

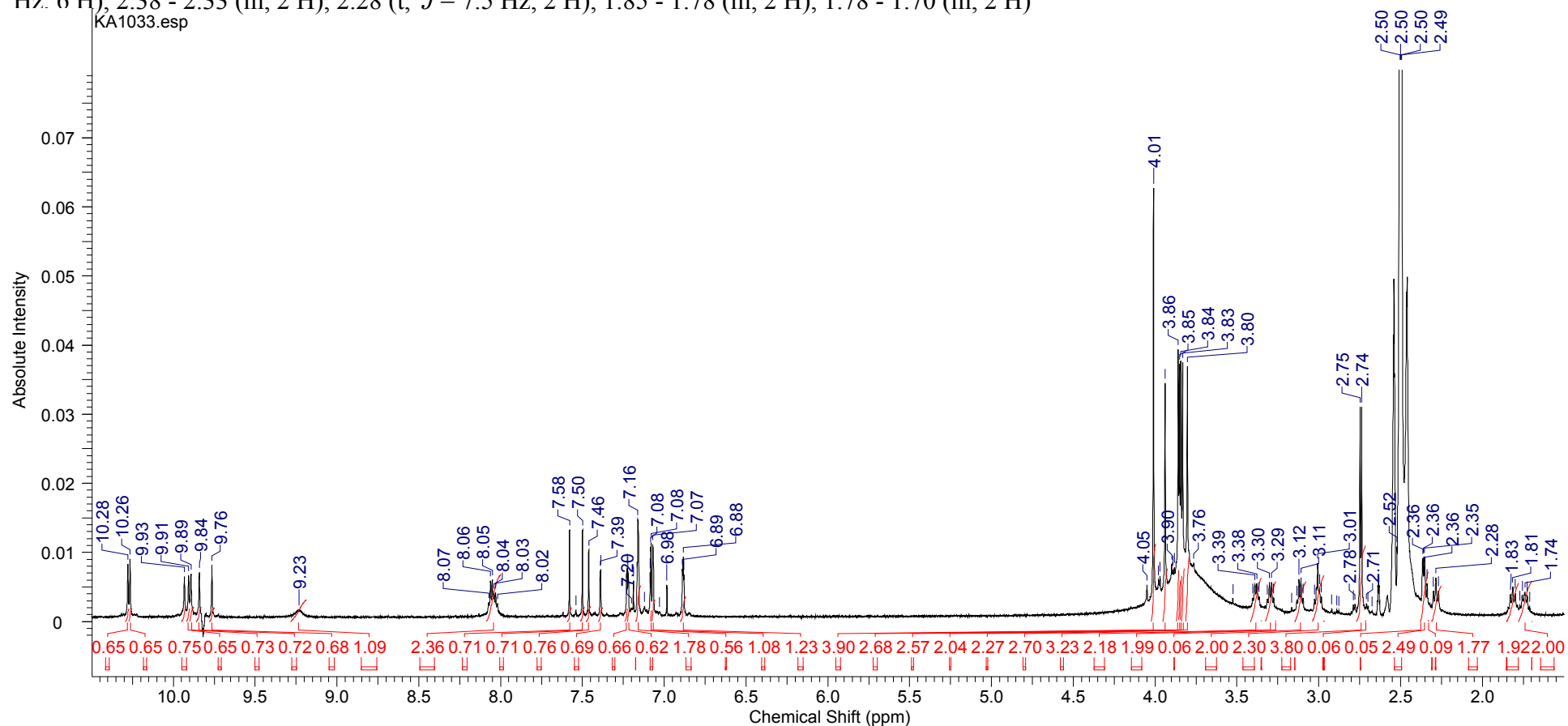
This report was created by ACD/NMR Processor Academic Edition. For more information go to www.acdlabs.com/nmrproc/

KA1033

KA1033

Acquisition Time (sec)	3.1457	Comment	KA1033H	Date	25 Oct 2011 15:32:16
Date Stamp	25 Oct 2011 15:32:16	File Name	\\134.124.122.67\data\ARX500\bashkin\nmr\KA1033H\1\fid		
Frequency (MHz)	500.13	Nucleus	1H	Number of Transients	1024
Original Points Count	32768	Owner	root	Points Count	32768
Receiver Gain	2048.00	SW(cyclical) (Hz)	10416.67	Solvent	DMSO-d6
Spectrum Type	STANDARD	Sweep Width (Hz)	10416.35	Spectrum Offset (Hz)	3080.2671
		Temperature (degree C)	27.000		

¹H NMR (500MHz, DMSO-d₆) δ = 10.28 (s, 1 H), 10.26 (s, 1 H), 9.93 (s, 1 H), 9.91 (s, 1 H), 9.89 (s, 1 H), 9.84 (s, 1 H), 9.76 (s, 1 H), 9.23 (br. s., 1 H), 8.09 - 8.00 (m, J = 5.7, 10.6, 10.6 Hz, 6 H), 7.58 (s, 1 H), 7.50 (s, 1 H), 7.46 (s, 1 H), 7.39 (d, J = 1.6 Hz, 1 H), 7.23 (d, J = 1.6 Hz, 1 H), 7.22 (d, J = 1.6 Hz, 1 H), 7.16 (s, 3 H), 7.08 (d, J = 1.0 Hz, 1 H), 7.07 (s, 2 H), 6.90 - 6.87 (m, 2 H), 4.01 (s, 6 H), 3.94 (s, 3 H), 3.86 (s, 3 H), 3.85 (s, 3 H), 3.84 (s, 3 H), 3.83 (s, 3 H), 3.80 (s, 3 H), 3.42 - 3.35 (m, 2 H), 3.33 - 3.26 (m, 2 H), 3.15 - 3.08 (m, 2 H), 3.04 - 2.97 (m, 2 H), 2.74 (d, J = 5.1 Hz, 6 H), 2.38 - 2.33 (m, 2 H), 2.28 (t, J = 7.5 Hz, 2 H), 1.85 - 1.78 (m, 2 H), 1.78 - 1.70 (m, 2 H)

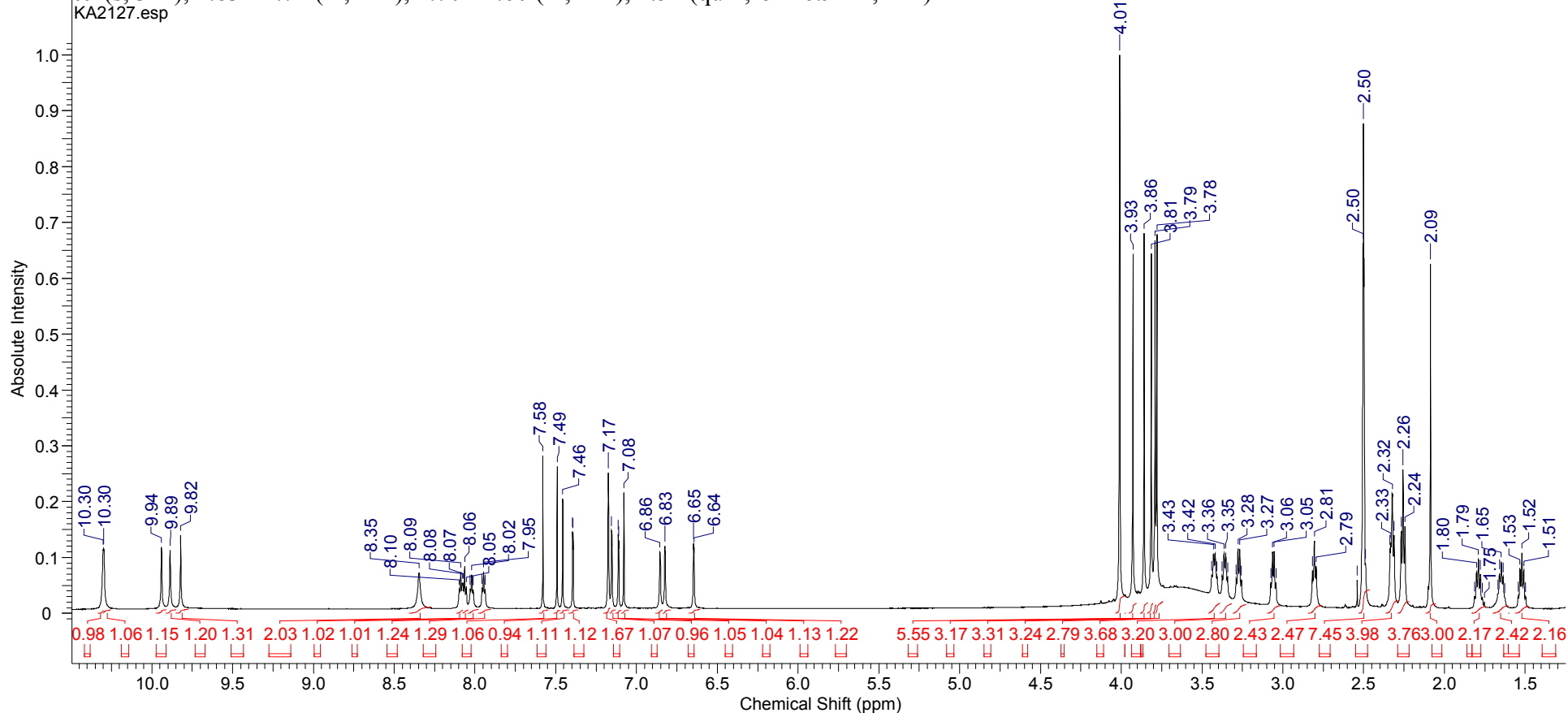


KA2127

KA2127

Acquisition Time (sec)	1.7039	Comment	Gradient Shimming		Date	Jul 16 2013
Date Stamp	Jul 16 2013	File Name	\\stl.umsl.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka2127f-proton-021513.fid\fid			
Frequency (MHz)	599.78	Nucleus	1H	Number of Transients	32	Original Points Count 16384
Points Count	16384	Pulse Sequence	s2pul	Receiver Gain	30.00	Solvent DMSO-d6
Spectrum Offset (Hz)	3609.6973	Spectrum Type	STANDARD	Sweep Width (Hz)	9615.38	Temperature (degree C) 25.000

