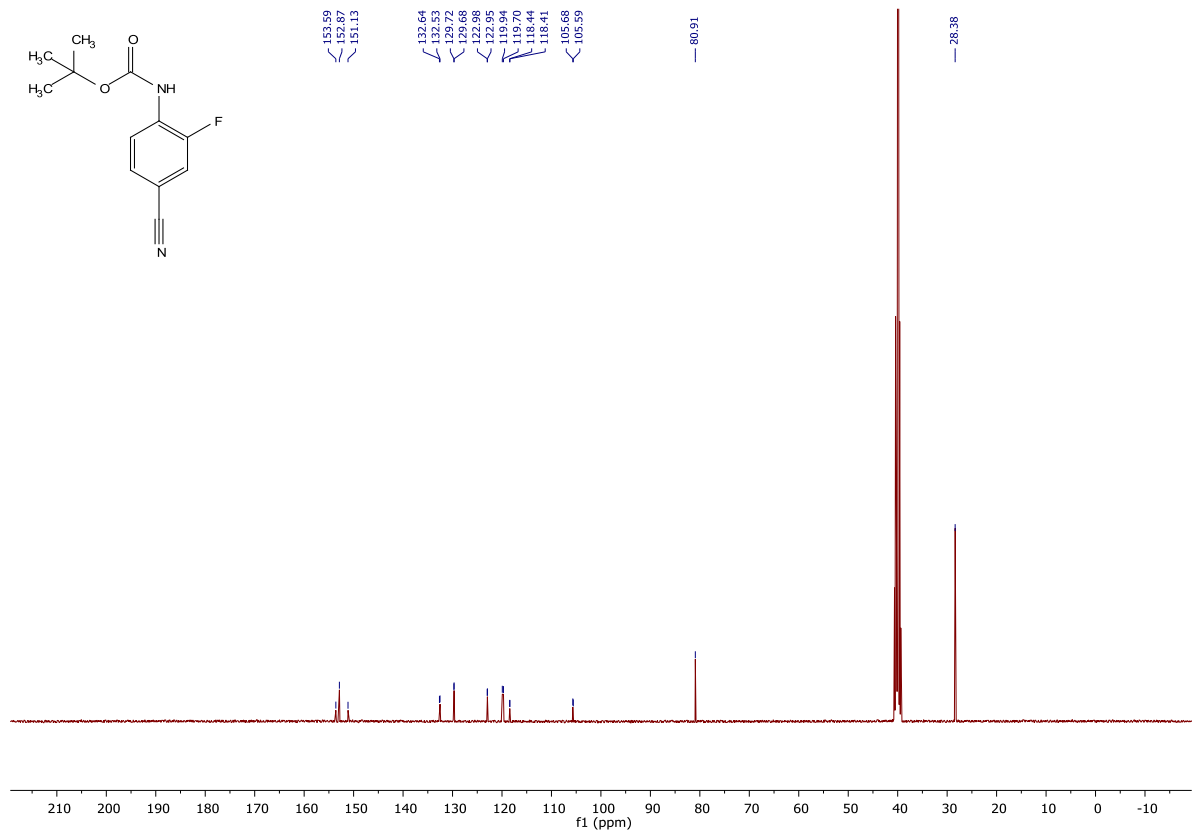
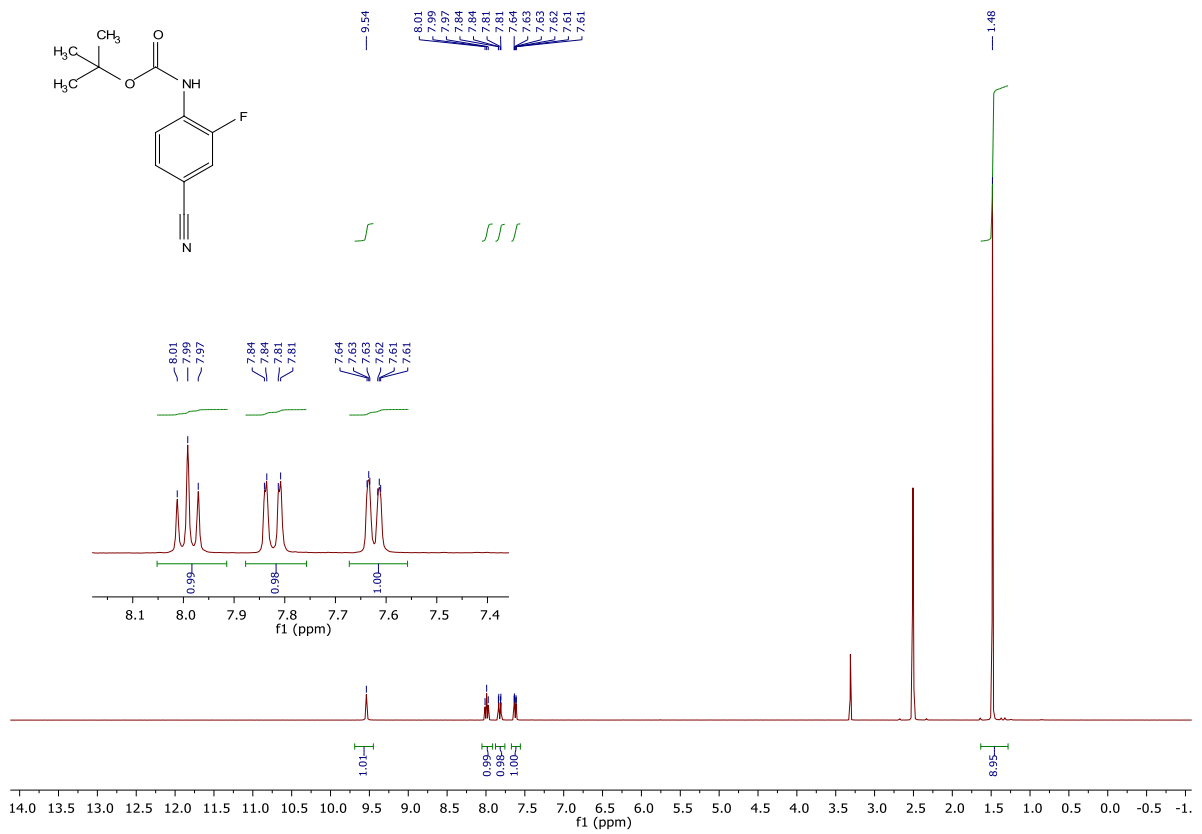


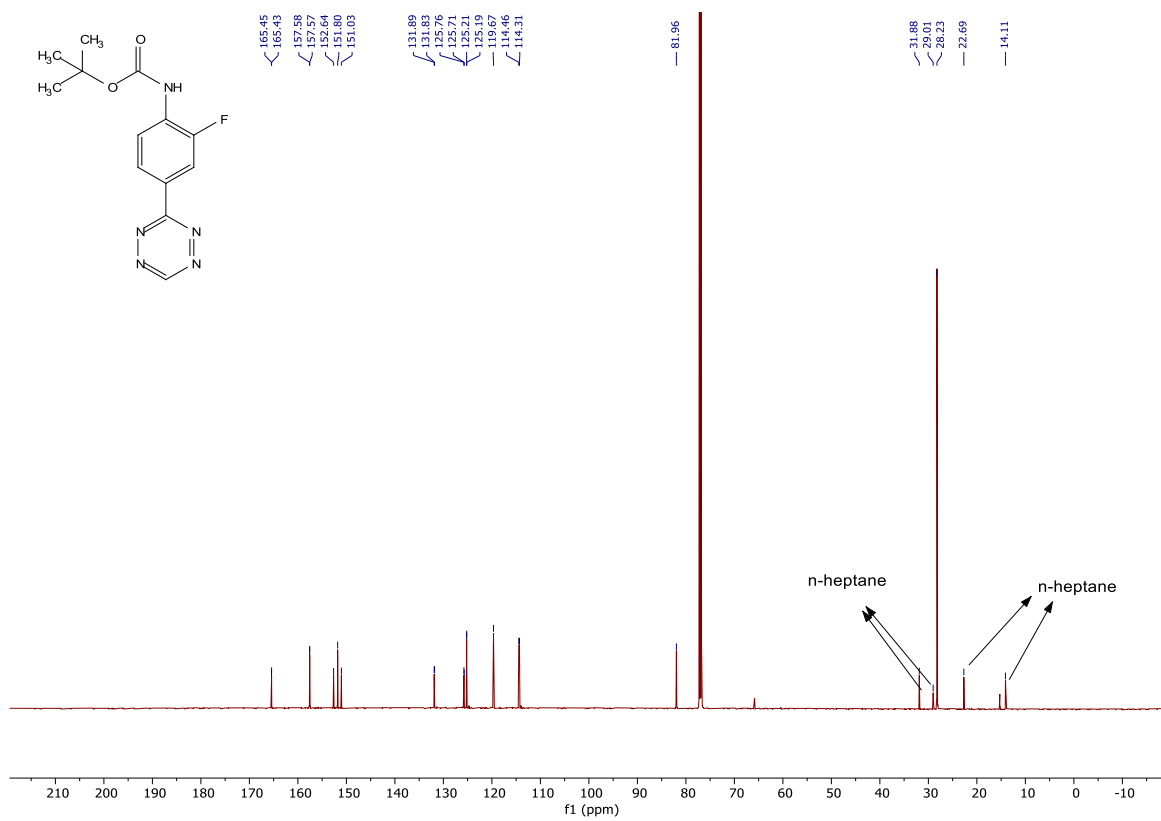
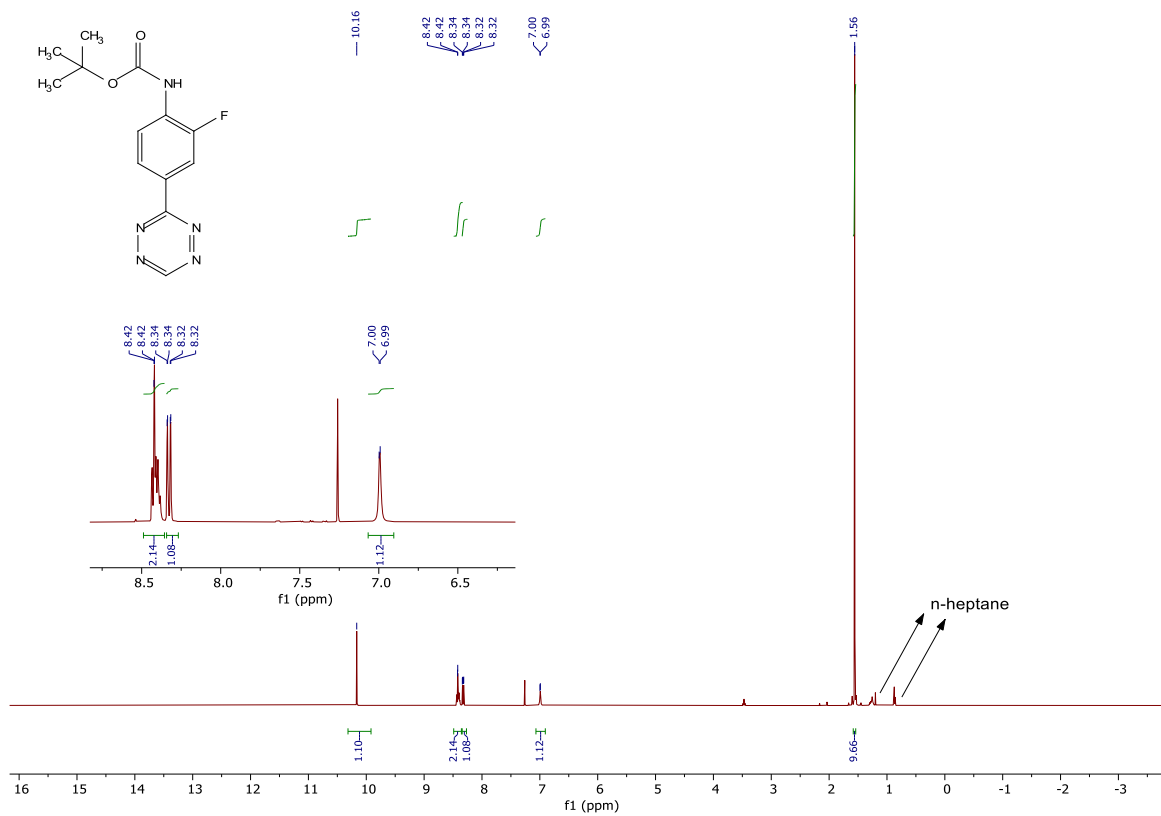




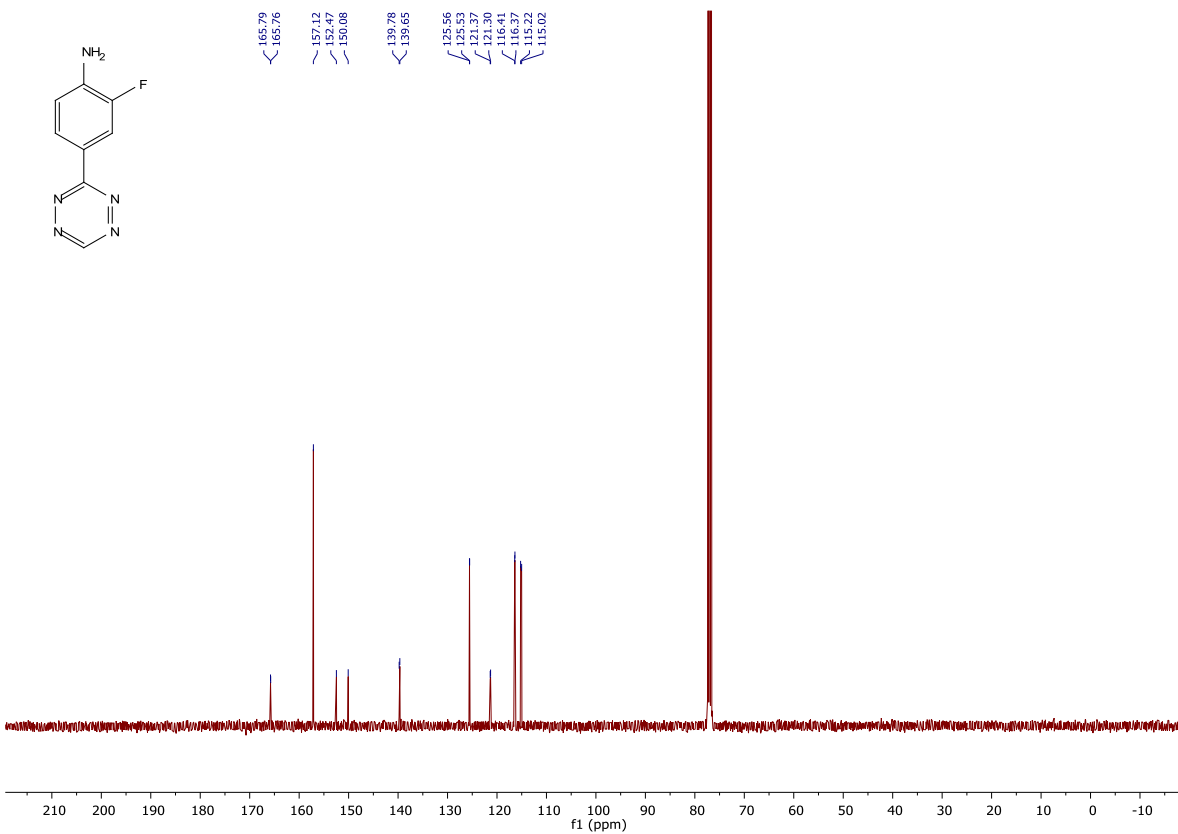
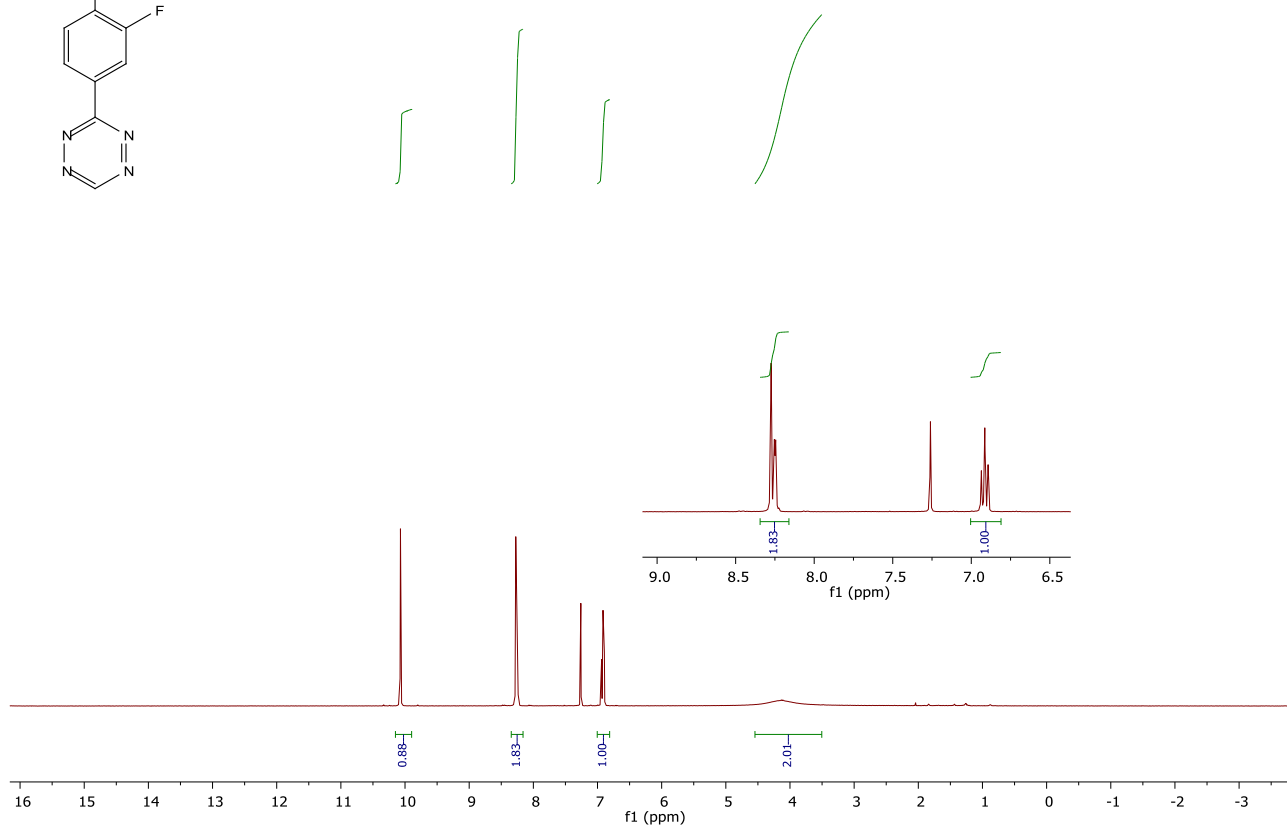
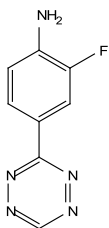




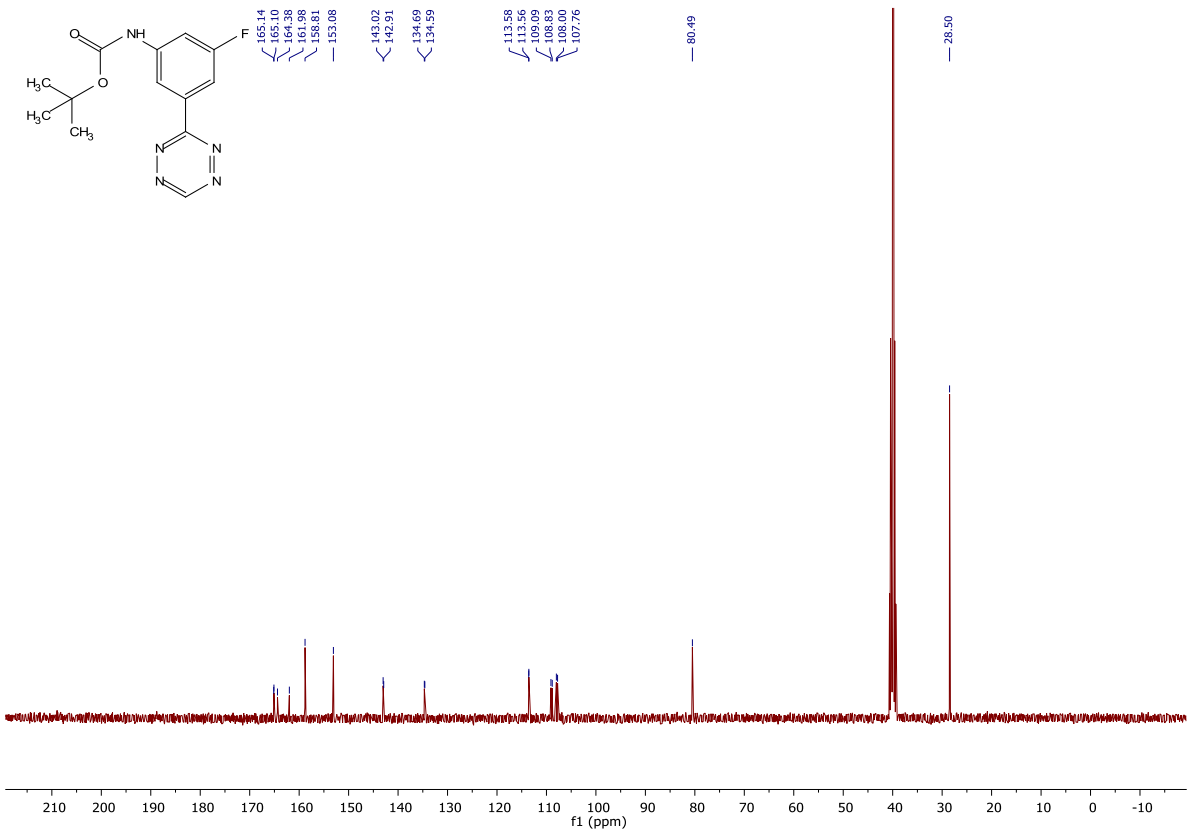
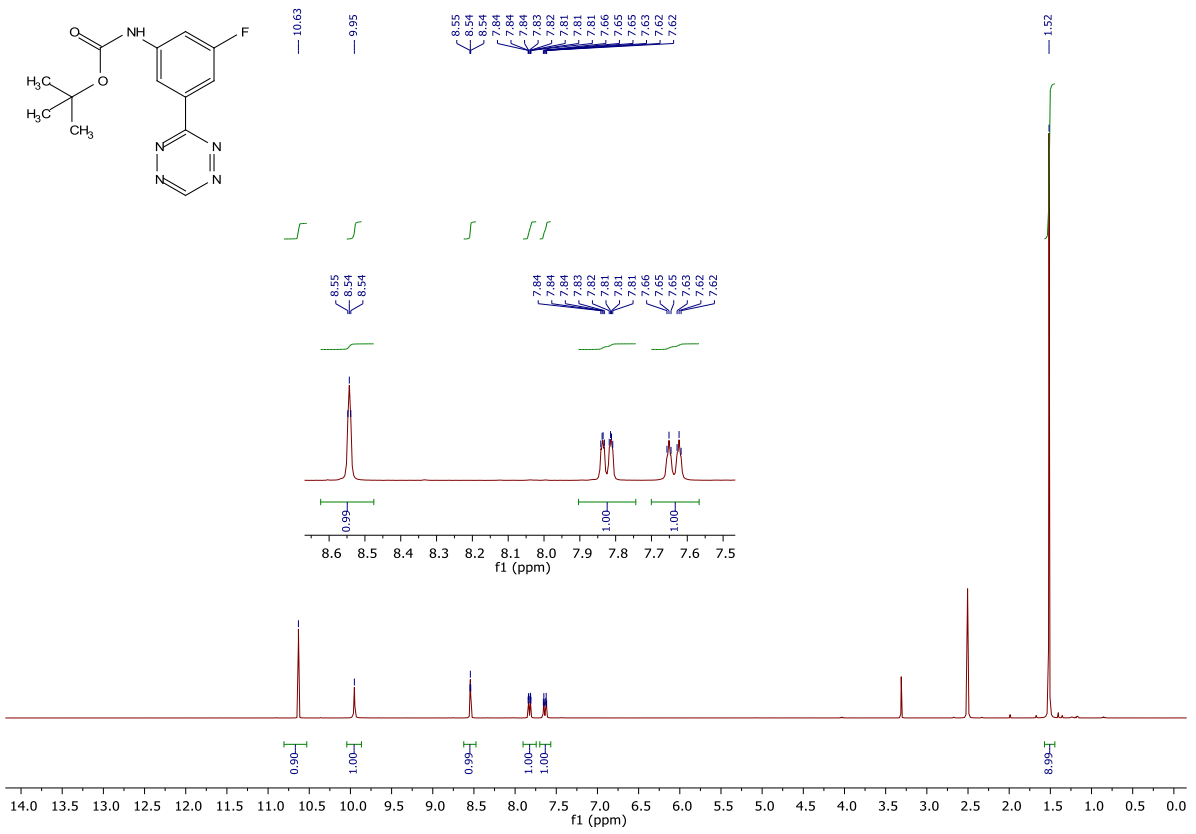


