# Sample Rate and Frequency Response Analysis of Rosetta RPC-MAG

**Calibration Report RO-IWF-TR0001**


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**IWF 2002/01**

**January 2002**


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# Abstract

The Rosetta RPC-MAG Sample Rate and Frequency Response Analysis of the flight and flight-spare units are presented in this paper. We developed an approch for the AC-calibration that uses least square scheme for determining the calibration parameters. The technique is applied to all models and the results are outlined in the document. The paper closes with the summary of the results. Attempts are made to present all essential details.

# Keywords

Sample Rate and Frequency Response Analysis, AC-calibration, Rosetta RPC-MAG

# 1. Overview

The AC-calibration is one part of the calibration procedure. The goal is to determine the Frequency Response and the temporal resolution of the instrument with high accuracy. All possible combiations of flight and flight-spare parts are considered. The Braunbeck Coilsystem in Magnetsrode delivers the environment for such investigations.

### 1.1 Supplied amplitude and frequency range

1.1.1 Amplitude

The magnetic field amplitudes at CoC (Center of coil) for the AC- calibration are shown in Table 1. Two ranges are choosen for RPC-MAG.

| Name | Amplitude (nT peak-to-peak) |
|---|---|
| fd_h | 22000 |
| fd_l | 500 |

Tab. 1: Supplied amplitudes

1.1.2 Frequency

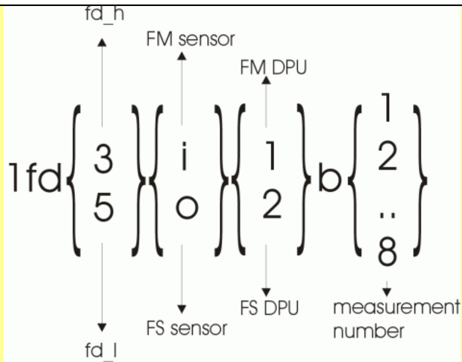
The frequencies for the 2 amplitude ranges are in logarithmic order, ranging from 0.1Hz up to 1kHz and zero field in between the data sequences. The exact values are outlined in Table 2.

| Frequencies (Hz) // 100mHz – 1kHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0.1000 | 0.1259 | 0.1585 | 0.1995 | 0.2512 | 0.3162 | 0.3981 | 0.5012 | 0.6310 | 0.7943 |
| 1.0000 | 1.2589 | 1.5849 | 1.9953 | 2.5119 | 3.1623 | 3.9811 | 5.0120 | 6.3097 | 7.9430 |
| 10.000 | 12.589 | 15.849 | 19.953 | 25.119 | 31.623 | 39.811 | 50.120 | 63.097 | 79.430 |
| 100.00 | 125.89 | 158.49 | 199.53 | 251.19 | 316.23 | 398.11 | 501.20 | 630.97 | 794.30 |
| 1000.0 | | | | | | | | | |

Tab. 2: Supplied frequencies

## 1.2 IWF filename structure

All documented files have eight-character names, beginning with the sequence "1fd". Note that the name is a mixture of letters and characters, e.g. 0 is the digit zero, not the letter O. The last digit of each name is always the measurement number. The following Table 3 shows the possible characters which contains information about the measurement for the Rosetta RPC-MAG AC calibration.




Annotation:

| | |
|---|---|
| FM | flight model |
| FS | flight spare model |
| DPU | data processing unit |
| fd_h | 22000 $nT_{pp}$ |
| fd_l | 500 $nT_{pp}$ |

Tab. 3: IWF filename structure

## 1.3 Measurement data

The RPC-MAG AC-calibration consists of 22 CCD datasets (Complete Calibration Data), measured at Magnetsrode. Each CCD-file has a individual number and IWF-filename as shown in Table 4. A CCD-file has exactly 8 channels. Table 5 shows the combination of channels and frames. Inboard and outboard magnetic field vectors are from channel 0 to 5.

| Number | CCD-File | Annotation | IWF-Name |
|---|---|---|---|
| 01 | 01-04-05 // 10-53-16 | fd_h // FM-Sensor // FS-DPU | 1fd3i2b1 |
| 02 | 01-04-05 // 11-40-37 | fd_l // FM-Sensor // FS-DPU | 1fd5i2b1 |
| 03 | 01-04-20 // 09-01-12 | fd_h // FM-Sensor // FM-DPU | 1fd3i1b1 |
| 04 | 01-04-20 // 09-48-34 | fd_l // FM-Sensor // FM-DPU | 1fd5i1b1 |
| 05 | 01-04-23 // 07-07-01 | fd_h // FS-Sensor // FM-DPU | 1fd3o1b1 |
| 06 | 01-04-23 // 07-54-55 | fd_l // FS-Sensor // FM-DPU | 1fd5o1b1 |
| 07 | 01-04-25 // 14-46-10 | fd_h // FS-Sensor // FS-DPU | 1fd3o2b1 |
| 08 | 01-04-25 // 15-33-33 | fd_l // FS-Sensor // FS-DPU | 1fd5o2b1 |
| 09 | 01-04-25 // 16-20-57 | fd_h // FS-Sensor // FS-DPU | 1fd3o2b2 |
| 10 | 01-04-25 // 17-08-17 | fd_l // FS-Sensor // FS-DPU | 1fd5o2b2 |
| 11 | 01-04-25 // 17-55-38 | fd_h // FS-Sensor // FS-DPU | 1fd3o2b3 |
| 12 | 01-04-25 // 18-42-58 | fd_l // FS-Sensor // FS-DPU | 1fd5o2b3 |
| 13 | 01-04-25 // 19-30-18 | fd_h // FS-Sensor // FS-DPU | 1fd3o2b4 |
| 14 | 01-04-25 // 20-17-39 | fd_l // FS-Sensor // FS-DPU | 1fd5o2b4 |
| 15 | 01-04-25 // 21-04-59 | fd_h // FS-Sensor // FS-DPU | 1fd3o2b5 |
| 16 | 01-04-25 // 21-52-20 | fd_l // FS-Sensor // FS-DPU | 1fd5o2b5 |
| 17 | 01-04-25 // 22-39-41 | fd_h // FS-Sensor // FS-DPU | 1fd3o2b6 |
| 18 | 01-04-25 // 23-27-01 | fd_l // FS-Sensor // FS-DPU | 1fd5o2b6 |
| 19 | 01-04-26 // 00-14-21 | fd_h // FS-Sensor // FS-DPU | 1fd3o2b7 |
| 20 | 01-04-26 // 01-01-41 | fd_l // FS-Sensor // FS-DPU | 1fd5o2b7 |
| 21 | 01-04-26 // 01-49-02 | fd_h // FS-Sensor // FS-DPU | 1fd3o2b8 |
| 22 | 01-04-26 // 02-36-22 | fd_l // FS-Sensor // FS-DPU | 1fd5o2b8 |

Tab. 4: Rosetta RPC-MAG measurements

| CCD channels of the ADC-frames | |
|---|---|
| CH 0 | FGM-IB-x |
| CH 1 | FGM-IB-y |
| CH 2 | FGM-IB-z |
| CH 3 | FGM-OB-x |
| CH 4 | FGM-OB-y |
| CH 5 | FGM-OB-z |
| CH 6 | Temperature IB |
| CH 7 | Temperature OB |
| CH 8 | Framecounter |

Tab. 5: Rawdata channels

## 1.4 Calibration

### 1.4.1 Calibration Setup

The main setup of the Digital Frequency Measurement is outlined in Figure 1 and in the picture Figure 2. The coilsytem is the Braunbeck-System at IGM/TUB. The coils are adequately supplied with the desired signals in frequency and amplitude. Strictly speaking, only one coil is impinged with the signal and the fluxgate sensor is in diagonal position in the center of the coil (CoC). The files themselves are summarized in the appendix.

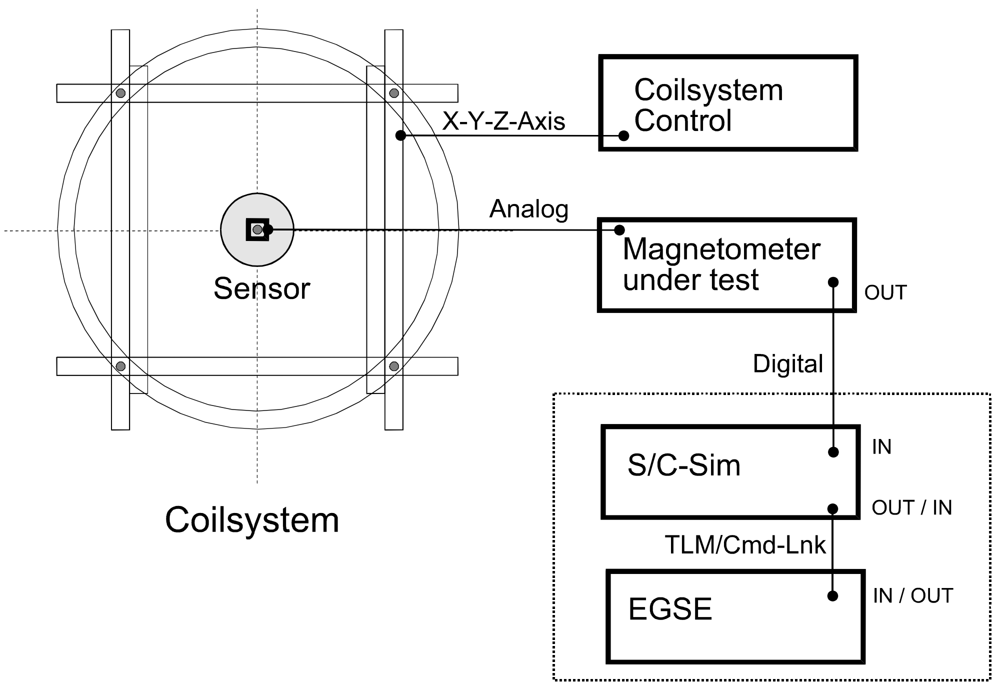



Fig. 1: Blockdiagram of the Calibration Setup for Digital Frequency Measurements

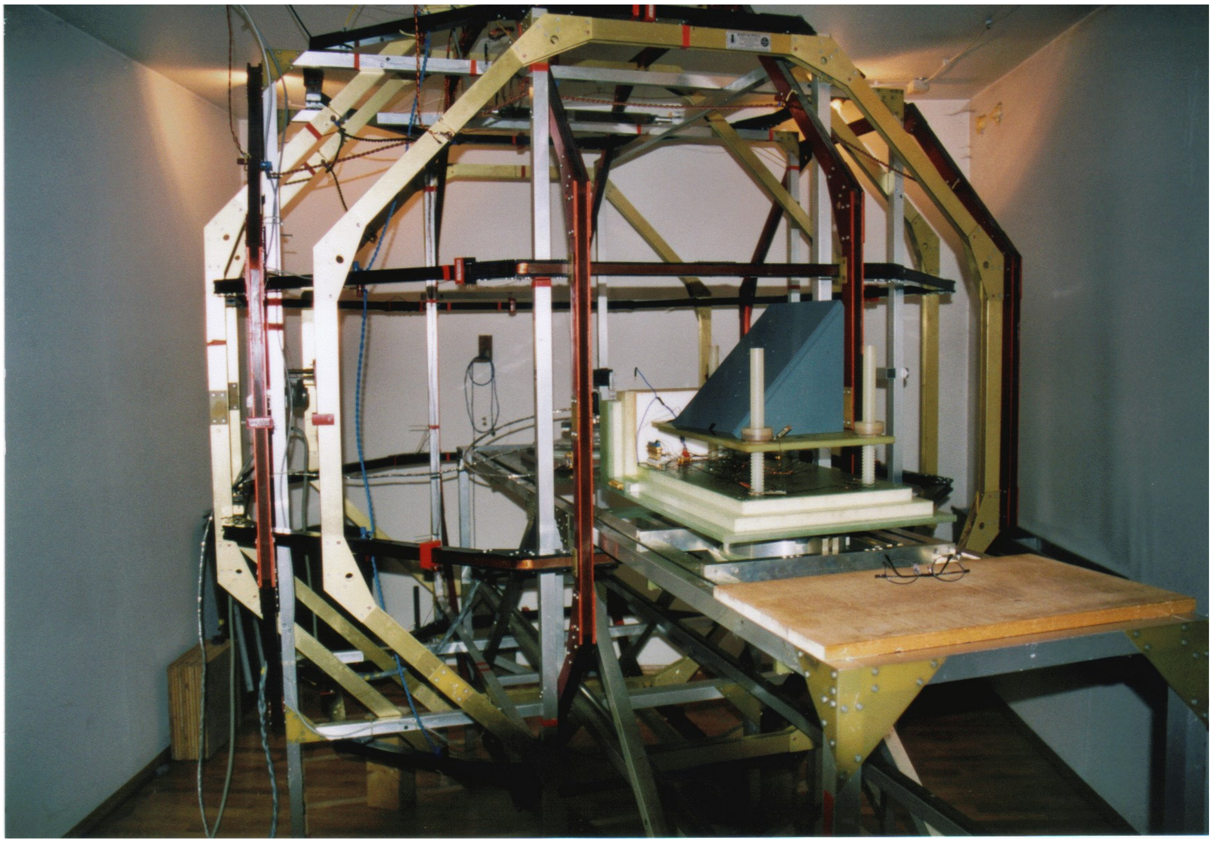


Fig. 2: Picture of the Braunbeck Coilsystem at IGM/TUB Magnetsrode

1.4.2 Calibration Software

The approach for AC-calibration is a least square scheme for determining the calibration parameters. Correct calibration parameters are determined by requiring that the final data set must yield values of the residuals close to zero. The technique is extremely efficient provided input data are available from the CCD-Record (IGM/TUB) and is prove useful for Rosetta RPC-MAG Frequency Response Analysis. Figure 3 outlines the dataflow from the measured CCD-Records to the final outputs as file and/or graphic.