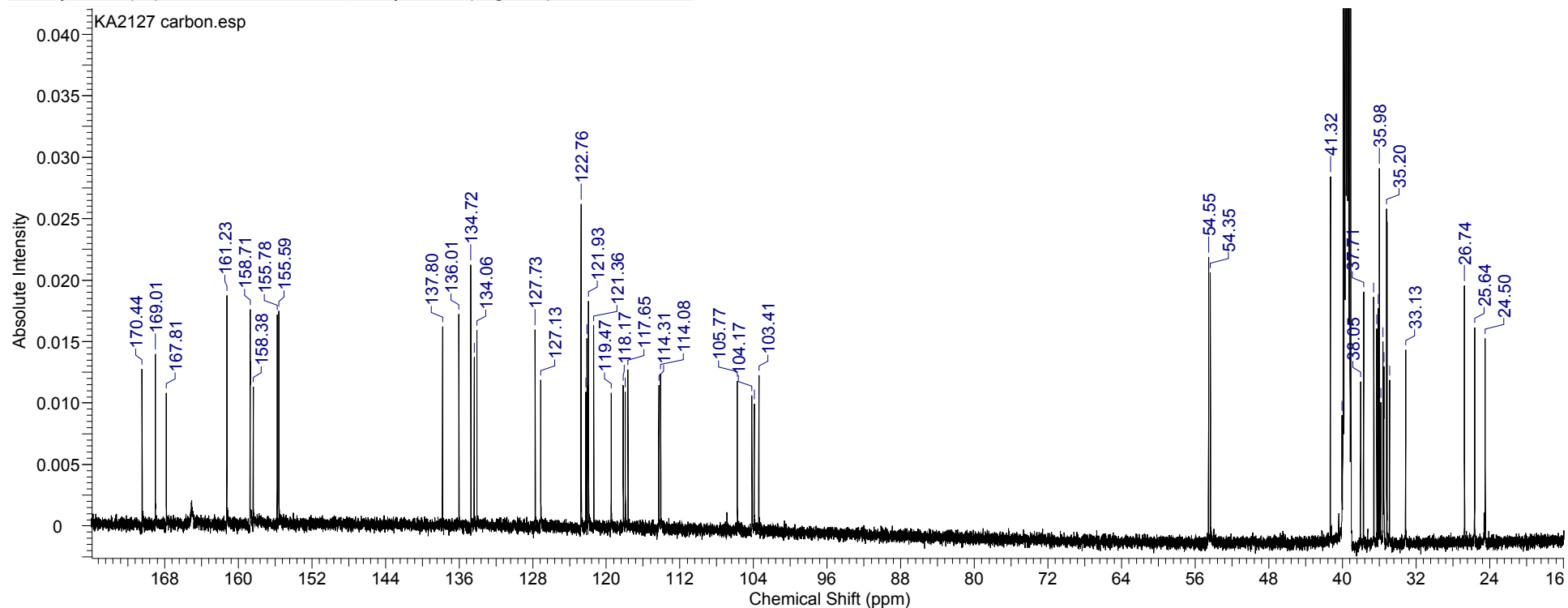
^1H NMR (600MHz, DMSO- d_6) δ = 10.30 (s, 1 H), 10.30 (s, 1 H), 9.94 (s, 1 H), 9.89 (s, 1 H), 9.82 (s, 1 H), 8.35 (br. s., 2 H), 8.09 (t, J = 5.6 Hz, 1 H), 8.06 (t, J = 5.9 Hz, 1 H), 8.02 (t, J = 5.6 Hz, 1 H), 7.95 (t, J = 5.6 Hz, 1 H), 7.58 (s, 1 H), 7.49 (s, 1 H), 7.46 (s, 1 H), 7.39 (d, J = 1.8 Hz, 1 H), 7.17 (s, 2 H), 7.15 (d, J = 1.8 Hz, 1 H), 7.11 (d, J = 1.8 Hz, 1 H), 7.08 (s, 1 H), 6.86 (s, 1 H), 6.83 (s, 1 H), 6.65 (d, J = 1.8 Hz, 1 H), 4.01 (s, 6 H), 3.93 (s, 3 H), 3.86 (s, 3 H), 3.81 (s, 3 H), 3.79 (s, 3 H), 3.78 (s, 3 H), 3.42 (td, J = 7.0, 12.9 Hz, 2 H), 3.39 - 3.32 (m, J = 1.0, 1.0, 1.0 Hz, 2 H), 3.31 - 3.23 (m, J = 1.0, 1.0, 1.0 Hz, 2 H), 3.06 (q, J = 6.5 Hz, 2 H), 2.81 (t, J = 7.0 Hz, 2 H), 2.53 - 2.46 (m, 2 H), 2.36 - 2.29 (m, 4 H), 2.29 - 2.22 (m, 4 H), 2.09 (s, 3 H), 1.83 - 1.74 (m, 2 H), 1.70 - 1.60 (m, 2 H), 1.52 (quin, J = 6.9 Hz, 2 H)



KA2127

ka2127

Acquisition Time (sec)	0.8651	Comment	ka2127f	Date	Jul 12 2013	Date Stamp	Jul 12 2013
File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka2127f_20130712_01\CARBON_01.fid\fid					Frequency (MHz)	150.83
Nucleus	¹³ C	Original Points Count	32768	Points Count	32768	Pulse Sequence	s2pul
Receiver Gain	30.00	Solvent	DMSO-d6	Spectrum Offset (Hz)	16123.4795	Spectrum Type	STANDARD
Sweep Width (Hz)	37878.79	Temperature (degree C)	25.000				



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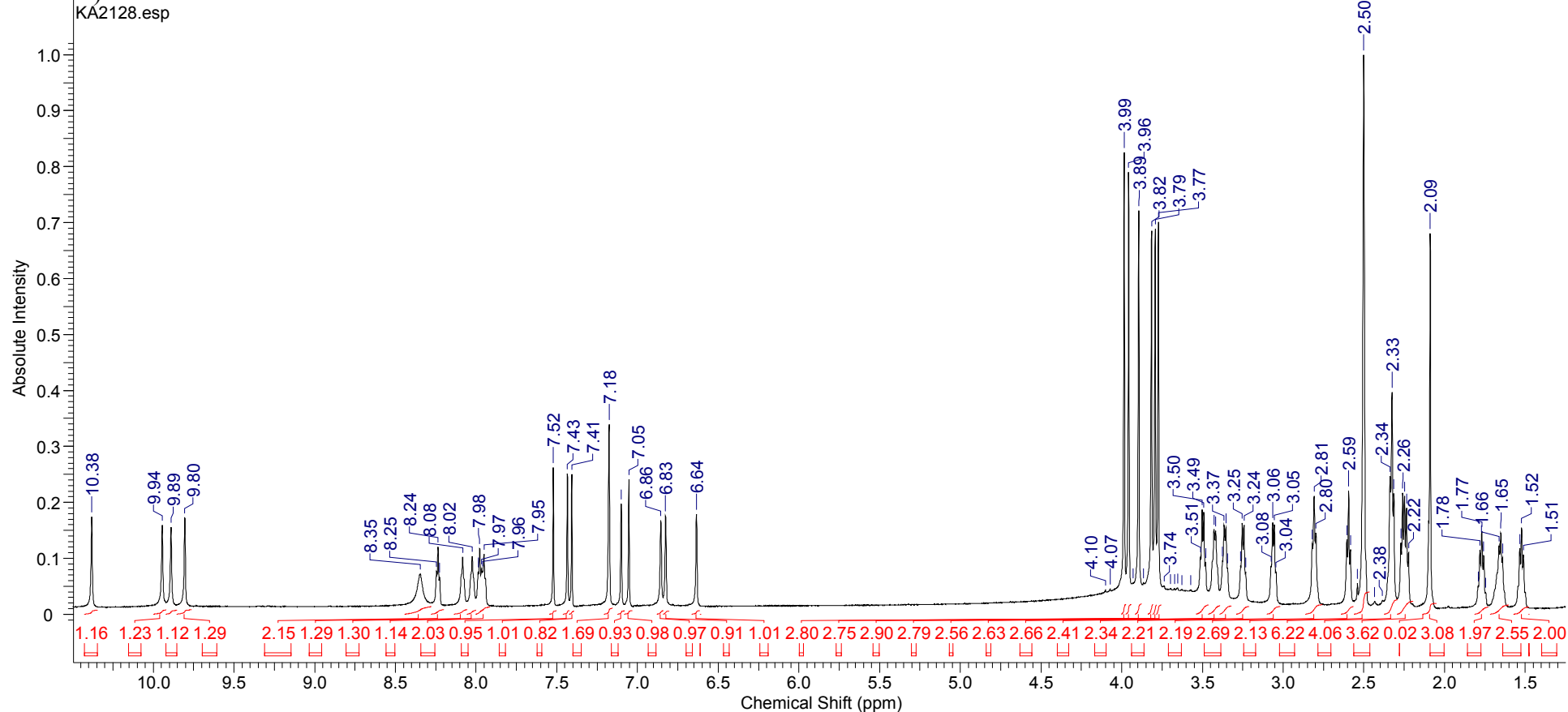
(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)
170.4	25707.3	155.8	23495.9	127.7	19264.9	121.9	18391.0	114.1	17207.2	41.3	6232.1	36.0	5427.6	34.9	5263.4
169.0	25492.3	155.6	23468.2	127.1	19174.8	121.4	18304.3	105.8	15953.0	40.0	6040.2	35.8	5405.6	33.1	4997.5
167.8	25310.8	137.8	20785.1	122.8	18515.8	119.5	18019.9	104.2	15712.5	38.0	5738.5	35.6	5367.4	26.7	4033.4
161.2	24319.0	136.0	20514.6	122.7	18508.9	118.2	17823.4	103.9	15675.5	37.7	5687.7	35.5	5357.0	25.6	3866.9
158.7	23938.6	134.7	20319.2	122.2	18436.1	117.9	17787.5	103.4	15598.1	36.6	5520.0	35.5	5353.6	24.5	3694.7
158.7	23936.3	134.4	20266.0	122.1	18414.1	117.6	17744.8	54.6	8228.5	36.3	5470.3	35.2	5308.5		
158.4	23887.8	134.1	20220.9	121.9	18393.3	114.3	17240.8	54.3	8197.3	36.1	5446.0	35.2	5302.7		

KA2128

KA2128

Acquisition Time (sec)	1.7039	Comment	Gradient Shimming	Date	Jul 17 2013
Date Stamp	Jul 17 2013	File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka2128d_20130717_01\PROTON_01.fid\fid		
Frequency (MHz)	599.78	Nucleus	¹ H	Number of Transients	8
Points Count	16384	Pulse Sequence	s2pul	Receiver Gain	30.00
Spectrum Offset (Hz)	3609.6973	Spectrum Type	STANDARD	Sweep Width (Hz)	9615.38
				Solvent	DMSO-d6
				Temperature (degree C)	25.000