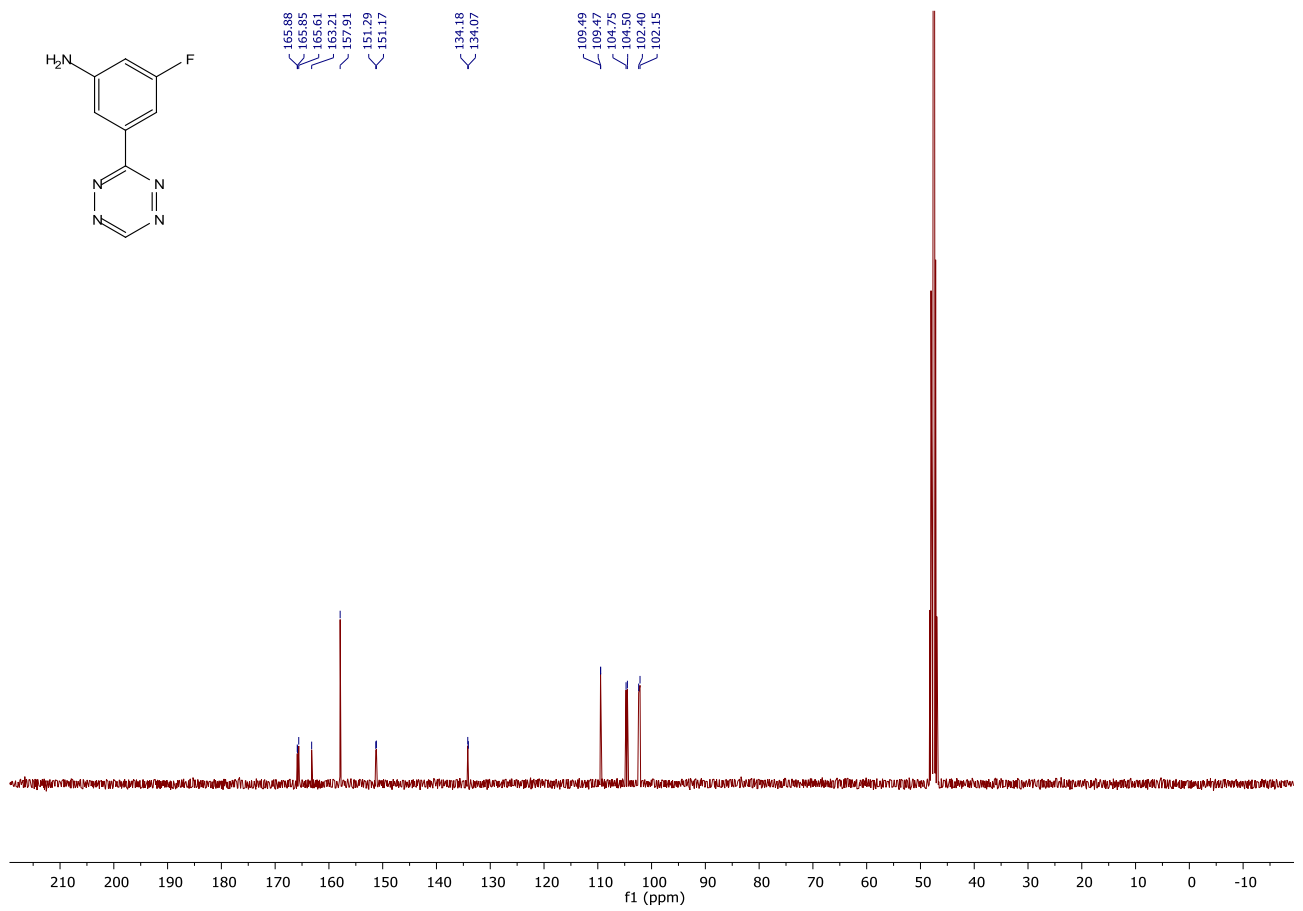
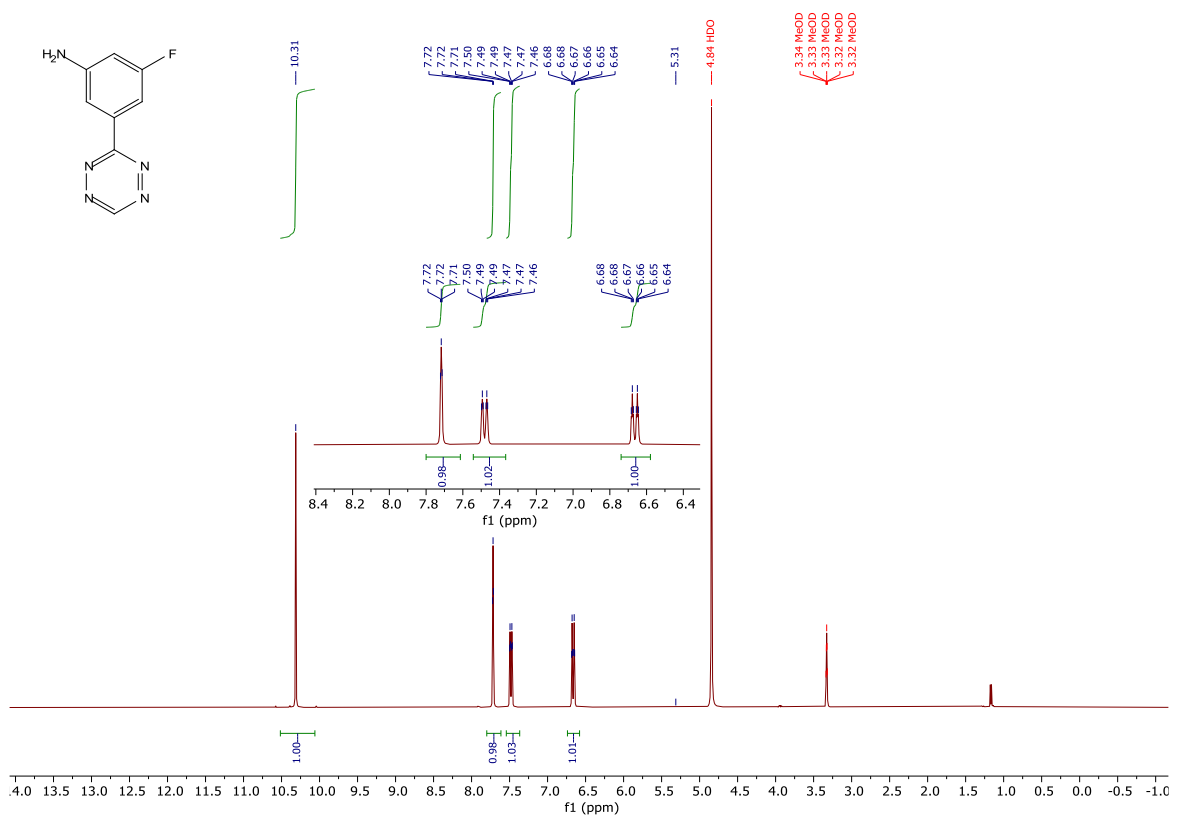


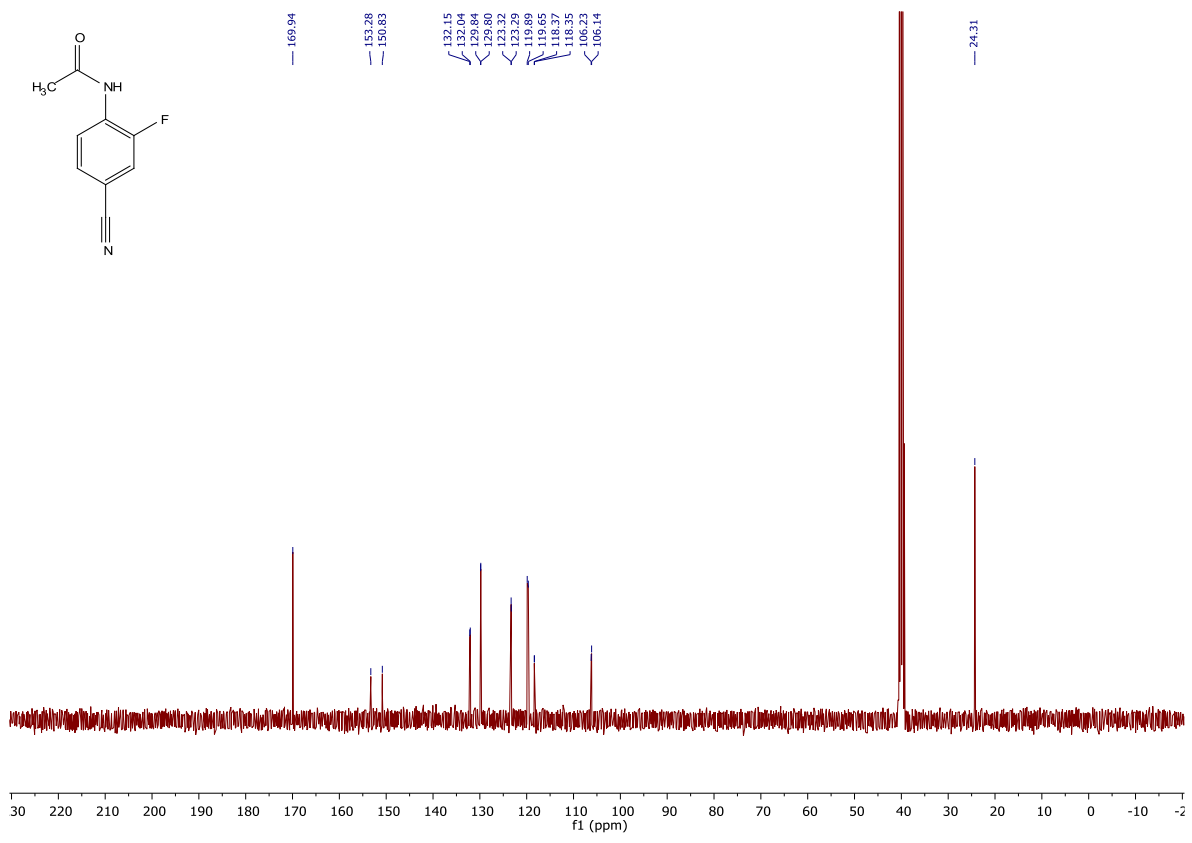
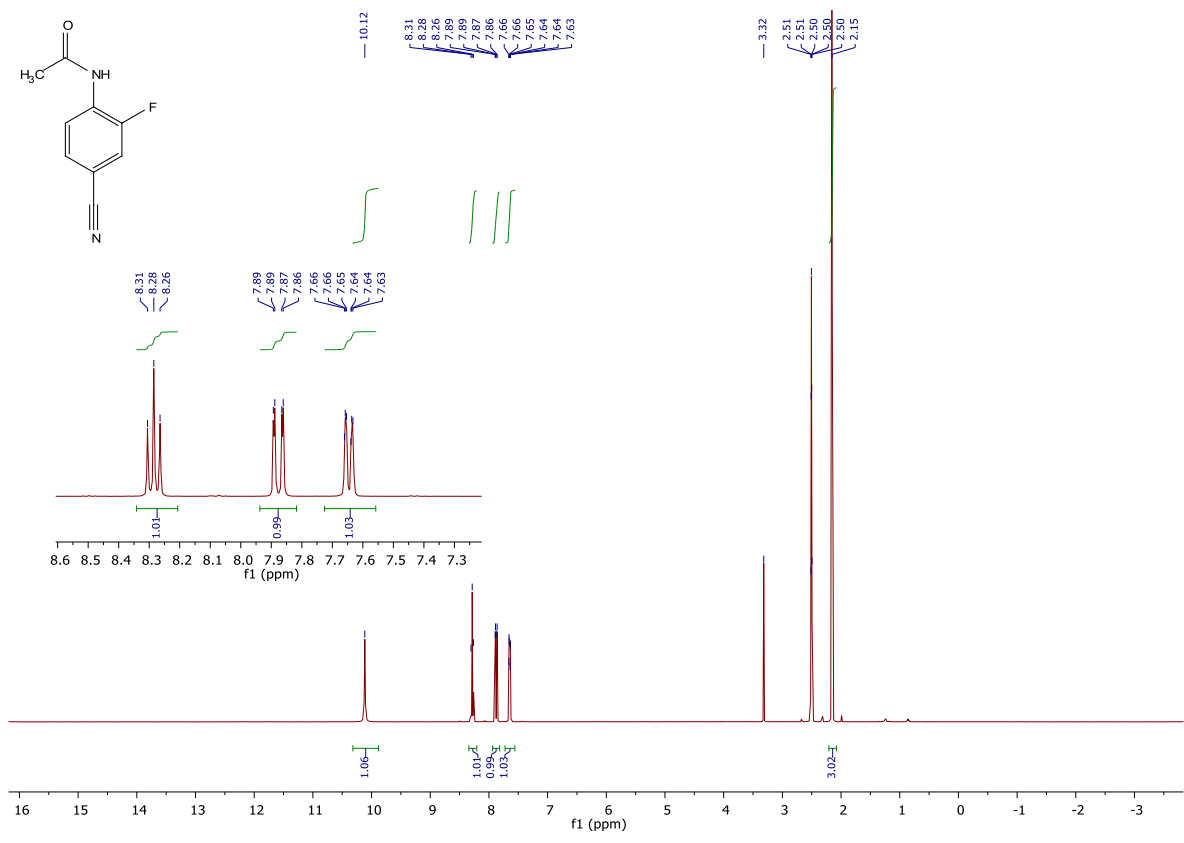


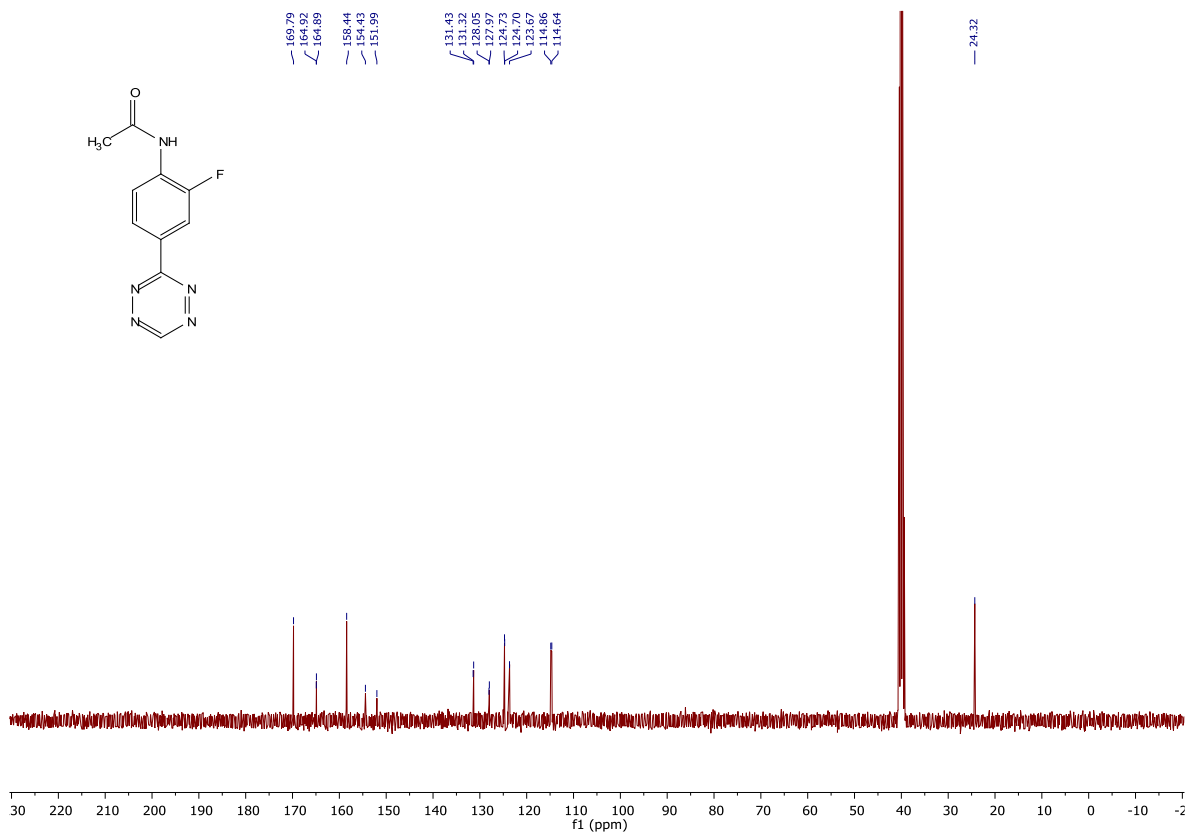
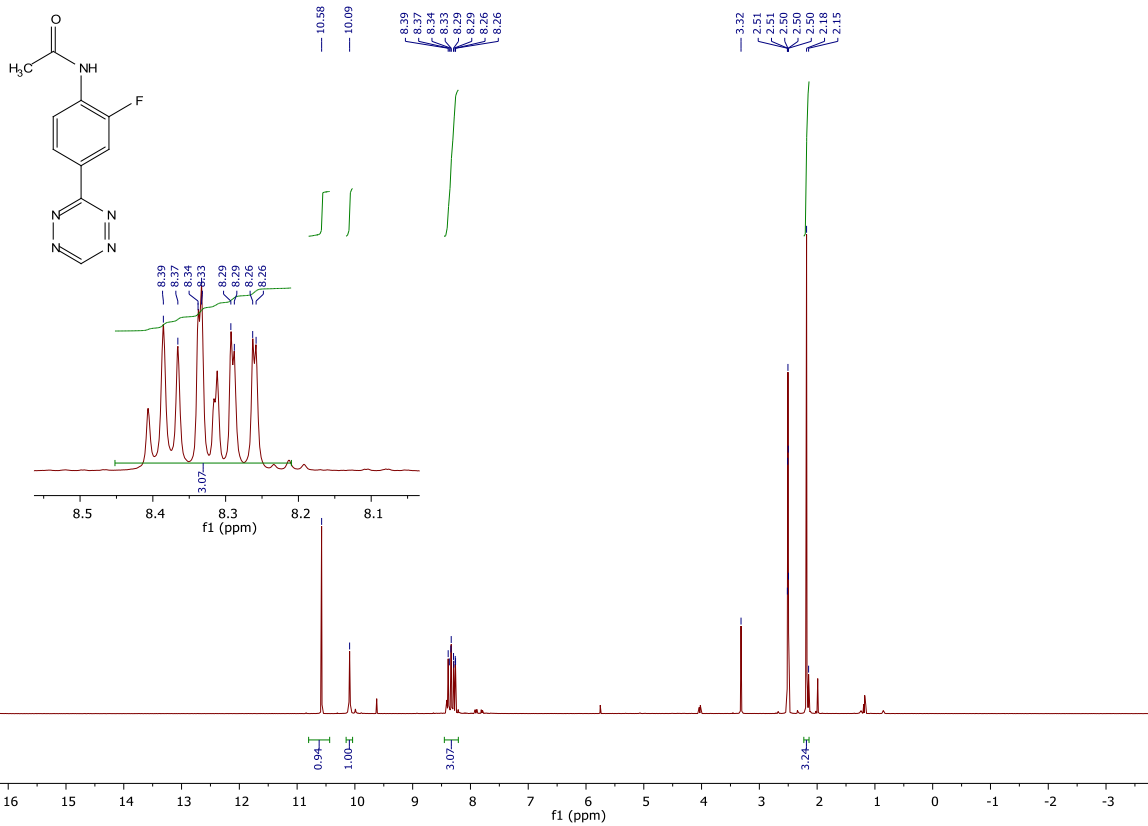


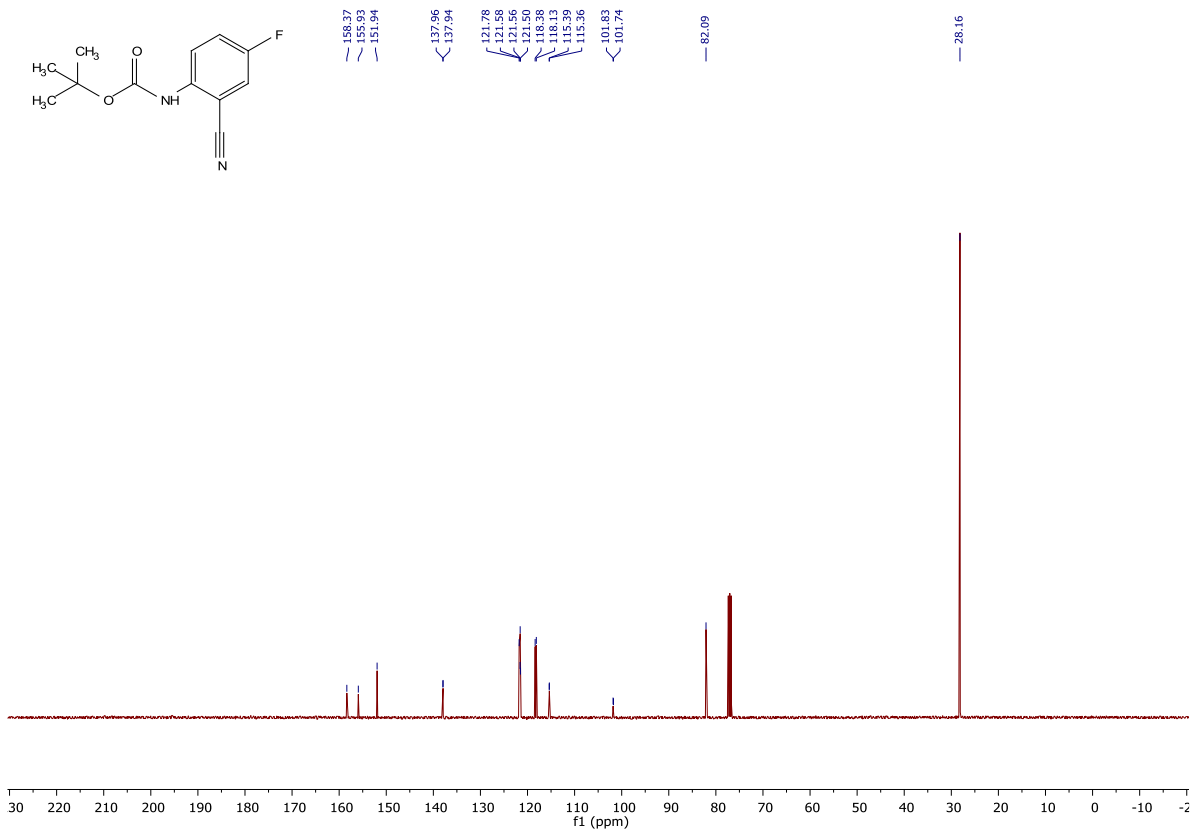
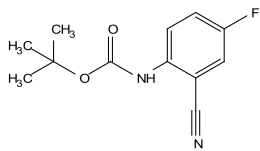
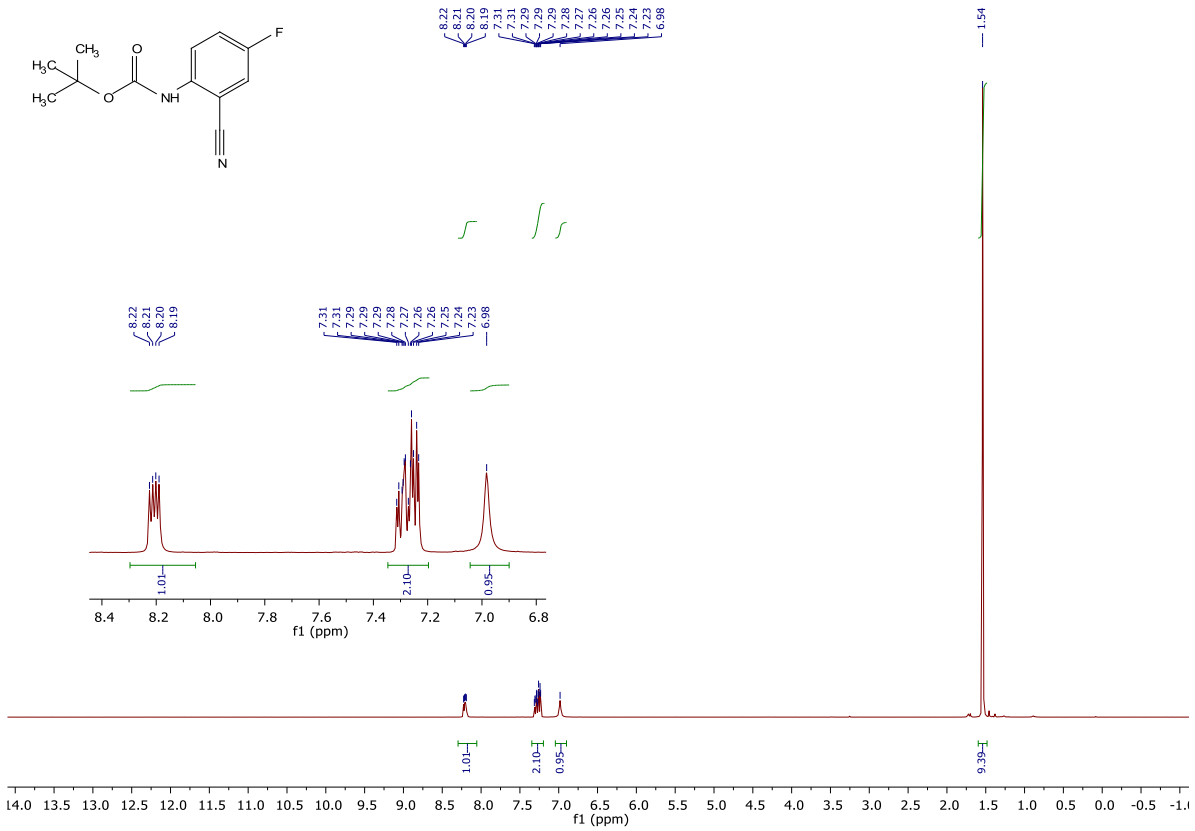
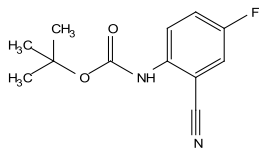