The Complete Calibration Data (CCD) Records are delivered from the coilsystem in Magnetsrode and includes the rawdata channels as shown in Table 5. The DOS program CCD2T extracts the channels and creates ASCII output. The pipeline continues with MATLAB moduls, first the data import followed by the rawdata inspection and the selection of the range belonging to one frequency (41 ranges; from 100mHz to 1kHz in logarithmic order) and as core module the optimization routines. After successful finishing all results are stored in a structure and some selected values are printed in the final ASCII file.

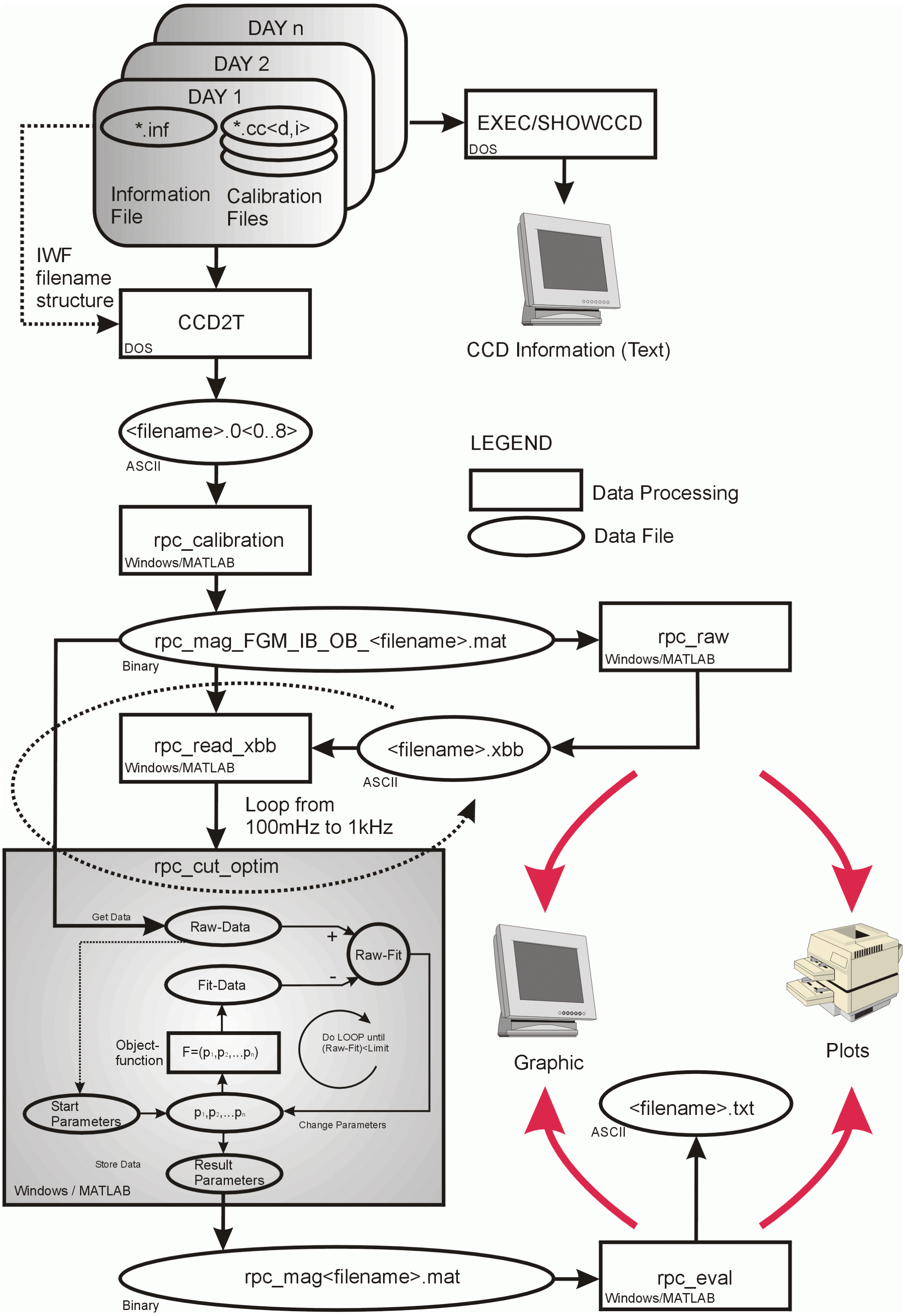



Fig. 3: RPC-MAG AC-calibration flow

# 2. Results and Conclusions

Appendix A lists the results for each CCD file. Table 6 is the summary of the investigations of RPC-MAG AC-calibration for each combination of flight and flight-spare units. RPC-MAG has a samplefrequency with the FM-DPU of 19,9810 Hz and 19.9806 Hz with the FS-DPU, regardless of the sensor. The cornerfrequency is at 13.5 Hz.

| FM-Sensor // FS-DPU | |
|---|---|
| Cornerfrequency –3 dB @ ... | Samplefrequency ... |
| 13.5 ± 0.3 Hz | 19.98070 ± 0.00002 Hz |

| FM-Sensor // FM-DPU | |
|---|---|
| Cornerfrequency –3 dB @ ... | Samplefrequency ... |
| 13.5 ± 0.3 Hz | 19.98103 ± 0.00005 Hz |

| FS-Sensor // FM-DPU | |
|---|---|
| Cornerfrequency –3 dB @ ... | Samplefrequency ... |
| 13.5 ± 0.3 Hz | 19.98103 ± 0.00002 Hz |

| FS-Sensor // FS-DPU | |
|---|---|
| Cornerfrequency –3 dB @ ... | Samplefrequency ... |
| 13.5 ± 0.3 Hz | 19.98060 ± 0.00002 Hz |

Tab. 6: RPC-MAG Summary

# 3. References, Links and Acknowledgements

**References**

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[2] *Dynamische A/D ConverterTest*, I. Jernej, Ö. Aydogar, K. Schwingenschuh, IWF – 9103
[3] *Rosetta Plasma Consortium Users' Manual*, V 0.97, Compiled by Raymond Hoofs / ESTEC Noordwijk, Michael Ludlam / IC London, Dr. Ingo Richter / IGM TU-BS, July 2001
[4] *Rosetta RPC, PIU Interfaces Document, Part I - Power Interfaces*, Draft 20th April 1998
[5] *Rosetta RPC, PIU Interfaces Document, Part II – Data Handling Interfaces*, Issue 1 Revision 2, 18th August 1999
[6] *ROSETTA Experiment Interface Document, Part A*, Issue 2 Rev 0, 1st June 1999, RO-EST-RS-3001/EID A
[7] *Acceptance Data Package for the RPC-0 Common Electronics Box*, Issue 1 of 12th June 2001, Revised to Rev. 1 on 20th September 2001, RO-RPC-AD-8001
[8] *RPC-MAG GSE User manual*, Özer Aydogar, G. Musmann, IWF2001/PD01, 23 October 2001

**Links**

Useful link for further information:

http://sci.esa.int/rosetta/
http://www.iwf.oeaw.ac.at

**Acknowledgements**

Also contributing to the AC calibration of the RPC-MAG were G. Musmann and I. Richter at the Technische Universität Braunschweig. Special thanks to them for supporting during the measurement campaign.

# 4. Appendix A: Single measurement results

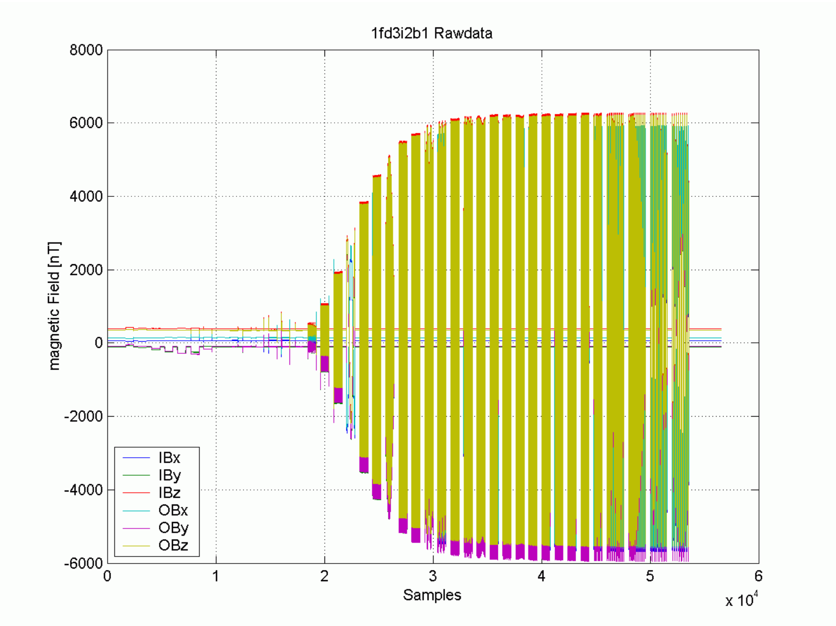
### 4.1 FM-Sensor, FS-DPU

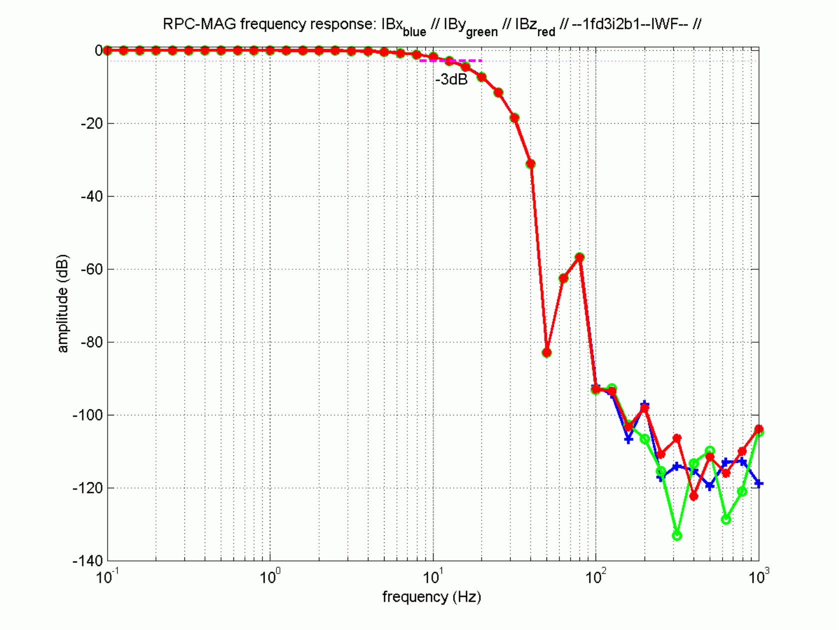
4.1.1 1fd3i2b1

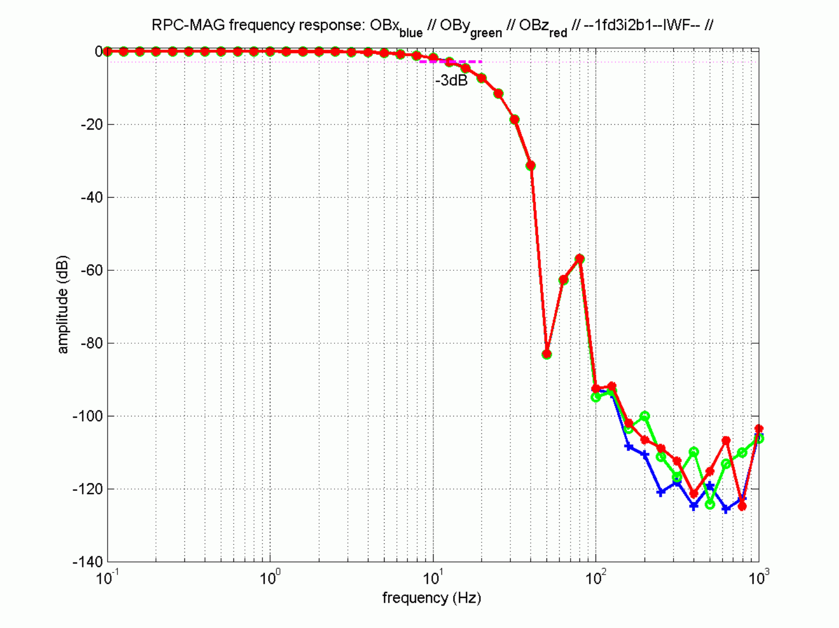
Number // CCD-File // Annotation // IWF-Name
--01-- // 01-04-05 10-53-16 // fd_h FM-Sensor FS-DPU // 1fd3i2b1