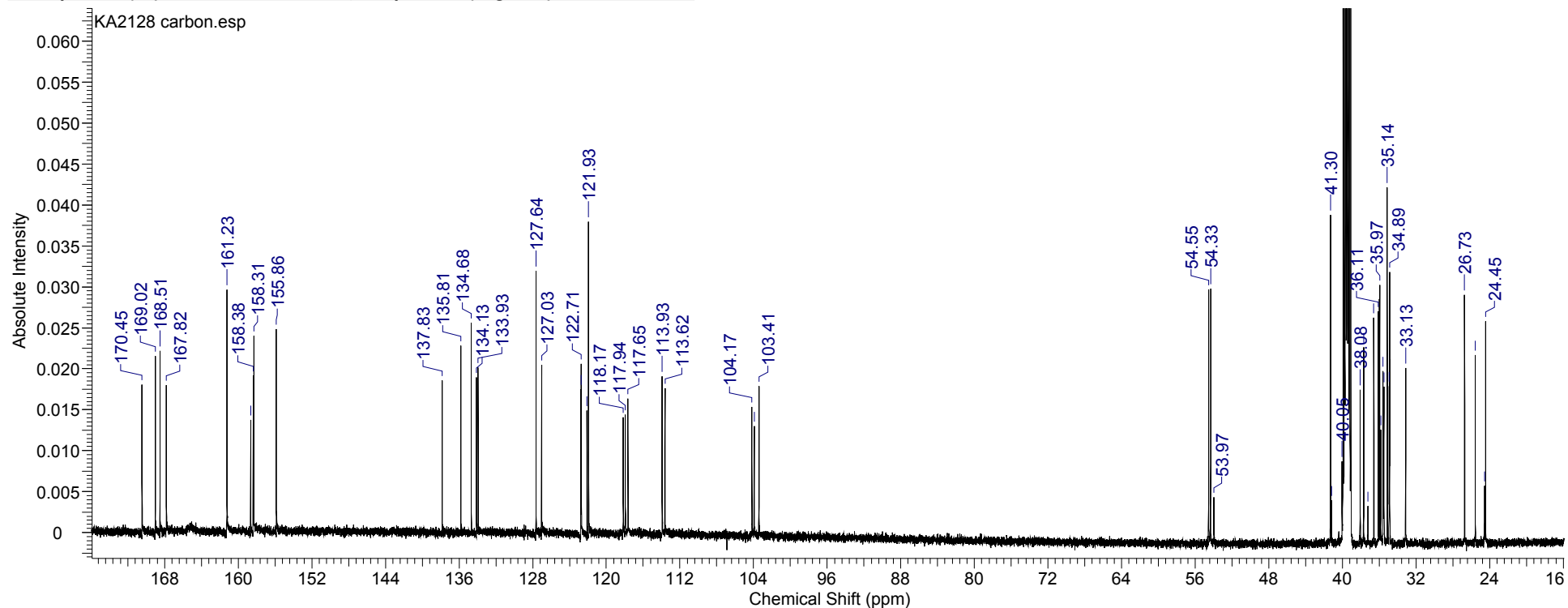
¹H NMR (600MHz, DMSO-d₆) δ = 10.38 (s, 1 H), 9.94 (s, 1 H), 9.89 (s, 1 H), 9.80 (s, 1 H), 8.35 (br. s., 2 H), 8.24 (t, J = 5.6 Hz, 1 H), 8.14 - 8.06 (m, 1 H), 8.06 - 8.00 (m, 1 H), 8.00 - 7.91 (m, 2 H), 7.52 (s, 1 H), 7.43 (s, 1 H), 7.41 (s, 1 H), 7.18 (s, 2 H), 7.10 (s, 1 H), 7.05 (s, 1 H), 6.86 (s, 1 H), 6.83 (s, 1 H), 6.64 (s, 1 H), 3.99 (s, 3 H), 3.96 (s, 3 H), 3.89 (s, 3 H), 3.82 (s, 3 H), 3.79 (s, 3 H), 3.77 (s, 3 H), 3.54 - 3.46 (m, 2 H), 3.46 - 3.39 (m, J = 5.9 Hz, 2 H), 3.39 - 3.32 (m, 2 H), 3.29 - 3.21 (m, 2 H), 3.06 (q, J = 6.5 Hz, 2 H), 2.81 (t, J = 6.7 Hz, 2 H), 2.59 (t, J = 6.7 Hz, 2 H), 2.56 - 2.47 (m, 2 H), 2.33 (t, J = 7.0 Hz, 4 H), 2.25 (td, J = 7.3, 14.2 Hz, 4 H), 2.09 (s, 3 H), 1.77 (quin, J = 6.9 Hz, 2 H), 1.72 - 1.61 (m, 2 H), 1.57 - 1.48 (m, 2 H)



KA2128

ka2128d

Acquisition Time (sec)	0.8651	Comment	ka2128d	Date	Jul 17 2013	Date Stamp	Jul 17 2013
File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka2128d_20130717_01\CARBON_01.fid\fid					Frequency (MHz)	150.83
Nucleus	¹³ C	Original Points Count	32768	Points Count	32768	Pulse Sequence	s2pul
Receiver Gain	30.00	Solvent	DMSO-d6	Spectrum Offset (Hz)	16123.4795	Spectrum Type	STANDARD
Sweep Width (Hz)	37878.79	Temperature (degree C)	25.000				



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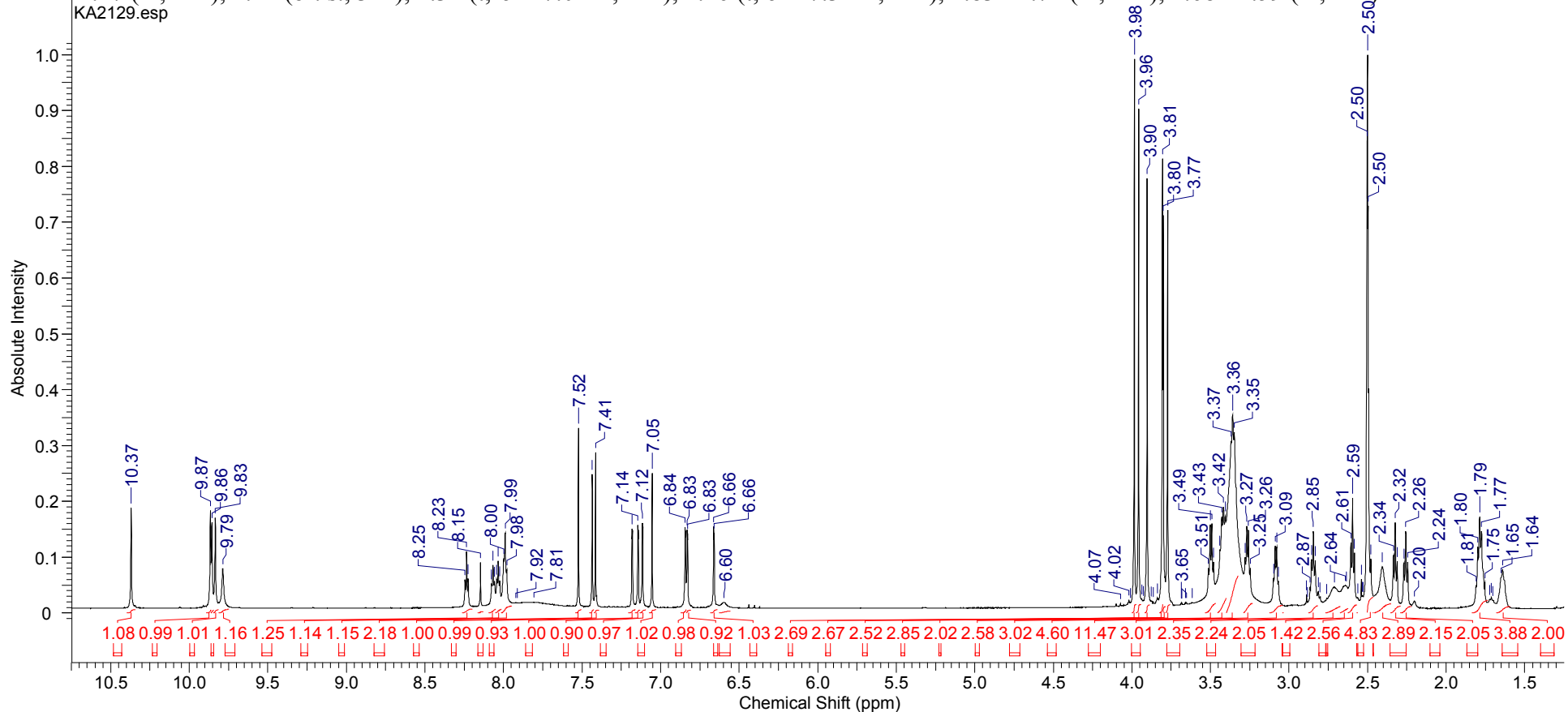
(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)
170.4	25708.5	155.9	23508.6	122.8	18514.7	113.6	17137.9	41.2	6212.5	36.0	5425.2	34.9	5262.2
169.0	25493.5	137.8	20789.7	122.7	18508.9	104.2	15712.5	40.0	6040.2	35.8	5405.6	34.9	5258.8
168.5	25416.0	135.8	20484.5	122.1	18414.1	103.9	15676.7	38.1	5743.1	35.6	5367.4	33.1	4997.5
167.8	25312.0	134.7	20313.4	121.9	18391.0	103.4	15596.9	37.7	5686.5	35.5	5357.0	26.7	4032.3
161.2	24319.0	134.1	20230.2	118.2	17823.4	54.5	8227.4	37.2	5617.1	35.5	5354.7	25.6	3856.5
158.7	23929.4	133.9	20200.1	117.9	17788.7	54.3	8195.0	36.6	5520.0	35.1	5300.4	24.6	3705.1
158.4	23887.8	127.6	19252.2	117.7	17745.9	54.0	8140.7	36.1	5446.0	35.1	5298.1	24.4	3687.8
158.3	23877.4	127.0	19159.7	113.9	17184.1	41.3	6229.8	36.0	5427.6	34.9	5268.0		

KA2129

KA2129

Acquisition Time (sec)	1.7039	Comment	Gradient Shimming			Date	Jul 17 2013
Date Stamp	Jul 17 2013	File Name	\\stl.umsl.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka2129d-protpn-071713.fid\fid				
Frequency (MHz)	599.78	Nucleus	1H	Number of Transients	32	Original Points Count	16384
Points Count	16384	Pulse Sequence	s2pul	Receiver Gain	30.00	Solvent	DMSO-d6
Spectrum Offset (Hz)	3609.6973	Spectrum Type	STANDARD	Sweep Width (Hz)	9615.38	Temperature (degree C)	25.000