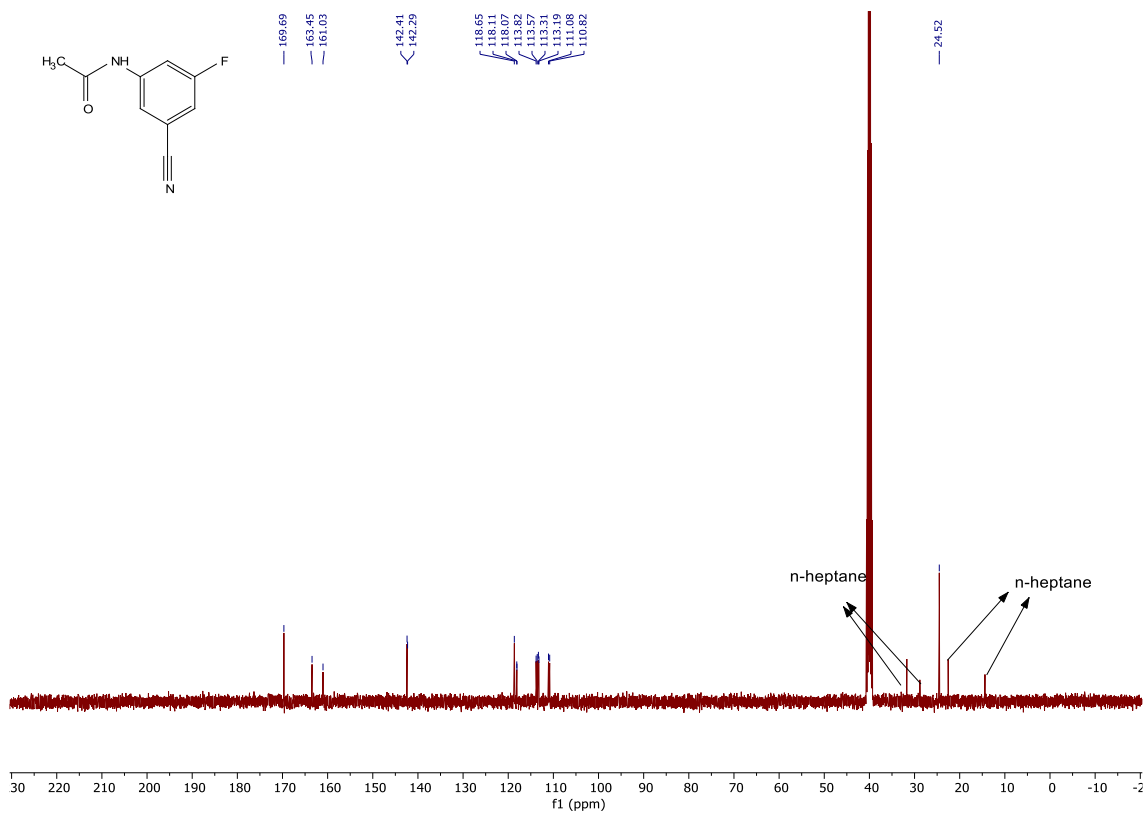
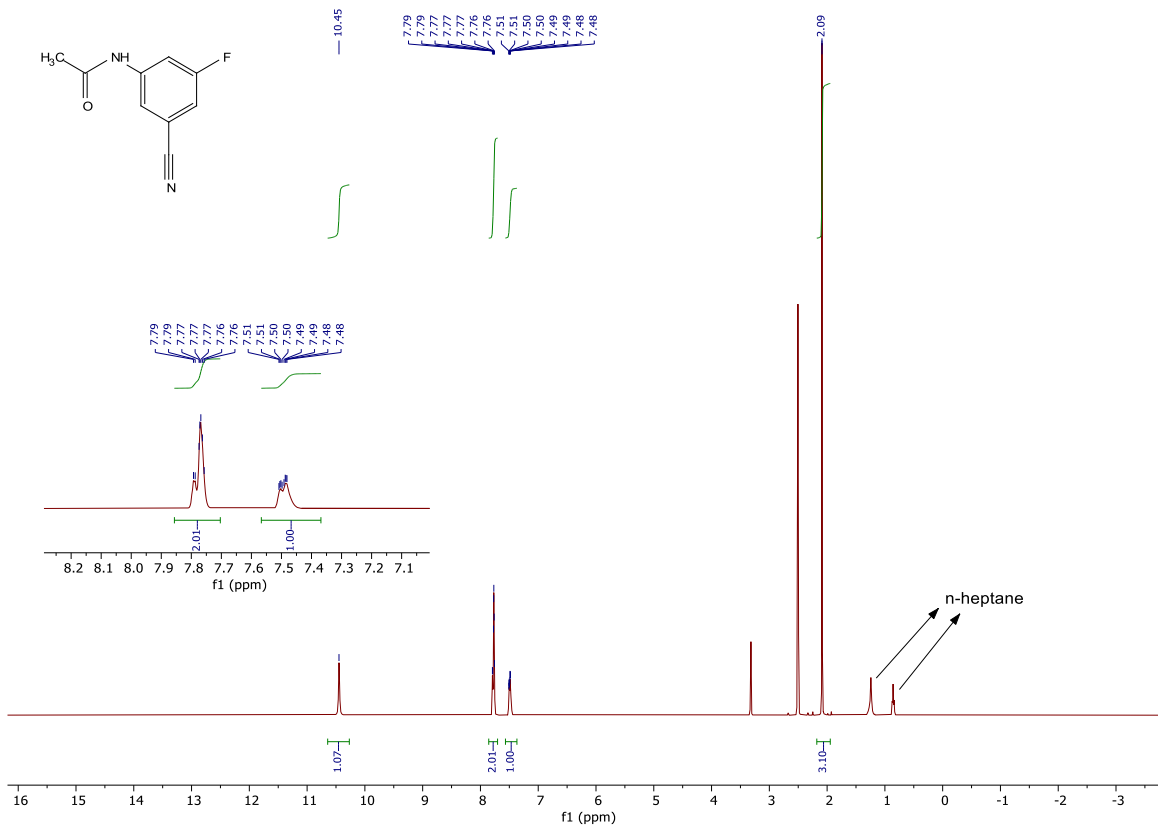




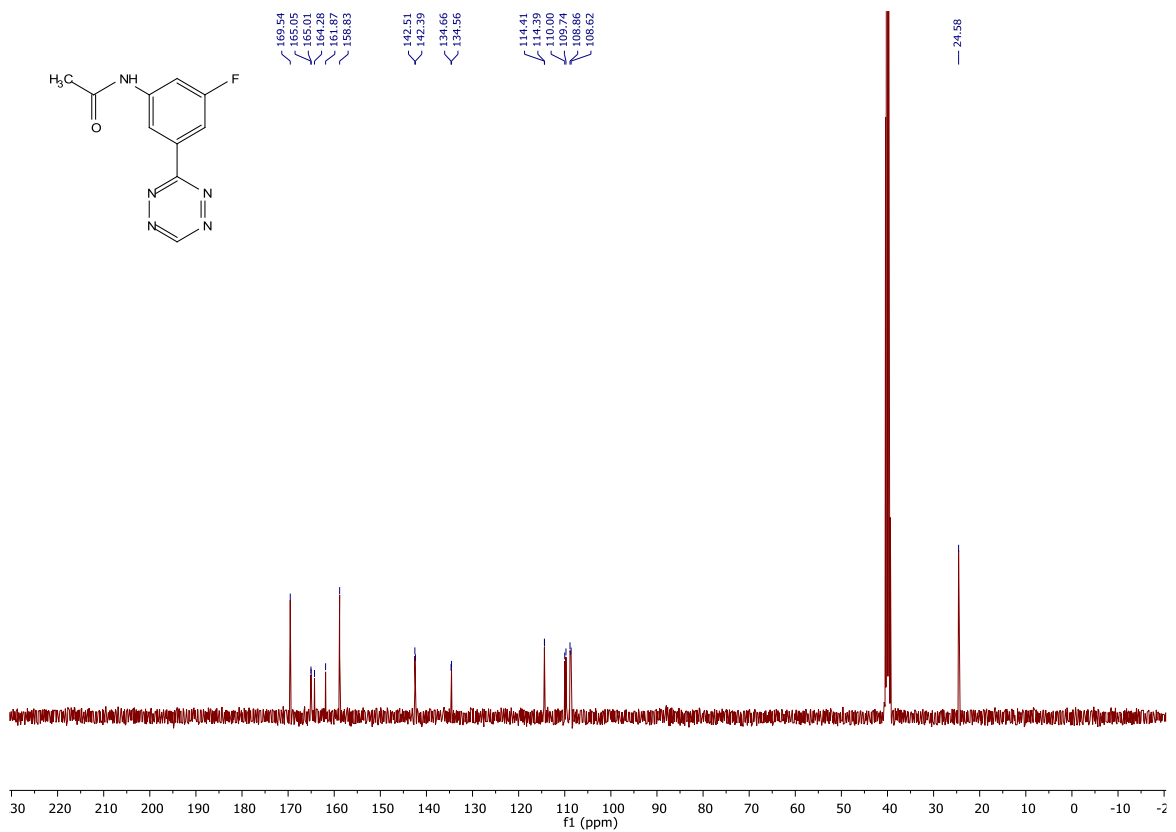
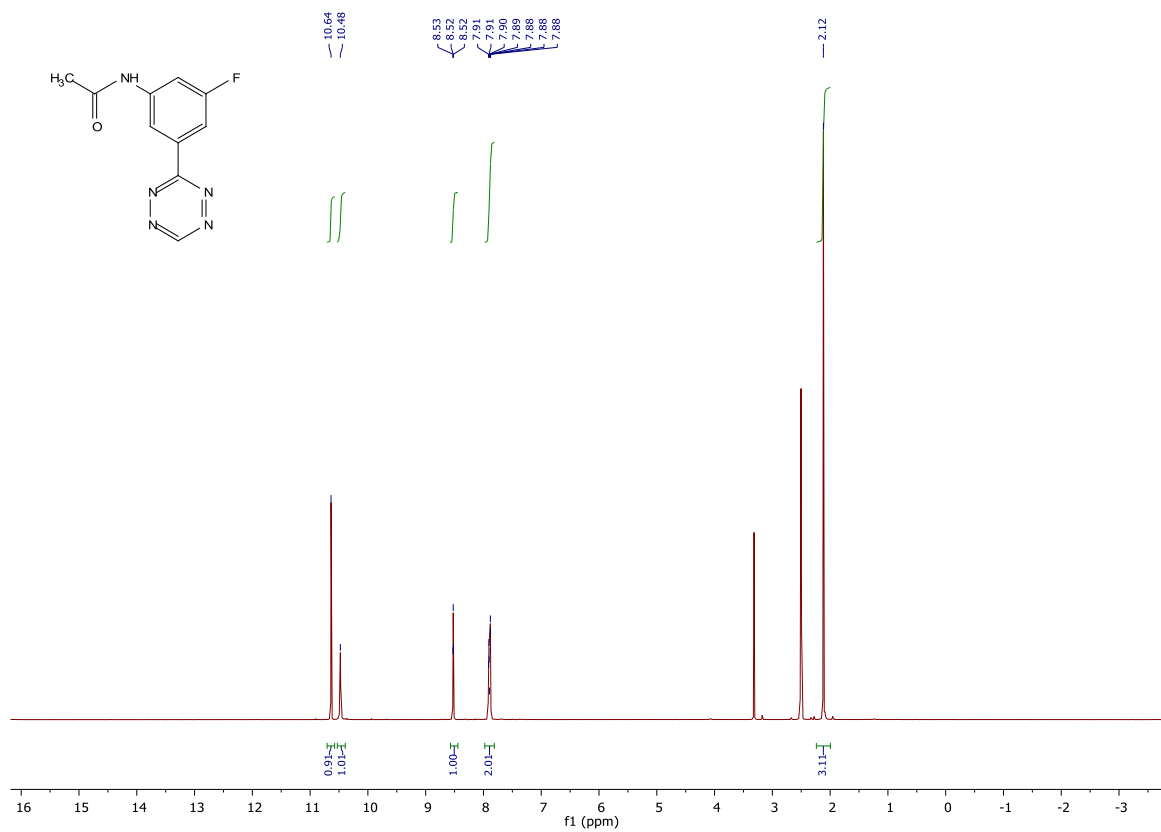


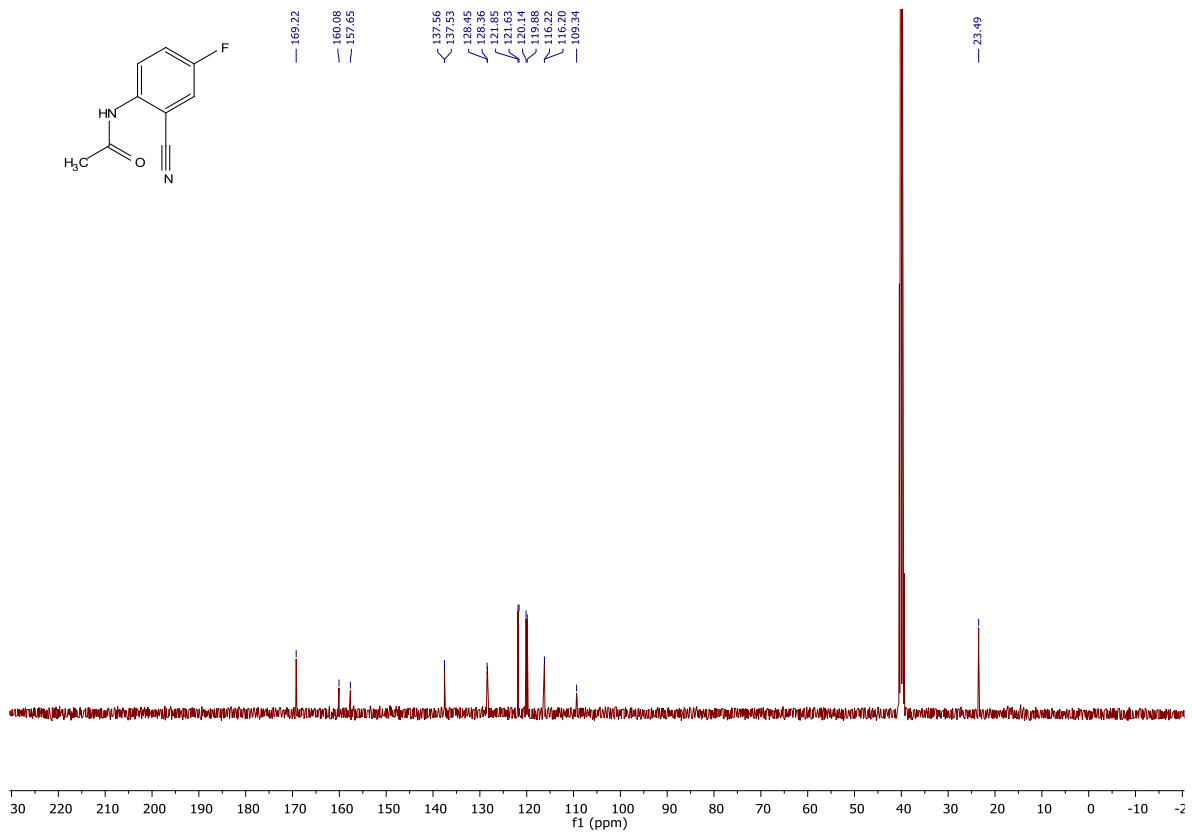
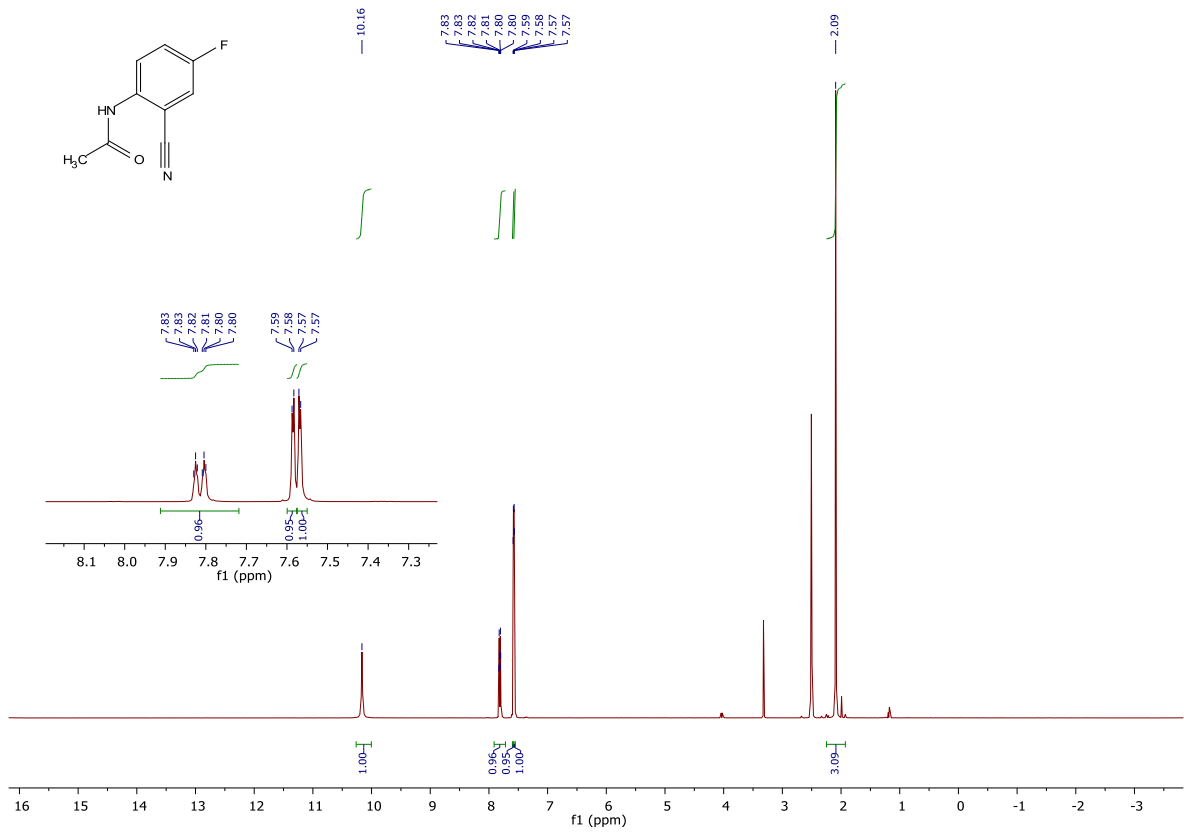


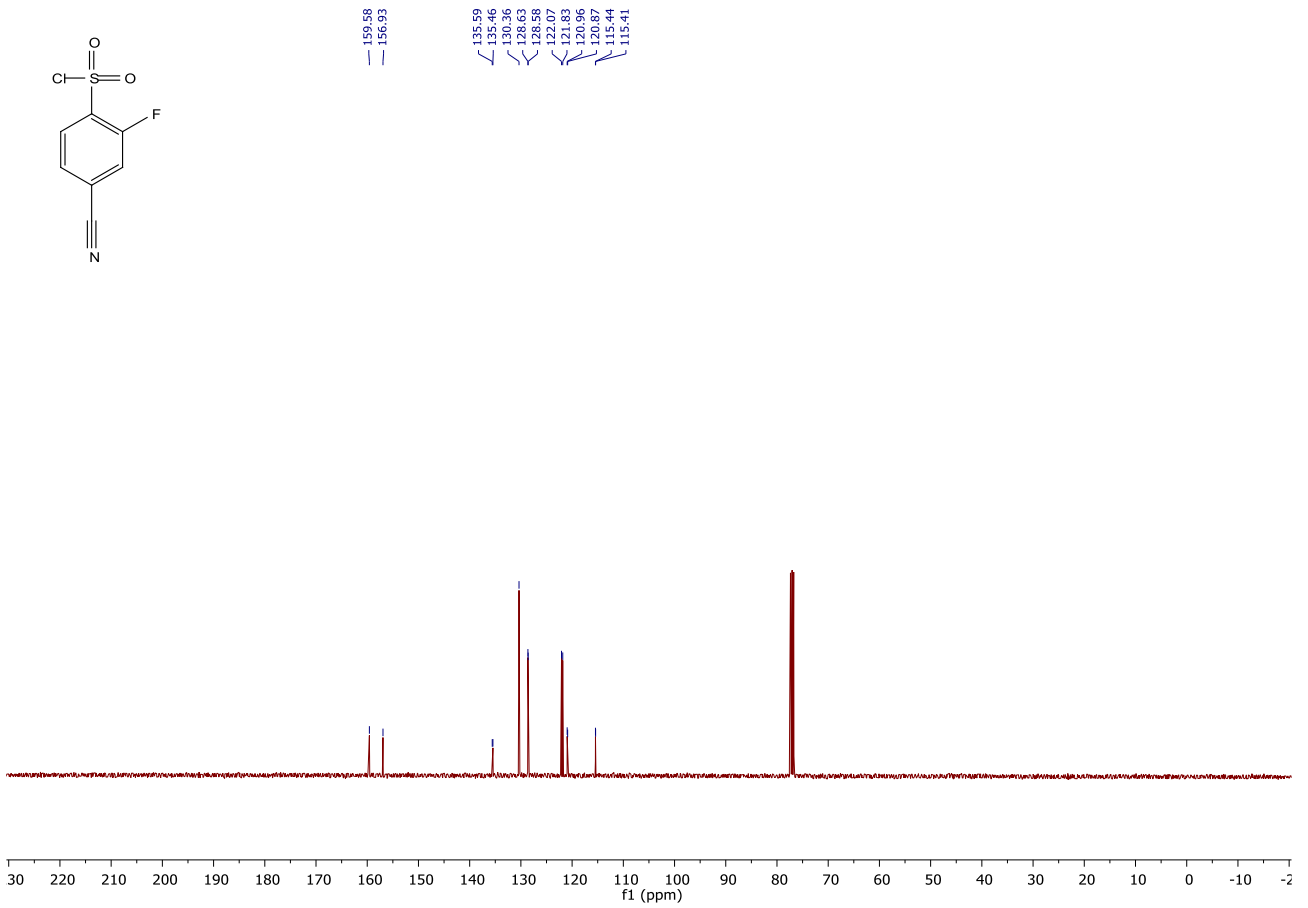
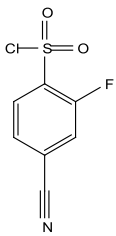
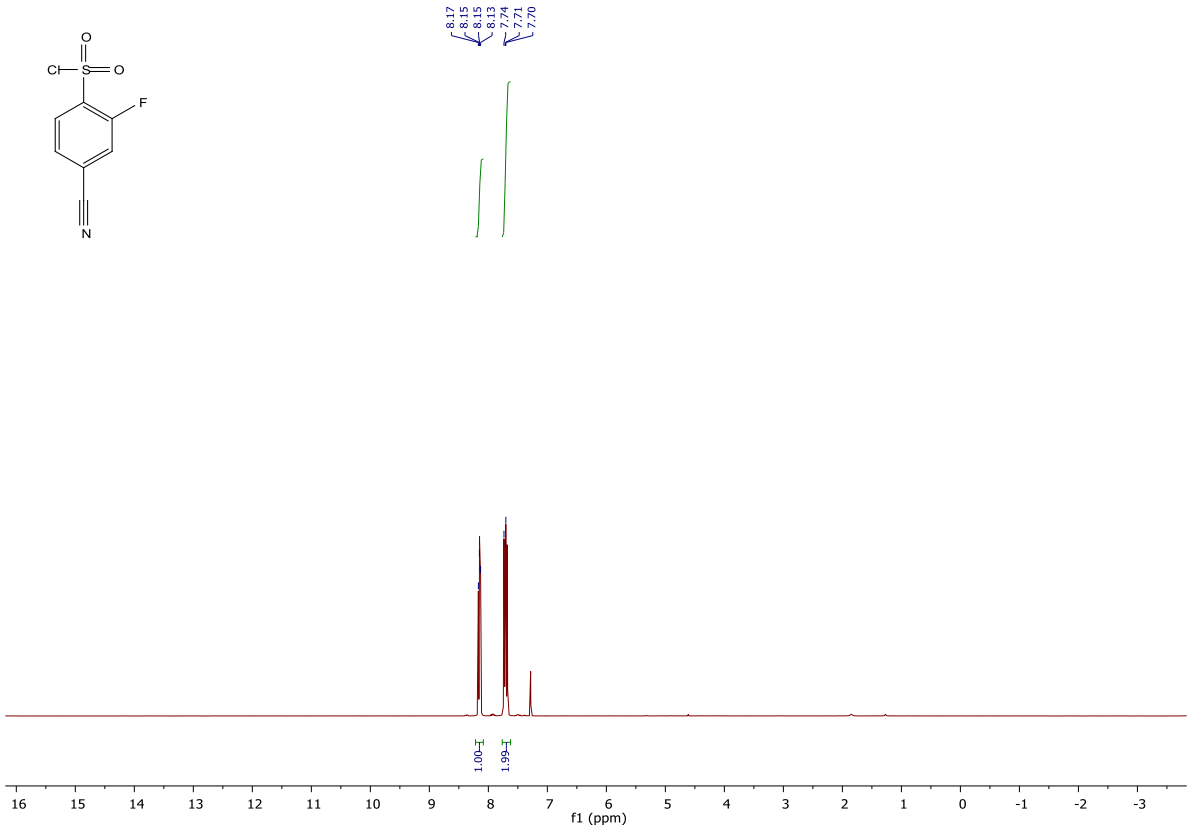
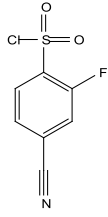


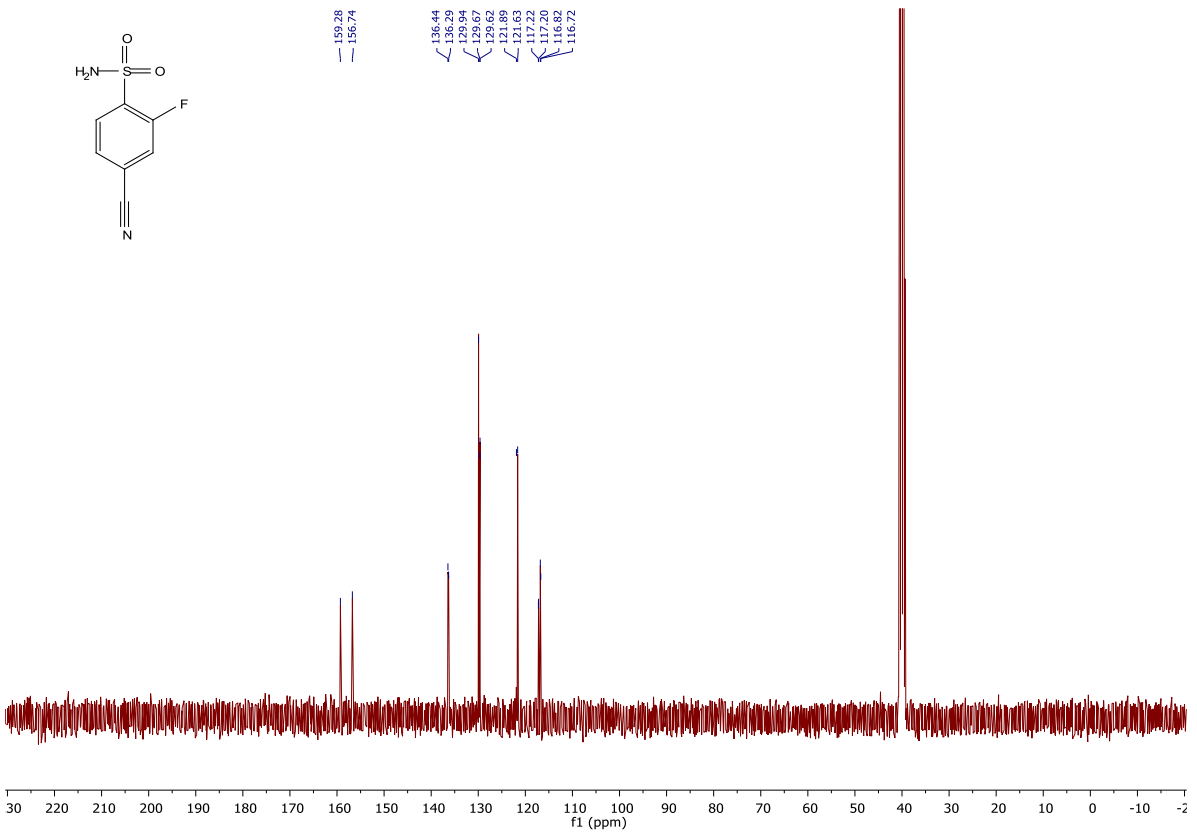
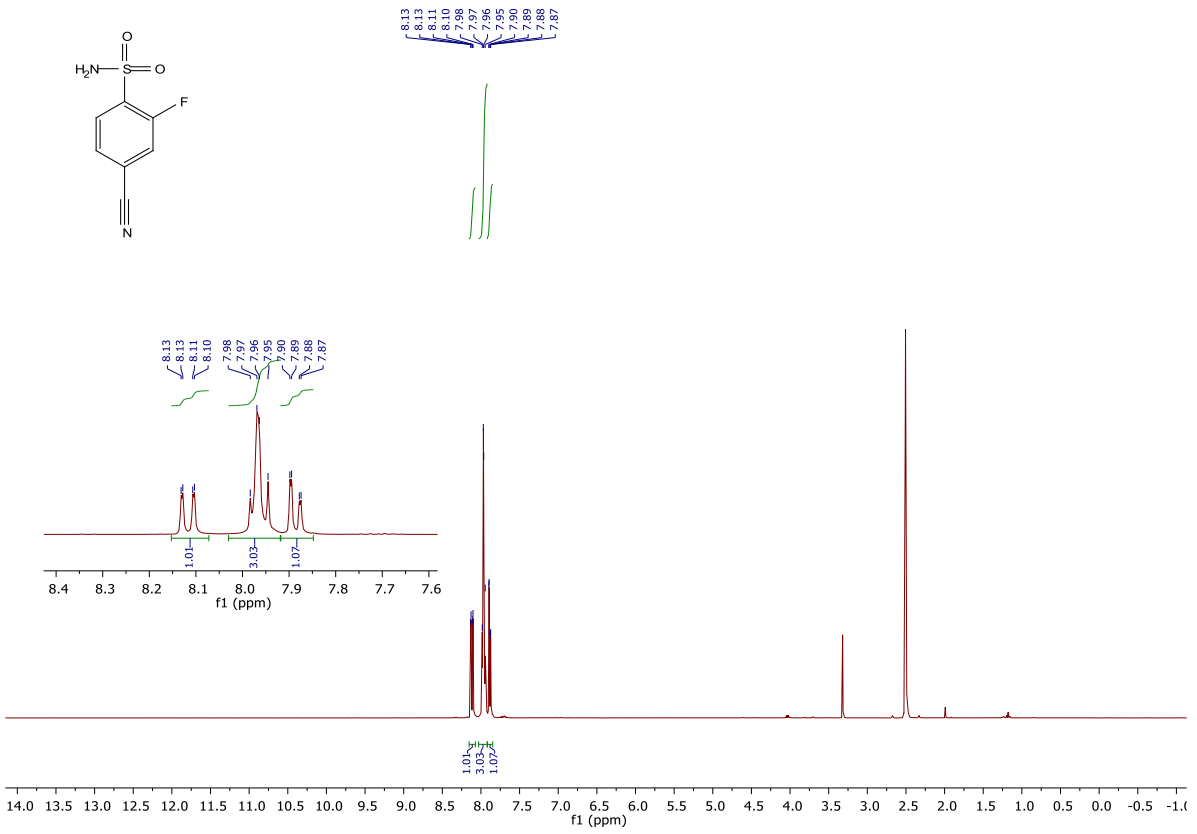