**File:** 1fd3i2b1

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980689 | 19,980687 | 19,980696 | 19,980690 | 19,980694 | 19,980704 |
| 0,1259 | 0,009014 | 0,009092 | 0,009037 | 0,009007 | 0,009089 | 0,009044 | 19,980722 | 19,980723 | 19,980717 | 19,980721 | 19,980724 | 19,980722 |
| 0,1585 | 0,001736 | 0,001820 | 0,001728 | 0,001694 | 0,001774 | 0,001746 | 19,980707 | 19,980711 | 19,980714 | 19,980707 | 19,980712 | 19,980712 |
| 0,1995 | 0,000978 | 0,001011 | 0,000942 | 0,000941 | 0,000975 | 0,000975 | 19,980726 | 19,980725 | 19,980723 | 19,980725 | 19,980722 | 19,980725 |
| 0,2512 | -0,009081 | -0,009007 | -0,009126 | -0,009093 | -0,009089 | -0,009076 | 19,980700 | 19,980728 | 19,980728 | 19,980707 | 19,980718 | 19,980723 |
| 0,3162 | 0,009914 | 0,009970 | 0,009775 | 0,009864 | 0,009893 | 0,009873 | 19,980726 | 19,980713 | 19,980715 | 19,980712 | 19,980714 | 19,980707 |
| 0,3981 | -0,009439 | -0,009355 | -0,009627 | -0,009504 | -0,009494 | -0,009558 | 19,980703 | 19,980704 | 19,980705 | 19,980704 | 19,980704 | 19,980707 |
| 0,5012 | -0,033329 | -0,033309 | -0,033608 | -0,033385 | -0,033463 | -0,033484 | 19,980703 | 19,980703 | 19,980704 | 19,980704 | 19,980701 | 19,980705 |
| 0,6310 | -0,027944 | -0,027888 | -0,028333 | -0,027963 | -0,028116 | -0,028190 | 19,980706 | 19,980706 | 19,980705 | 19,980705 | 19,980706 | 19,980705 |
| 0,7943 | -0,026806 | -0,026751 | -0,027388 | -0,026865 | -0,027140 | -0,027194 | 19,980697 | 19,980702 | 19,980701 | 19,980699 | 19,980700 | 19,980700 |
| 1,0000 | -0,046318 | -0,046432 | -0,047271 | -0,046454 | -0,046983 | -0,047053 | 19,980702 | 19,980703 | 19,980701 | 19,980702 | 19,980704 | 19,980702 |
| 1,2589 | -0,058074 | -0,058404 | -0,059556 | -0,058253 | -0,059215 | -0,059319 | 19,980706 | 19,980707 | 19,980707 | 19,980707 | 19,980706 | 19,980707 |
| 1,5849 | -0,060213 | -0,060896 | -0,062475 | -0,060458 | -0,062154 | -0,062179 | 19,980707 | 19,980706 | 19,980706 | 19,980707 | 19,980707 | 19,980707 |
| 1,9953 | -0,092739 | -0,094068 | -0,096315 | -0,093122 | -0,095950 | -0,095931 | 19,980709 | 19,980711 | 19,980707 | 19,980709 | 19,980710 | 19,980707 |
| 2,5119 | -0,126833 | -0,129208 | -0,132428 | -0,127450 | -0,132113 | -0,132013 | 19,980709 | 19,980708 | 19,980708 | 19,980708 | 19,980708 | 19,980708 |
| 3,1623 | -0,207892 | -0,212059 | -0,216673 | -0,208928 | -0,216494 | -0,216185 | 19,980706 | 19,980706 | 19,980706 | 19,980705 | 19,980706 | 19,980706 |
| 3,9811 | -0,306703 | -0,313845 | -0,320559 | -0,308302 | -0,320656 | -0,319952 | 19,980689 | 19,980690 | 19,980691 | 19,980689 | 19,980690 | 19,980692 |
| 5,0120 | -0,468324 | -0,480156 | -0,489882 | -0,470927 | -0,490620 | -0,489225 | 19,980706 | 19,980706 | 19,980706 | 19,980706 | 19,980706 | 19,980706 |
| 6,3097 | -0,745583 | -0,764601 | -0,778654 | -0,749765 | -0,780634 | -0,778010 | 19,980706 | 19,980706 | 19,980706 | 19,980706 | 19,980706 | 19,980706 |
| 7,9430 | -1,156968 | -1,186423 | -1,206387 | -1,163706 | -1,210803 | -1,206040 | 19,980704 | 19,980704 | 19,980704 | 19,980704 | 19,980704 | 19,980704 |
| 10,0000 | -1,803830 | -1,850225 | -1,873386 | -1,814096 | -1,883908 | -1,875104 | 19,980624 | 19,980634 | 19,980615 | 19,980620 | 19,980620 | 19,980621 |
| 12,5890 | -2,852615 | -2,912594 | -2,947491 | -2,870619 | -2,966965 | -2,950707 | 19,980705 | 19,980705 | 19,980705 | 19,980705 | 19,980705 | 19,980705 |
| 15,8490 | -4,501529 | -4,575617 | -4,614792 | -4,531044 | -4,654025 | -4,623779 | 19,980705 | 19,980705 | 19,980705 | 19,980705 | 19,980705 | 19,980705 |
| 19,9530 | -7,269205 | -7,299617 | -7,293766 | -7,317328 | -7,358910 | -7,317679 | 19,981308 | 19,981047 | 19,980808 | 19,981311 | 19,980743 | 19,980831 |
| 25,1190 | -11,475890 | -11,532460 | -11,542824 | -11,549568 | -11,675700 | -11,579952 | 19,980704 | 19,980704 | 19,980704 | 19,980704 | 19,980704 | 19,980704 |
| 31,6230 | -18,600466 | -18,616530 | -18,590723 | -18,705312 | -18,792529 | -18,645722 | 19,980704 | 19,980704 | 19,980704 | 19,980704 | 19,980704 | 19,980704 |
| 39,8110 | -31,155605 | -31,137858 | -31,089336 | -31,292097 | -31,339377 | -31,151442 | 19,980703 | 19,980706 | 19,980706 | 19,980703 | 19,980707 | 19,980705 |
| 50,1200 | -83,148239 | -82,911844 | -82,943789 | -83,326599 | -83,158812 | -82,998726 | 19,981045 | 19,980942 | 19,980975 | 19,980888 | 19,980906 | 19,980852 |
| 63,0970 | -62,595356 | -62,625302 | -62,629868 | -62,768878 | -62,832843 | -62,646722 | 19,980737 | 19,980674 | 19,980697 | 19,980753 | 19,980685 | 19,980698 |
| 79,4300 | -56,696280 | -56,713811 | -56,844654 | -56,906319 | -56,966587 | -56,815984 | 19,980719 | 19,980680 | 19,980707 | 19,980709 | 19,980698 | 19,980708 |
| 100,0000 | -92,233548 | -93,185232 | -92,994176 | -92,901802 | -94,942738 | -92,535678 | 19,986022 | 19,981414 | 19,980572 | 19,982046 | 19,981311 | 19,980694 |
| 125,8900 | -94,410221 | -92,756619 | -93,458457 | -93,837592 | -93,235862 | -91,908968 | 19,980732 | 19,981631 | 19,981346 | 19,981521 | 19,981792 | 19,981973 |
| 158,4900 | -106,743332 | -102,801161 | -103,391075 | -108,432639 | -103,629288 | -101,943718 | 19,980064 | 19,980301 | 19,980551 | 19,980629 | 19,980506 | 19,980268 |
| 199,5300 | -97,198747 | -106,590105 | -98,242882 | -110,711241 | -100,107148 | -106,618766 | 19,979012 | 19,980595 | 19,978753 | 19,980233 | 19,981852 | 19,980606 |
| 251,1900 | -117,236476 | -115,418983 | -110,828689 | -120,989193 | -111,204142 | -108,931964 | 19,980431 | 19,980515 | 19,980569 | 19,980689 | 19,981055 | 19,980599 |
| 316,2300 | -114,088946 | -133,102266 | -106,421054 | -118,210713 | -116,912284 | -112,431685 | 19,980569 | 19,980698 | 19,980583 | 19,980616 | 19,980688 | 19,980971 |
| 398,1100 | -115,306954 | -113,332641 | -122,369159 | -124,851720 | -109,843808 | -121,421705 | 19,980076 | 19,980623 | 19,980589 | 19,980664 | 19,980112 | 19,980343 |
| 501,2000 | -119,622136 | -109,941457 | -111,564818 | -119,186286 | -124,263872 | -115,322374 | 19,980997 | 19,980135 | 19,980771 | 19,980673 | 19,980642 | 19,980650 |
| 630,9700 | -112,977795 | -128,678492 | -116,087058 | -125,747617 | -113,193128 | -106,759235 | 19,980610 | 19,980504 | 19,980525 | 19,980674 | 19,980592 | 19,980490 |
| 794,3000 | -112,705807 | -121,010585 | -110,007106 | -122,771124 | -110,016059 | -124,873824 | 19,980557 | 19,980567 | 19,980823 | 19,980746 | 19,980591 | 19,980631 |
| 1000,0000 | -118,929311 | -104,649581 | -103,846059 | -105,338684 | -106,203069 | -103,623901 | 19,980614 | 19,980662 | 19,980567 | 19,980645 | 19,980650 | 19,980638 |




RPC-MAG frequency response: IBx blue // IBy green // IBz red // --1fd3i2b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

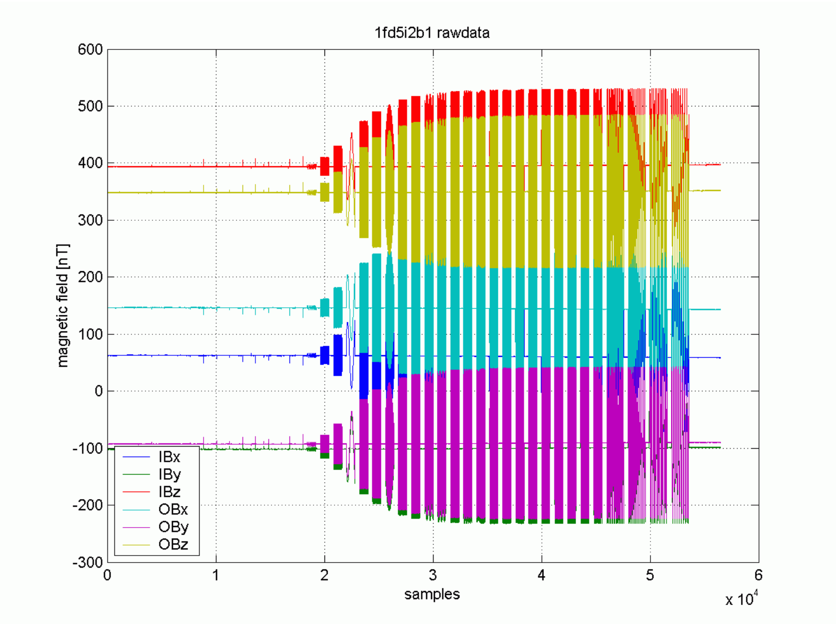

RPC-MAG frequency response: OBx blue // OBy green // OBz red // --1fd3i2b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

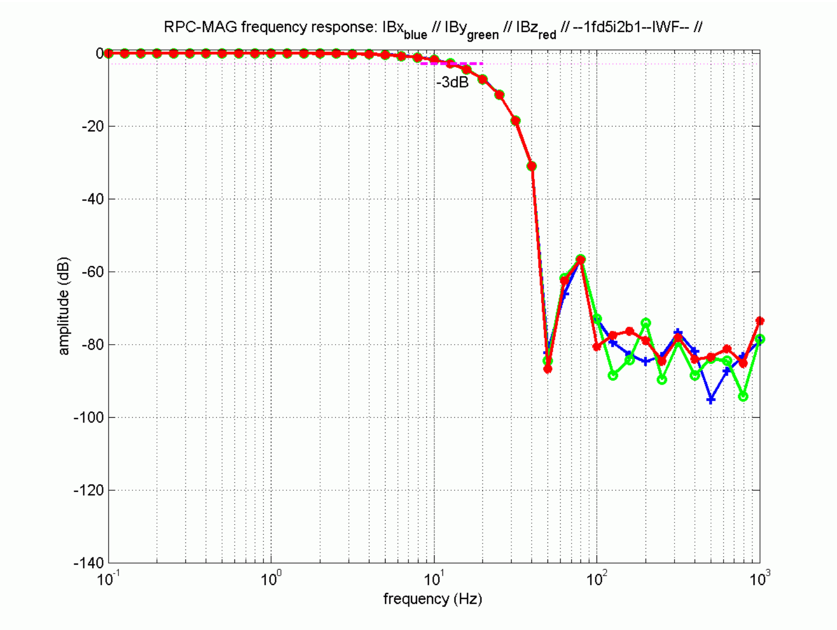
4.1.2 1fd5i2b1

Number // CCD-File // Annotation // IWF-Name
--02-- // 01-04-05 11-40-37 // fd_1 FM-Sensor FS-DPU // 1fd5i2b1