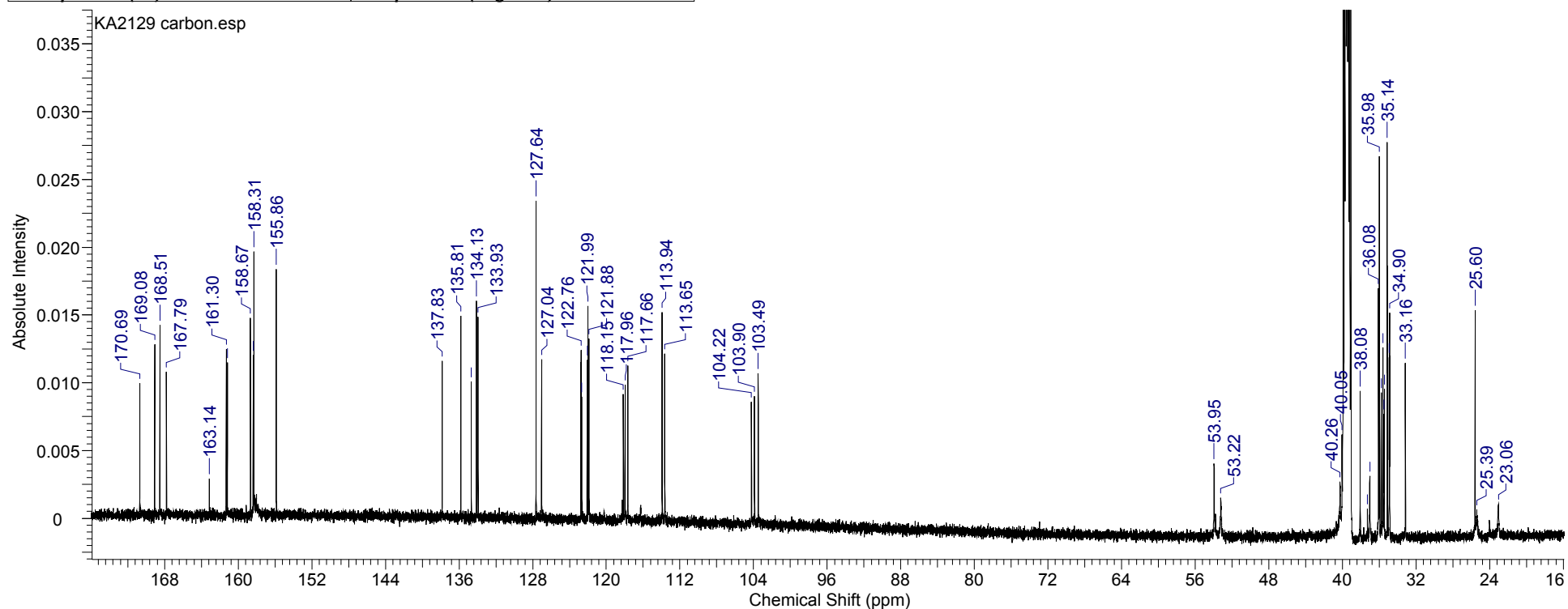
^1H NMR (600MHz, DMSO- d_6) δ = 10.37 (s, 1 H), 9.87 (s, 1 H), 9.86 (s, 1 H), 9.83 (s, 1 H), 9.79 (br. s., 1 H), 8.23 (t, J = 6.2 Hz, 1 H), 8.15 (s, 1 H), 8.07 (t, J = 5.6 Hz, 1 H), 8.03 (t, J = 5.6 Hz, 1 H), 7.99 (t, J = 5.9 Hz, 2 H), 7.52 (s, 1 H), 7.43 (s, 1 H), 7.41 (s, 1 H), 7.18 (d, J = 1.2 Hz, 1 H), 7.14 (d, J = 1.2 Hz, 1 H), 7.12 (d, J = 1.8 Hz, 1 H), 7.05 (s, 1 H), 6.84 (d, J = 1.8 Hz, 1 H), 6.83 (d, J = 1.8 Hz, 1 H), 6.66 (d, J = 1.8 Hz, 1 H), 6.60 (br. s., 1 H), 3.98 (s, 3 H), 3.96 (s, 3 H), 3.90 (s, 3 H), 3.81 (s, 3 H), 3.79 (s, 3 H), 3.77 (s, 3 H), 3.53 - 3.47 (m, 2 H), 3.45 - 3.40 (m, 2 H), 3.40 - 3.32 (m, 2 H), 3.29 - 3.23 (m, 2 H), 3.12 - 3.04 (m, 2 H), 2.88 - 2.82 (m, 2 H), 2.76 - 2.67 (m, 2 H), 2.67 - 2.62 (m, 2 H), 2.60 (t, J = 6.7 Hz, 2 H), 2.50 - 2.47 (m, 2 H), 2.41 (br. s., 3 H), 2.32 (t, J = 7.0 Hz, 2 H), 2.26 (t, J = 7.3 Hz, 2 H), 1.83 - 1.74 (m, 4 H), 1.68 - 1.59 (m, 2 H)



KA2129

ka2129

Acquisition Time (sec)	0.8651	Comment	ka2129d	Date	Jul 16 2013	Date Stamp	Jul 16 2013
File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka2129d_20130716_01\CARBON_01.fid\fid					Frequency (MHz)	150.83
Nucleus	¹³ C	Original Points Count	32768	Points Count	32768	Pulse Sequence	s2pul
Receiver Gain	30.00	Solvent	DMSO-d6	Spectrum Offset (Hz)	16123.4795	Spectrum Type	STANDARD
Sweep Width (Hz)	37878.79	Temperature (degree C)	25.000				



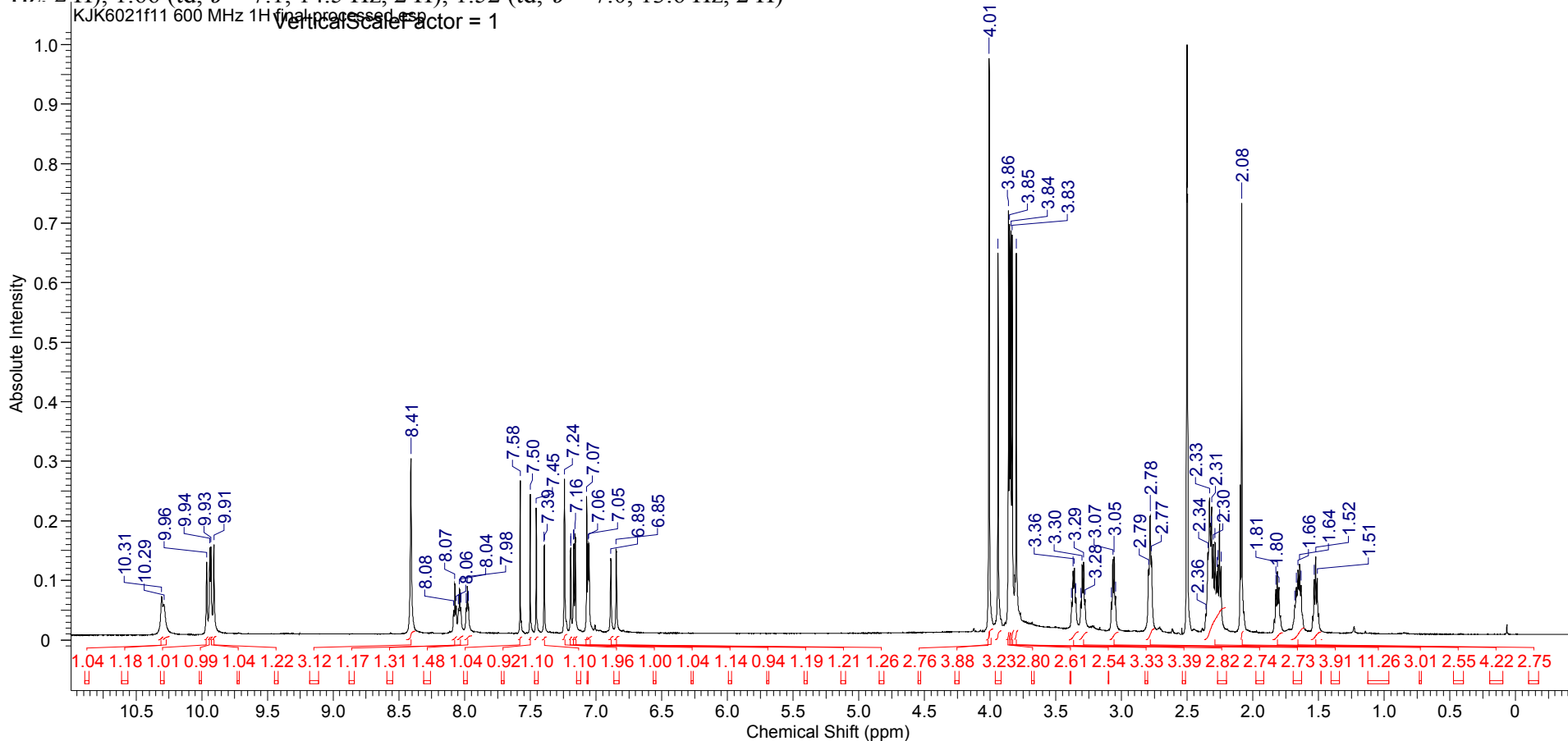
This report was created by ACD/NMR Processor Academic Edition. For more information go to www.acdlabs.com/nmrproc/

(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)
170.7	25745.5	158.7	23931.7	134.1	20230.2	122.1	18412.9	113.6	17141.3	40.0	6040.2	35.6	5373.2	34.9	5258.8
169.1	25502.7	158.4	23887.8	133.9	20201.3	122.0	18399.1	104.2	15719.5	38.1	5743.1	35.5	5354.7	33.2	5002.1
168.5	25417.2	158.3	23877.4	127.6	19252.2	121.9	18382.9	103.9	15670.9	37.3	5625.2	35.5	5347.8	25.6	3861.2
167.8	25308.5	155.9	23508.6	127.0	19160.9	118.1	17819.9	103.5	15609.6	37.0	5585.9	35.1	5300.4	25.4	3830.0
163.1	24606.8	137.8	20789.7	122.8	18519.3	118.0	17792.2	53.9	8137.2	36.1	5442.6	35.1	5296.9	23.1	3478.5
161.3	24329.4	135.8	20484.5	122.8	18515.8	117.7	17747.1	53.2	8027.4	36.0	5427.6	34.9	5268.0		
161.2	24312.0	134.7	20313.4	122.7	18502.0	113.9	17185.3	40.3	6072.6	35.8	5399.8	34.9	5263.4		

KJK60214/1/2014 5:10:37 PM
Gradient Shimming

Acquisition Time (sec)	1.7039	Comment	Gradient Shimming		Date	Oct 28 2013
Date Stamp	Oct 28 2013	File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\lshkin\kjk621f11-proton_10282013.fid\fid			
Frequency (MHz)	599.78	Nucleus	1H	Number of Transients	32	Original Points Count 16384
Points Count	16384	Pulse Sequence	s2pul	Receiver Gain	42.00	Solvent DMSO-d6
Spectrum Offset (Hz)	3608.5234	Spectrum Type	STANDARD	Sweep Width (Hz)	9615.38	Temperature (degree C) 23.000

