



Bruker **BioSpin** MRI

ParaVision 360 V3.4

Reference Power Adjustment

- TX Coil: RF RES 128 1H/13C 103/040
L/L TR (BMRIDE T160788/0017)

Table of Contents

| | |
|----------------------------------|---|
| 1. Result Summary | 2 |
| 2. Acquisition Information | 2 |
| 3. Adjustment Progression | 3 |
| 4. Profiles | 5 |

1. Result Summary

Reference gain in use:

| | |
|------------------------|------------------------------------|
| PVM_StudyRefPow | 0.161 W |
| Reference Power Status | Adj by Bruker:AdjRefPowADJ_REF_POW |
| Adjustment Status | Succeeded |

2. Acquisition Information

Table 1. Protocol Parameters

| | |
|----------------------------|------------------|
| Method | Bruker:AdjRefPow |
| Nucleus | ¹ H |
| Excitation Pulse Length | 0.5 ms |
| Excitation Pulse Bandwidth | 2,560 ms |
| Excitation Pulse Shape | bp.exc |
| Derive Init. Power | false |
| Adjustment Precision | 0.3 dB |
| Initial Power | 0.001 W |
| Max Power | 400 W |
| Calculated Shape | false |
| Excitation Pulse Shape | bp.exc |
| Slice Thickness | 5 mm |
| SliceOri | axial |
| Repetition Time | 1,000 ms |
| Echo Time | 15 ms |
| N Receive Channels | 1 |
| Channel Combination | SumOfSquares |

Table 2. Coil information

| | |
|--------------------------|---|
| Coil configuration | RF RES 128 ¹ H/ ¹³ C 103/040 L/L TR (BMRIDE T160788/0017) |
| Operation Mode | [¹ H] TX/RX Volume |
| Active Tx Coil | 1 |
| Tx Coil Element 1 active | true |
| Active Rx Coil | 1 |
| Active Receivers | 1 |
| Rx Coil Element 1 active | true |

Routing Information

```

$Bis,1,20230404,2048,ROUTING,2#$Name,[1H]      TX/RX      Volume#$OpMode,1.0,D/
A,2.16.756.5.5.200.8323328.51270.1680621873.17#$TxCoil,1.0,1,RF RES 128 1H/13C 103/040
L/L  TR,BMRIDE,T160788,0017,1#$TxCoil,1.0,2,RF RES 128 1H/13C 103/040 L/
L  TR,BMRIDE,T160788,0017,2#$RxCoil,1.0,1,RF RES 128 1H/13C 103/040 L/
L  TR,BMRIDE,T160788,0017,1#$RxCoil,1.0,2,RF RES 128 1H/13C 103/040 L/L
TR,BMRIDE,T160788,0017,2#$RfConn,1.0, Chan,1, Nuc,1H#$RfConn,1.0, Chan,1, TxSgu,2#
$RfConn,1.0, TxSgu,2, Amp,2#$RfConn,1.0, Amp,2, TxPreamp,3#$RfConn,1.0, Chan,1,
RxSgu,2#$RfConn,1.0, RxSgu,2, Rec,2#$RfConn,1.0, Rec,2, RxPreamp,3#$RfConn,1.0, Chan,2,
Nuc,13C#$RfConn,1.0, Chan,2, TxSgu,1#$RfConn,1.0, TxSgu,1, Amp,1#$RfConn,1.0, Amp,1,
TxPreamp,2#$RfConn,1.0, Chan,2, RxSgu,1#$RfConn,1.0, RxSgu,1, Rec,1#$RfConn,1.0, Rec,1,
RxPreamp,2#$RfDevProp,1.0, Amp,1/2, HpMode,On#$RfDevProp,1.0, Amp,1, OutSwitchPos,1##
$EndBis,DF,4C#