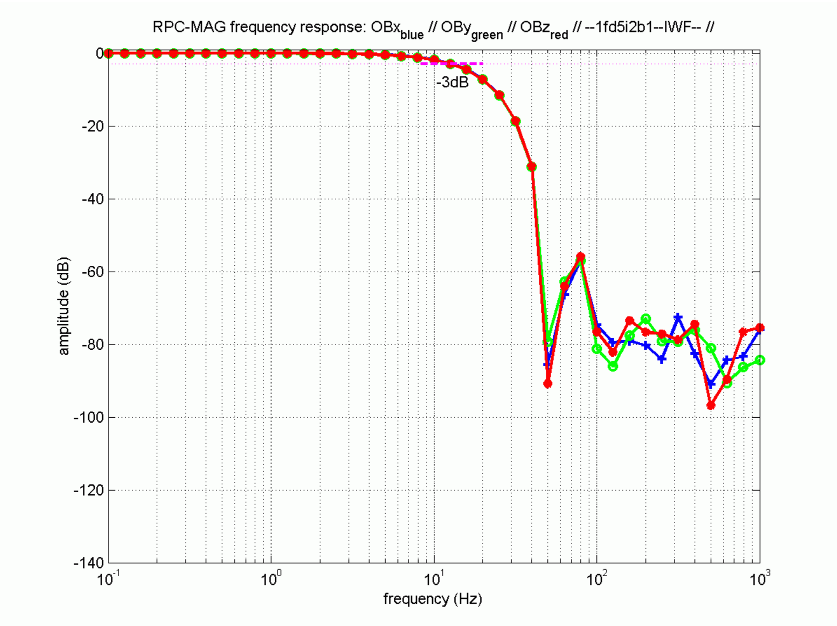
**File: 1fd5i2b1**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980734 | 19,980740 | 19,980941 | 19,980685 | 19,980809 | 19,981000 |
| 0,1259 | -0,000370 | -0,002423 | -0,001209 | 0,000471 | -0,003370 | -0,002800 | 19,980828 | 19,980624 | 19,980554 | 19,980847 | 19,980559 | 19,980498 |
| 0,1585 | -0,003496 | -0,002839 | -0,002428 | -0,001761 | -0,003327 | -0,002925 | 19,980748 | 19,980681 | 19,980821 | 19,980819 | 19,980680 | 19,980922 |
| 0,1995 | -0,004189 | -0,004601 | -0,002998 | -0,002320 | -0,005847 | -0,004400 | 19,980729 | 19,980736 | 19,980713 | 19,980723 | 19,980744 | 19,980654 |
| 0,2512 | -0,005526 | -0,006082 | -0,002327 | -0,005401 | -0,006351 | -0,004310 | 19,980620 | 19,980633 | 19,980668 | 19,980611 | 19,980693 | 19,980692 |
| 0,3162 | -0,007184 | -0,006885 | -0,006374 | -0,006679 | -0,007569 | -0,007111 | 19,980785 | 19,980879 | 19,980657 | 19,980743 | 19,980777 | 19,980941 |
| 0,3981 | -0,009354 | -0,008648 | -0,007474 | -0,008198 | -0,009678 | -0,008644 | 19,980716 | 19,980731 | 19,980530 | 19,980673 | 19,980787 | 19,980621 |
| 0,5012 | -0,011073 | -0,011551 | -0,009117 | -0,010987 | -0,011281 | -0,009071 | 19,980683 | 19,980701 | 19,980660 | 19,980668 | 19,980709 | 19,980660 |
| 0,6310 | -0,015420 | -0,015293 | -0,013367 | -0,013734 | -0,016085 | -0,014397 | 19,980695 | 19,980680 | 19,980708 | 19,980654 | 19,980637 | 19,980658 |
| 0,7943 | -0,019919 | -0,020456 | -0,019024 | -0,020050 | -0,021112 | -0,020201 | 19,980696 | 19,980710 | 19,980779 | 19,980676 | 19,980699 | 19,980751 |
| 1,0000 | -0,027938 | -0,027901 | -0,026340 | -0,027651 | -0,028363 | -0,027457 | 19,980703 | 19,980708 | 19,980753 | 19,980677 | 19,980729 | 19,980766 |
| 1,2589 | -0,040664 | -0,039812 | -0,037341 | -0,038984 | -0,040633 | -0,038087 | 19,980704 | 19,980717 | 19,980715 | 19,980716 | 19,980697 | 19,980718 |
| 1,5849 | -0,057590 | -0,057439 | -0,056822 | -0,056407 | -0,059356 | -0,057482 | 19,980702 | 19,980692 | 19,980697 | 19,980699 | 19,980703 | 19,980702 |
| 1,9953 | -0,084788 | -0,085045 | -0,086323 | -0,084712 | -0,088084 | -0,087789 | 19,980703 | 19,980697 | 19,980705 | 19,980700 | 19,980710 | 19,980688 |
| 2,5119 | -0,126842 | -0,128692 | -0,129482 | -0,126990 | -0,131859 | -0,130145 | 19,980699 | 19,980707 | 19,980707 | 19,980714 | 19,980714 | 19,980706 |
| 3,1623 | -0,192588 | -0,196198 | -0,197467 | -0,193927 | -0,201478 | -0,199137 | 19,980722 | 19,980711 | 19,980697 | 19,980722 | 19,980705 | 19,980693 |
| 3,9811 | -0,296650 | -0,302938 | -0,306555 | -0,298509 | -0,310330 | -0,306874 | 19,980701 | 19,980701 | 19,980703 | 19,980697 | 19,980714 | 19,980700 |
| 5,0120 | -0,458769 | -0,470560 | -0,477043 | -0,461128 | -0,481448 | -0,478343 | 19,980711 | 19,980706 | 19,980706 | 19,980712 | 19,980703 | 19,980711 |
| 6,3097 | -0,714636 | -0,733430 | -0,743443 | -0,719101 | -0,749939 | -0,745542 | 19,980705 | 19,980705 | 19,980706 | 19,980706 | 19,980709 | 19,980708 |
| 7,9430 | -1,118888 | -1,149495 | -1,164501 | -1,127144 | -1,173744 | -1,167233 | 19,980708 | 19,980707 | 19,980705 | 19,980705 | 19,980706 | 19,980706 |
| 10,0000 | -1,761297 | -1,805116 | -1,827410 | -1,773688 | -1,842248 | -1,831282 | 19,980710 | 19,980704 | 19,980708 | 19,980710 | 19,980708 | 19,980708 |
| 12,5890 | -2,783757 | -2,845344 | -2,872140 | -2,804581 | -2,899669 | -2,879667 | 19,980707 | 19,980706 | 19,980704 | 19,980706 | 19,980707 | 19,980704 |
| 15,8490 | -4,422138 | -4,499746 | -4,533729 | -4,455777 | -4,577783 | -4,546690 | 19,980709 | 19,980707 | 19,980703 | 19,980707 | 19,980705 | 19,980706 |
| 19,9530 | -7,070485 | -7,159469 | -7,182958 | -7,118394 | -7,268409 | -7,217493 | 19,980698 | 19,980718 | 19,980727 | 19,980694 | 19,980711 | 19,980719 |
| 25,1190 | -11,393237 | -11,455322 | -11,457368 | -11,471901 | -11,598229 | -11,500551 | 19,980708 | 19,980705 | 19,980703 | 19,980707 | 19,980705 | 19,980700 |
| 31,6230 | -18,542854 | -18,563278 | -18,529120 | -18,649297 | -18,741143 | -18,581095 | 19,980707 | 19,980711 | 19,980703 | 19,980702 | 19,980708 | 19,980704 |
| 39,8110 | -31,133041 | -31,082836 | -30,994216 | -31,327231 | -31,262593 | -31,034166 | 19,980729 | 19,980724 | 19,980754 | 19,980728 | 19,980720 | 19,980764 |
| 50,1200 | -82,329226 | -84,540176 | -86,776503 | -85,623857 | -79,223451 | -90,778079 | 19,983926 | 19,981017 | 19,979142 | 19,981206 | 19,981305 | 19,981734 |
| 63,0970 | -66,175692 | -61,819400 | -62,540735 | -66,357539 | -62,808306 | -64,039151 | 19,977776 | 19,974634 | 19,974607 | 19,977494 | 19,974206 | 19,975028 |
| 79,4300 | -56,483761 | -56,540017 | -56,837748 | -57,049477 | -56,922976 | -55,931266 | 19,981566 | 19,981094 | 19,981375 | 19,981178 | 19,981299 | 19,981800 |
| 100,0000 | -73,127767 | -73,032752 | -80,671691 | -74,598923 | -81,270788 | -76,596471 | 19,983399 | 19,983056 | 19,979901 | 19,981057 | 19,981620 | 19,980656 |
| 125,8900 | -79,553488 | -88,464347 | -77,561823 | -79,590528 | -86,098292 | -82,138570 | 19,981407 | 19,980382 | 19,981954 | 19,981516 | 19,980793 | 19,980767 |
| 158,4900 | -82,885246 | -84,248699 | -76,383221 | -79,023548 | -77,653768 | -73,517919 | 19,981419 | 19,981085 | 19,981256 | 19,981187 | 19,981302 | 19,981838 |
| 199,5300 | -84,776692 | -74,199366 | -79,017670 | -80,360231 | -72,938328 | -76,698871 | 19,980805 | 19,980598 | 19,980992 | 19,981442 | 19,980629 | 19,981058 |
| 251,1900 | -83,340405 | -89,689576 | -84,642334 | -84,165031 | -79,137330 | -77,169617 | 19,980861 | 19,980871 | 19,981020 | 19,980904 | 19,981192 | 19,981361 |
| 316,2300 | -76,881255 | -79,403334 | -78,248086 | -72,659471 | -79,296896 | -78,759007 | 19,981102 | 19,981339 | 19,981088 | 19,981861 | 19,981355 | 19,981123 |
| 398,1100 | -82,039977 | -88,491920 | -84,185174 | -82,567774 | -76,005788 | -74,415567 | 19,981053 | 19,981044 | 19,981026 | 19,981029 | 19,980912 | 19,980957 |
| 501,2000 | -95,269641 | -83,984743 | -83,482804 | -90,953934 | -80,949443 | -96,874654 | 19,980983 | 19,980899 | 19,980952 | 19,981299 | 19,980746 | 19,981396 |
| 630,9700 | -87,298431 | -84,538549 | -81,270941 | -84,324036 | -90,594494 | -89,634290 | 19,981181 | 19,981144 | 19,980958 | 19,981218 | 19,981145 | 19,980973 |
| 794,3000 | -83,404091 | -94,376679 | -85,197049 | -83,379050 | -86,321133 | -76,641986 | 19,981015 | 19,981052 | 19,980993 | 19,980960 | 19,980776 | 19,980971 |
| 1000,0000 | -79,171273 | -78,611410 | -73,628109 | -76,078097 | -84,347945 | -75,417768 | 19,980994 | 19,980949 | 19,980995 | 19,980912 | 19,980889 | 19,980973 |





RPC-MAG frequency response: IBx blue // IBy green // IBz red // --1fd5i2b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)
0
-20
-40
-60
-80
-100
-120
-140
10^-1
10^0
10^1
10^2
10^3

RPC-MAG frequency response: OBx blue // OBy green // OBz red // --1fd5i2b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)
0
-20
-40
-60
-80
-100
-120
-140
10^-1
10^0
10^1
10^2
10^3