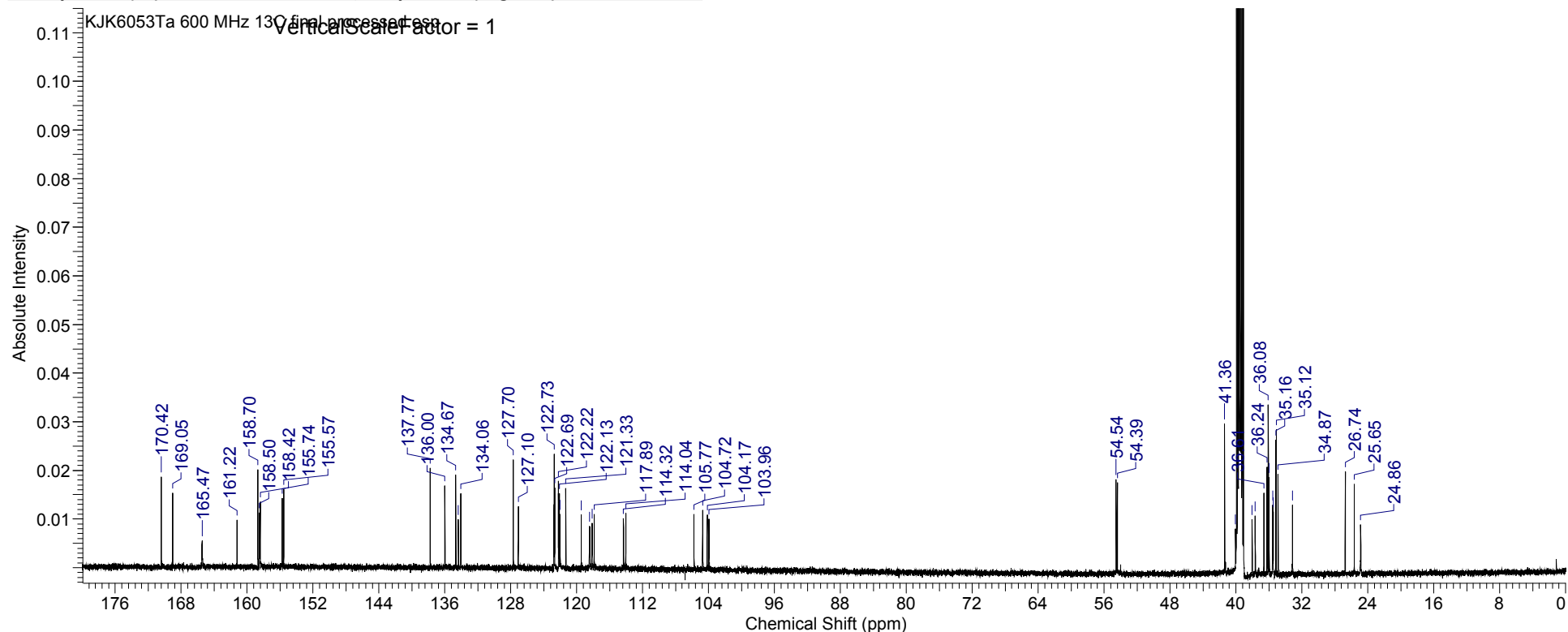
^1H NMR (600MHz, DMSO-d₆) δ = 10.31 (s, 1 H), 10.29 (s, 1 H), 9.96 (s, 1 H), 9.94 (s, 1 H), 9.93 (s, 1 H), 9.91 (s, 1 H), 8.41 (s, 2 H), 8.07 (t, J = 6.2 Hz, 1 H), 8.04 (t, J = 5.6 Hz, 1 H), 7.98 (t, J = 5.6 Hz, 1 H), 7.57 (s, 1 H), 7.50 (s, 1 H), 7.45 (s, 1 H), 7.39 (d, J = 1.8 Hz, 1 H), 7.23 (s, 2 H), 7.19 (d, J = 1.2 Hz, 1 H), 7.17 (d, J = 1.2 Hz, 1 H), 7.16 (d, J = 1.8 Hz, 1 H), 7.07 (s, 1 H), 7.06 (d, J = 1.2 Hz, 1 H), 7.05 (s, 1 H), 6.89 (s, 1 H), 6.85 (d, J = 1.2 Hz, 1 H), 4.01 (s, 3 H), 3.94 (s, 3 H), 3.86 (s, 3 H), 3.85 (s, 3 H), 3.84 (s, 3 H), 3.83 (s, 3 H), 3.81 - 3.79 (m, 3 H), 3.40 - 3.33 (m, 2 H), 3.32 - 3.26 (m, 2 H), 3.06 (q, J = 6.5 Hz, 2 H), 2.78 (t, J = 6.7 Hz, 2 H), 2.37 - 2.21 (m, 8 H), 2.08 (s, 3 H), 1.81 (td, J = 7.1, 14.5 Hz, 2 H), 1.66 (td, J = 7.1, 14.5 Hz, 2 H), 1.52 (td, J = 7.0, 13.6 Hz, 2 H)



KJK6021

4/1/2014 5:15:33 PM

Acquisition Time (sec)	0.8651	Comment	kjk6053tq	Date	Feb 6 2014	Date Stamp	Feb 6 2014
File Name	\\stl.umsi.edu\steamboat\k\koellerk\My Documents\NMR fids\kjk6053tq_20140206_01\CARBON_01.fid\fid					Frequency (MHz)	150.83
Nucleus	13C	Original Points Count	32768	Points Count	32768	Pulse Sequence	s2pul
Receiver Gain	30.00	Solvent	DMSO-d6	Spectrum Offset (Hz)	16117.6992	Spectrum Type	STANDARD
Sweep Width (Hz)	37878.79	Temperature (degree C)	23.000				



(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)
170.4	25703.9	158.4	23894.7	127.7	19261.5	122.1	18421.0	114.3	17243.1	41.4	6239.1	36.0	5422.9
169.1	25498.1	155.7	23490.1	127.1	19170.1	122.0	18403.7	114.0	17201.5	40.0	6040.2	35.5	5361.7
165.5	24958.2	155.6	23464.7	122.8	18515.8	121.3	18299.7	105.8	15953.0	38.0	5736.2	35.5	5351.3
161.2	24316.7	137.8	20780.4	122.7	18511.2	119.5	18017.6	104.7	15794.6	37.7	5679.6	35.2	5303.9
158.7	23937.5	136.0	20512.3	122.7	18505.4	118.5	17868.5	104.2	15712.5	36.6	5522.3	35.1	5296.9
158.7	23935.2	134.7	20312.3	122.2	18434.9	118.4	17859.2	104.0	15680.2	36.2	5465.7	34.9	5259.9
158.5	23906.3	134.4	20264.9	122.2	18431.4	118.1	17819.9	54.5	8226.2	36.1	5442.6	33.1	4998.7
158.5	23900.5	134.1	20220.9	122.2	18426.8	117.9	17781.8	54.4	8204.3	36.1	5440.3	26.7	4033.4

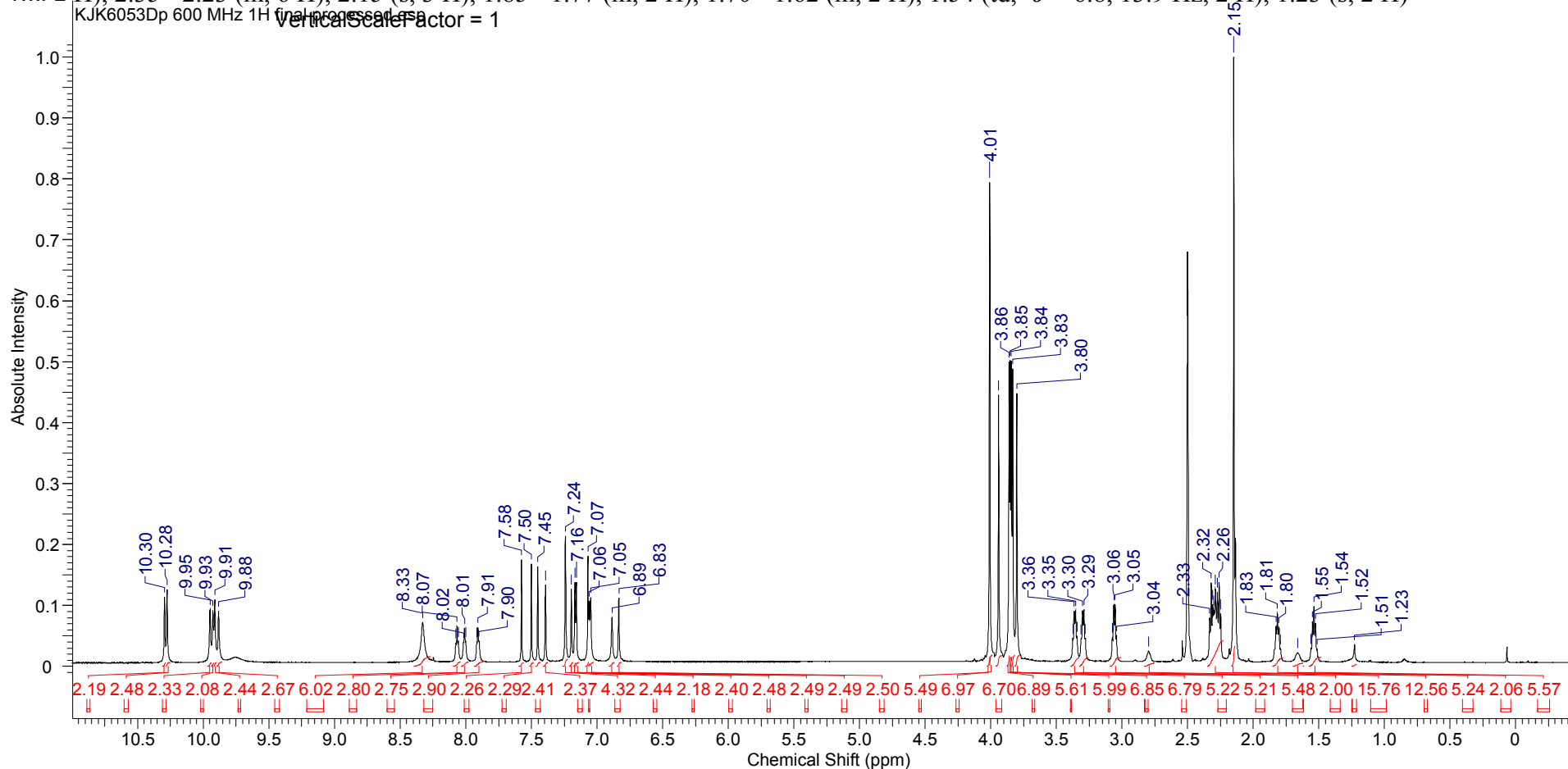
25.6	3868.1
24.9	3750.2

KJK6053Dp

2/20/2014 5:20:38 PM
kjk6053dp

Acquisition Time (sec)	1.7039	Comment	kjk6053dp	Date	Jan 30 2014	Date Stamp	Jan 30 2014
File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\kjk6053-proton_01302014.fid\fid					Frequency (MHz)	599.78
Nucleus	1H	Number of Transients	16	Original Points Count	16384	Points Count	16384
Pulse Sequence	s2pul	Receiver Gain	30.00	Solvent	DMSO-d6	Spectrum Offset (Hz)	3610.8713
Spectrum Type	STANDARD	Sweep Width (Hz)	9615.38	Temperature (degree C)	23.000		