```

3. Adjustment Progression

Figure 1. Spin Echo Phase Channel 1

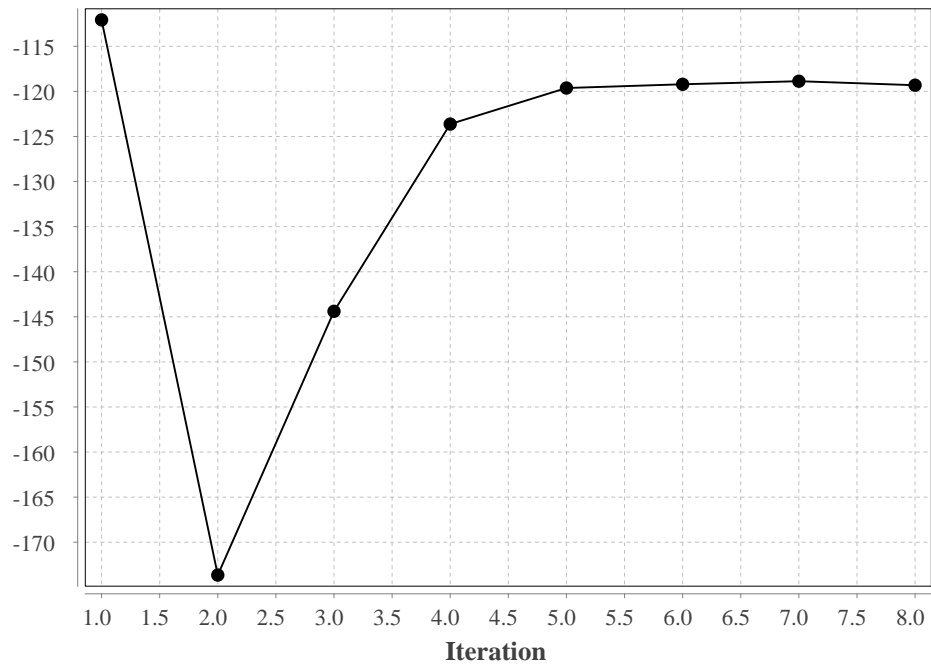


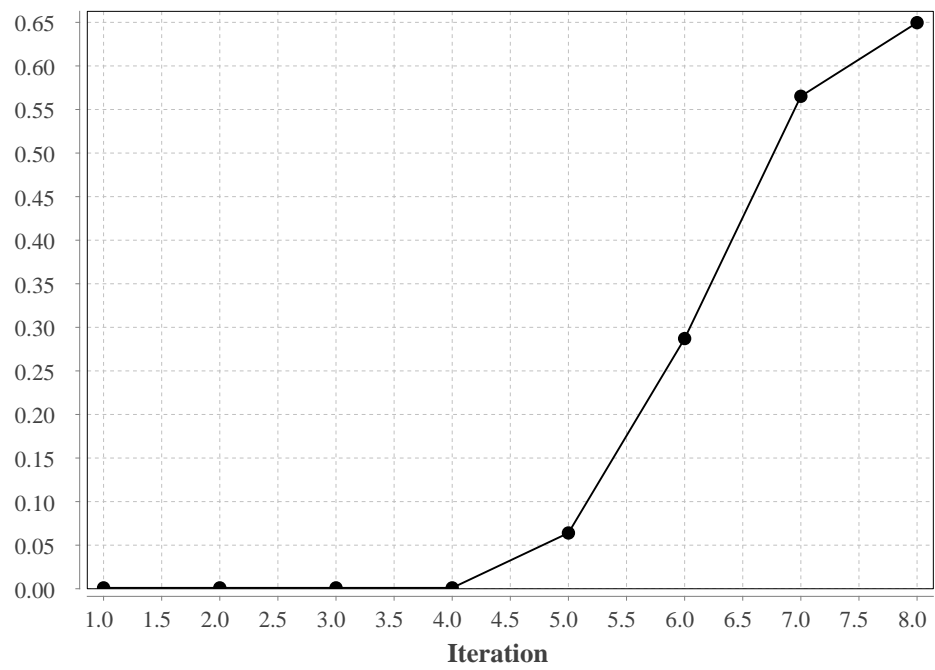