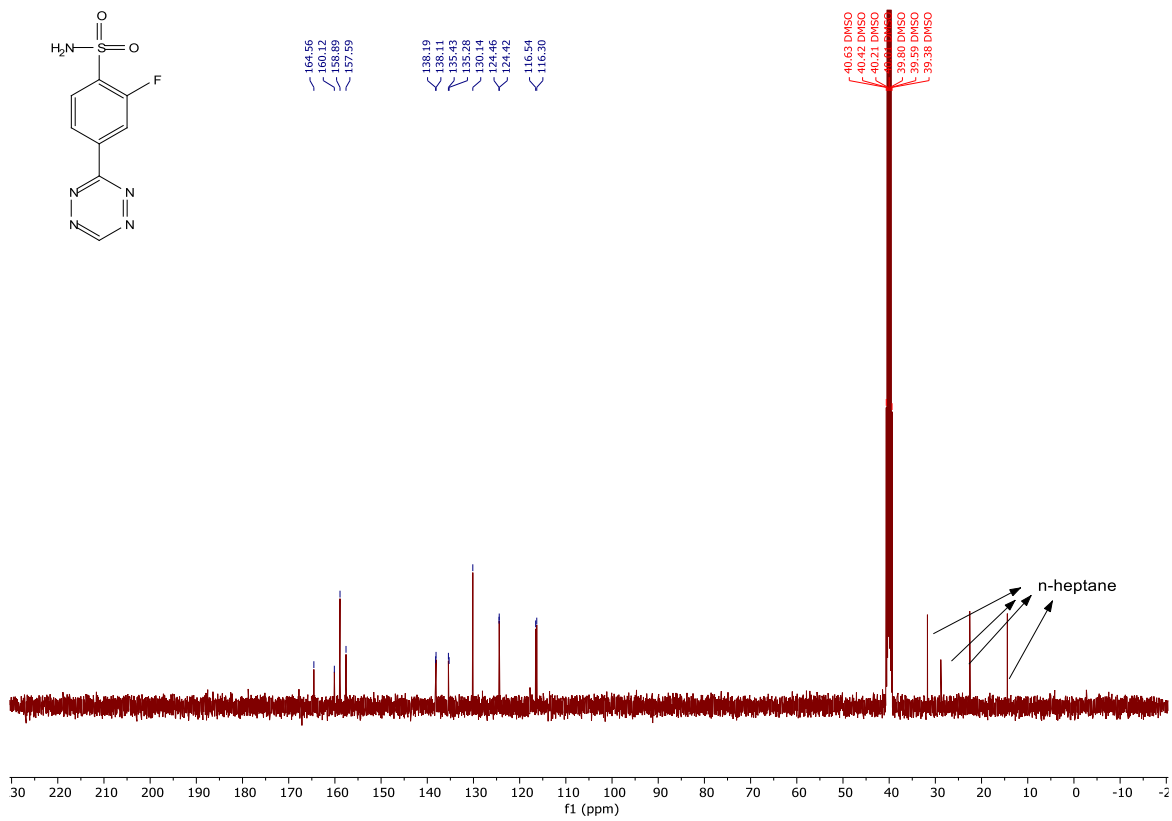
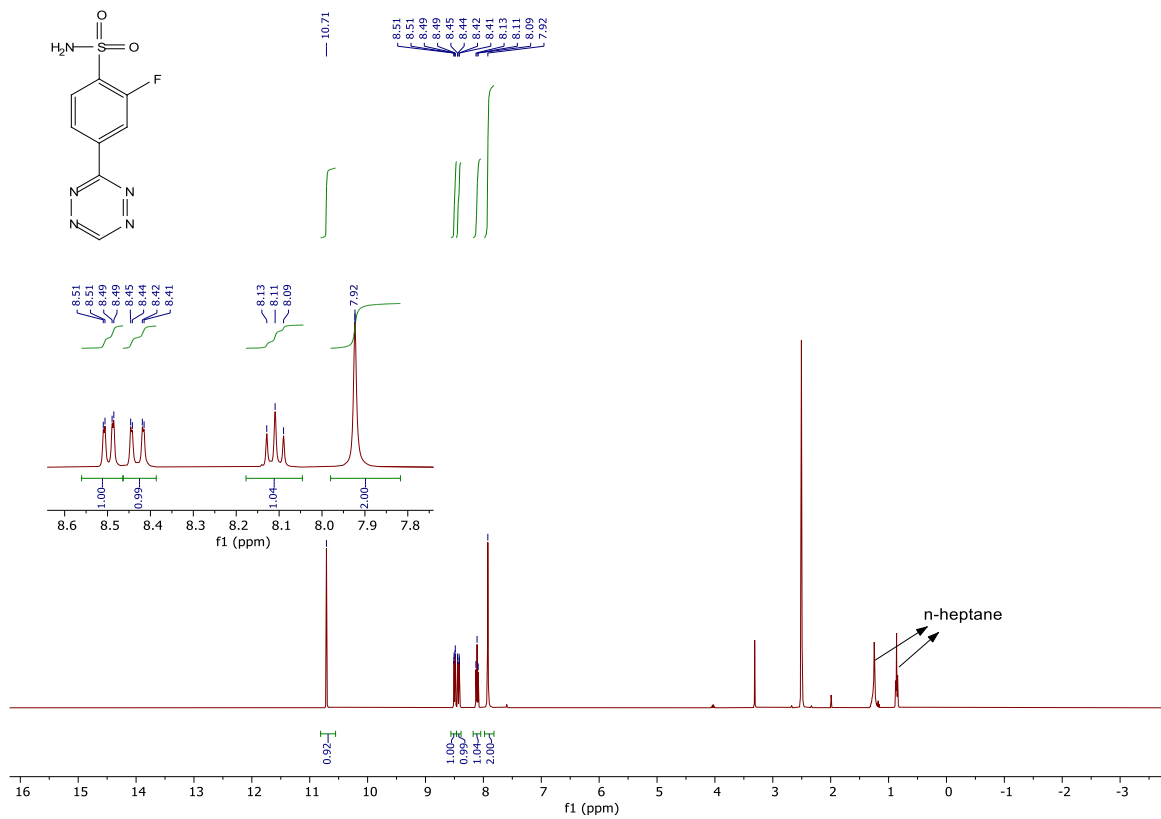


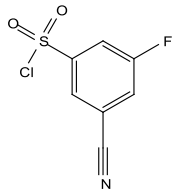




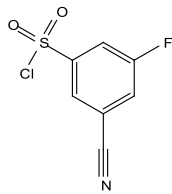
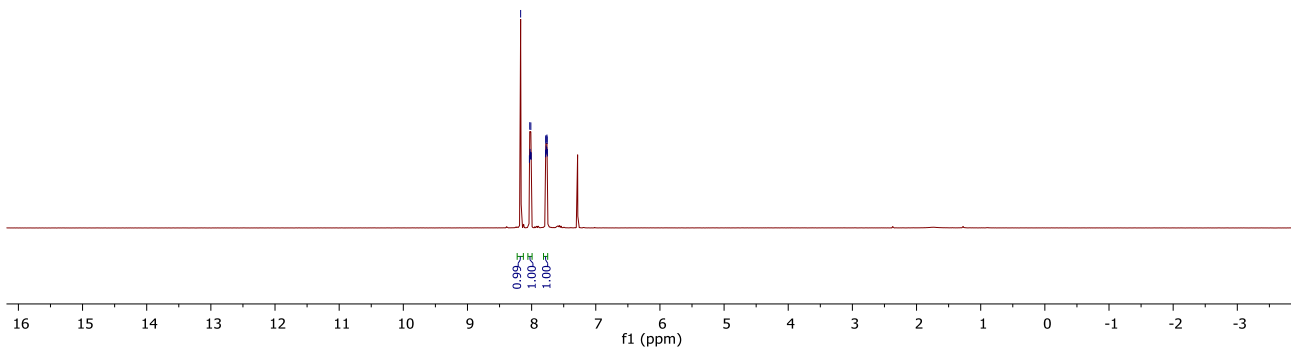
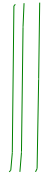




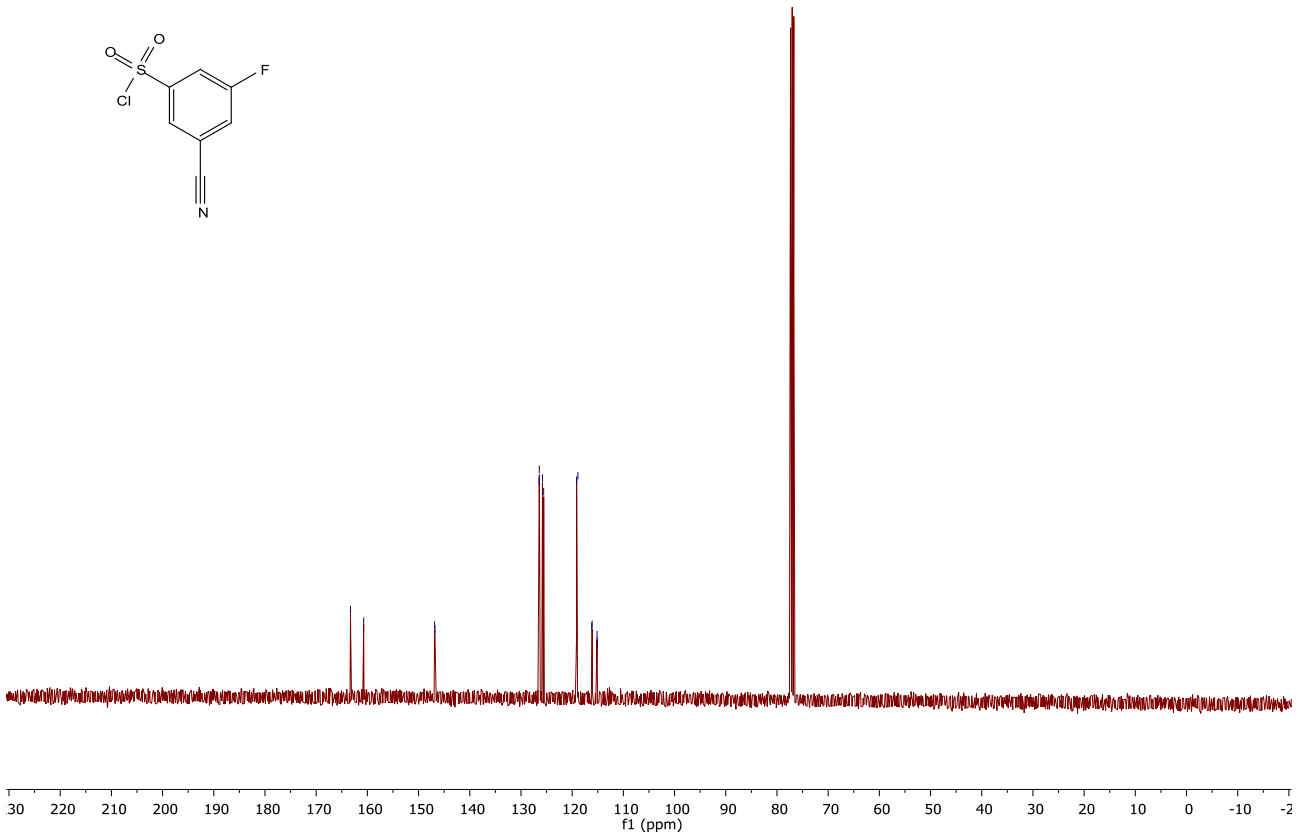


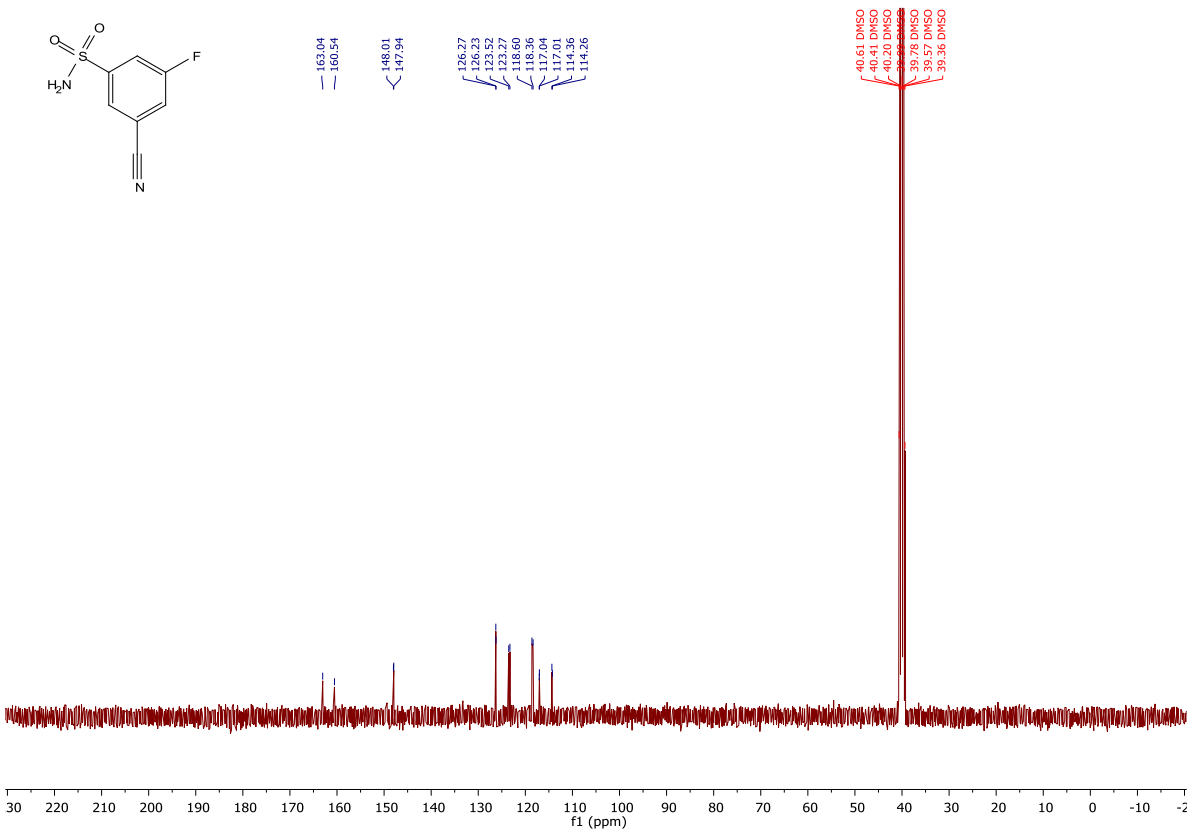
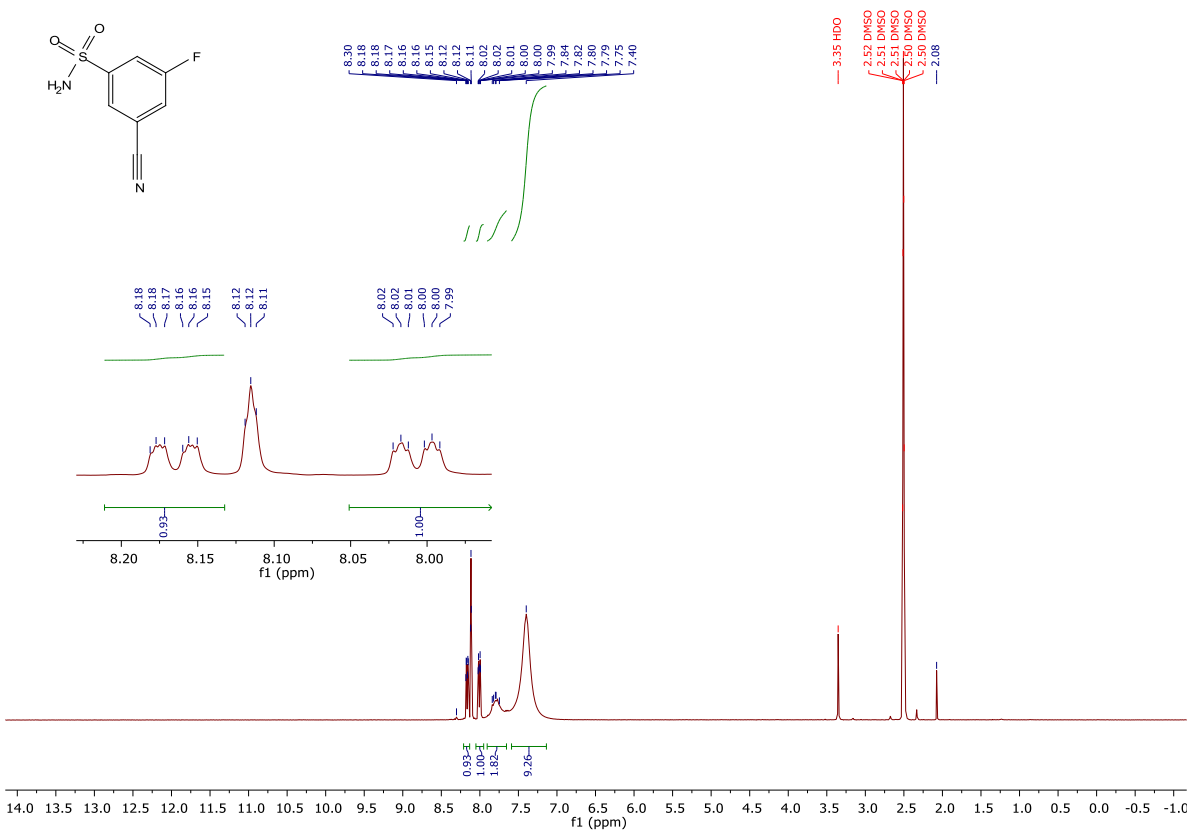


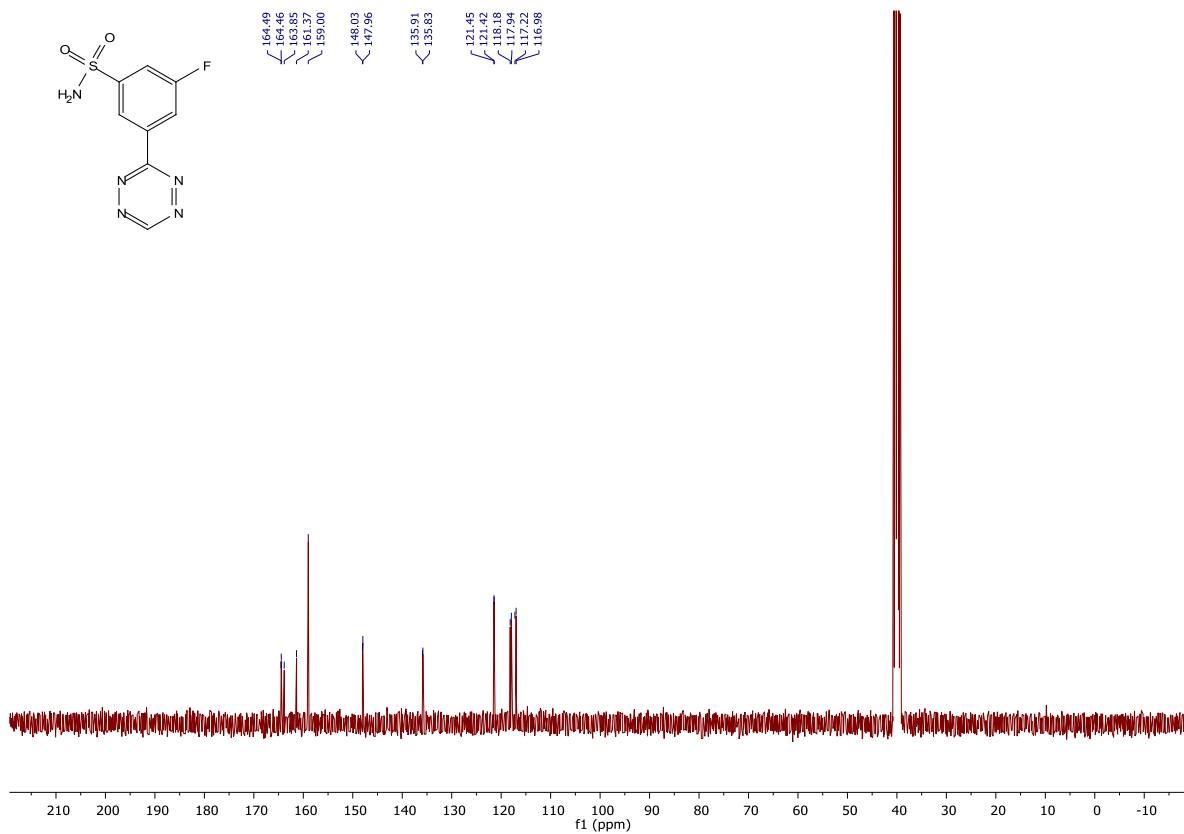
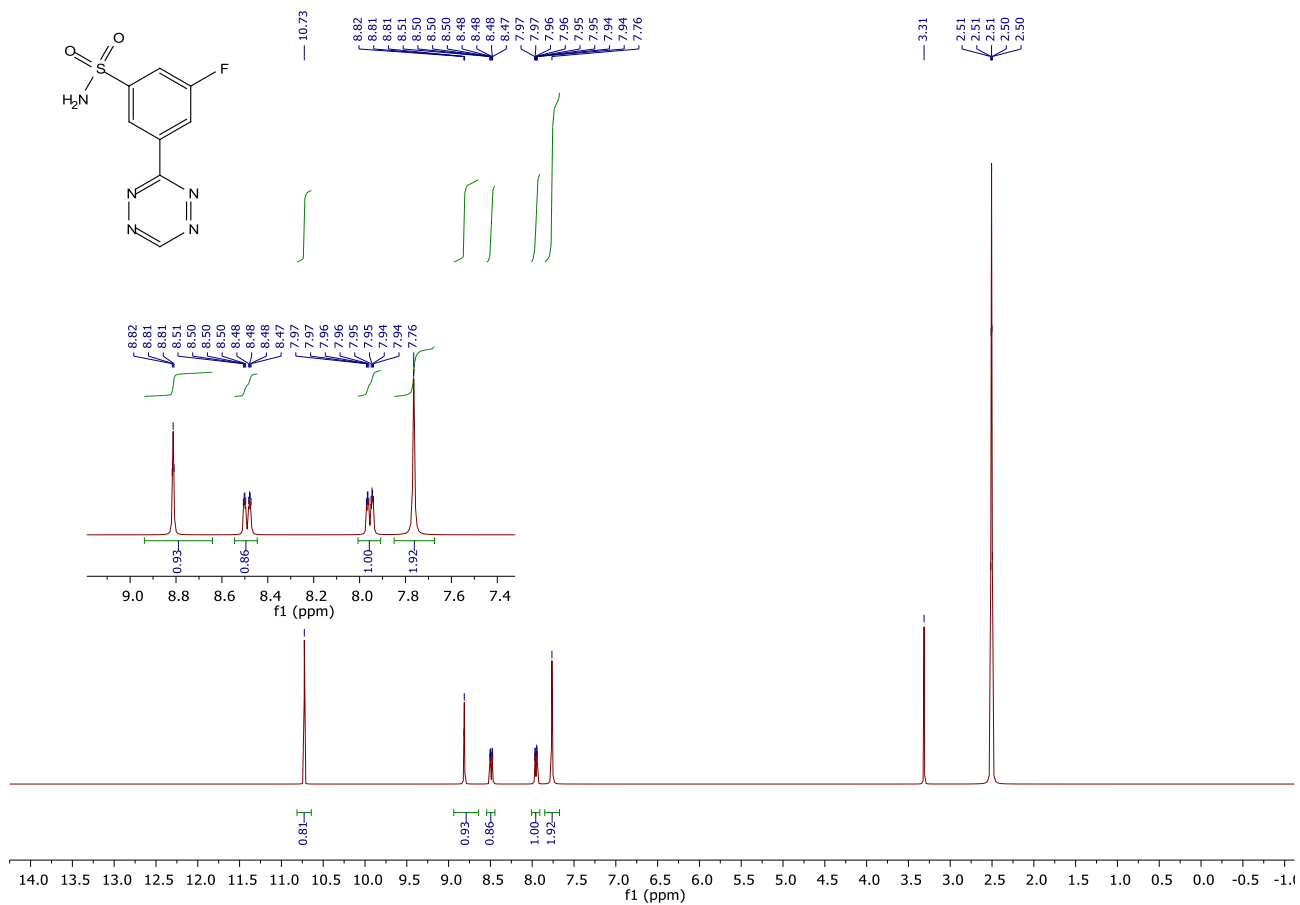
8.17  
8.03  
8.03  
8.02  
8.01  
8.01  
7.78  
7.78  
7.77  
7.76  
7.76  
7.75



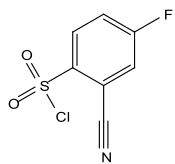
163.30  
160.72  
146.87  
146.80  
126.46  
126.42  
125.80  
125.56  
119.13  
118.88  
116.19  
116.10  
115.14  
115.11