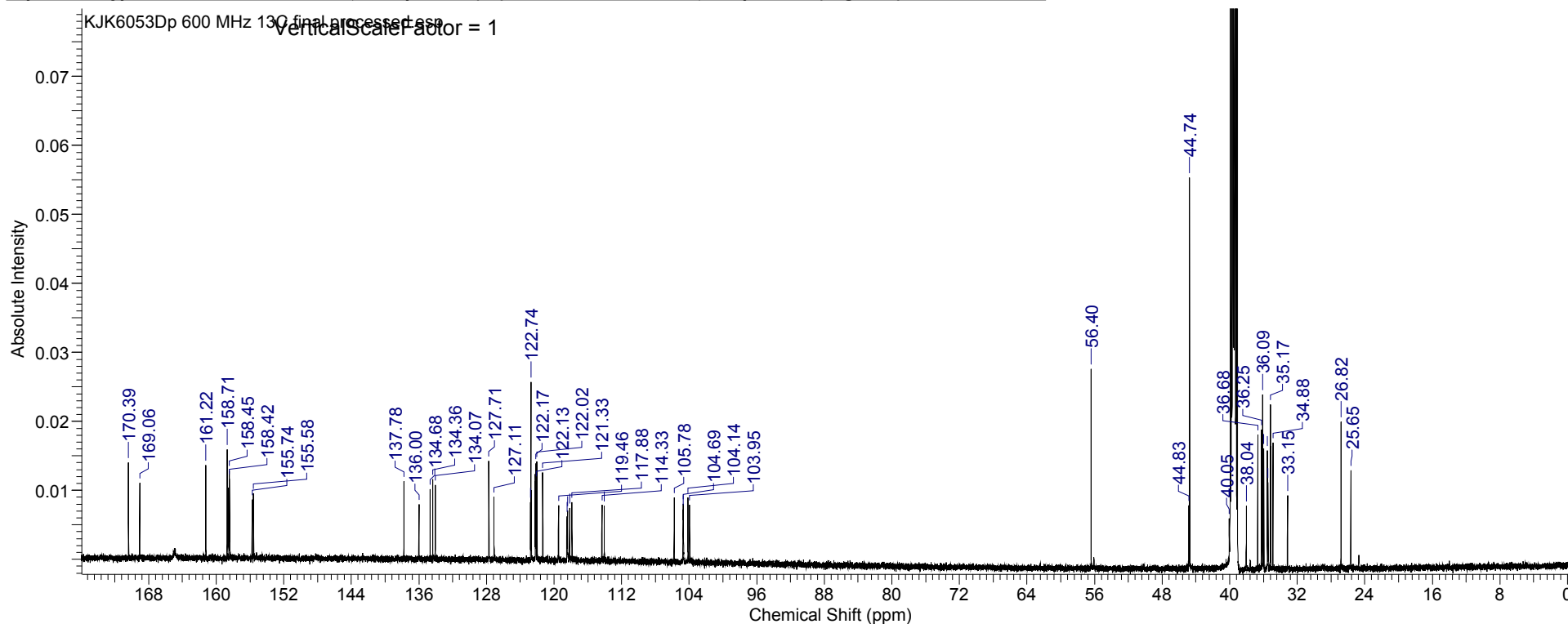
^1H NMR (600MHz, DMSO- d_6) δ = 10.30 (s, 1 H), 10.28 (s, 1 H), 9.95 (s, 1 H), 9.93 (s, 1 H), 9.91 (s, 1 H), 9.88 (s, 1 H), 8.33 (s, 2 H), 8.07 (t, J = 5.6 Hz, 1 H), 8.01 (t, J = 5.0 Hz, 1 H), 7.91 (t, J = 5.0 Hz, 1 H), 7.58 (s, 1 H), 7.50 (s, 1 H), 7.45 (s, 1 H), 7.39 (s, 1 H), 7.24 (s, 2 H), 7.20 (s, 1 H), 7.17 (s, 1 H), 7.15 (s, 1 H), 7.07 (s, 1 H), 7.06 (s, 1 H), 7.05 (s, 1 H), 6.89 (s, 1 H), 6.83 (s, 1 H), 4.02 (s, 3 H), 4.01 (s, 3 H), 3.94 (s, 3 H), 3.86 (s, 3 H), 3.85 (s, 3 H), 3.84 (s, 3 H), 3.83 (s, 3 H), 3.80 (s, 3 H), 3.36 (q, J = 6.0 Hz, 2 H), 3.29 (q, J = 6.5 Hz, 2 H), 3.06 (q, J = 6.5 Hz, 2 H), 2.83 - 2.75 (m, 2 H), 2.35 - 2.23 (m, 6 H), 2.15 (s, 3 H), 1.85 - 1.77 (m, 2 H), 1.70 - 1.62 (m, 2 H), 1.54 (td, J = 6.8, 13.9 Hz, 2 H), 1.23 (s, 2 H)



KJK6053Dp

2/28/2014 12:12:04 PM
kjk6053dp

Acquisition Time (sec)	0.8651	Comment	kjk6053dp	Date	Jan 29 2014	Date Stamp	Jan 29 2014
File Name	\\stl.umsi.edu\steamboat\k\koellerk\My Documents\NMR fids\kjk6053dp_20140129_01\CARBON_01.fid\fid					Frequency (MHz)	150.83
Nucleus	¹³ C	Number of Transients	35000	Original Points Count	32768	Points Count	32768
Pulse Sequence	s2pul	Receiver Gain	30.00	Solvent	DMSO-d6	Spectrum Offset (Hz)	15404.4170
Spectrum Type	STANDARD	Sweep Width (Hz)	37878.79	Temperature (degree C)	23.000		



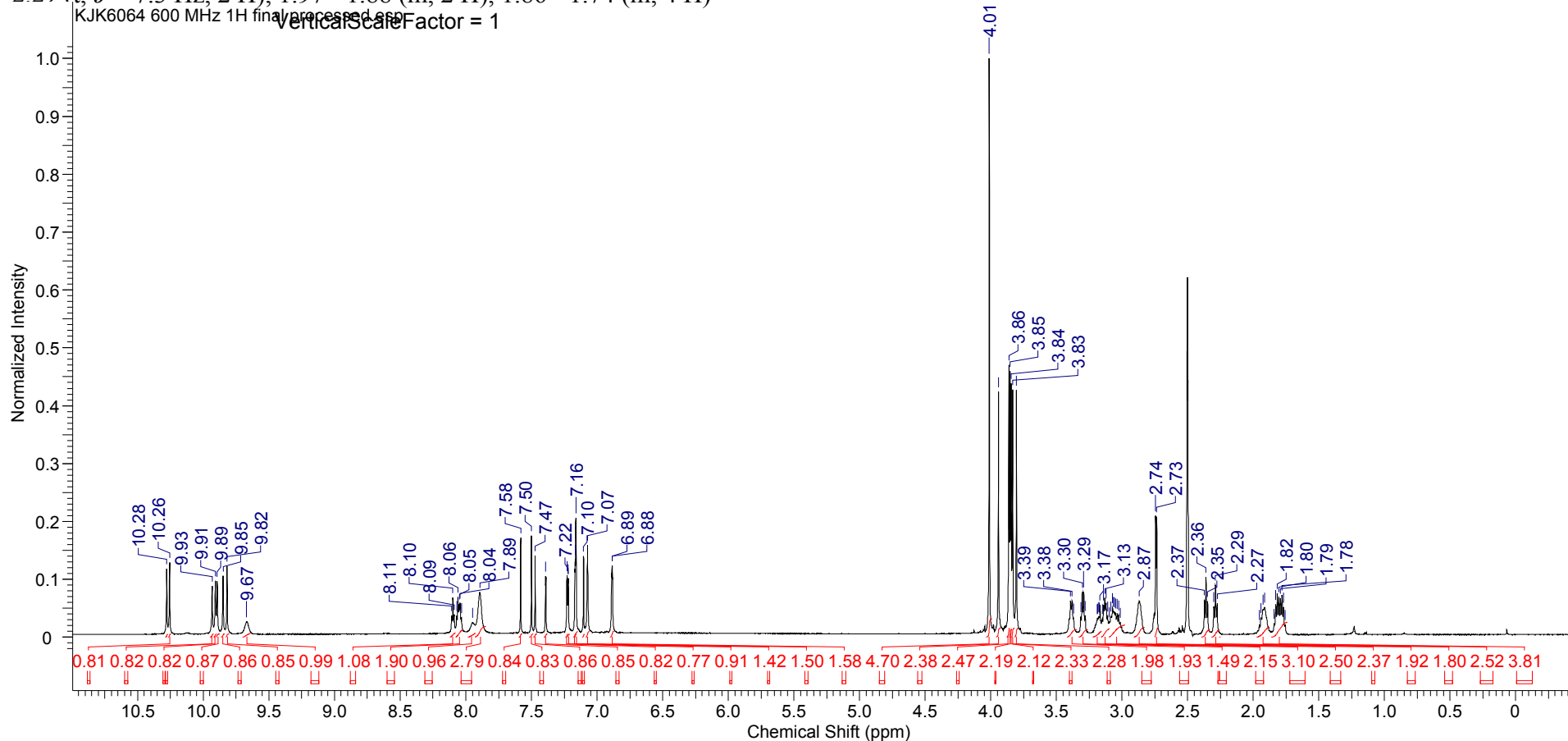
(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)
170.4	25699.2	155.7	23490.1	127.1	19171.3	122.0	18403.7	114.1	17202.6	44.7	6748.8
169.1	25499.2	155.6	23465.8	122.8	18518.1	121.3	18300.8	105.8	15954.1	40.0	6040.2
161.2	24316.6	137.8	20781.6	122.7	18512.3	119.5	18018.7	104.7	15794.6	38.0	5737.3
158.7	23938.6	136.0	20512.2	122.7	18505.4	118.5	17869.6	104.7	15791.1	36.7	5532.7
158.7	23936.3	134.7	20313.4	122.2	18436.0	118.4	17859.2	104.1	15707.9	36.2	5466.8
158.5	23906.2	134.4	20264.8	122.2	18431.4	118.2	17821.0	104.0	15679.0	36.1	5443.7
158.5	23899.3	134.1	20222.1	122.2	18426.8	117.9	17779.4	56.4	8507.1	36.0	5422.9
158.4	23894.7	127.7	19262.6	122.1	18421.0	114.3	17244.2	44.8	6761.6	35.5	5359.3