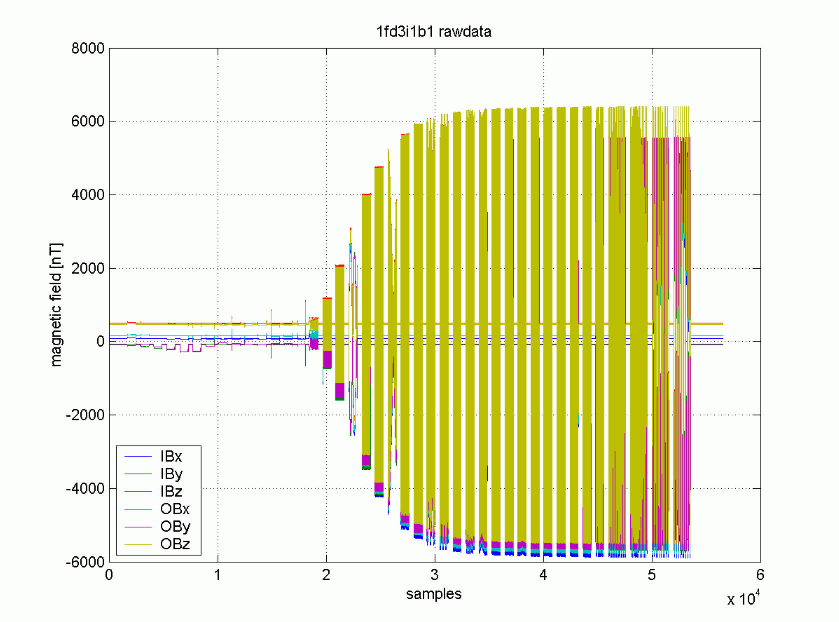
## 4.2 FM-Sensor, FM-DPU

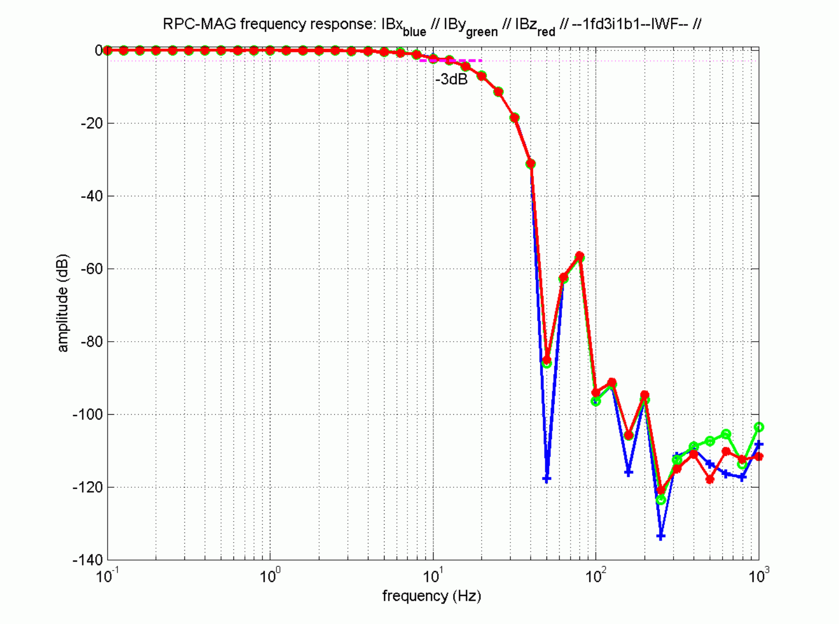
### 4.2.1 1fd3i1b1

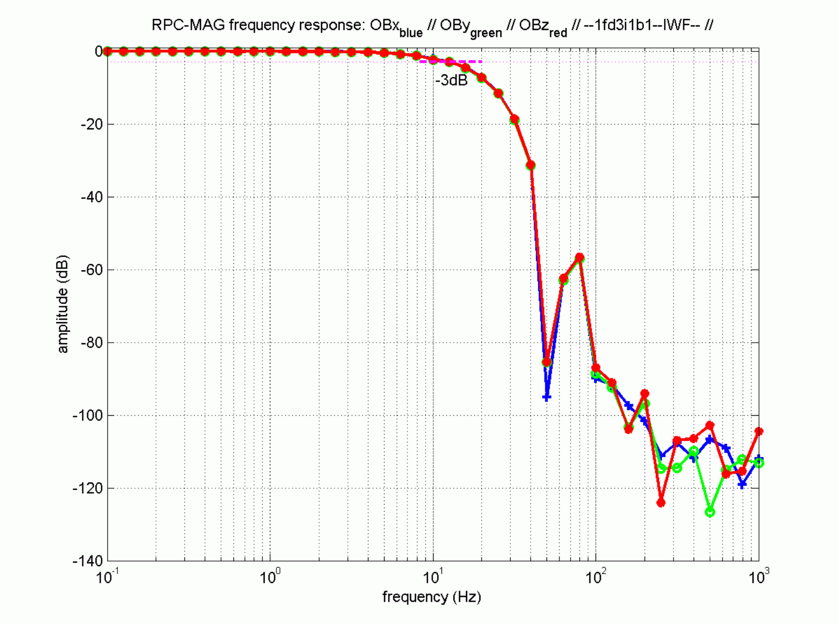
Number // CCD-File // Annotation // IWF-Name
--03-- // 01-04-20 09-01-12 // fd_h FM-Sensor FM-DPU // 1fd3i1b1

**File: 1fd3i1b1**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,981013 | 19,981007 | 19,981000 | 19,981020 | 19,981007 | 19,980998 |
| 0,1259 | -0,021422 | -0,021362 | -0,021412 | -0,021425 | -0,021387 | -0,021409 | 19,981019 | 19,981023 | 19,981024 | 19,981021 | 19,981022 | 19,981027 |
| 0,1585 | -0,018385 | -0,018327 | -0,018403 | -0,018374 | -0,018351 | -0,018362 | 19,981047 | 19,981045 | 19,981045 | 19,981046 | 19,981046 | 19,981043 |
| 0,1995 | -0,021490 | -0,021396 | -0,021526 | -0,021507 | -0,021457 | -0,021559 | 19,981037 | 19,981037 | 19,981036 | 19,981037 | 19,981036 | 19,981036 |
| 0,2512 | -0,049119 | -0,049016 | -0,049141 | -0,049053 | -0,049083 | -0,049170 | 19,980892 | 19,980894 | 19,980889 | 19,980899 | 19,980903 | 19,980892 |
| 0,3162 | -0,017104 | -0,016918 | -0,017170 | -0,017142 | -0,017061 | -0,017195 | 19,981021 | 19,981037 | 19,981038 | 19,981014 | 19,981027 | 19,981049 |
| 0,3981 | -0,036530 | -0,036307 | -0,036597 | -0,036495 | -0,036495 | -0,036650 | 19,981027 | 19,981027 | 19,981027 | 19,981038 | 19,981040 | 19,981033 |
| 0,5012 | -0,037315 | -0,036936 | -0,037335 | -0,037295 | -0,037350 | -0,037466 | 19,981021 | 19,981022 | 19,981022 | 19,981022 | 19,981023 | 19,981022 |
| 0,6310 | -0,058318 | -0,057775 | -0,058297 | -0,058256 | -0,058404 | -0,058489 | 19,981025 | 19,981024 | 19,981028 | 19,981026 | 19,981025 | 19,981028 |
| 0,7943 | -0,040498 | -0,039720 | -0,040549 | -0,040341 | -0,040628 | -0,040792 | 19,981023 | 19,981023 | 19,981022 | 19,981030 | 19,981029 | 19,981024 |
| 1,0000 | -0,052927 | -0,051747 | -0,052905 | -0,052746 | -0,053274 | -0,053354 | 19,981024 | 19,981028 | 19,981023 | 19,981030 | 19,981022 | 19,981030 |
| 1,2589 | -0,084475 | -0,082705 | -0,084342 | -0,084070 | -0,084960 | -0,085011 | 19,981027 | 19,981026 | 19,981026 | 19,981024 | 19,981025 | 19,981025 |
| 1,5849 | -0,103599 | -0,101005 | -0,103408 | -0,103058 | -0,104592 | -0,104471 | 19,981025 | 19,981025 | 19,981025 | 19,981027 | 19,981027 | 19,981026 |
| 1,9953 | -0,112277 | -0,108429 | -0,112024 | -0,111439 | -0,114087 | -0,113638 | 19,981032 | 19,981031 | 19,981031 | 19,981031 | 19,981030 | 19,981031 |
| 2,5119 | -0,152671 | -0,146951 | -0,152267 | -0,151455 | -0,155703 | -0,154868 | 19,981028 | 19,981027 | 19,981028 | 19,981027 | 19,981027 | 19,981027 |
| 3,1623 | -0,232285 | -0,223683 | -0,231744 | -0,230545 | -0,237314 | -0,235741 | 19,981026 | 19,981026 | 19,981026 | 19,981027 | 19,981026 | 19,981026 |
| 3,9811 | -0,319828 | -0,307054 | -0,319217 | -0,317385 | -0,328253 | -0,325374 | 19,981031 | 19,981031 | 19,981030 | 19,981029 | 19,981030 | 19,981030 |
| 5,0120 | -0,504686 | -0,485825 | -0,504086 | -0,501357 | -0,518565 | -0,513577 | 19,981028 | 19,981027 | 19,981027 | 19,981027 | 19,981027 | 19,981028 |
| 6,3097 | -0,735610 | -0,708020 | -0,735339 | -0,731311 | -0,758238 | -0,749679 | 19,981026 | 19,981026 | 19,981026 | 19,981026 | 19,981026 | 19,981026 |
| 7,9430 | -1,192361 | -1,152893 | -1,193016 | -1,187161 | -1,228825 | -1,214551 | 19,981025 | 19,981025 | 19,981025 | 19,981025 | 19,981025 | 19,981025 |
| 10,0000 | -2,039603 | -2,372410 | -2,388616 | -2,014555 | -2,401588 | -2,372832 | 19,980225 | 19,978456 | 19,978952 | 19,980252 | 19,978786 | 19,979053 |
| 12,5890 | -2,826956 | -2,758420 | -2,835131 | -2,824089 | -2,919159 | -2,879698 | 19,981026 | 19,981026 | 19,981026 | 19,981026 | 19,981026 | 19,981026 |
| 15,8490 | -4,463085 | -4,388469 | -4,481441 | -4,468008 | -4,605631 | -4,541225 | 19,981026 | 19,981026 | 19,981025 | 19,981025 | 19,981025 | 19,981026 |
| 19,9530 | -7,101320 | -7,045164 | -7,136438 | -7,123382 | -7,313370 | -7,210051 | 19,981031 | 19,981026 | 19,981028 | 19,981035 | 19,981026 | 19,981026 |
| 25,1190 | -11,379150 | -11,384596 | -11,436340 | -11,428601 | -11,673374 | -11,516256 | 19,981025 | 19,981025 | 19,981026 | 19,981025 | 19,981026 | 19,981025 |
| 31,6230 | -18,473064 | -18,581837 | -18,544210 | -18,552878 | -18,839791 | -18,617234 | 19,981026 | 19,981025 | 19,981026 | 19,981025 | 19,981025 | 19,981025 |
| 39,8110 | -31,034066 | -31,260873 | -31,097076 | -31,135343 | -31,442260 | -31,154473 | 19,981319 | 19,981315 | 19,981317 | 19,981321 | 19,981316 | 19,981320 |
| 50,1200 | -117,715195 | -86,113272 | -85,103284 | -95,083425 | -85,535101 | -85,431786 | 19,980313 | 19,970441 | 19,991158 | 19,985060 | 19,990378 | 19,989306 |
| 63,0970 | -62,540145 | -62,831501 | -62,442117 | -62,670046 | -62,893161 | -62,478092 | 19,980991 | 19,981076 | 19,981052 | 19,981033 | 19,981031 | 19,981074 |
| 79,43000 | -56,719825 | -56,968086 | -56,512931 | -56,918116 | -57,000027 | -56,518688 | 19,981614 | 19,981626 | 19,981629 | 19,981614 | 19,981612 | 19,981627 |
| 100,0000 | -96,112375 | -96,516040 | -94,061659 | -89,936459 | -88,613152 | -86,910176 | 19,978198 | 19,978796 | 19,979208 | 19,982939 | 19,982943 | 19,978841 |
| 125,8900 | -92,176831 | -91,877133 | -91,215607 | -91,830130 | -92,370565 | -91,114054 | 19,981183 | 19,980974 | 19,980998 | 19,980719 | 19,981054 | 19,980918 |
| 158,4900 | -116,007810 | -105,773406 | -105,834351 | -97,470497 | -103,302586 | -103,933922 | 19,980515 | 19,980508 | 19,980538 | 19,981483 | 19,980779 | 19,980432 |
| 199,5300 | -95,431133 | -95,972274 | -94,669944 | -101,617789 | -96,867865 | -94,038705 | 19,982090 | 19,982635 | 19,982503 | 19,983243 | 19,983065 | 19,983084 |
| 251,1900 | -133,617747 | -123,607259 | -120,903480 | -111,283394 | -114,684247 | -124,061267 | 19,980756 | 19,980418 | 19,980833 | 19,980595 | 19,980571 | 19,980394 |
| 316,2300 | -111,595389 | -112,499145 | -115,055300 | -107,678217 | -114,501651 | -106,976603 | 19,980722 | 19,980547 | 19,979639 | 19,980613 | 19,980467 | 19,980343 |
| 398,1100 | -109,748145 | -109,000458 | -111,005014 | -111,839540 | -109,935516 | -106,496078 | 19,980298 | 19,980395 | 19,980712 | 19,980733 | 19,980584 | 19,980561 |
| 501,2000 | -113,764979 | -107,426055 | -118,038389 | -106,690038 | -126,629239 | -102,783280 | 19,980728 | 19,980627 | 19,980674 | 19,980809 | 19,980578 | 19,980620 |
| 630,9700 | -116,490546 | -105,459449 | -110,253563 | -109,041588 | -115,153809 | -116,211702 | 19,980780 | 19,980671 | 19,980912 | 19,980670 | 19,980615 | 19,980642 |
| 794,3000 | -117,336287 | -113,719041 | -112,456381 | -119,124865 | -112,216386 | -115,390491 | 19,980538 | 19,980685 | 19,980549 | 19,980634 | 19,980687 | 19,980602 |
| 1000,0000 | -108,309892 | -103,499758 | -111,721373 | -112,035175 | -113,180166 | -104,505754 | 19,980624 | 19,980784 | 19,980653 | 19,980630 | 19,980570 | 19,980648 |




RPC-MAG frequency response: IBx blue // IBy green // IBz red // --1fd3i1b1--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB

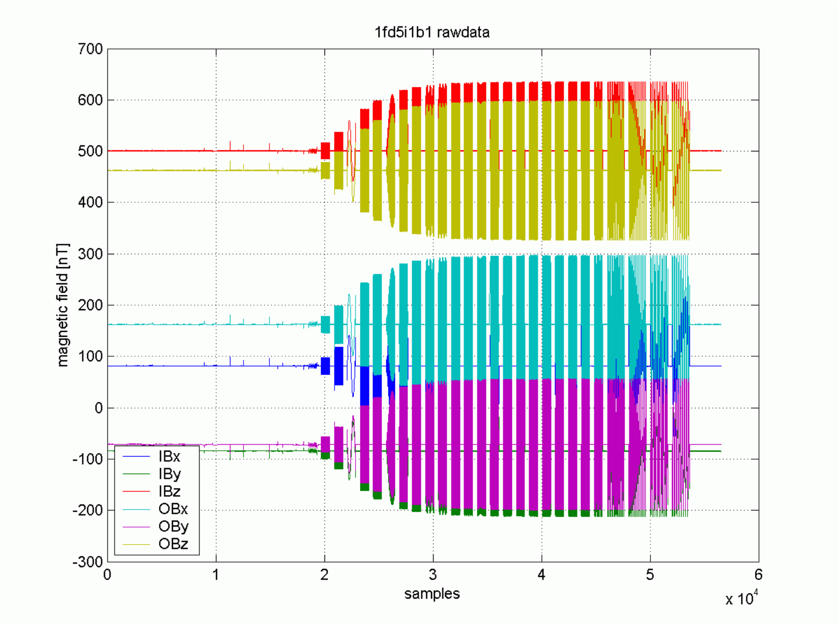

RPC-MAG frequency response: OBx blue // OBy green // OBz red // --1fd3i1b1--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB