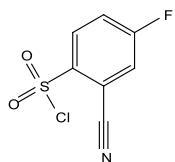
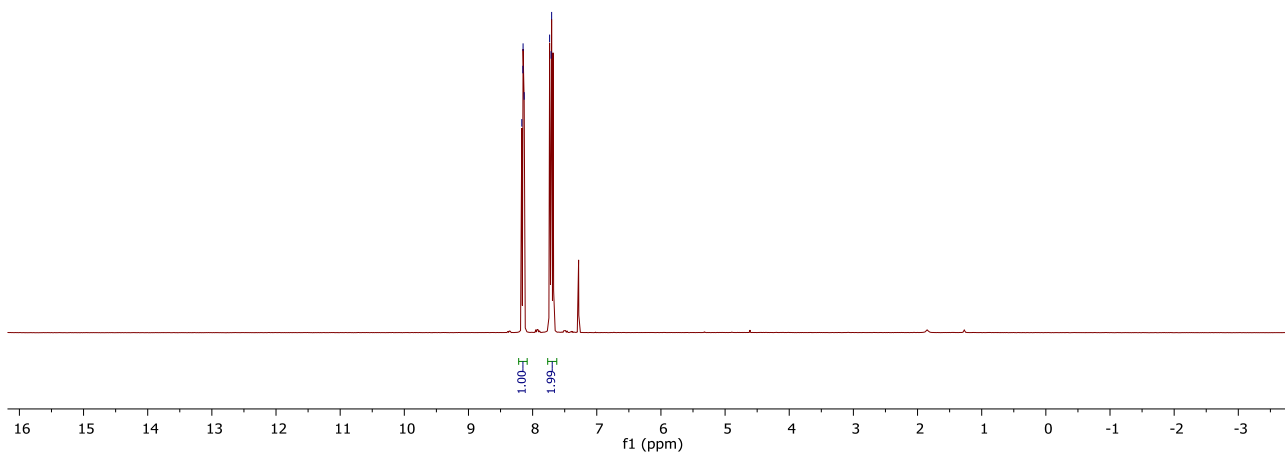




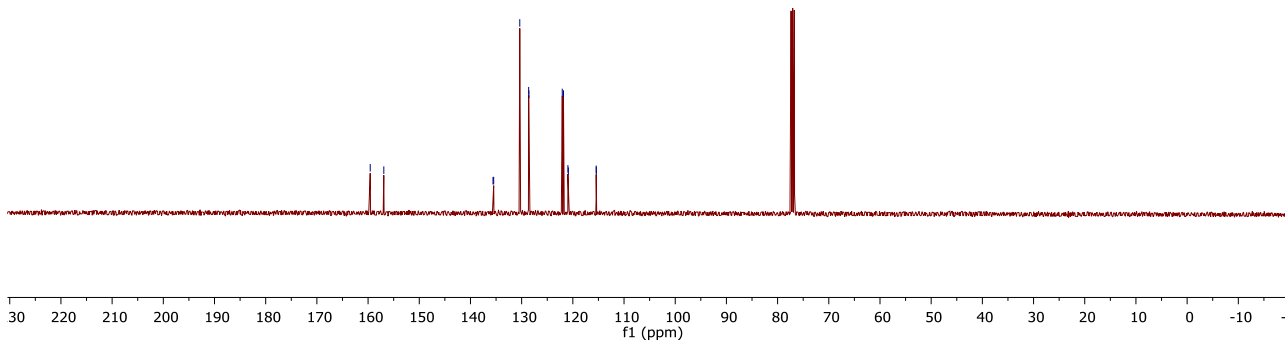


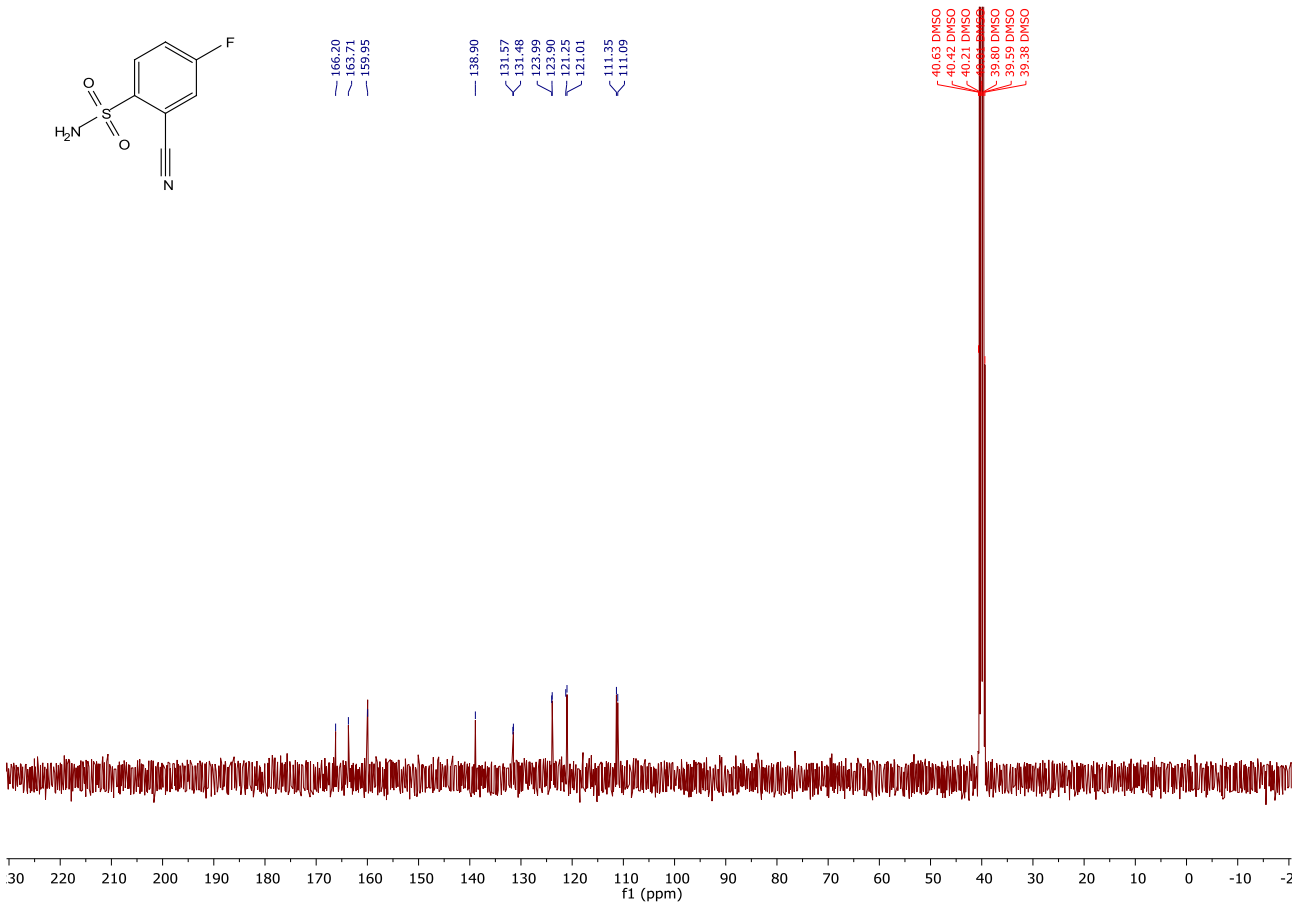
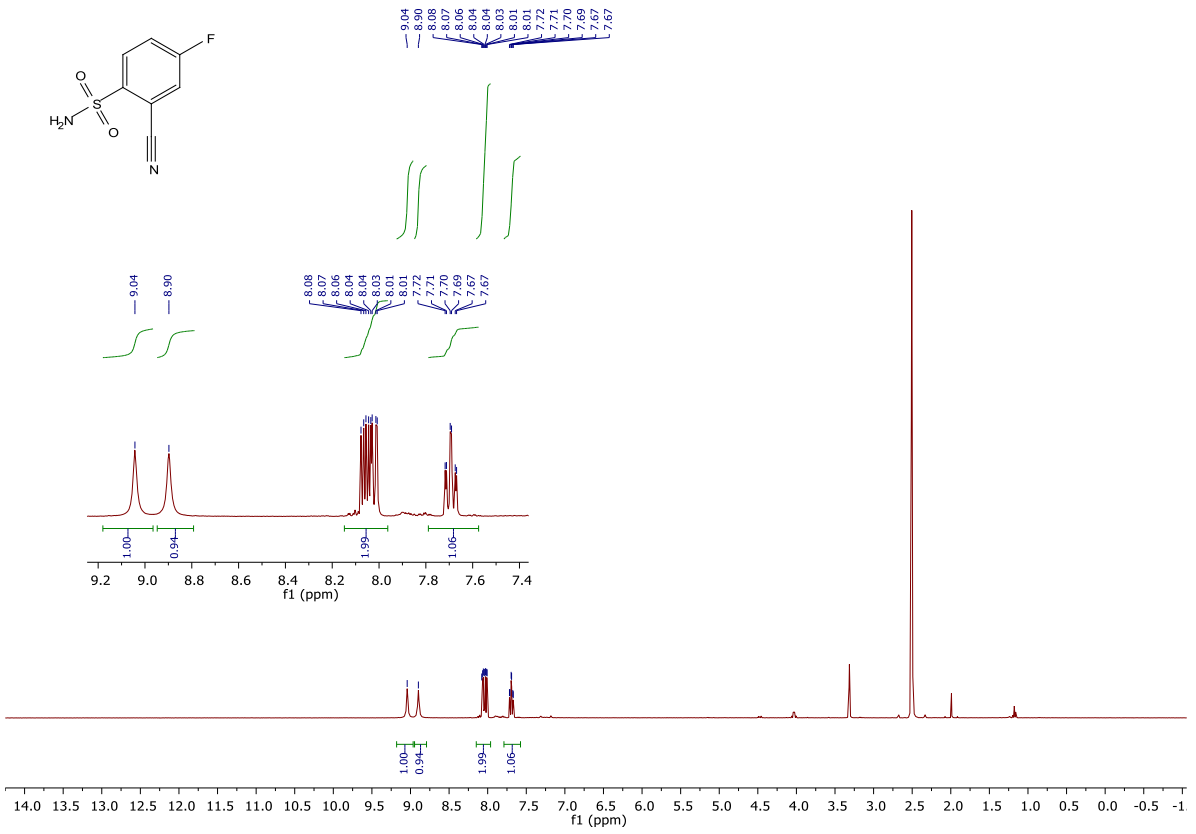


8.17  
8.15  
8.15  
8.13  
7.74  
7.71  
7.70

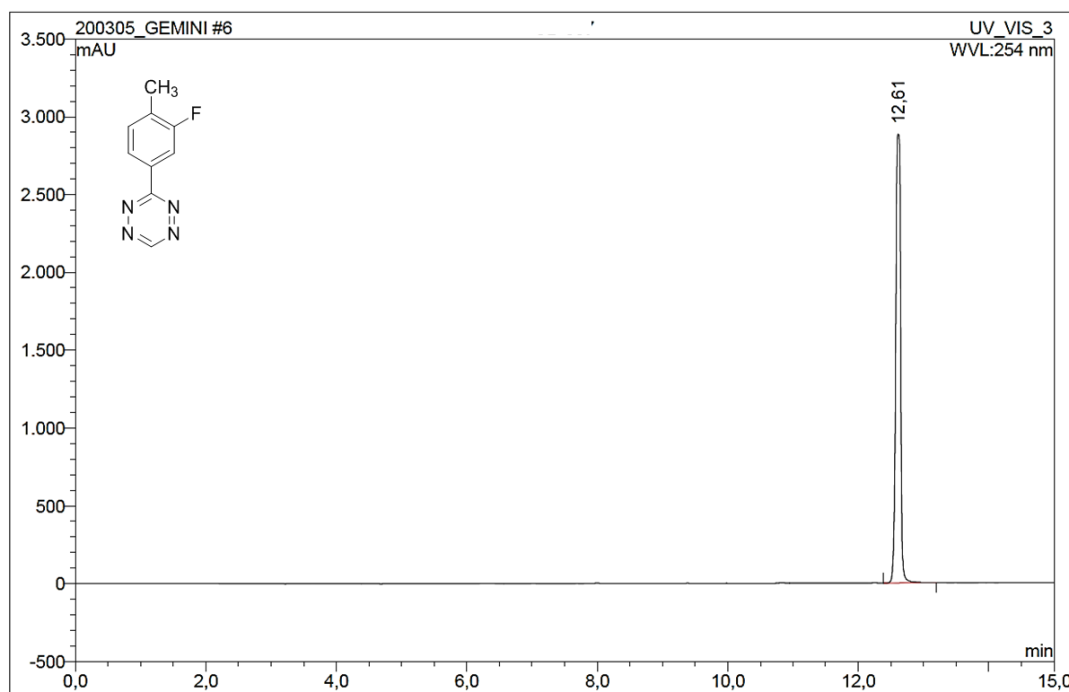


159.58  
156.93  
135.59  
135.46  
130.65  
128.63  
128.58  
122.07  
121.83  
120.96  
120.87  
115.44  
115.41

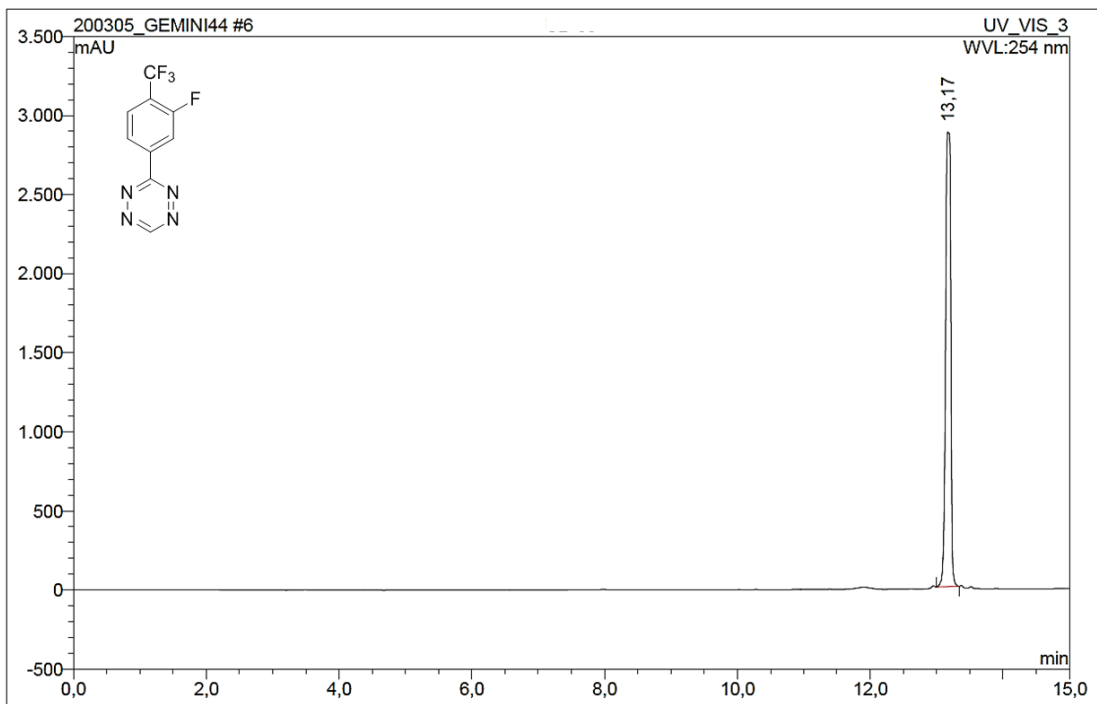




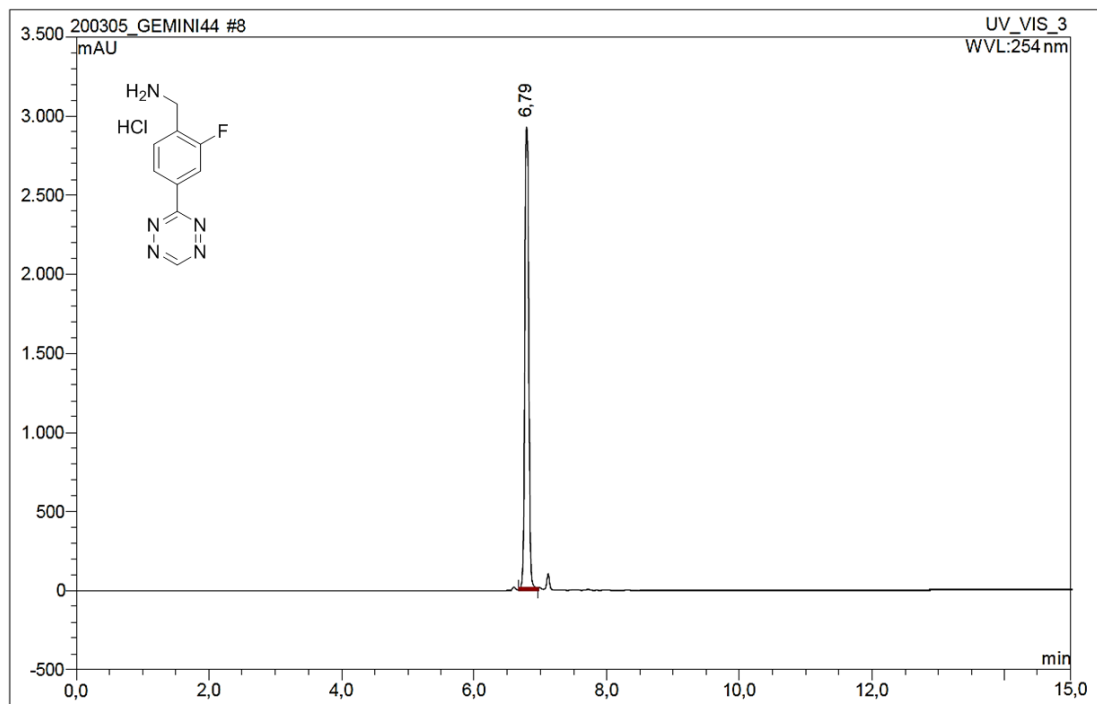
Analytical HPLC method: (Thermo Fisher® UltiMate 3000) with a C-18 column (Luna® 5u C18(2) 100Å, 150 x 4.6 mm), eluents: A: H<sub>2</sub>O with 0.1% TFA, B: MeCN with 0.1% TFA. Gradient from 100% A -> 100% B over 15minutes, back to 100% A over 4 minutes, flow rate 1.5 mL/min. Detection by UV-absorption at  $\lambda = 254$  nm on a UVD 170U detector.



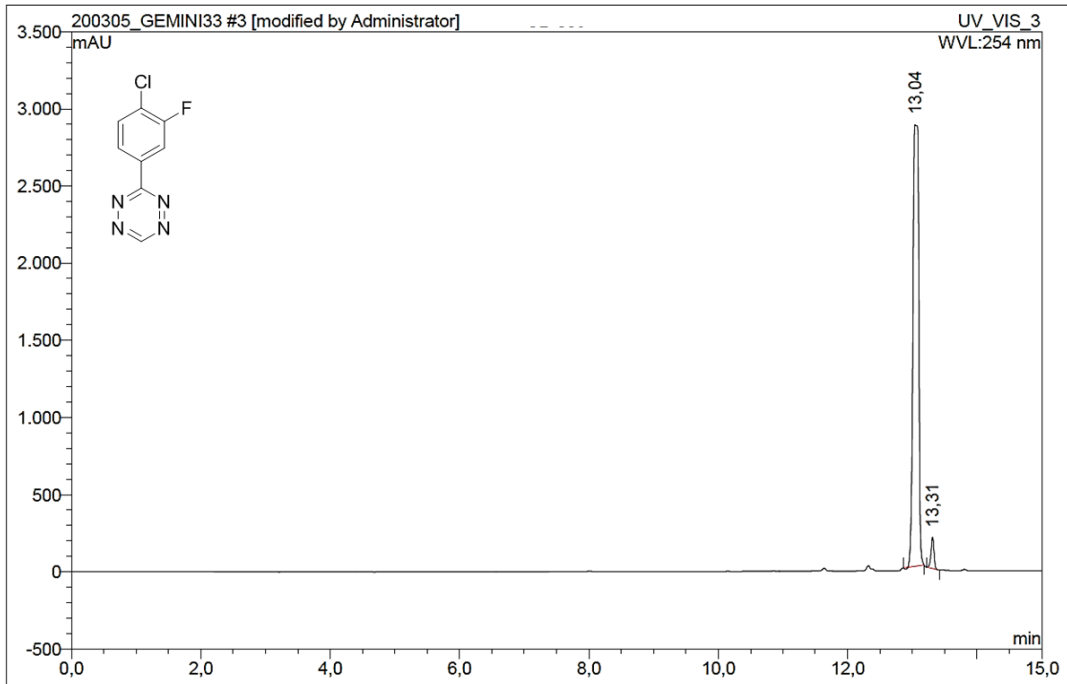
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	12,61	n.a.	2884,966	257,366	100,00	n.a.	n.a.
<b>Total:</b>			2884,966	257,366	100,00	0,000	



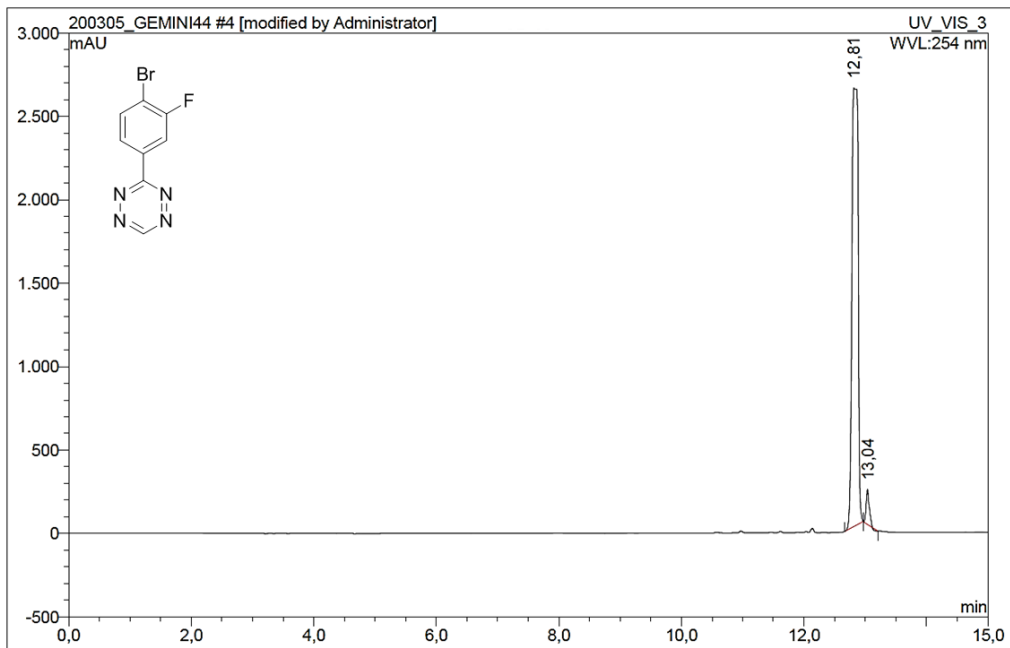
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	13,17	n.a.	2874,381	264,287	100,00	n.a.	n.a.
<b>Total:</b>			2874,381	264,287	100,00	0,000	



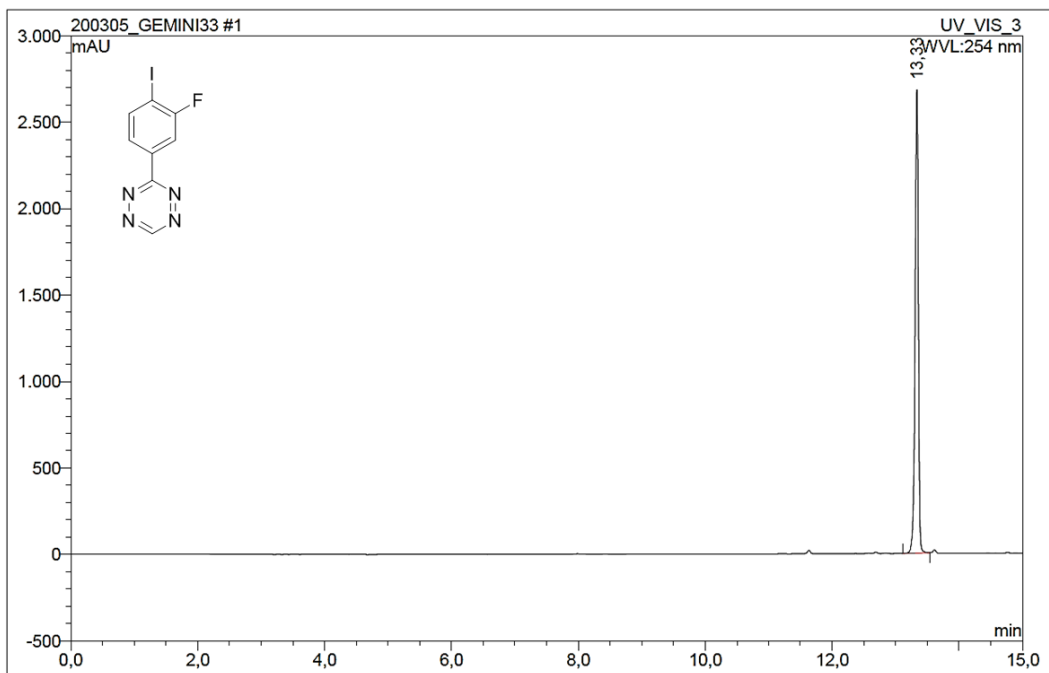
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	6,79	n.a.	2919,690	199,445	100,00	n.a.	n.a.
<b>Total:</b>			2919,690	199,445	100,00	0,000	