(ppm)	(Hz)	(ppm)	(Hz)
35.5	5347.8	35.2	5305.0
35.1	5298.0	34.9	5261.1
33.1	4999.8	26.8	4044.9
25.7	3869.2		

KJK60643/6/2014 4:02:36 PM
Gradient Shimming

Acquisition Time (sec)	1.7039	Comment	Gradient Shimming		Date	Mar 6 2014
Date Stamp	Mar 6 2014	File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\kjk6064-proton.fid\fid			
Frequency (MHz)	599.78	Nucleus	1H	Number of Transients	16	Original Points Count 16384
Points Count	16384	Pulse Sequence	s2pul	Receiver Gain	42.00	Solvent DMSO-d6
Spectrum Offset (Hz)	3608.5234	Spectrum Type	STANDARD	Sweep Width (Hz)	9615.38	Temperature (degree C) 23.000

^1H NMR (600MHz, DMSO- d_6) δ = 10.28 (s, 1 H), 10.26 (s, 1 H), 9.93 (s, 1 H), 9.91 (s, 1 H), 9.89 (s, 1 H), 9.85 (s, 1 H), 9.82 (s, 1 H), 9.67 (br. s., 1 H), 8.10 (t, J = 5.9 Hz, 1 H), 8.08 - 8.02 (m, 2 H), 7.95 (br. s., 1 H), 7.89 (br. s., 3 H), 7.58 (s, 1 H), 7.50 (s, 1 H), 7.47 (s, 1 H), 7.39 (d, J = 1.8 Hz, 1 H), 7.23 (d, J = 1.2 Hz, 1 H), 7.22 (d, J = 1.8 Hz, 1 H), 7.17 (d, J = 1.8 Hz, 1 H), 7.16 (d, J = 1.2 Hz, 2 H), 7.10 (s, 1 H), 7.07 (s, 2 H), 6.90 - 6.87 (m, 2 H), 4.01 (s, 6 H), 3.94 (s, 3 H), 3.86 (s, 3 H), 3.85 (s, 3 H), 3.84 (s, 3 H), 3.83 (s, 3 H), 3.80 (s, 3 H), 3.42 - 3.35 (m, 2 H), 3.30 (q, J = 6.5 Hz, 2 H), 3.22 - 3.16 (m, 2 H), 3.16 - 3.10 (m, 2 H), 3.10 - 2.98 (m, 2 H), 2.91 - 2.83 (m, 2 H), 2.74 (d, J = 4.7 Hz, 3 H), 2.36 (t, J = 7.3 Hz, 2 H), 2.29 (t, J = 7.3 Hz, 2 H), 1.97 - 1.88 (m, 2 H), 1.86 - 1.74 (m, 4 H)

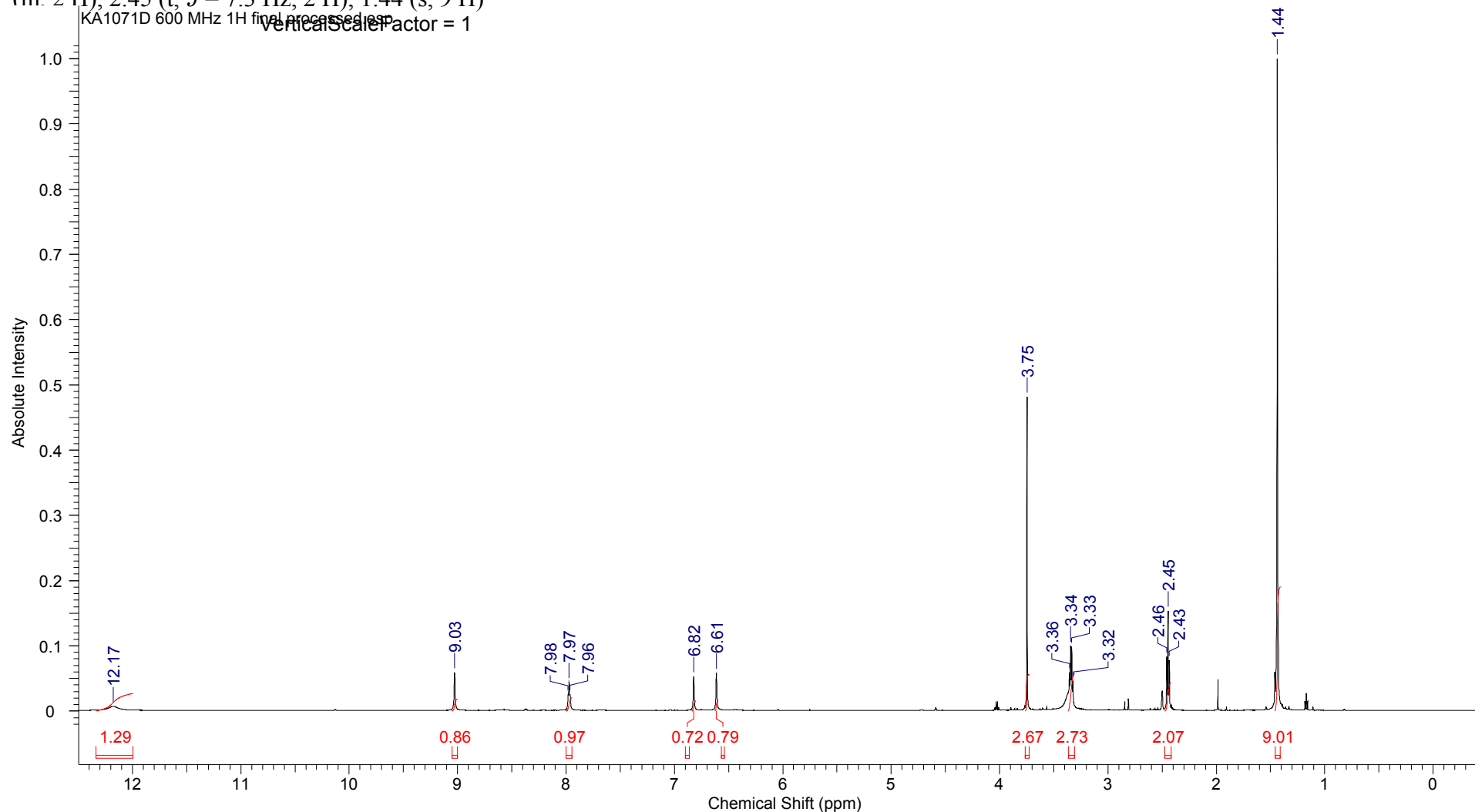


KA1071D

3/25/2014 5:20:51 PM
ka1071d

Acquisition Time (sec)	1.7039	Comment	ka1071d	Date	Mar 17 2014	Date Stamp	Mar 17 2014
File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka1071d_20140317_01\PROTON_01.fid\fid					Frequency (MHz)	599.78
Nucleus	¹ H	Number of Transients	32	Original Points Count	16384	Points Count	16384
Pulse Sequence	s2pul	Receiver Gain	30.00	Solvent	DMSO-d6	Spectrum Offset (Hz)	3610.2842
Spectrum Type	STANDARD	Sweep Width (Hz)	9615.38	Temperature (degree C)	23.000		

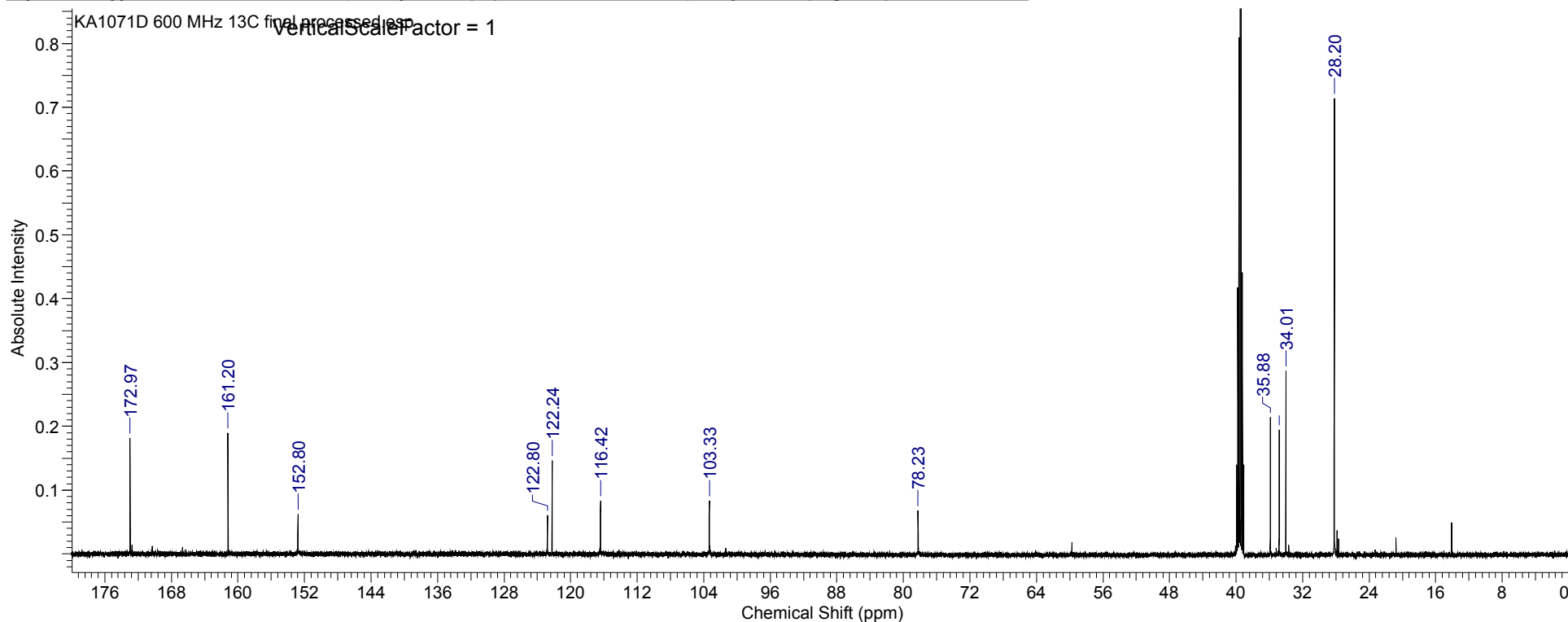
¹H NMR (600MHz, DMSO-d₆) δ = 12.17 (br. s., 1 H), 9.03 (s, 1 H), 7.97 (t, J = 5.3 Hz, 1 H), 6.82 (s, 1 H), 6.61 (s, 1 H), 3.75 (s, 3 H), 3.36 - 3.31 (m, 2 H), 2.45 (t, J = 7.3 Hz, 2 H), 1.44 (s, 9 H)