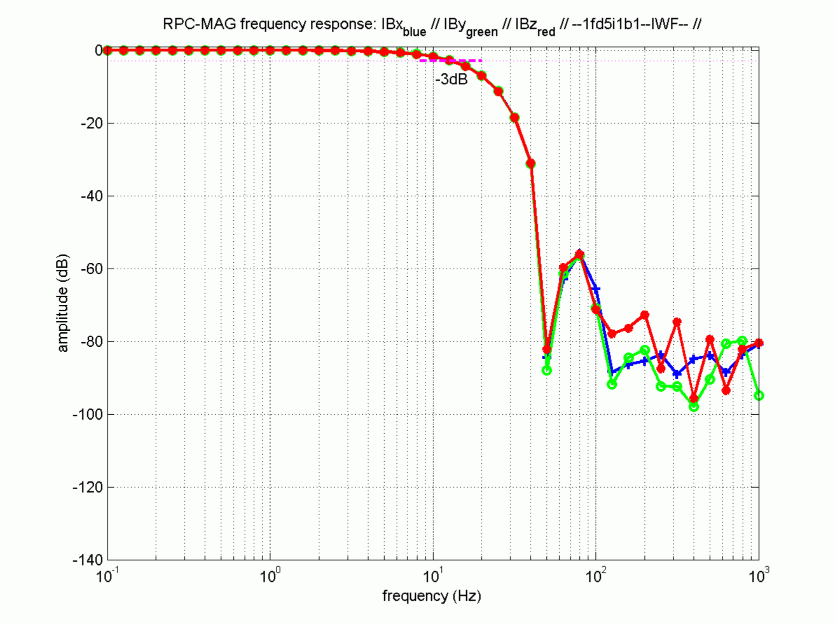
### 4.2.2 1fd5i1b1

Number // CCD-File // Annotation // IWF-Name
--04-- // 01-04-20 09-48-34 // fd_1 FM-Sensor FM-DPU // 1fd5i1b1

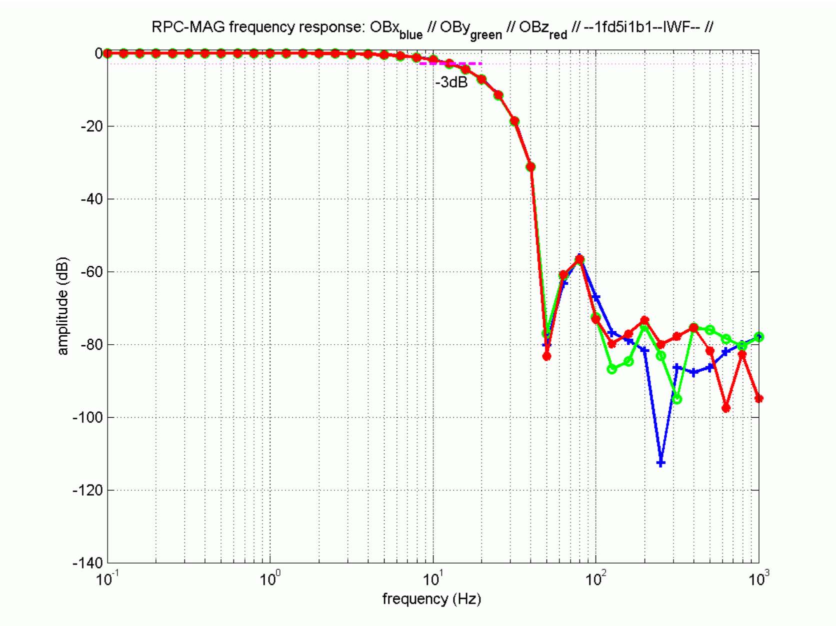
**File: 1fd5i1b1**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,981012 | 19,980993 | 19,981022 | 19,981018 | 19,980841 | 19,981210 |
| 0,1259 | -0,000745 | -0,001035 | -0,001699 | -0,000348 | -0,000635 | -0,001418 | 19,981098 | 19,980985 | 19,981140 | 19,981027 | 19,981083 | 19,981134 |
| 0,1585 | -0,002539 | -0,002648 | -0,002293 | -0,001192 | -0,002531 | -0,001552 | 19,981117 | 19,981042 | 19,980976 | 19,981163 | 19,981051 | 19,981067 |
| 0,1995 | -0,002607 | -0,003089 | -0,002816 | -0,003080 | -0,003621 | -0,001862 | 19,981006 | 19,981064 | 19,981145 | 19,980962 | 19,981036 | 19,981026 |
| 0,2512 | -0,003855 | -0,004561 | -0,004840 | -0,003834 | -0,004757 | -0,004254 | 19,981144 | 19,980937 | 19,981096 | 19,980938 | 19,981004 | 19,980913 |
| 0,3162 | -0,006362 | -0,004829 | -0,006002 | -0,006895 | -0,005044 | -0,006119 | 19,981108 | 19,981017 | 19,980907 | 19,980933 | 19,980994 | 19,981004 |
| 0,3981 | -0,006528 | -0,007497 | -0,007237 | -0,005905 | -0,007131 | -0,006676 | 19,980991 | 19,980994 | 19,981070 | 19,981087 | 19,981023 | 19,981108 |
| 0,5012 | -0,009838 | -0,009894 | -0,009441 | -0,009848 | -0,010076 | -0,008800 | 19,981009 | 19,980994 | 19,980989 | 19,980993 | 19,980976 | 19,981071 |
| 0,6310 | -0,013391 | -0,012706 | -0,012846 | -0,012752 | -0,013763 | -0,012446 | 19,981047 | 19,981037 | 19,980951 | 19,980972 | 19,981005 | 19,981022 |
| 0,7943 | -0,017810 | -0,018318 | -0,018767 | -0,016898 | -0,019207 | -0,017783 | 19,981160 | 19,980999 | 19,980953 | 19,980887 | 19,980971 | 19,981003 |
| 1,0000 | -0,025847 | -0,025145 | -0,027379 | -0,025687 | -0,026567 | -0,026257 | 19,981021 | 19,981019 | 19,981037 | 19,981013 | 19,981006 | 19,981044 |
| 1,2589 | -0,036977 | -0,036287 | -0,036951 | -0,037605 | -0,038264 | -0,036902 | 19,981003 | 19,981040 | 19,981050 | 19,981036 | 19,981037 | 19,980987 |
| 1,5849 | -0,055095 | -0,053052 | -0,054392 | -0,054757 | -0,056636 | -0,053671 | 19,981015 | 19,981044 | 19,981022 | 19,981044 | 19,981034 | 19,981009 |
| 1,9953 | -0,082253 | -0,078585 | -0,082567 | -0,081601 | -0,084925 | -0,083339 | 19,981023 | 19,981031 | 19,981037 | 19,981021 | 19,981025 | 19,981034 |
| 2,5119 | -0,124861 | -0,119290 | -0,124537 | -0,123004 | -0,128456 | -0,126418 | 19,981027 | 19,981025 | 19,981021 | 19,981021 | 19,981026 | 19,981028 |
| 3,1623 | -0,191325 | -0,182378 | -0,190350 | -0,190047 | -0,196947 | -0,192846 | 19,981026 | 19,981025 | 19,981022 | 19,981035 | 19,981026 | 19,981025 |
| 3,9811 | -0,295303 | -0,283395 | -0,294273 | -0,292398 | -0,304444 | -0,299183 | 19,981024 | 19,981025 | 19,981026 | 19,981024 | 19,981029 | 19,981026 |
| 5,0120 | -0,457769 | -0,439969 | -0,456944 | -0,454839 | -0,473285 | -0,465110 | 19,981023 | 19,981025 | 19,981025 | 19,981025 | 19,981027 | 19,981024 |
| 6,3097 | -0,714406 | -0,688357 | -0,714685 | -0,710472 | -0,738122 | -0,727709 | 19,981028 | 19,981023 | 19,981026 | 19,981024 | 19,981028 | 19,981024 |
| 7,9430 | -1,119532 | -1,081579 | -1,120705 | -1,115046 | -1,158520 | -1,140139 | 19,981024 | 19,981026 | 19,981025 | 19,981026 | 19,981026 | 19,981027 |
| 10,0000 | -1,759283 | -1,708113 | -1,762717 | -1,754176 | -1,821645 | -1,792939 | 19,981024 | 19,981027 | 19,981025 | 19,981020 | 19,981030 | 19,981029 |
| 12,5890 | -2,776594 | -2,710101 | -2,784272 | -2,773776 | -2,871513 | -2,827623 | 19,981026 | 19,981025 | 19,981024 | 19,981026 | 19,981027 | 19,981025 |
| 15,8490 | -4,401001 | -4,328585 | -4,419647 | -4,406617 | -4,547070 | -4,476310 | 19,981025 | 19,981025 | 19,981025 | 19,981026 | 19,981025 | 19,981024 |
| 19,9530 | -7,016292 | -6,967954 | -7,058689 | -7,040318 | -7,239274 | -7,128567 | 19,981013 | 19,981021 | 19,981028 | 19,981024 | 19,981021 | 19,981030 |
| 25,1190 | -11,289991 | -11,298151 | -11,344433 | -11,339476 | -11,587944 | -11,422922 | 19,981024 | 19,981026 | 19,981025 | 19,981023 | 19,981026 | 19,981028 |
| 31,6230 | -18,384236 | -18,501777 | -18,455422 | -18,463991 | -18,760304 | -18,526296 | 19,981028 | 19,981027 | 19,981030 | 19,981022 | 19,981029 | 19,981019 |
| 39,8110 | -30,953461 | -31,221714 | -30,957834 | -31,036768 | -31,162209 | -31,174577 | 19,980943 | 19,981044 | 19,980960 | 19,981018 | 19,980887 | 19,981023 |
| 50,1200 | -84,432299 | -87,967347 | -82,236499 | -80,326798 | -77,008487 | -83,273032 | 19,981075 | 19,980836 | 19,980287 | 19,981808 | 19,979778 | 19,981820 |
| 63,0970 | -63,044040 | -61,464813 | -59,709451 | -63,249441 | -60,978130 | -60,926032 | 19,982523 | 19,980008 | 19,979355 | 19,980976 | 19,979018 | 19,980715 |
| 79,4300 | -55,880711 | -56,502285 | -56,048512 | -56,136570 | -56,756109 | -56,534766 | 19,981049 | 19,981261 | 19,981221 | 19,980590 | 19,980903 | 19,981345 |
| 100,0000 | -65,644223 | -70,858580 | -71,263550 | -67,062688 | -72,599486 | -73,072683 | 19,985524 | 19,984869 | 19,980348 | 19,980281 | 19,982975 | 19,982564 |
| 125,8900 | -88,432022 | -91,903083 | -77,925574 | -76,757955 | -86,726735 | -79,926235 | 19,981763 | 19,980714 | 19,979999 | 19,982327 | 19,981214 | 19,981632 |
| 158,4900 | -86,343232 | -84,445708 | -76,410561 | -78,978523 | -84,737073 | -77,178150 | 19,981180 | 19,980456 | 19,980717 | 19,981579 | 19,981359 | 19,981169 |
| 199,5300 | -85,437422 | -82,305849 | -72,735415 | -81,741785 | -74,890445 | -73,365252 | 19,981315 | 19,981487 | 19,980847 | 19,981179 | 19,980538 | 19,980657 |
| 251,1900 | -83,701492 | -92,319198 | -87,533143 | -112,532921 | -83,200628 | -80,035228 | 19,980737 | 19,980770 | 19,981001 | 19,981102 | 19,981301 | 19,980828 |
| 316,2300 | -89,128455 | -92,424479 | -74,686520 | -86,493417 | -95,005870 | -77,859271 | 19,980853 | 19,981098 | 19,980833 | 19,980651 | 19,980673 | 19,980697 |
| 398,1100 | -84,820520 | -97,984657 | -95,743077 | -87,816593 | -75,486590 | -75,428985 | 19,980889 | 19,981041 | 19,981135 | 19,980855 | 19,981013 | 19,980954 |
| 501,2000 | -83,928547 | -90,378234 | -79,442162 | -86,408434 | -75,959602 | -81,717842 | 19,980963 | 19,981023 | 19,981163 | 19,981028 | 19,981061 | 19,980977 |
| 630,9700 | -88,515088 | -80,623184 | -93,483258 | -82,007340 | -78,461851 | -97,569182 | 19,980999 | 19,981067 | 19,980961 | 19,980999 | 19,981084 | 19,980956 |
| 794,3000 | -83,678755 | -79,841985 | -82,149793 | -80,016350 | -80,542650 | -82,788776 | 19,980970 | 19,980986 | 19,981040 | 19,981133 | 19,981011 | 19,980611 |
| 1000,0000 | -80,782536 | -94,935451 | -80,376142 | -77,970788 | -78,051262 | -94,956929 | 19,981015 | 19,980975 | 19,981012 | 19,980994 | 19,980965 | 19,981039 |





RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd5i1b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd5i1b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