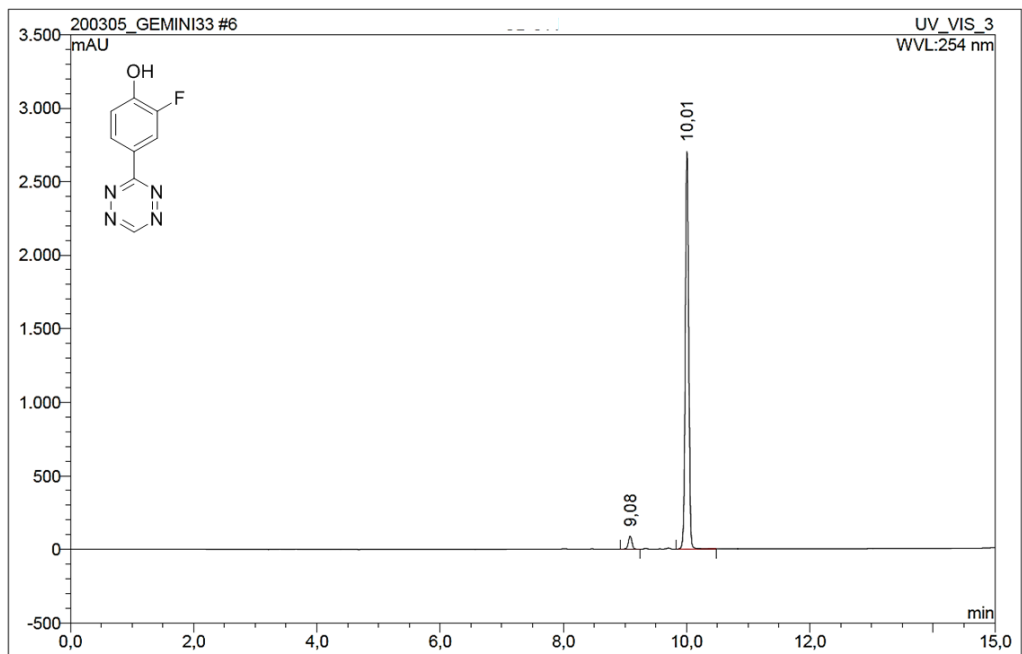
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	13,04	n.a.	2861,995	290,592	96,43	n.a.	2,16
2	13,31	n.a.	201,972	10,744	3,57	n.a.	n.a.
<b>Total:</b>			3063,966	301,336	100,00	0,000	



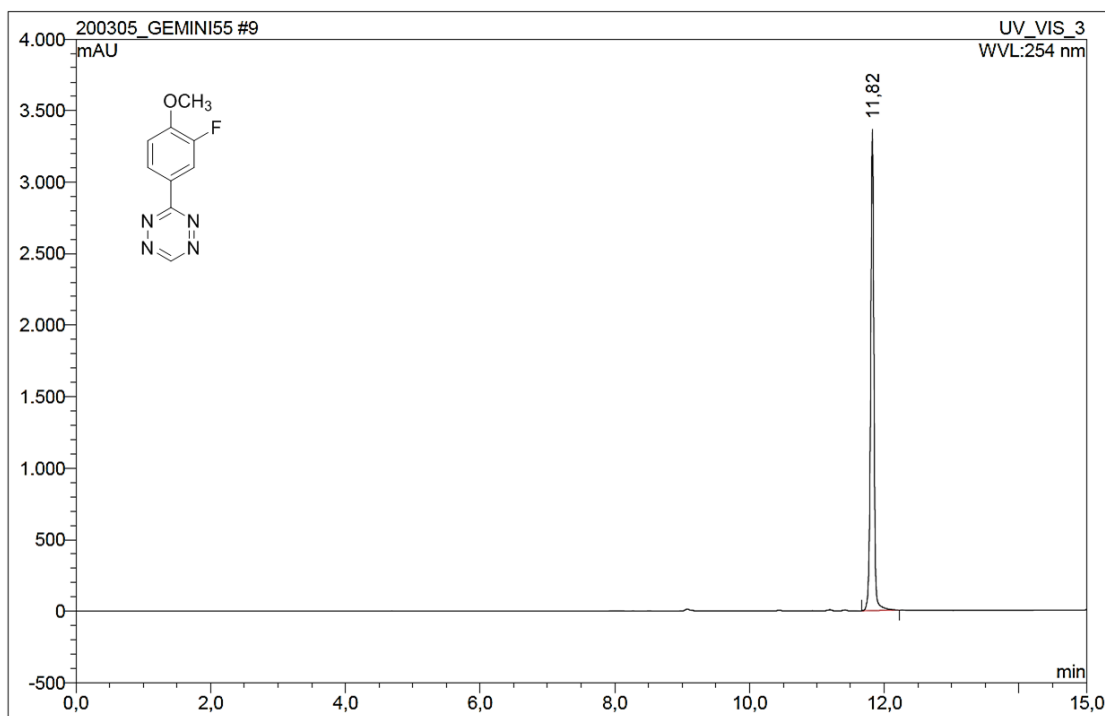
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	12,81	n.a.	2629,785	305,468	96,32	n.a.	1,62
2	13,04	n.a.	210,761	11,685	3,68	n.a.	n.a.
<b>Total:</b>			2840,546	317,153	100,00	0,000	



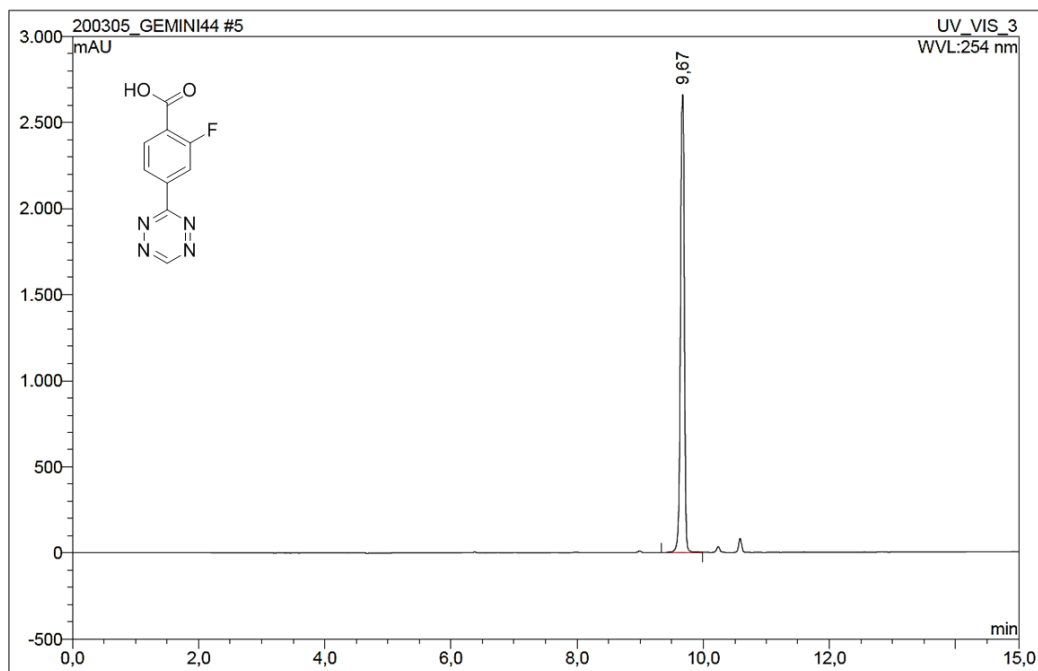
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	13,33	n.a.	2681,049	164,853	100,00	n.a.	n.a.
<b>Total:</b>			2681,049	164,853	100,00	0,000	



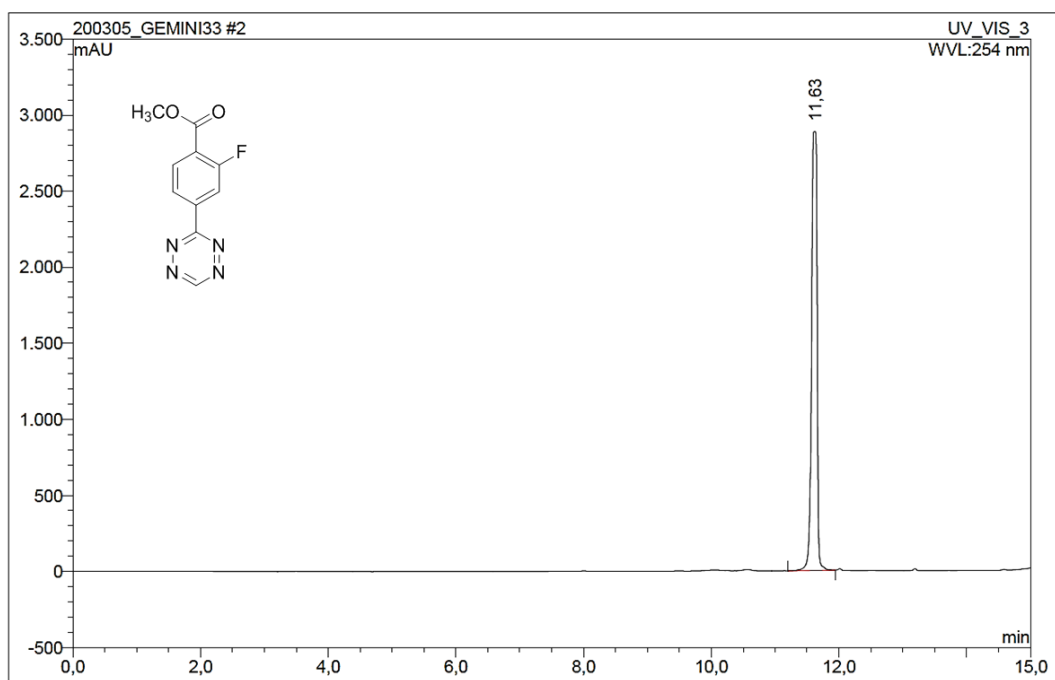
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,08	n.a.	87,592	5,690	3,19	n.a.	9,23
2	10,01	n.a.	2703,672	172,731	96,81	n.a.	n.a.
<b>Total:</b>			2791,264	178,420	100,00	0,000	



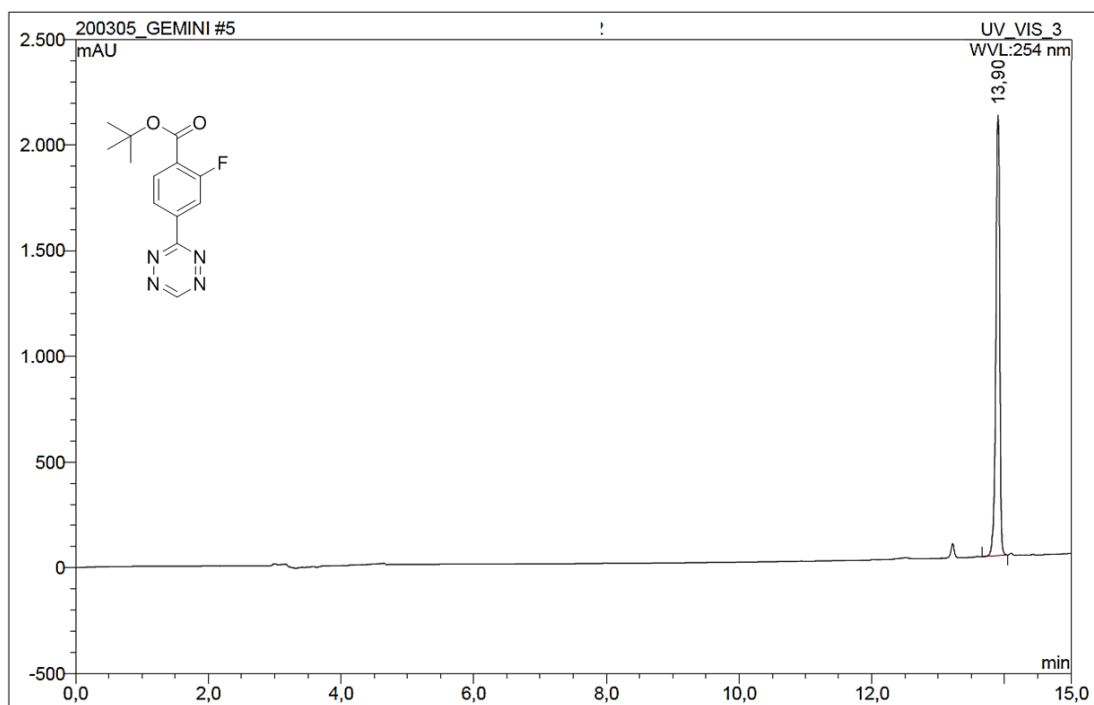
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	11,82	n.a.	3364,798	196,865	100,00	n.a.	n.a.
<b>Total:</b>			3364,798	196,865	100,00	0,000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,67	n.a.	2659,185	181,785	100,00	n.a.	n.a.
<b>Total:</b>			2659,185	181,785	100,00	0,000	

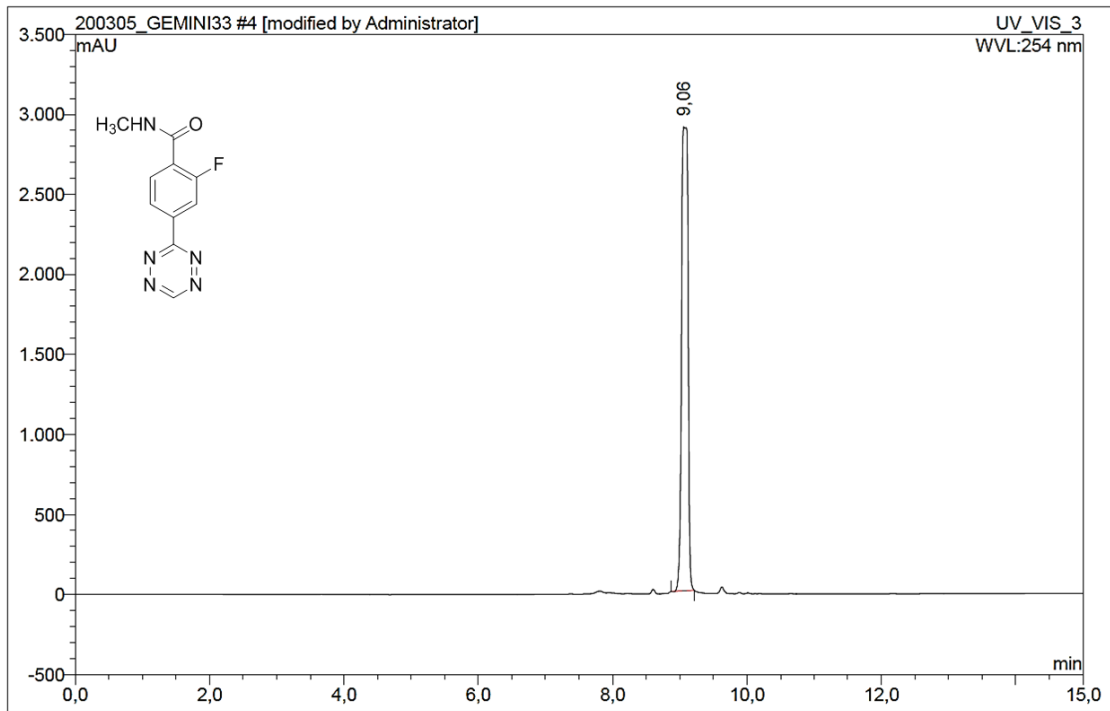


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	11,63	n.a.	2886,123	290,690	100,00	n.a.	n.a.
<b>Total:</b>			2886,123	290,690	100,00	0,000	

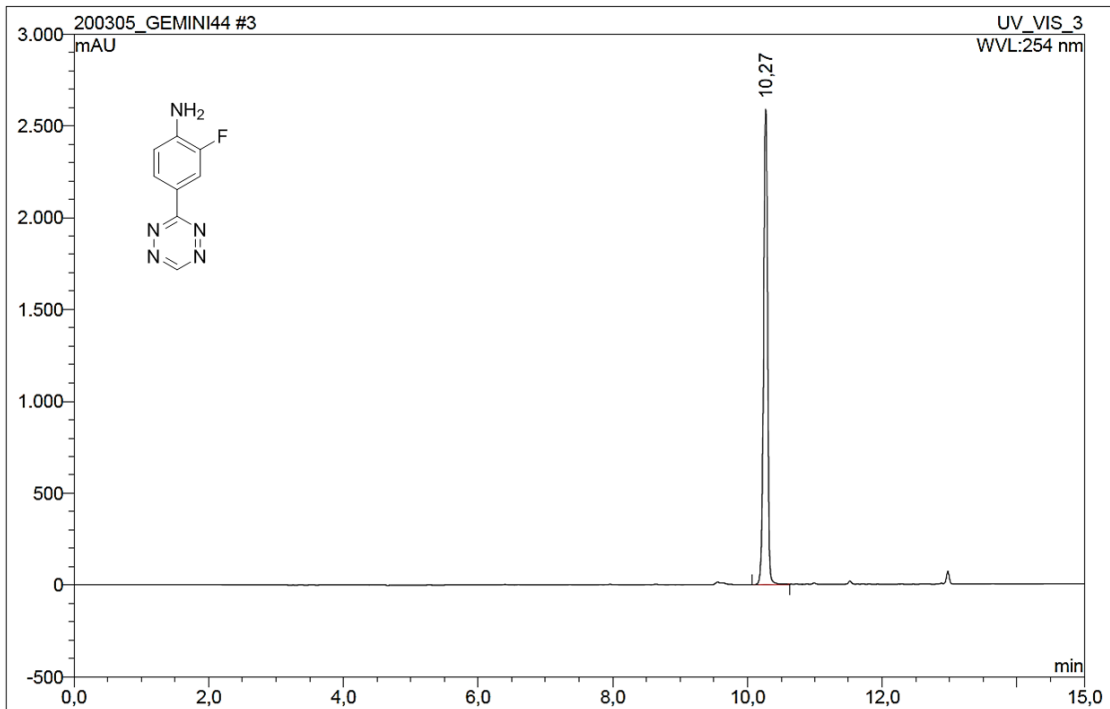


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	13,90	n.a.	2083,803	145,993	100,00	n.a.	n.a.
<b>Total:</b>			2083,803	145,993	100,00	0,000	

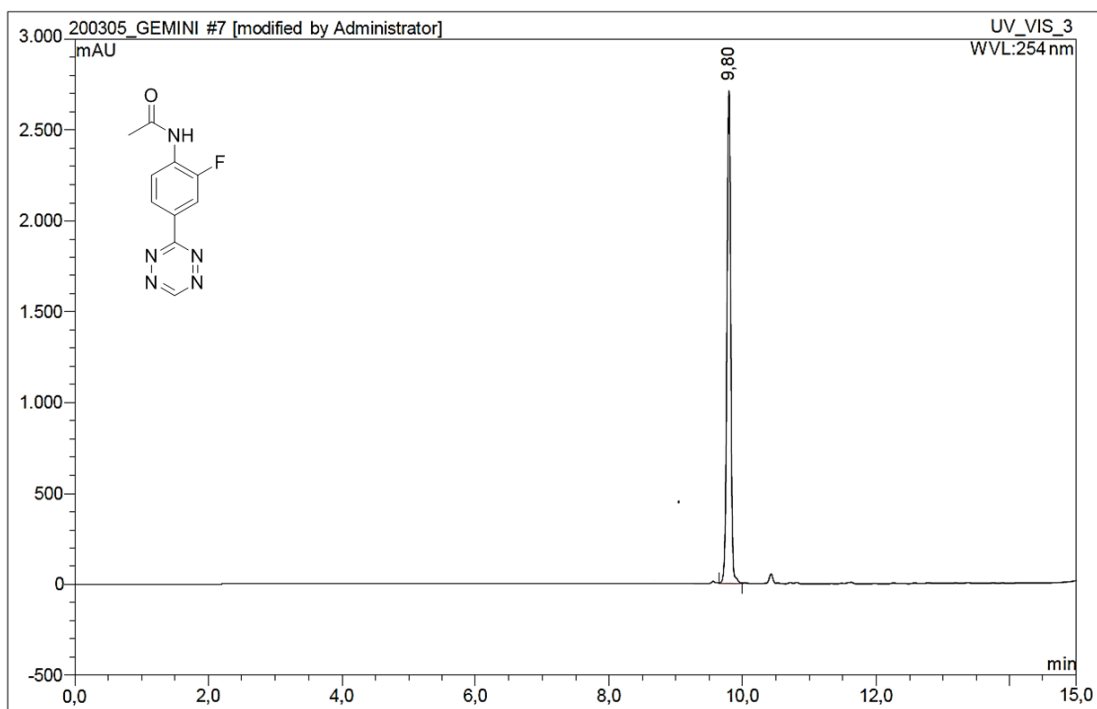




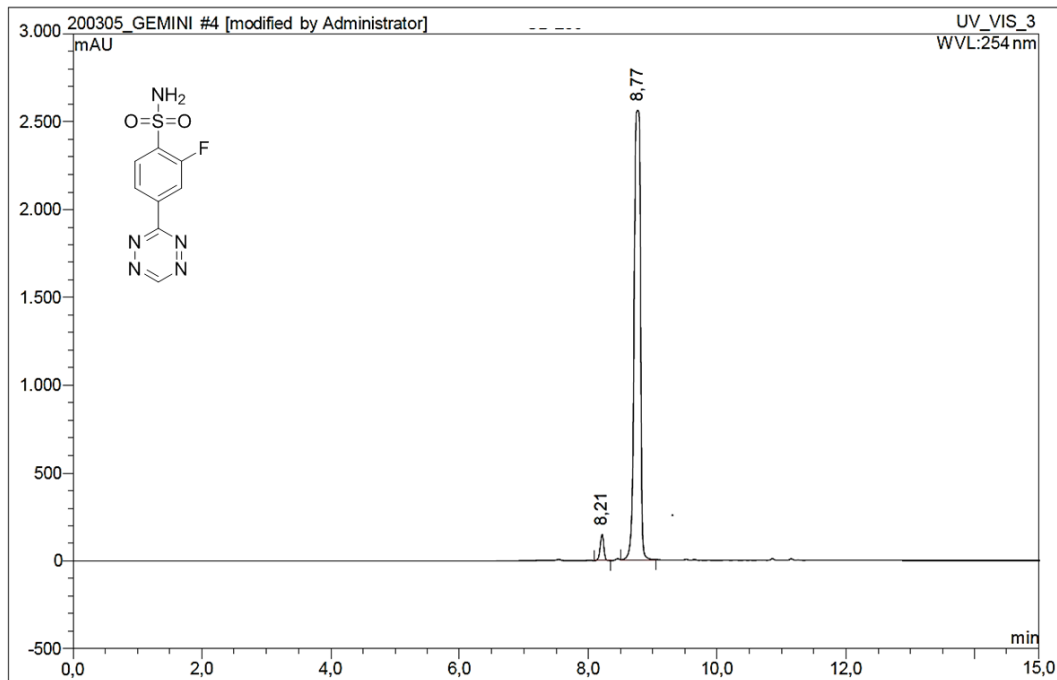
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,06	n.a.	2899,156	318,914	100,00	n.a.	n.a.
<b>Total:</b>			2899,156	318,914	100,00	0,000	



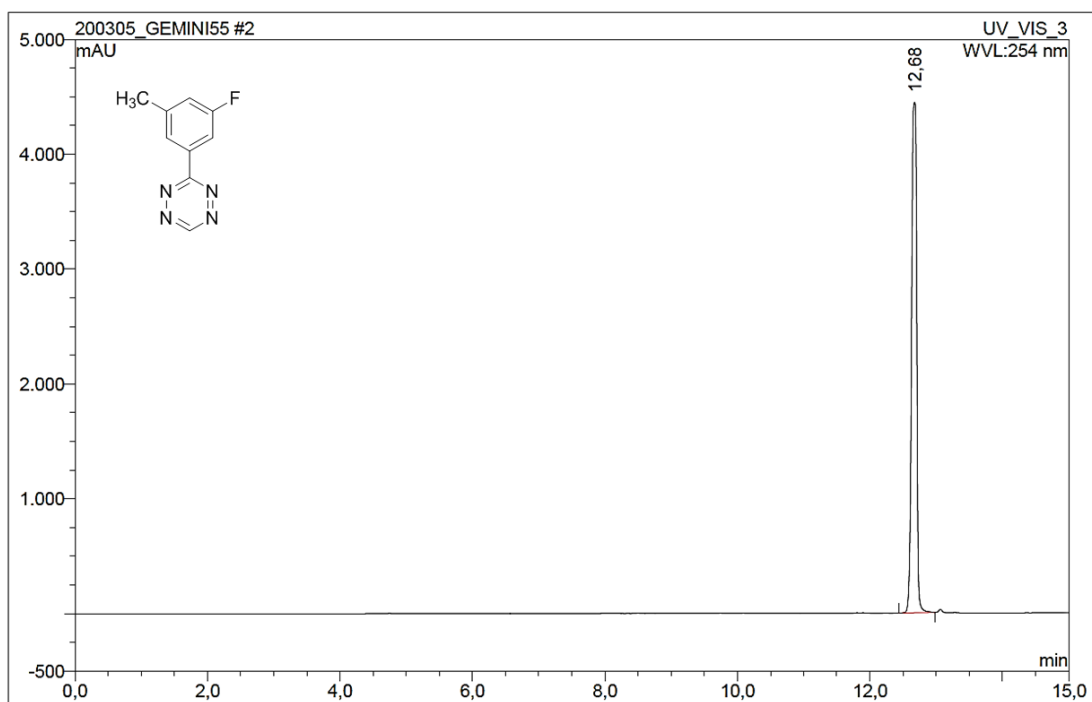
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	10,27	n.a.	2588,835	179,729	100,00	n.a.	n.a.
<b>Total:</b>			2588,835	179,729	100,00	0,000	



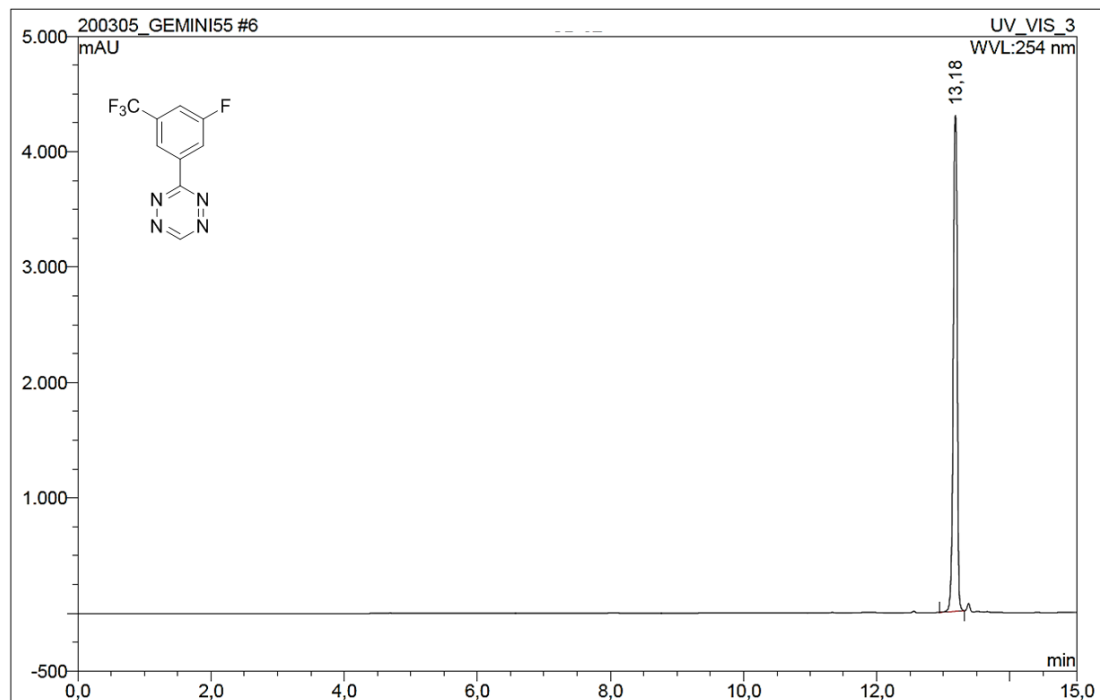
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,80	n.a.	2710,415	182,985	100,00	n.a.	n.a.
<b>Total:</b>			2710,415	182,985	100,00	0,000	