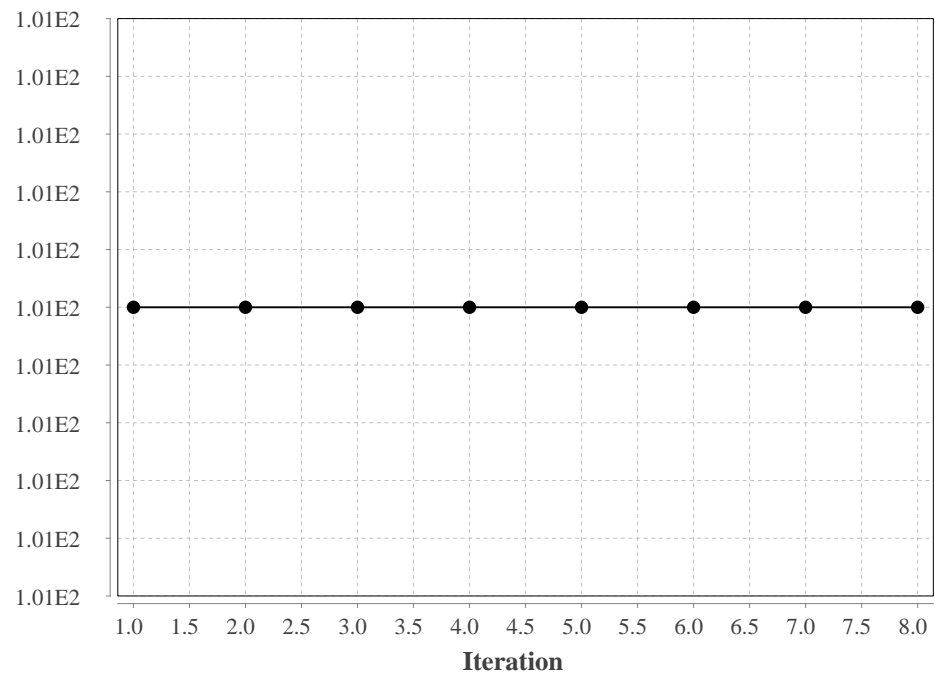
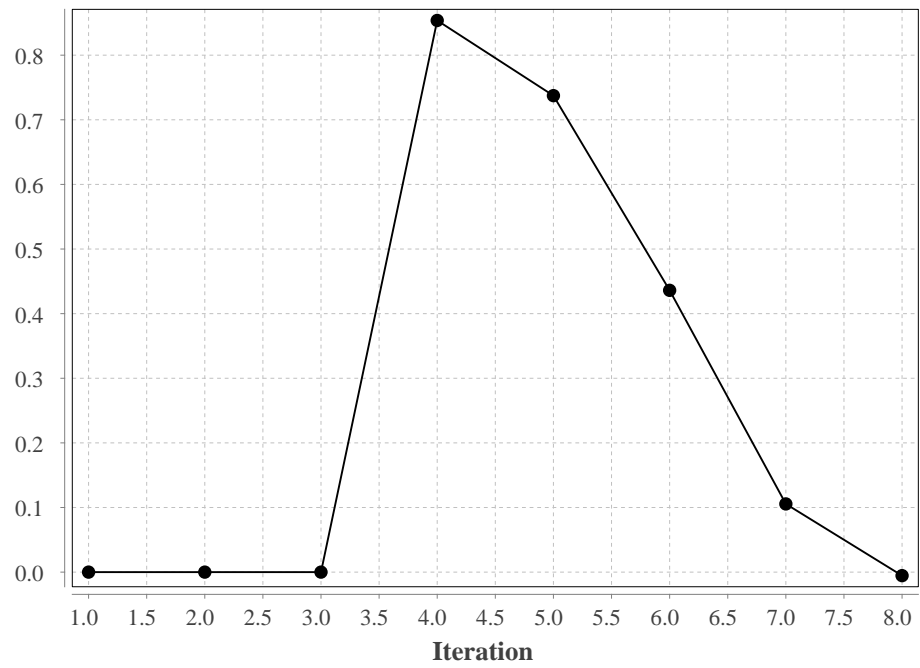
Figure 2. Pulse Power of Adjustment Pulse**Figure 3. Receiver Gain**