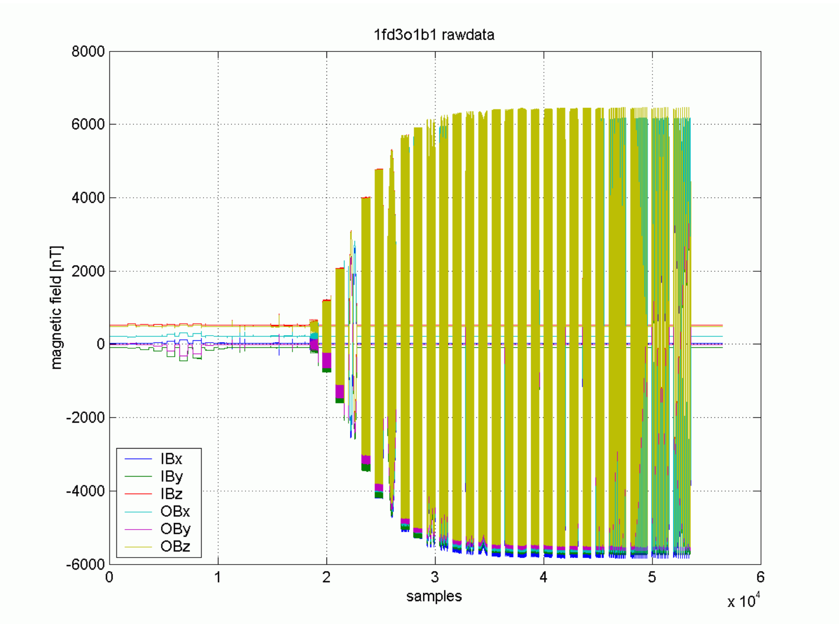
## 4.3 FS-Sensor, FM-DPU

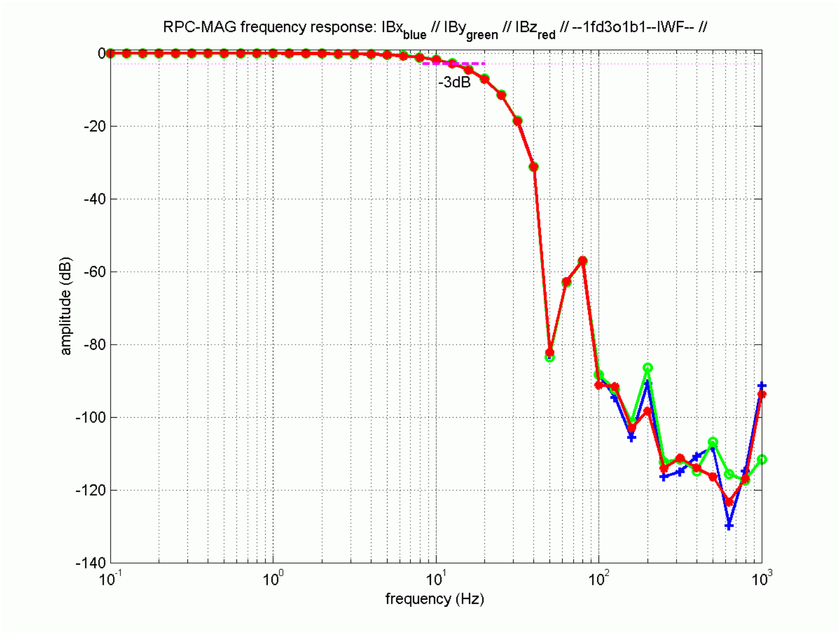
### 4.3.1 1fd3o1b1

Number // CCD-File // Annotation // IWF-Name
--05-- // 01-04-23 07-07-01 // fd_h FS-Sensor FM-DPU // 1fd3o1b1

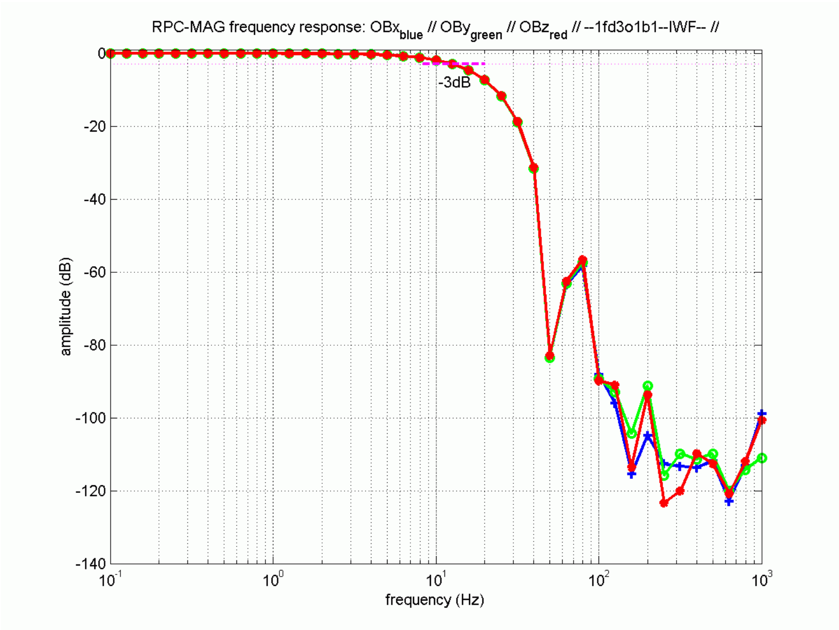
**File: 1fd3o1b1**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,981102 | 19,981090 | 19,981101 | 19,981080 | 19,981090 | 19,981097 |
| 0,1259 | -0,006711 | -0,006655 | -0,006735 | -0,006733 | -0,006659 | -0,006717 | 19,981019 | 19,981016 | 19,981012 | 19,981018 | 19,981016 | 19,981013 |
| 0,1585 | 0,002412 | 0,002451 | 0,002344 | 0,002364 | 0,002423 | 0,002380 | 19,981037 | 19,981049 | 19,981041 | 19,981042 | 19,981043 | 19,981042 |
| 0,1995 | -0,010731 | -0,010611 | -0,010780 | -0,010809 | -0,010697 | -0,010754 | 19,981062 | 19,981064 | 19,981065 | 19,981064 | 19,981064 | 19,981065 |
| 0,2512 | -0,020498 | -0,020328 | -0,020521 | -0,020577 | -0,020443 | -0,020499 | 19,981053 | 19,981043 | 19,981046 | 19,981050 | 19,981046 | 19,981048 |
| 0,3162 | -0,012732 | -0,012487 | -0,012686 | -0,012833 | -0,012639 | -0,012713 | 19,981076 | 19,981079 | 19,981073 | 19,981076 | 19,981078 | 19,981073 |
| 0,3981 | -0,030683 | -0,030335 | -0,030676 | -0,030795 | -0,030609 | -0,030678 | 19,981020 | 19,981019 | 19,981020 | 19,981015 | 19,981020 | 19,981020 |
| 0,5012 | -0,014526 | -0,014046 | -0,014479 | -0,014640 | -0,014438 | -0,014550 | 19,981021 | 19,981021 | 19,981020 | 19,981021 | 19,981022 | 19,981021 |
| 0,6310 | -0,045393 | -0,044750 | -0,045343 | -0,045509 | -0,045368 | -0,045448 | 19,981016 | 19,981014 | 19,981013 | 19,981015 | 19,981015 | 19,981014 |
| 0,7943 | -0,055283 | -0,054322 | -0,055182 | -0,055423 | -0,055292 | -0,055366 | 19,981027 | 19,981026 | 19,981027 | 19,981029 | 19,981028 | 19,981030 |
| 1,0000 | -0,027353 | -0,026032 | -0,027219 | -0,027475 | -0,027516 | -0,027508 | 19,981029 | 19,981028 | 19,981028 | 19,981029 | 19,981028 | 19,981028 |
| 1,2589 | -0,062990 | -0,061035 | -0,062799 | -0,063083 | -0,063337 | -0,063290 | 19,981023 | 19,981024 | 19,981025 | 19,981025 | 19,981025 | 19,981025 |
| 1,5849 | -0,076063 | -0,073188 | -0,075821 | -0,076041 | -0,076846 | -0,076640 | 19,981029 | 19,981028 | 19,981029 | 19,981029 | 19,981028 | 19,981028 |
| 1,9953 | -0,145360 | -0,141209 | -0,145155 | -0,145346 | -0,146906 | -0,146428 | 19,981026 | 19,981025 | 19,981026 | 19,981025 | 19,981026 | 19,981026 |
| 2,5119 | -0,160587 | -0,154447 | -0,160412 | -0,160538 | -0,163367 | -0,162433 | 19,981028 | 19,981027 | 19,981027 | 19,981028 | 19,981027 | 19,981027 |
| 3,1623 | -0,233568 | -0,224491 | -0,233642 | -0,233544 | -0,238438 | -0,236791 | 19,981027 | 19,981026 | 19,981026 | 19,981027 | 19,981026 | 19,981027 |
| 3,9811 | -0,313803 | -0,300353 | -0,314328 | -0,313983 | -0,322095 | -0,319172 | 19,981027 | 19,981027 | 19,981027 | 19,981027 | 19,981027 | 19,981027 |
| 5,0120 | -0,473790 | -0,453991 | -0,475347 | -0,474606 | -0,487732 | -0,482722 | 19,981026 | 19,981026 | 19,981026 | 19,981026 | 19,981026 | 19,981027 |
| 6,3097 | -0,750451 | -0,721541 | -0,753963 | -0,752733 | -0,773507 | -0,765013 | 19,981026 | 19,981025 | 19,981026 | 19,981026 | 19,981026 | 19,981026 |
| 7,9430 | -1,160125 | -1,118909 | -1,167293 | -1,165489 | -1,197782 | -1,183521 | 19,981025 | 19,981025 | 19,981025 | 19,981025 | 19,981025 | 19,981025 |
| 10,0000 | -1,839879 | -1,783540 | -1,854010 | -1,850742 | -1,900584 | -1,876928 | 19,981020 | 19,981017 | 19,981018 | 19,981019 | 19,981017 | 19,981017 |
| 12,5890 | -2,857046 | -2,784725 | -2,882806 | -2,880838 | -2,953214 | -2,914148 | 19,981024 | 19,981024 | 19,981024 | 19,981024 | 19,981024 | 19,981024 |
| 15,8490 | -4,549158 | -4,468415 | -4,595295 | -4,596123 | -4,698048 | -4,634165 | 19,981023 | 19,981023 | 19,981023 | 19,981023 | 19,981023 | 19,981023 |
| 19,9530 | -7,139242 | -7,072913 | -7,218137 | -7,227505 | -7,361211 | -7,258924 | 19,981021 | 19,981018 | 19,981019 | 19,981022 | 19,981019 | 19,981019 |
| 25,1190 | -11,437765 | -11,424983 | -11,559452 | -11,591187 | -11,745957 | -11,588291 | 19,981023 | 19,981023 | 19,981023 | 19,981023 | 19,981023 | 19,981023 |
| 31,6230 | -18,501288 | -18,578210 | -18,664540 | -18,744336 | -18,886494 | -18,659574 | 19,981023 | 19,981023 | 19,981023 | 19,981023 | 19,981023 | 19,981023 |
| 39,8110 | -31,107763 | -31,263771 | -31,286768 | -31,463726 | -31,527288 | -31,224245 | 19,981327 | 19,981327 | 19,981325 | 19,981323 | 19,981324 | 19,981322 |
| 50,1200 | -82,824602 | -83,484897 | -82,259073 | -83,466449 | -83,532387 | -82,955085 | 19,980689 | 19,980222 | 19,979934 | 19,980370 | 19,980252 | 19,980857 |
| 63,0970 | -62,878537 | -62,965000 | -62,841514 | -63,558364 | -63,196357 | -62,635655 | 19,981022 | 19,981013 | 19,981016 | 19,981035 | 19,981011 | 19,981008 |
| 79,4300 | -57,269823 | -57,113187 | -56,945519 | -58,309864 | -57,345988 | -56,642254 | 19,981031 | 19,981060 | 19,981057 | 19,981027 | 19,981059 | 19,981054 |
| 100,0000 | -88,391600 | -88,305424 | -91,235236 | -88,134038 | -89,223673 | -89,851543 | 19,983796 | 19,984022 | 19,977384 | 19,983523 | 19,984910 | 19,984098 |
| 125,8900 | -94,622331 | -92,438990 | -91,703961 | -96,129179 | -92,892579 | -91,102691 | 19,980891 | 19,981167 | 19,981236 | 19,980917 | 19,981220 | 19,981204 |
| 158,4900 | -105,616601 | -101,344961 | -102,909642 | -115,478127 | -104,323929 | -113,637736 | 19,980785 | 19,980839 | 19,980815 | 19,981263 | 19,980893 | 19,980798 |
| 199,5300 | -90,826567 | -86,447496 | -98,379825 | -104,849575 | -91,209728 | -93,693909 | 19,980896 | 19,980921 | 19,982067 | 19,981124 | 19,980999 | 19,982772 |
| 251,1900 | -116,410444 | -112,312502 | -114,161950 | -112,664238 | -115,867823 | -123,421099 | 19,981326 | 19,980991 | 19,980982 | 19,981204 | 19,980754 | 19,981003 |
| 316,2300 | -115,032740 | -111,711165 | -111,303744 | -113,334484 | -109,897096 | -120,159091 | 19,981064 | 19,980915 | 19,981011 | 19,981774 | 19,981048 | 19,980863 |
| 398,1100 | -110,825247 | -114,900312 | -113,989538 | -113,671395 | -111,351384 | -109,820164 | 19,981277 | 19,980933 | 19,981023 | 19,981117 | 19,981108 | 19,980815 |
| 501,2000 | -108,303359 | -106,781034 | -116,350821 | -111,856274 | -109,962234 | -112,633362 | 19,980843 | 19,981842 | 19,981097 | 19,981059 | 19,981212 | 19,981067 |
| 630,9700 | -129,826319 | -115,743314 | -123,415946 | -122,937433 | -120,160836 | -120,808131 | 19,981085 | 19,981063 | 19,980974 | 19,980995 | 19,980980 | 19,981029 |
| 794,3000 | -114,848595 | -117,341471 | -117,012432 | -113,123145 | -114,250775 | -112,082601 | 19,980842 | 19,981046 | 19,980938 | 19,980553 | 19,981104 | 19,980799 |
| 1000,0000 | -91,453013 | -111,671816 | -93,772021 | -98,861503 | -111,047995 | -100,736161 | 19,983237 | 19,980971 | 19,979268 | 19,980582 | 19,981177 | 19,984063 |