KA1071D

3/25/2014 2:12:52 PM
ka1071d

Acquisition Time (sec)	0.8651	Comment	ka1071d	Date	Mar 17 2014	Date Stamp	Mar 17 2014
File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka1071d_20140317_01\CARBON_01.fid\fid					Frequency (MHz)	150.83
Nucleus	13C	Number of Transients	2000	Original Points Count	32768	Points Count	32768
Pulse Sequence	s2pul	Receiver Gain	30.00	Solvent	DMSO-d6	Spectrum Offset (Hz)	16121.1680
Spectrum Type	STANDARD	Sweep Width (Hz)	37878.79	Temperature (degree C)	23.000		



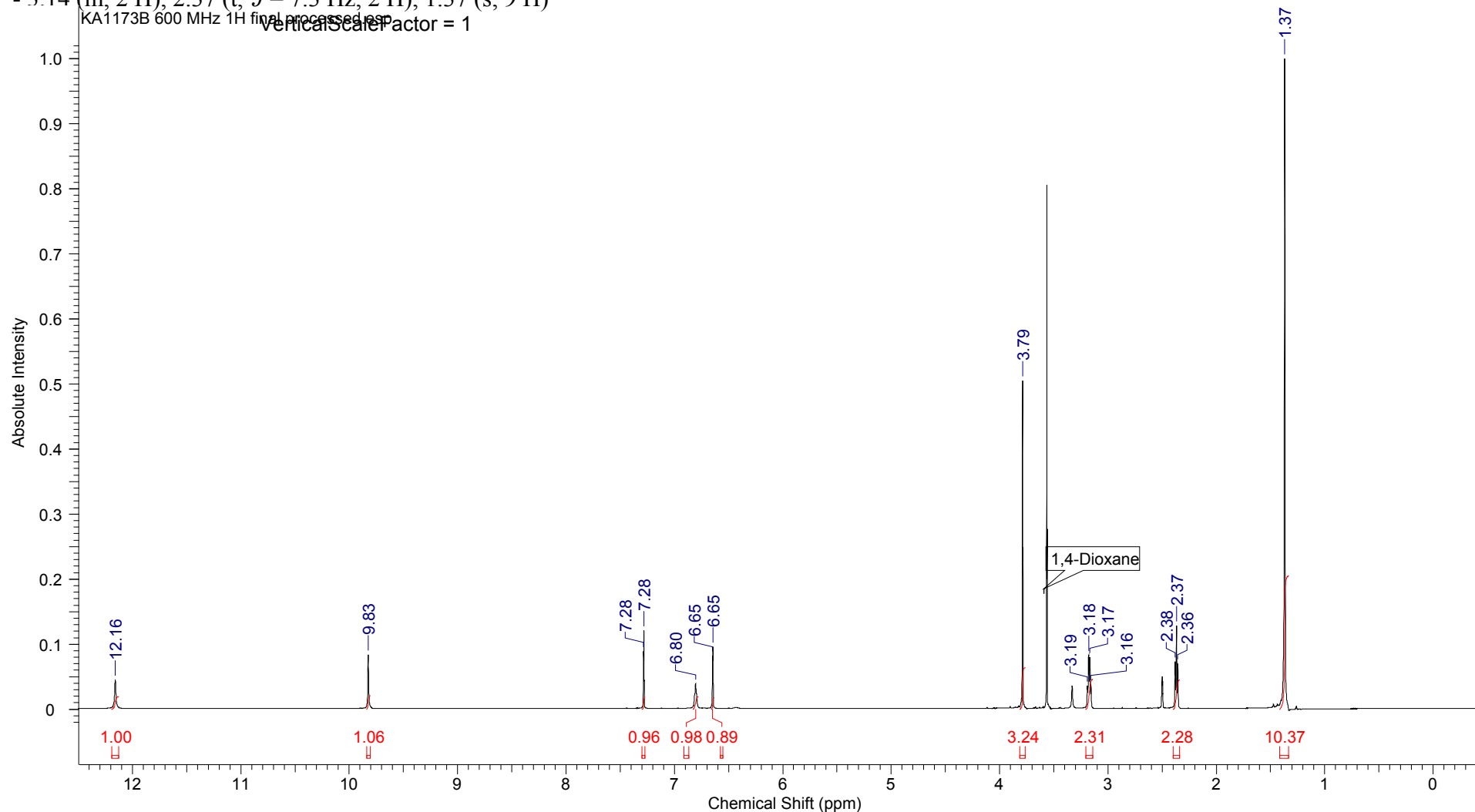
(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)
173.0	26088.8	152.8	23046.2	122.2	18437.2	103.3	15585.4	35.9	5412.5	34.0	5130.5
161.2	24313.2	122.8	18521.6	116.4	17559.8	78.2	11799.4	34.8	5251.8	28.2	4253.1

KA1173B

3/21/2014 5:10:41 PM
ka1173b

Acquisition Time (sec)	1.7039	Comment	ka1173b	Date	Mar 21 2014	Date Stamp	Mar 21 2014
File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka1173b-proton.fid\fid				Frequency (MHz)	599.78	
Nucleus	¹ H	Number of Transients	32	Original Points Count	16384	Points Count	16384
Pulse Sequence	s2pul	Receiver Gain	30.00	Solvent	DMSO-d ₆	Spectrum Offset (Hz)	3609.6973
Spectrum Type	STANDARD	Sweep Width (Hz)	9615.38	Temperature (degree C)	23.000		

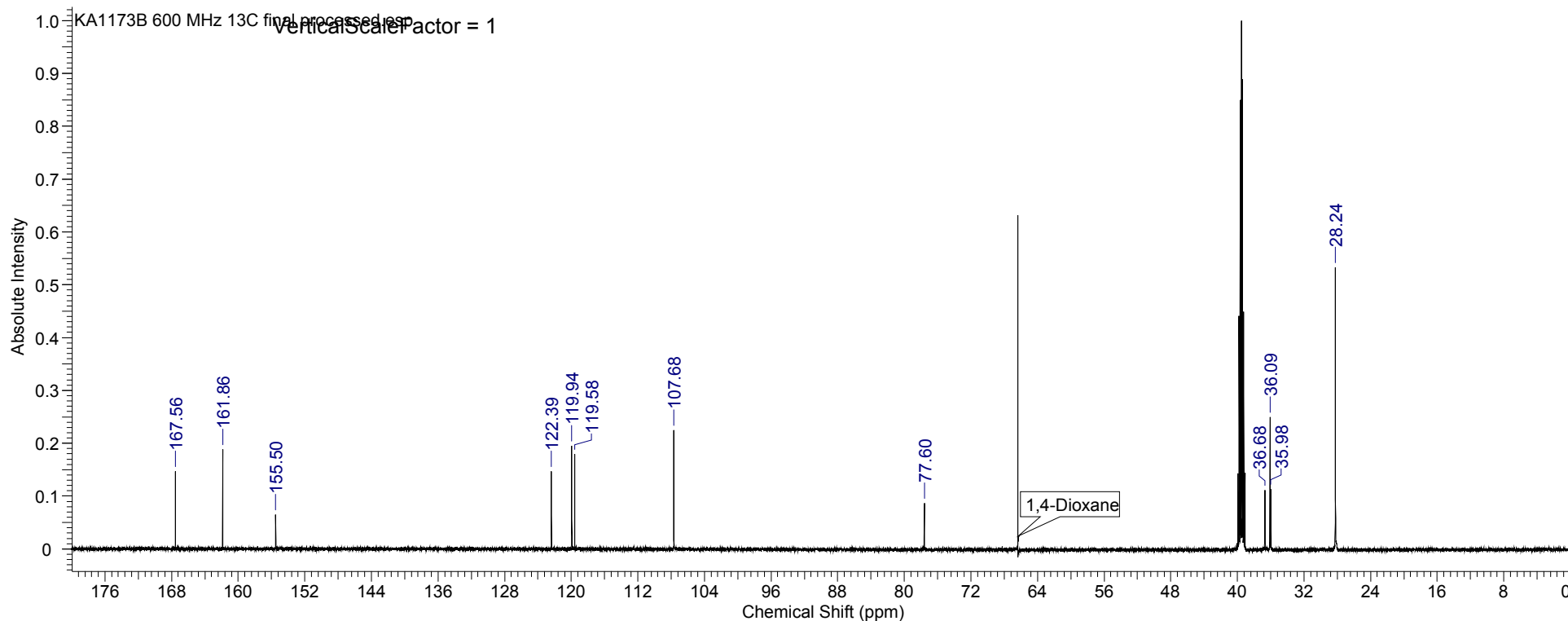
¹H NMR (600MHz, DMSO-d₆) δ = 12.16 (s, 1 H), 9.83 (s, 1 H), 7.28 (s, 1 H), 6.80 (s, 1 H), 6.65 (d, J = 1.8 Hz, 1 H), 3.79 (d, J = 1.0 Hz, 3 H), 3.20 - 3.14 (m, 2 H), 2.37 (t, J = 7.3 Hz, 2 H), 1.37 (s, 9 H)



KA1173B

3/21/2014 5:06:21 PM
ka1173b

Acquisition Time (sec)	0.8651	Comment	ka1173b	Date	Mar 17 2014	Date Stamp	Mar 17 2014
File Name	\\stl.umsi.edu\deptshare\sh_nmrdata\Agilent600\bashkin\ka1173b_20140317_01\CARBON_01.fid\fid					Frequency (MHz)	150.83
Nucleus	¹³ C	Number of Transients	2000	Original Points Count	32768	Points Count	32768
Pulse Sequence	s2pul	Receiver Gain	30.00	Solvent	DMSO-d6	Spectrum Offset (Hz)	16121.1680
Spectrum Type	STANDARD	Sweep Width (Hz)	37878.79	Temperature (degree C)	23.000		



(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)
167.6	25272.7	155.5	23454.3	119.9	18090.4	107.7	16242.0	36.7	5532.7	36.0	5426.4
161.9	24413.8	122.4	18460.3	119.6	18036.1	77.6	11704.7	36.1	5443.7	28.2	4258.8