Figure 4. STE / SE ratio

4. Profiles

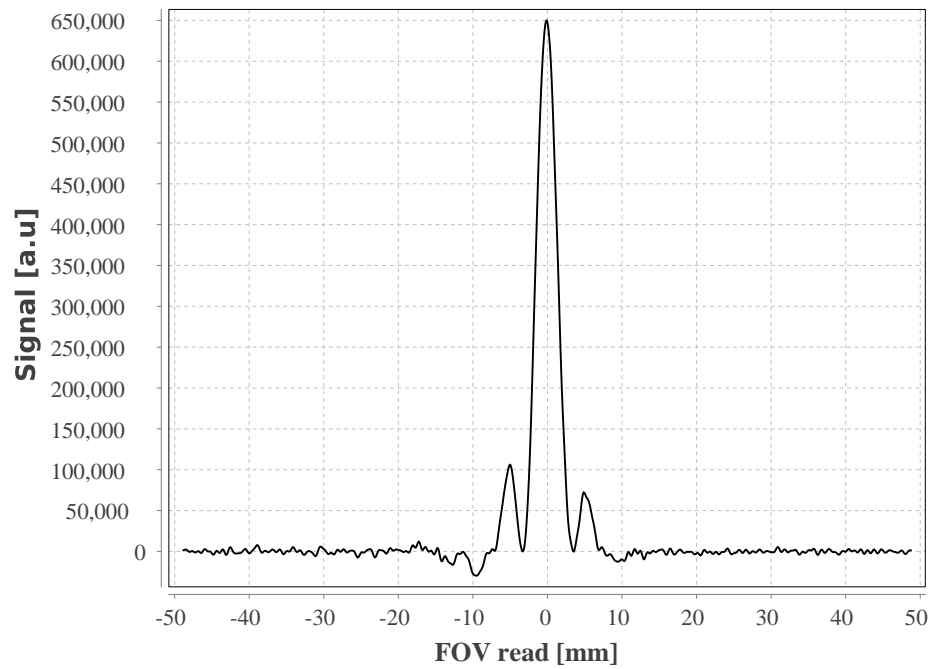
Figure 5. Spin Echo Sum Profile (real part)