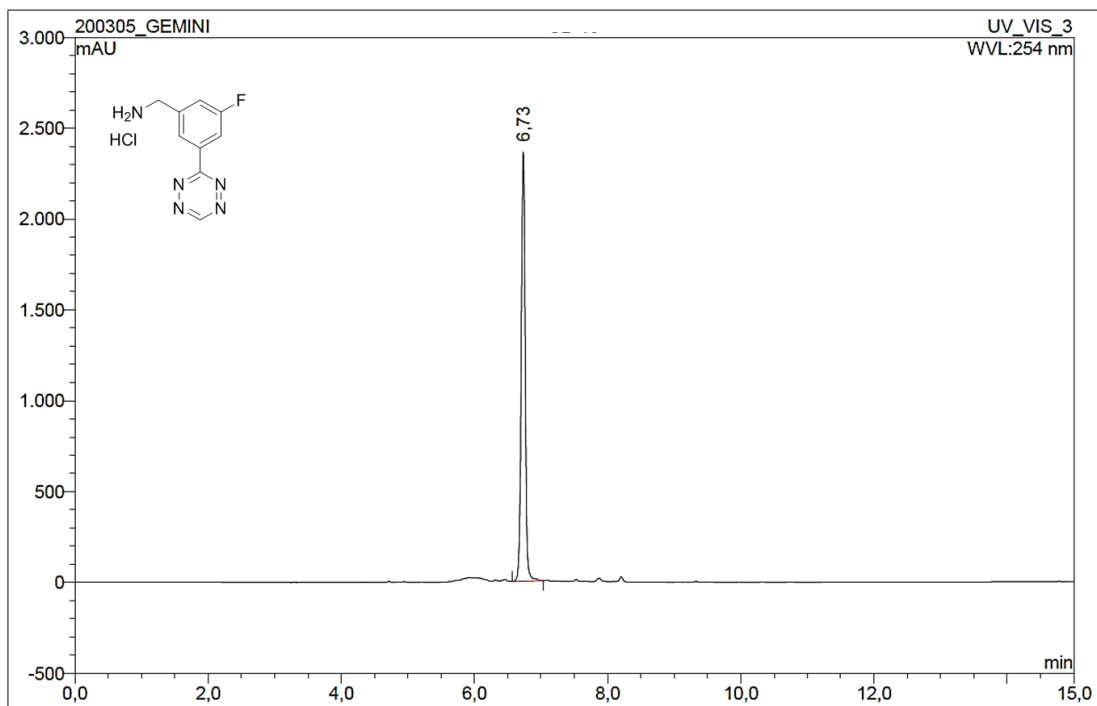
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	8,21	n.a.	149,124	9,859	3,27	n.a.	3,90
2	8,77	n.a.	2558,796	291,219	96,73	n.a.	n.a.
<b>Total:</b>			2707,920	301,078	100,00	0,000	



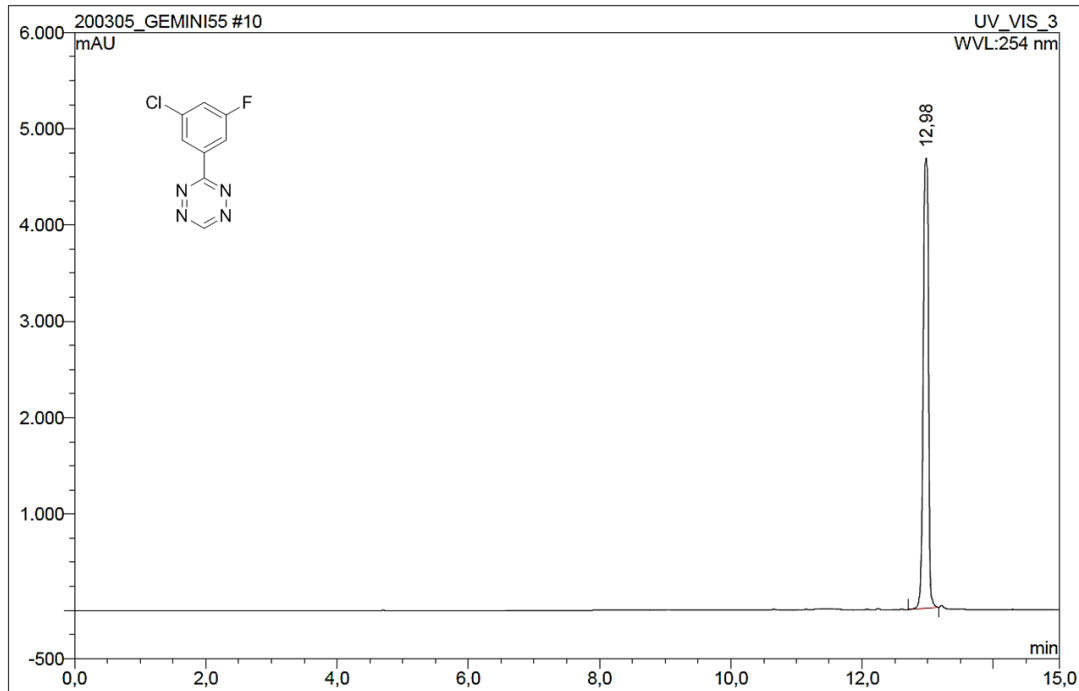
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	12,68	n.a.	4447,213	389,900	100,00	n.a.	n.a.
<b>Total:</b>			4447,213	389,900	100,00	0,000	



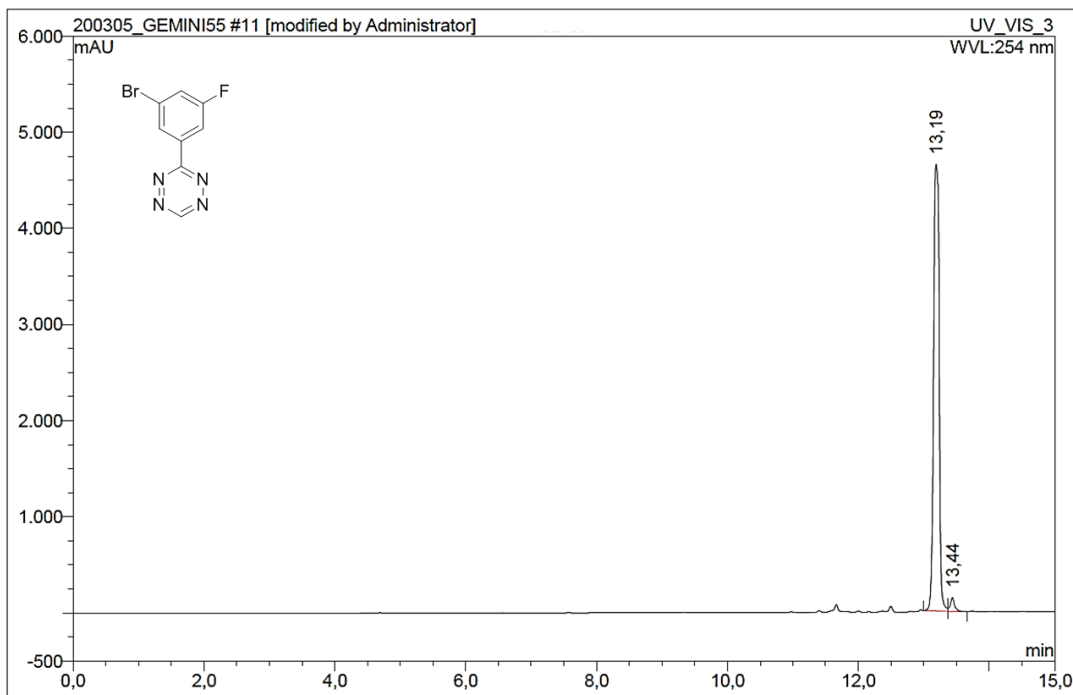
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	13,18	n.a.	4296,797	299,251	100,00	n.a.	n.a.
<b>Total:</b>			4296,797	299,251	100,00	0,000	



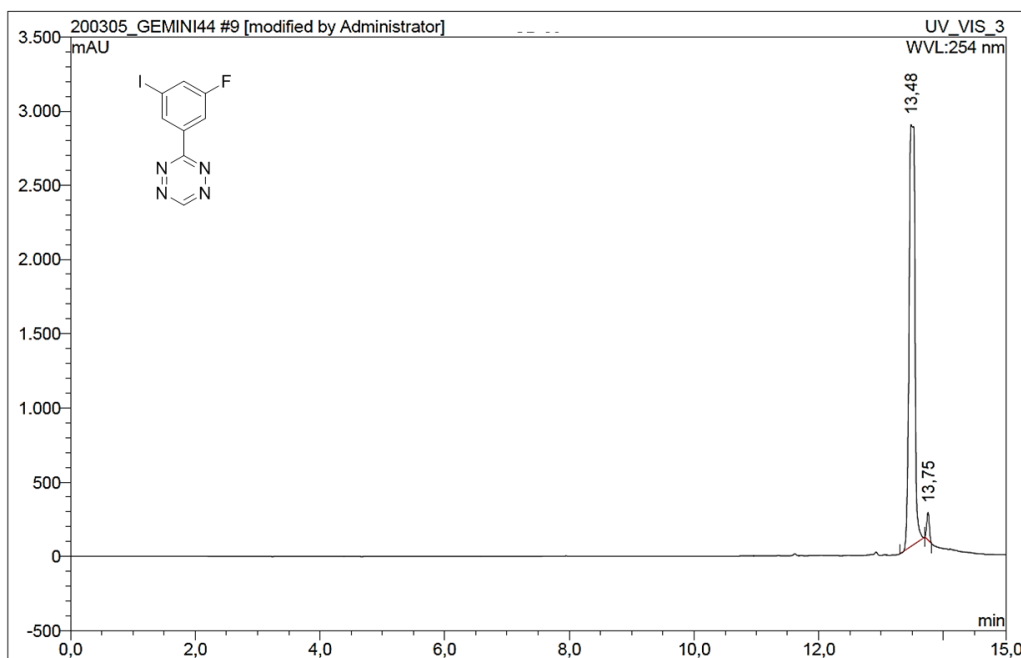
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	6,73	n.a.	2362,307	165,992	100,00	n.a.	n.a.
<b>Total:</b>			2362,307	165,992	100,00	0,000	



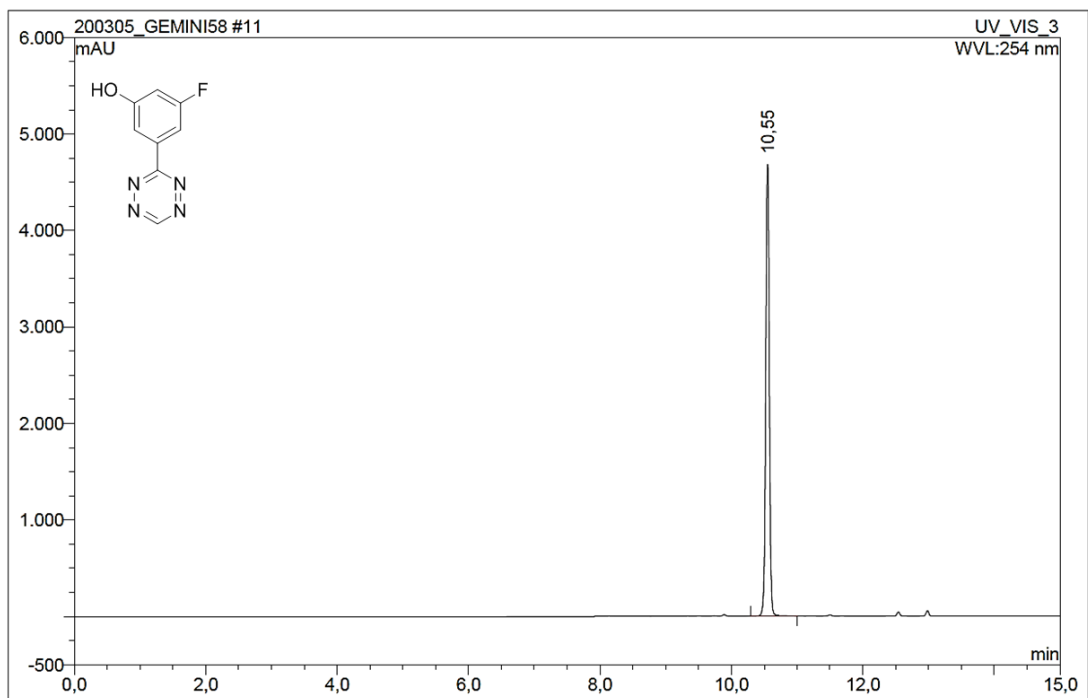
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	12,98	n.a.	4673,961	443,126	100,00	n.a.	n.a.
<b>Total:</b>			4673,961	443,126	100,00	0,000	



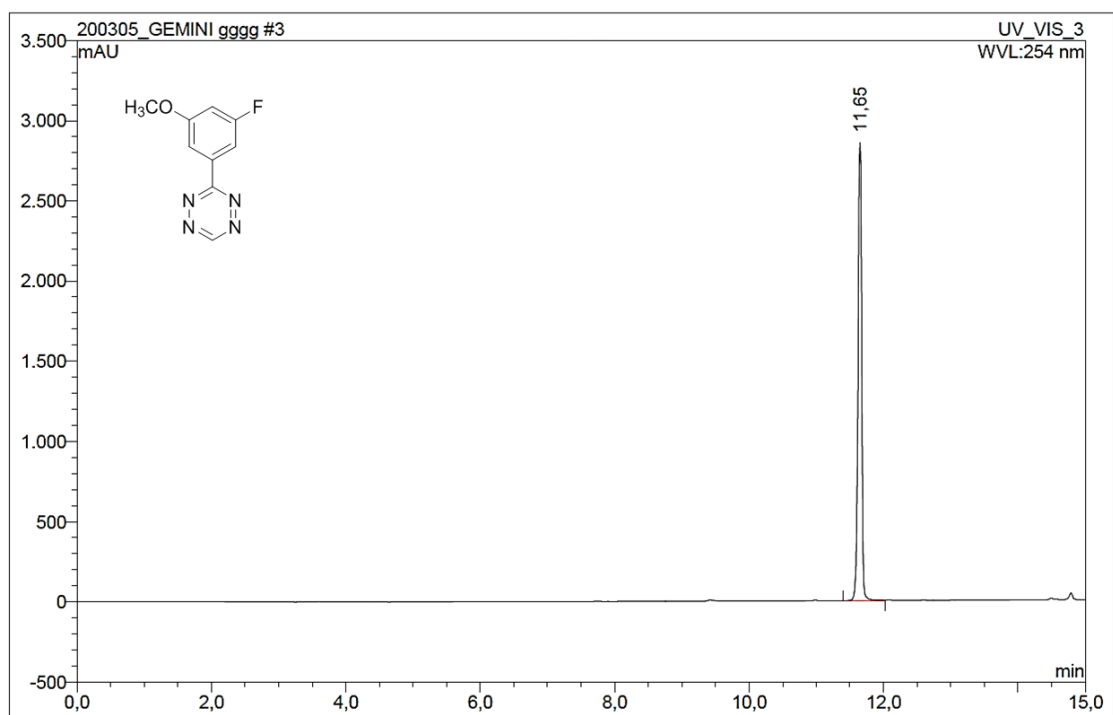
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	13,19	n.a.	4646,392	460,544	97,83	n.a.	1,94
2	13,44	n.a.	140,238	10,235	2,17	n.a.	n.a.
<b>Total:</b>			4786,630	470,779	100,00	0,000	



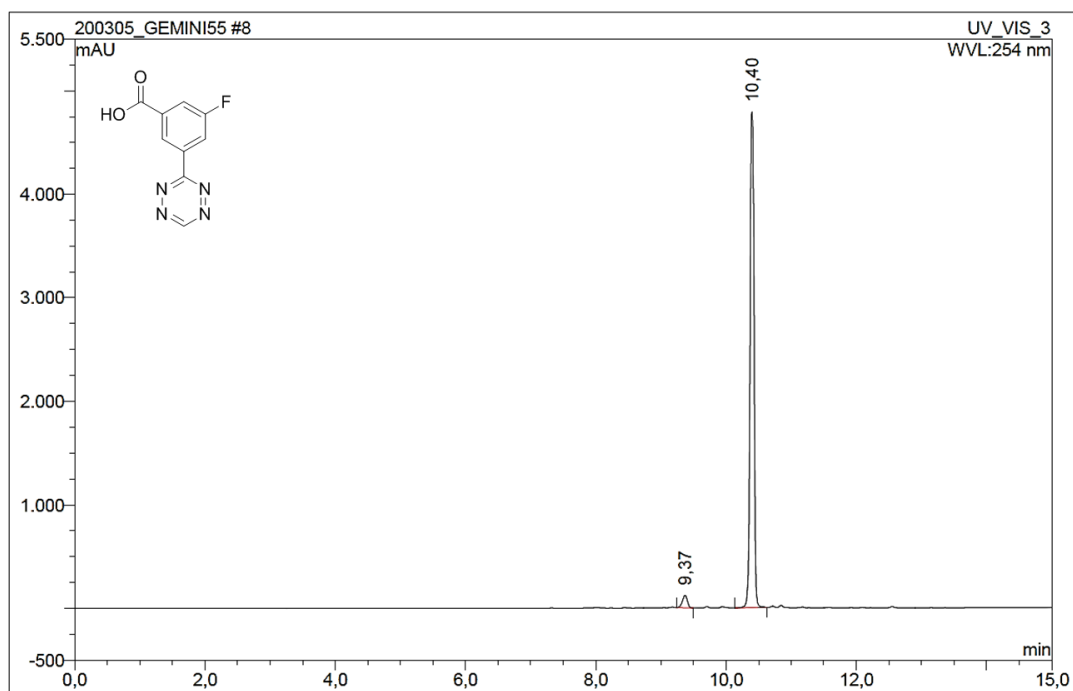
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	13,48	n.a.	2841,578	312,274	97,12	n.a.	2,16
2	13,75	n.a.	187,303	9,253	2,88	n.a.	n.a.
<b>Total:</b>			3028,882	321,527	100,00	0,000	



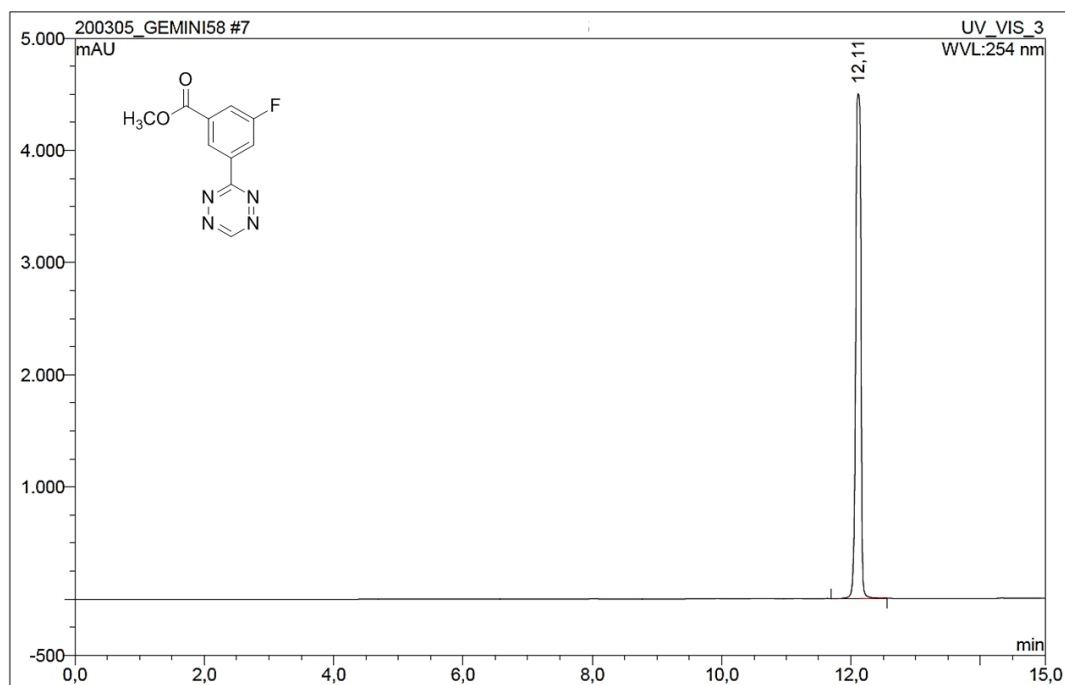
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	10,55	n.a.	4683,745	303,152	100,00	n.a.	n.a.
<b>Total:</b>			4683,745	303,152	100,00	0,000	



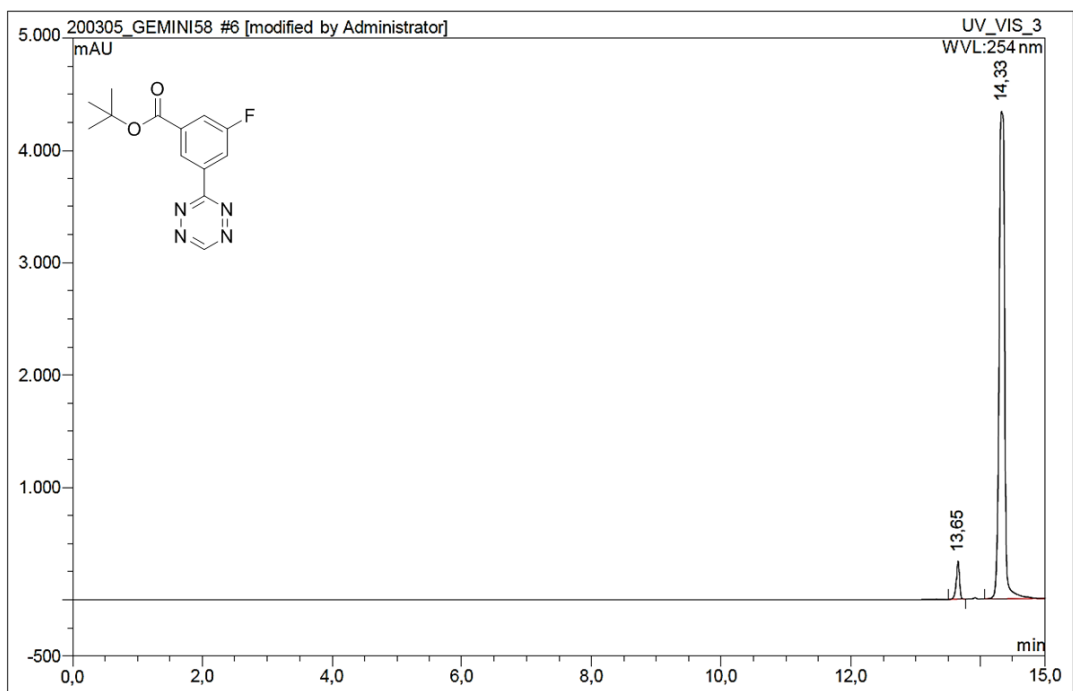
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	11,65	n.a.	2855,952	185,883	100,00	n.a.	n.a.
<b>Total:</b>			2855,952	185,883	100,00	0,000	



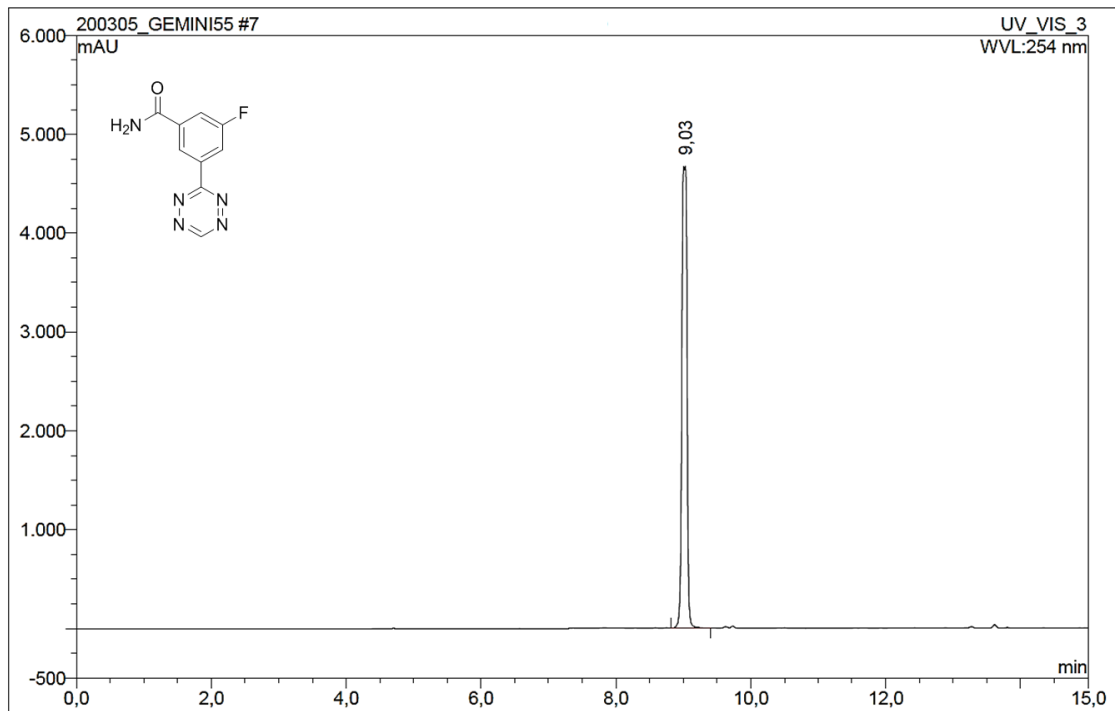
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,37	n.a.	121,321	10,980	3,22	n.a.	8,12
2	10,40	n.a.	4787,636	329,674	96,78	n.a.	n.a.
<b>Total:</b>			4908,957	340,653	100,00	0,000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	12,11	n.a.	4501,139	404,299	100,00	n.a.	n.a.
<b>Total:</b>			4501,139	404,299	100,00	0,000	