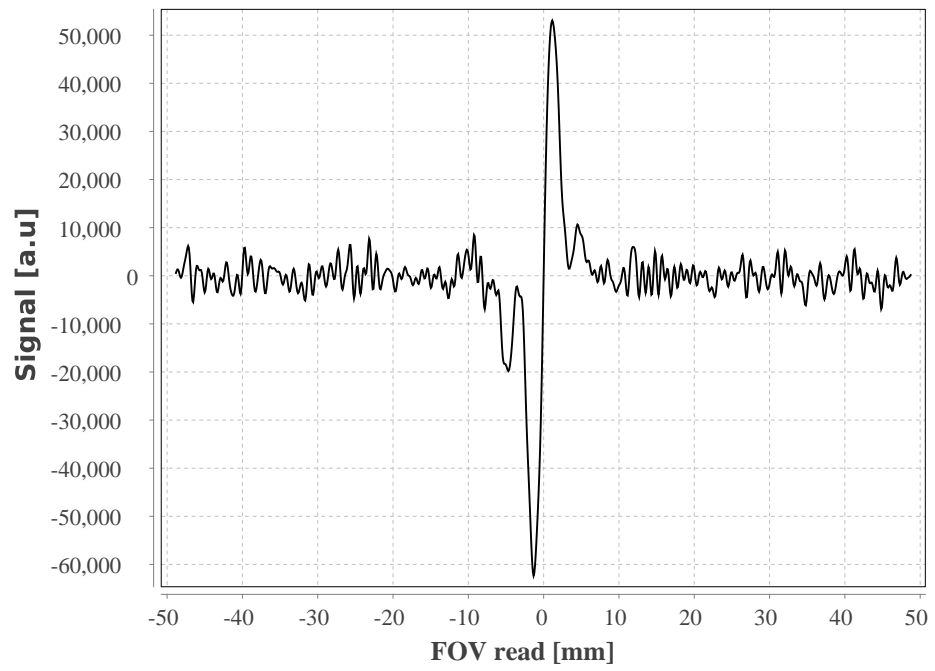
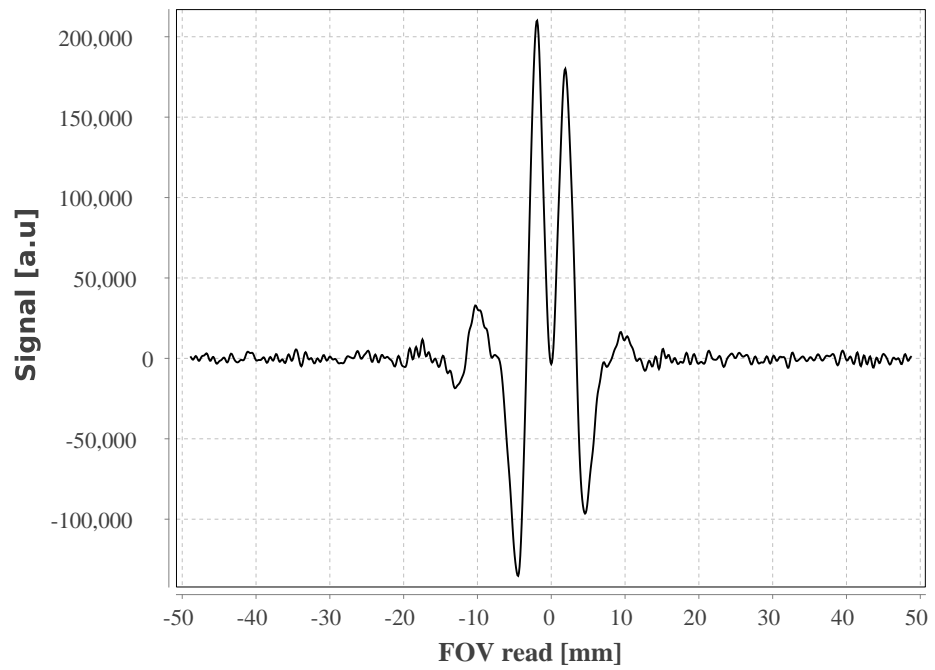
Figure 6. Spin Echo Sum Profile (imag part)**Figure 7. Stimulated Echo Sum Profile (real part)**