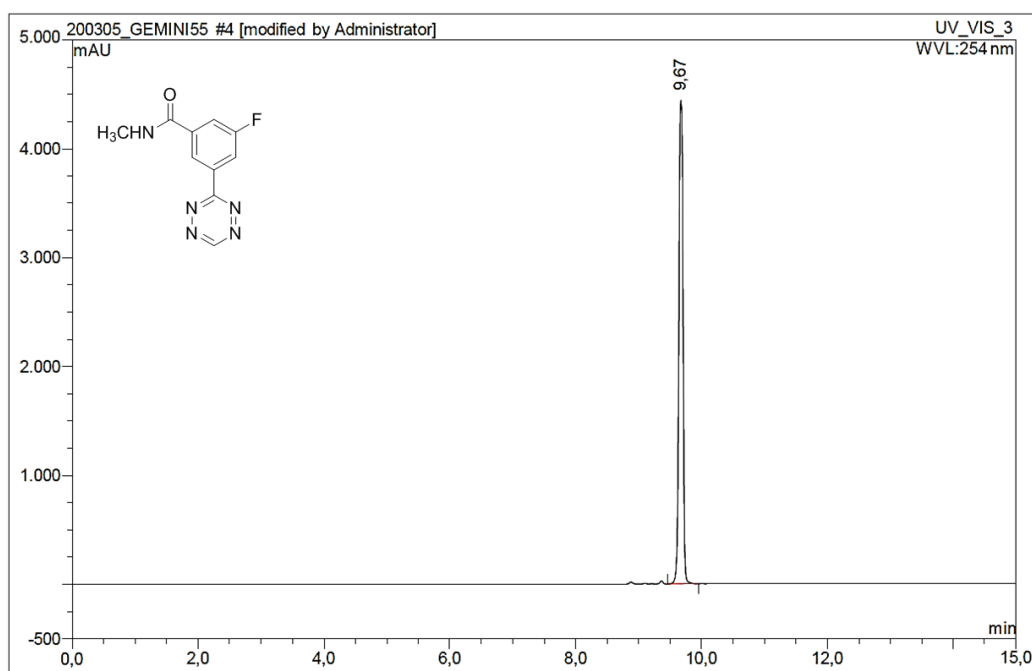


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	13,65	n.a.	336,773	19,138	4,21	n.a.	5,66
2	14,33	n.a.	4335,405	435,111	95,79	n.a.	n.a.
<b>Total:</b>			4672,178	454,249	100,00	0,000	

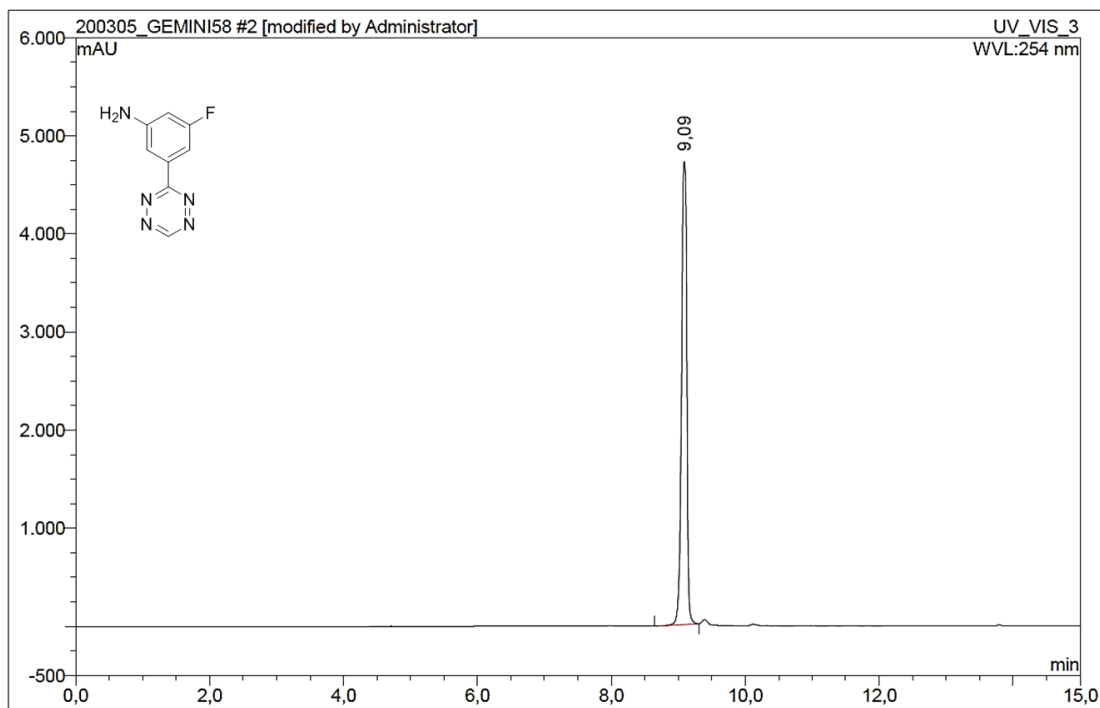


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,03	n.a.	4674,329	415,956	100,00	n.a.	n.a.
<b>Total:</b>			4674,329	415,956	100,00	0,000	

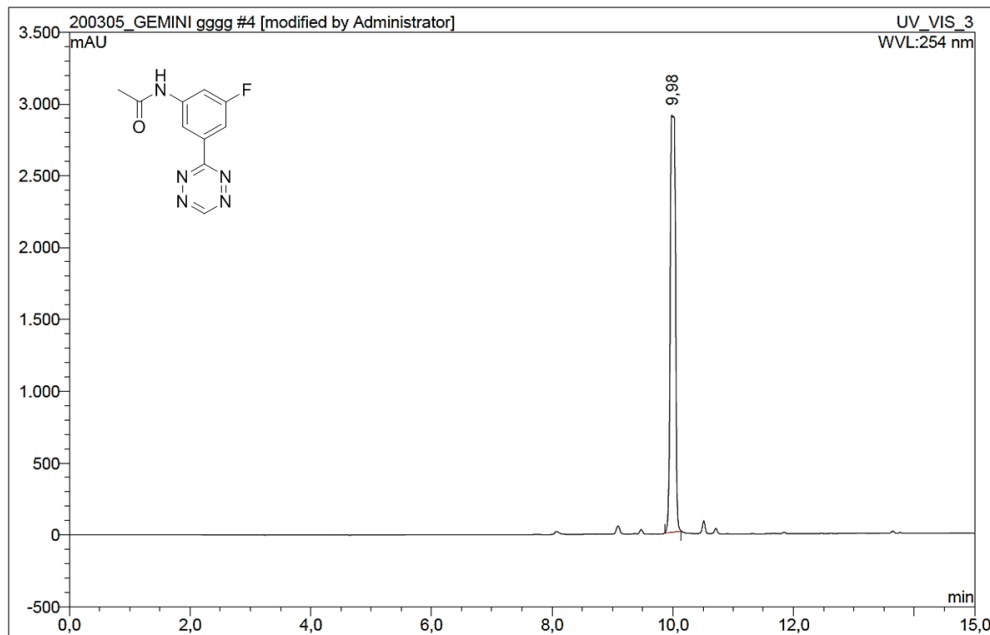




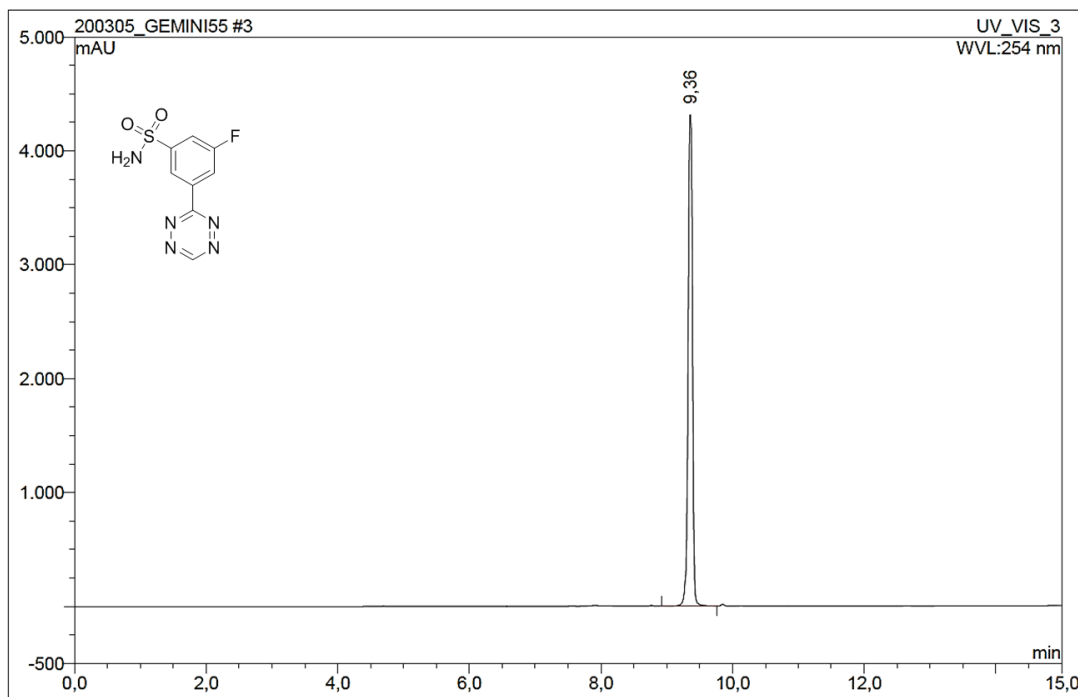
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,67	n.a.	4439,383	329,694	100,00	n.a.	n.a.
<b>Total:</b>			4439,383	329,694	100,00	0,000	



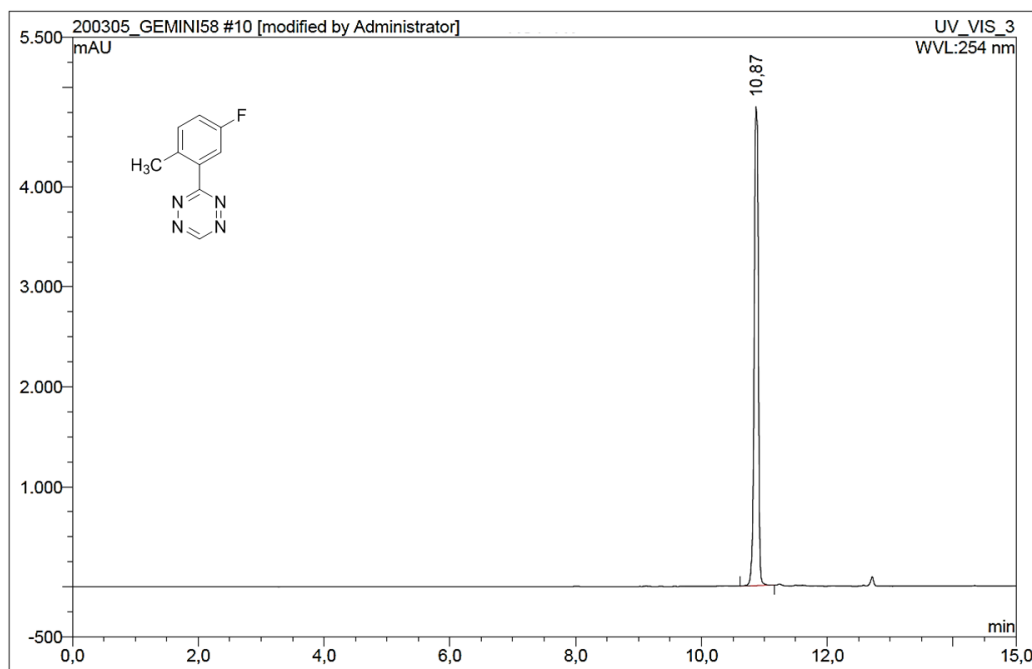
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,09	n.a.	4719,630	422,525	100,00	n.a.	n.a.
<b>Total:</b>			4719,630	422,525	100,00	0,000	



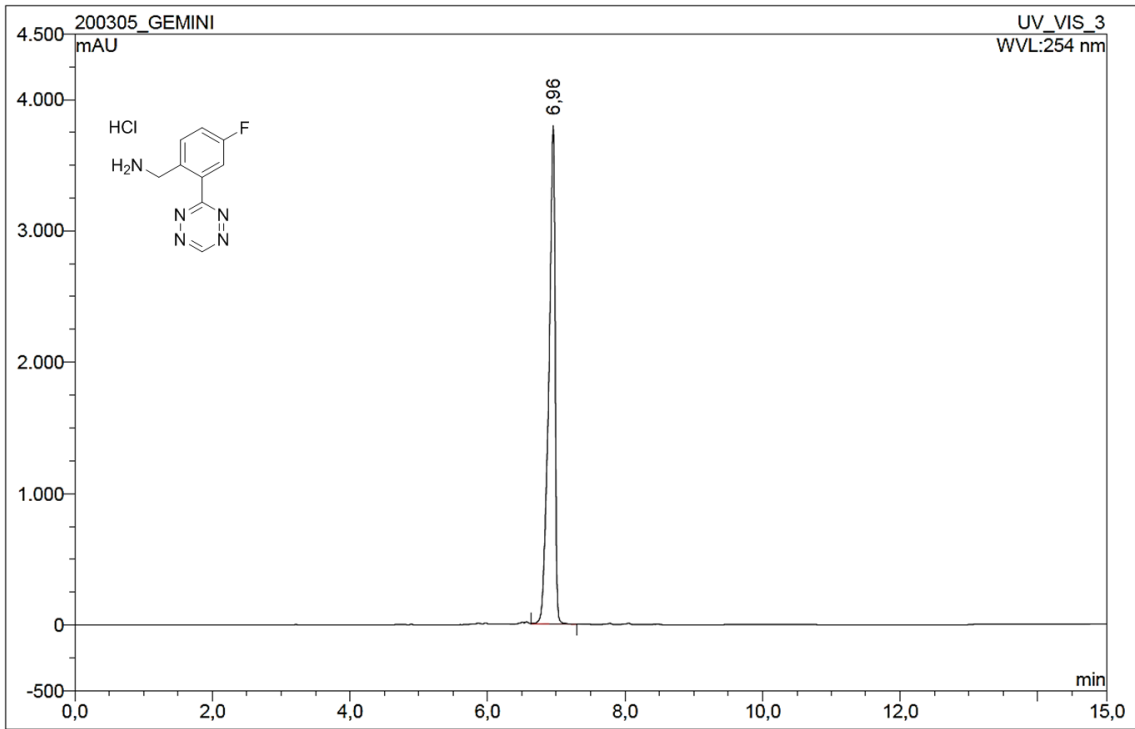
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,98	n.a.	2906,144	287,377	100,00	n.a.	n.a.
<b>Total:</b>			2906,144	287,377	100,00	0,000	



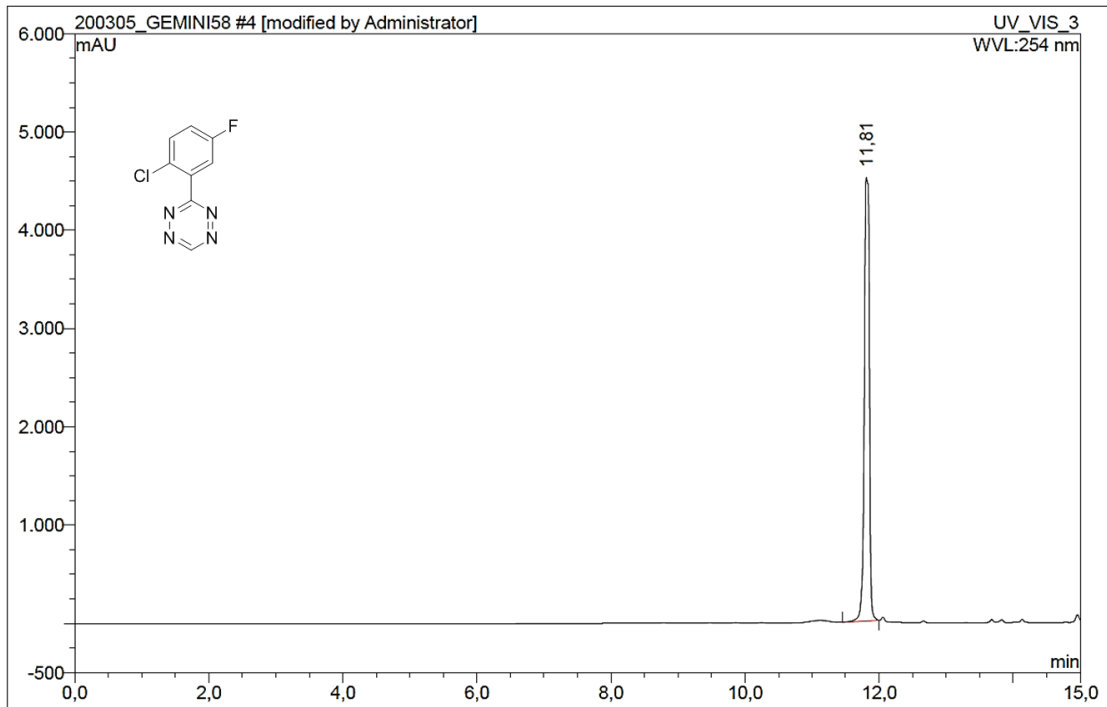
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	9,36	n.a.	4316,048	342,894	100,00	n.a.	n.a.
<b>Total:</b>			4316,048	342,894	100,00	0,000	



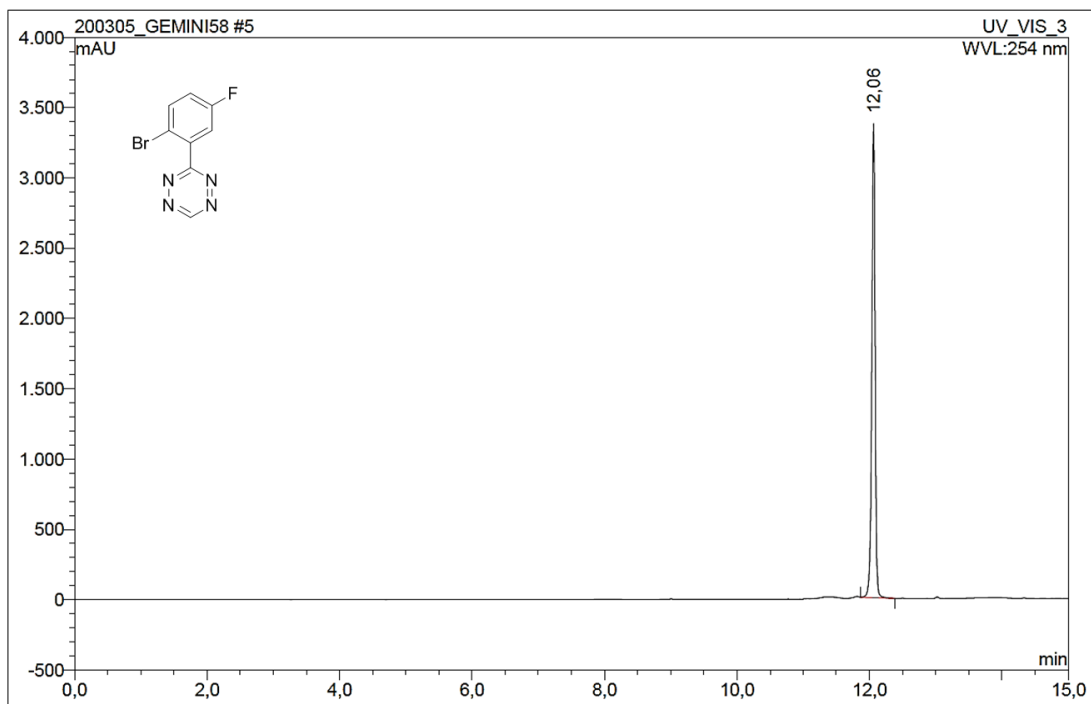
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	10,87	n.a.	4790,359	370,750	100,00	n.a.	n.a.
<b>Total:</b>			4790,359	370,750	100,00	0,000	



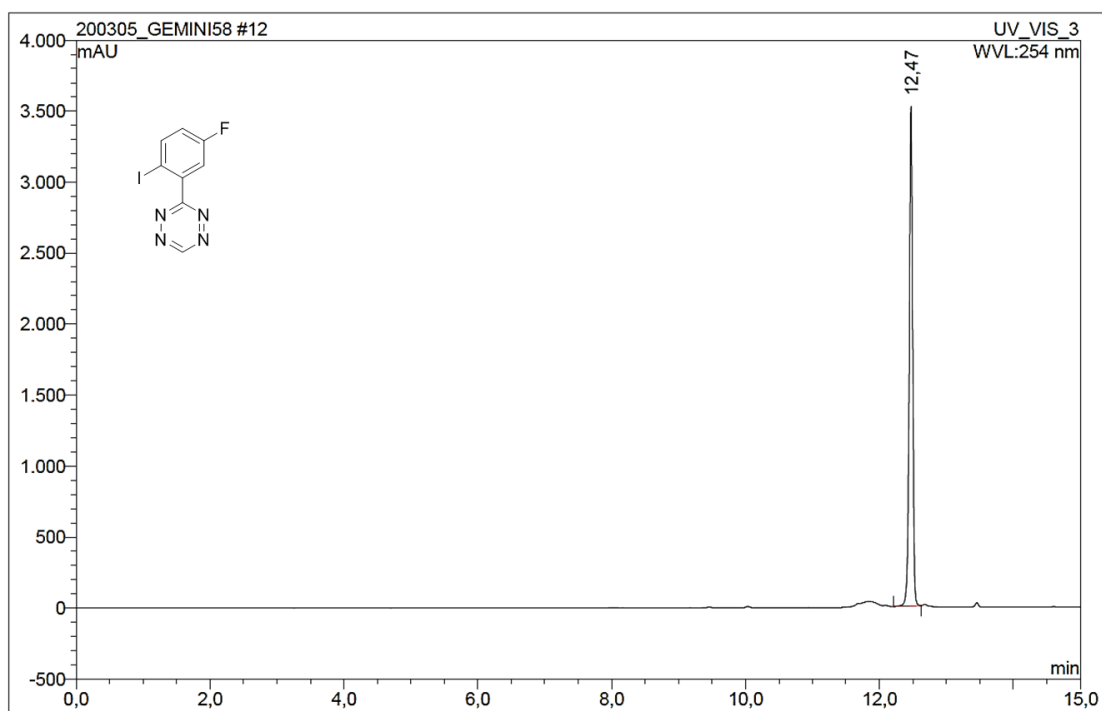
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	6,96	n.a.	3793,131	410,000	100,00	n.a.	n.a.
<b>Total:</b>			3793,131	410,000	100,00	0,000	



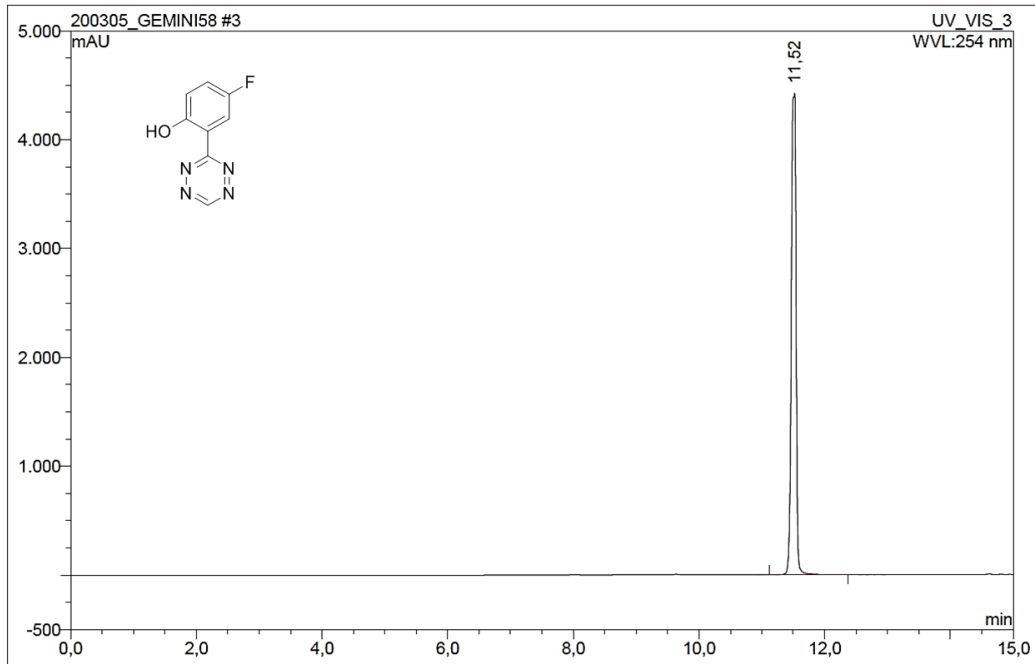
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	11,81	n.a.	4513,036	407,347	100,00	n.a.	n.a.
<b>Total:</b>			4513,036	407,347	100,00	0,000	



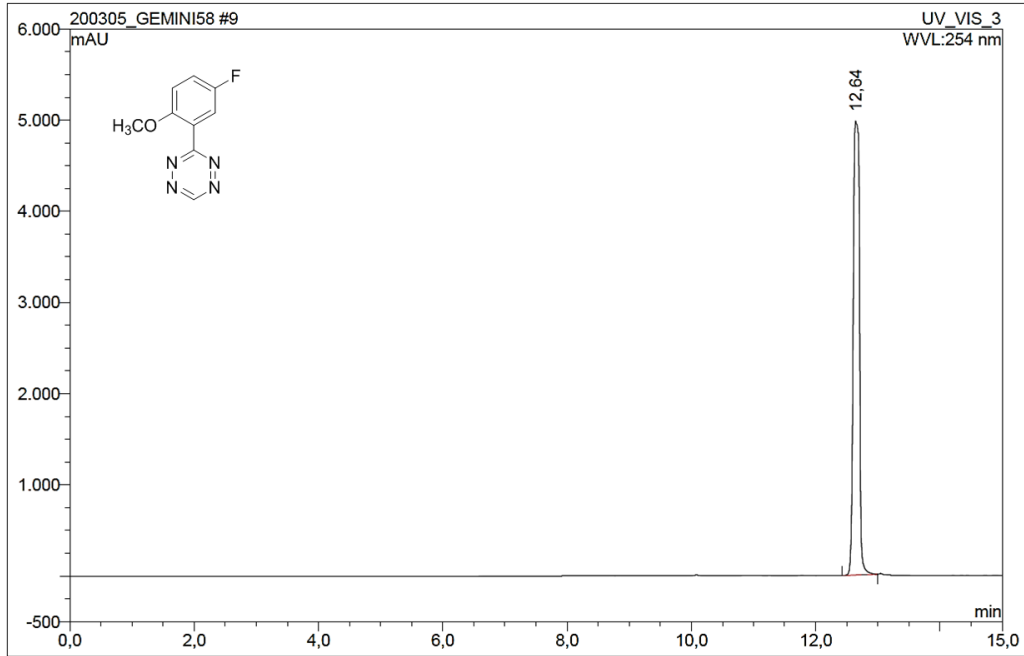
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	12,06	n.a.	3374,109	198,828	100,00	n.a.	n.a.
<b>Total:</b>			3374,109	198,828	100,00	0,000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	12,47	n.a.	3522,036	202,789	100,00	n.a.	n.a.
<b>Total:</b>			3522,036	202,789	100,00	0,000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	11,52	n.a.	4425,163	388,582	100,00	n.a.	n.a.
<b>Total:</b>			4425,163	388,582	100,00	0,000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Resolution(EP)
1	12,64	n.a.	4981,204	567,379	100,00	n.a.	n.a.
<b>Total:</b>			4981,204	567,379	100,00	0,000	