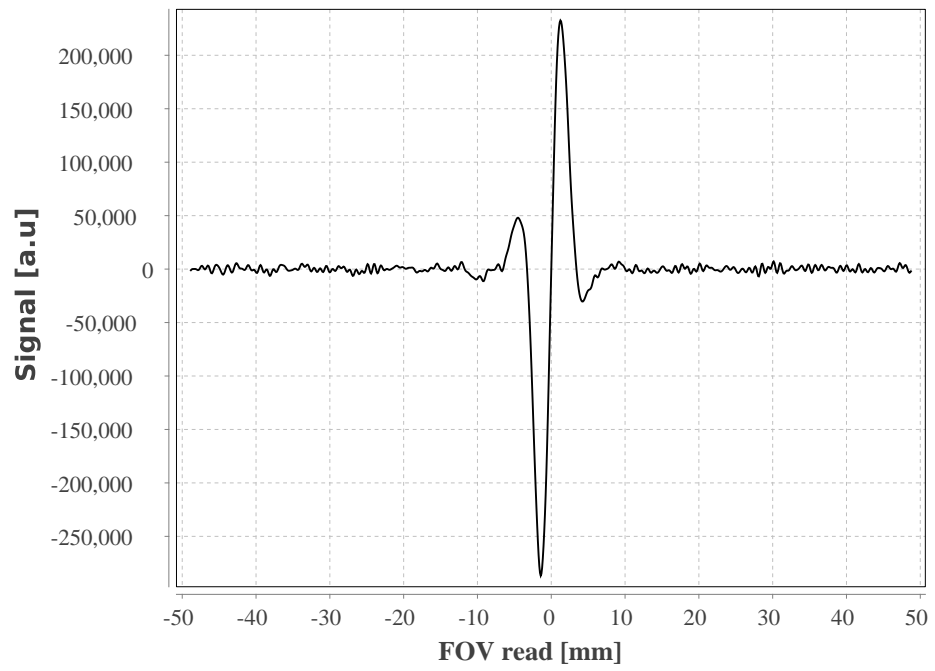
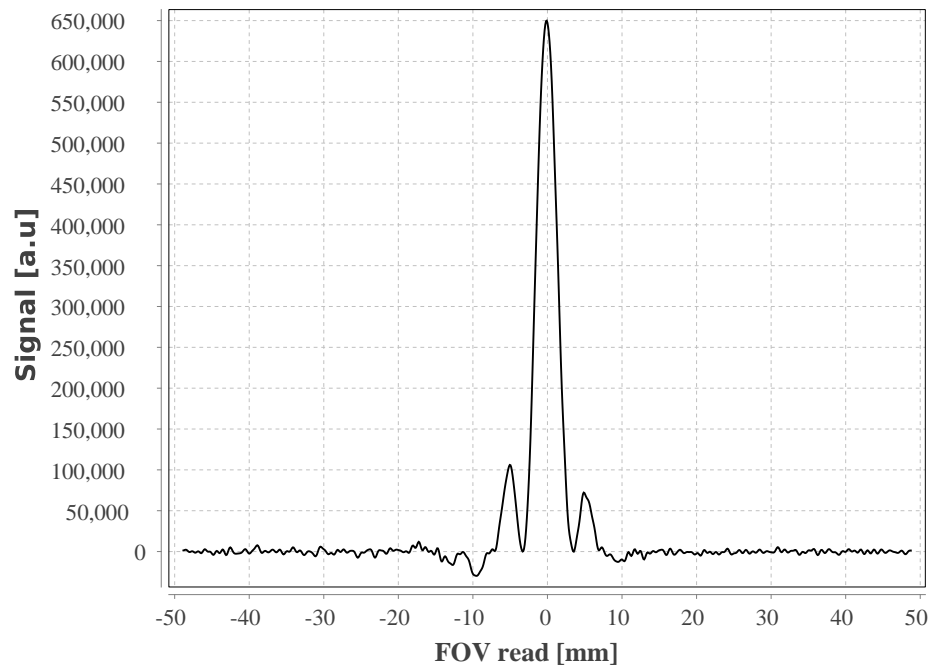
Figure 8. Stimulated Echo Sum Profile (imag part)**Figure 9. Spin Echo Profile (real part) channel 1**

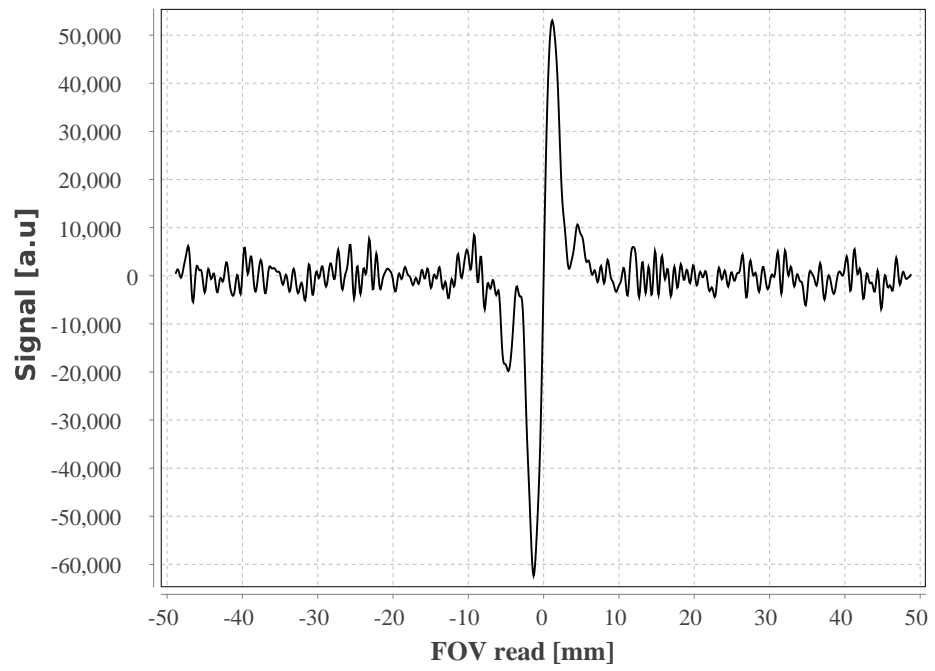
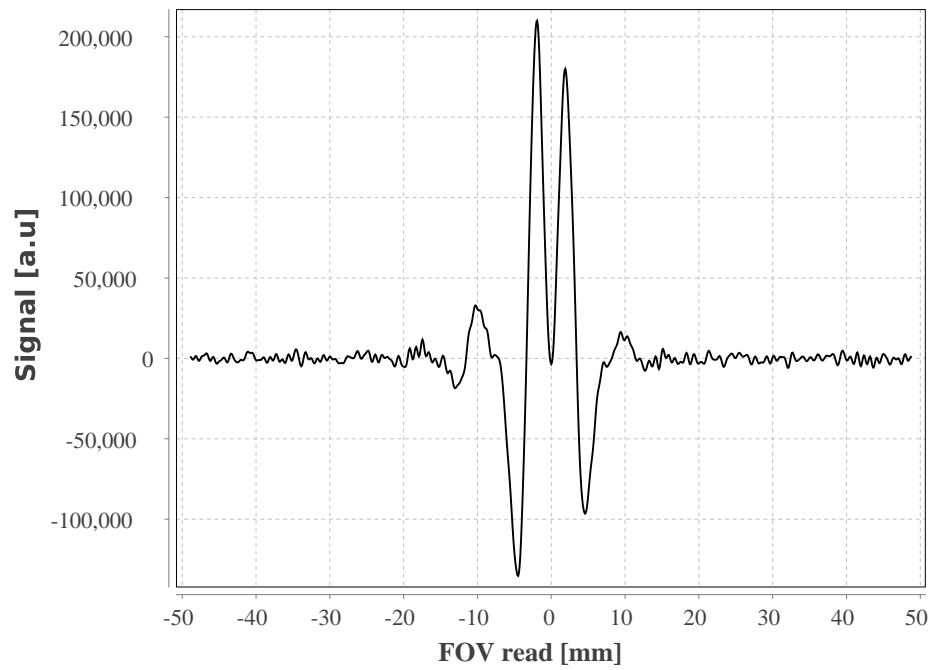
Figure 10. Spin Echo Profile (imag part) channel 1**Figure 11. Stimulated Echo Profile (real part) channel 1**

Figure 12. Stimulated Echo Profile (imag part) channel 1