RPC-MAG frequency response: IBx_blue // IBy_green // IBz_red // --1fd3o1b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

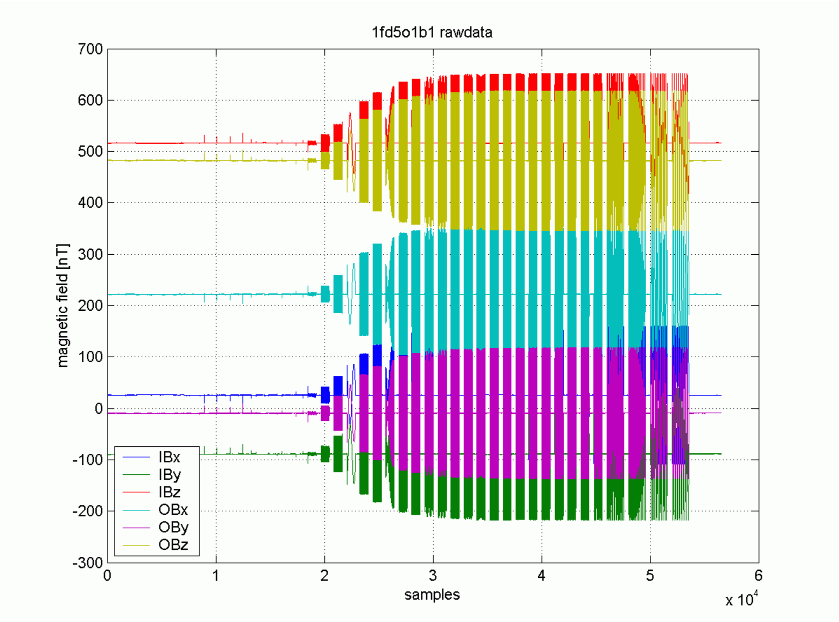
RPC-MAG frequency response: OBx_blue // OBy_green // OBz_red // --1fd3o1b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

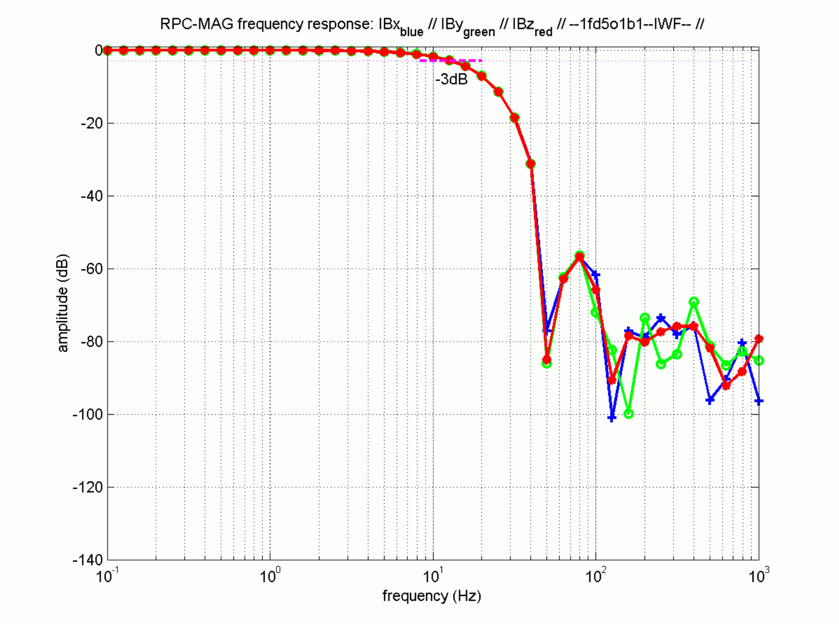
4.3.2 1fd5o1b1

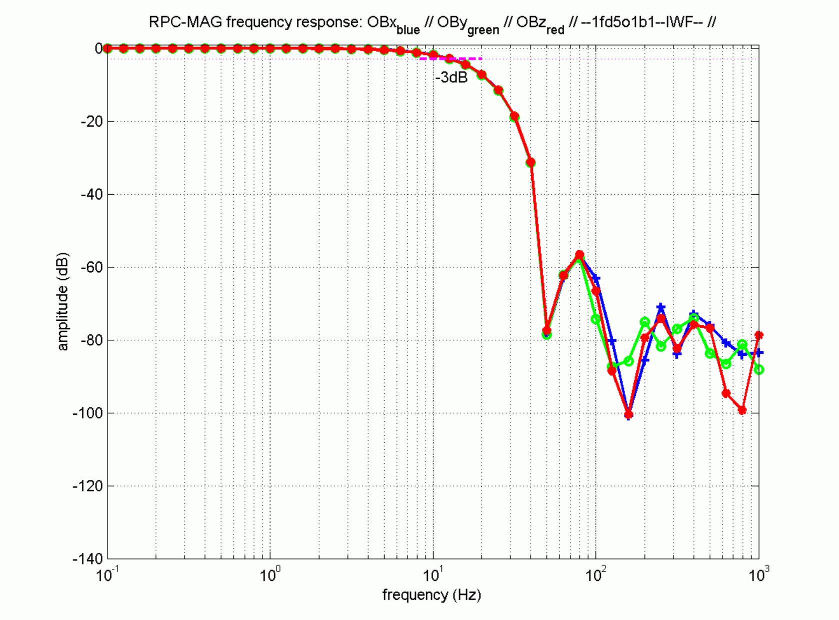
Number // CCD-File // Annotation // IWF-Name
--06-- // 01-04-23 07-54-55 // fd_1 FS-Sensor FM-DPU // 1fd5o1b1

File: 1fd5o1b1

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,981811 | 19,981404 | 19,981331 | 19,981376 | 19,981459 | 19,981294 |
| 0,1259 | 0,004339 | -0,002485 | 0,002646 | 0,004072 | -0,002916 | 0,001236 | 19,980868 | 19,981023 | 19,980949 | 19,980942 | 19,980989 | 19,980919 |
| 0,1585 | 0,002085 | -0,001221 | 0,001054 | 0,002816 | -0,001840 | -0,000323 | 19,981025 | 19,980986 | 19,980875 | 19,981079 | 19,980956 | 19,980986 |
| 0,1995 | 0,001238 | -0,004654 | -0,001316 | 0,000918 | -0,004158 | -0,002022 | 19,981110 | 19,981059 | 19,980886 | 19,981098 | 19,981089 | 19,980900 |
| 0,2512 | -0,002465 | -0,005719 | -0,001556 | 0,001179 | -0,005156 | -0,003718 | 19,980996 | 19,981013 | 19,980951 | 19,981084 | 19,981063 | 19,980875 |
| 0,3162 | -0,002641 | -0,004818 | -0,004319 | 0,000842 | -0,005357 | -0,004484 | 19,980904 | 19,980835 | 19,980477 | 19,980995 | 19,980983 | 19,980624 |
| 0,3981 | -0,002964 | -0,006090 | -0,003712 | -0,002522 | -0,007417 | -0,002825 | 19,981030 | 19,981171 | 19,980699 | 19,980931 | 19,981149 | 19,980775 |
| 0,5012 | -0,006597 | -0,009730 | -0,007100 | -0,004867 | -0,009629 | -0,008405 | 19,981020 | 19,981030 | 19,981011 | 19,981042 | 19,981012 | 19,981007 |
| 0,6310 | -0,009780 | -0,012472 | -0,010732 | -0,008170 | -0,014109 | -0,012613 | 19,980995 | 19,980994 | 19,981008 | 19,981036 | 19,981034 | 19,981021 |
| 0,7943 | -0,016171 | -0,017789 | -0,016184 | -0,013145 | -0,019207 | -0,018427 | 19,981059 | 19,981187 | 19,981002 | 19,980895 | 19,981015 | 19,981006 |
| 1,0000 | -0,022130 | -0,025607 | -0,023135 | -0,021995 | -0,027130 | -0,024499 | 19,981058 | 19,981017 | 19,981067 | 19,981003 | 19,981065 | 19,981087 |
| 1,2589 | -0,033137 | -0,035602 | -0,035003 | -0,031747 | -0,038666 | -0,036547 | 19,981034 | 19,981013 | 19,981010 | 19,981014 | 19,981022 | 19,981040 |
| 1,5849 | -0,051551 | -0,052217 | -0,052600 | -0,050430 | -0,057054 | -0,054609 | 19,981017 | 19,981032 | 19,981036 | 19,981041 | 19,981032 | 19,981035 |
| 1,9953 | -0,078757 | -0,079036 | -0,078896 | -0,078267 | -0,085116 | -0,082973 | 19,981049 | 19,981021 | 19,981001 | 19,981050 | 19,981017 | 19,980990 |
| 2,5119 | -0,122479 | -0,119445 | -0,123304 | -0,121212 | -0,128888 | -0,127042 | 19,981040 | 19,981033 | 19,981021 | 19,981028 | 19,981036 | 19,981003 |
| 3,1623 | -0,188582 | -0,183517 | -0,189474 | -0,187094 | -0,197864 | -0,193661 | 19,981013 | 19,981036 | 19,981039 | 19,981024 | 19,981043 | 19,981044 |
| 3,9811 | -0,293000 | -0,283531 | -0,293482 | -0,292400 | -0,305881 | -0,299950 | 19,981028 | 19,981023 | 19,981023 | 19,981023 | 19,981036 | 19,981031 |
| 5,0120 | -0,456795 | -0,441850 | -0,458662 | -0,457184 | -0,475885 | -0,466263 | 19,981025 | 19,981028 | 19,981025 | 19,981033 | 19,981030 | 19,981025 |
| 6,3097 | -0,714075 | -0,690598 | -0,720583 | -0,715758 | -0,743082 | -0,730705 | 19,981025 | 19,981032 | 19,981036 | 19,981022 | 19,981026 | 19,981037 |
| 7,9430 | -1,120330 | -1,085156 | -1,129689 | -1,125134 | -1,163933 | -1,145725 | 19,981023 | 19,981028 | 19,981029 | 19,981026 | 19,981026 | 19,981024 |
| 10,0000 | -1,760386 | -1,712215 | -1,780432 | -1,778410 | -1,828005 | -1,800642 | 19,981031 | 19,981026 | 19,981022 | 19,981020 | 19,981035 | 19,981033 |
| 12,5890 | -2,784124 | -2,718171 | -2,810247 | -2,806281 | -2,885851 | -2,841388 | 19,981026 | 19,981026 | 19,981026 | 19,981029 | 19,981026 | 19,981027 |
| 15,8490 | -4,412370 | -4,338538 | -4,460364 | -4,460892 | -4,570398 | -4,499731 | 19,981026 | 19,981027 | 19,981030 | 19,981027 | 19,981025 | 19,981029 |
| 19,9530 | -7,027662 | -6,981200 | -7,132104 | -7,122420 | -7,272785 | -7,171370 | 19,981012 | 19,981032 | 19,981044 | 19,981015 | 19,981041 | 19,981049 |
| 25,1190 | -11,318205 | -11,315444 | -11,445479 | -11,467335 | -11,634471 | -11,471429 | 19,981027 | 19,981030 | 19,981035 | 19,981030 | 19,981030 | 19,981027 |
| 31,6230 | -18,437168 | -18,522621 | -18,601923 | -18,676006 | -18,825791 | -18,595834 | 19,981030 | 19,981028 | 19,981028 | 19,981019 | 19,981024 | 19,981024 |
| 39,8110 | -30,966493 | -31,240465 | -31,209787 | -31,354004 | -31,489448 | -31,136396 | 19,980953 | 19,980988 | 19,980970 | 19,981005 | 19,980989 | 19,980986 |
| 50,1200 | -77,164104 | -86,002957 | -85,048894 | -78,509296 | -78,587465 | -77,418415 | 19,981904 | 19,981753 | 19,980253 | 19,981011 | 19,980010 | 19,980444 |
| 63,0970 | -62,651296 | -62,323817 | -62,887603 | -62,982281 | -62,261563 | -62,304001 | 19,982267 | 19,979133 | 19,980008 | 19,981891 | 19,978982 | 19,977612 |
| 79,4300 | -56,805142 | -56,508421 | -56,771474 | -56,892718 | -57,602188 | -56,528901 | 19,980939 | 19,981002 | 19,981226 | 19,981022 | 19,981085 | 19,981162 |
| 100,0000 | -61,783649 | -72,033576 | -65,867257 | -63,116118 | -74,293608 | -66,546861 | 19,980871 | 19,981130 | 19,980857 | 19,980919 | 19,980843 | 19,981007 |
| 125,8900 | -101,055693 | -82,449235 | -90,723973 | -80,276486 | -87,406926 | -88,471930 | 19,981171 | 19,979548 | 19,981433 | 19,981042 | 19,981245 | 19,980821 |
| 158,4900 | -77,287199 | -99,816310 | -78,521740 | -100,797086 | -85,766254 | -100,537672 | 19,980838 | 19,980958 | 19,981024 | 19,981317 | 19,980897 | 19,980862 |
| 199,5300 | -78,902810 | -73,463687 | -80,242498 | -85,678902 | -75,068444 | -79,582816 | 19,980860 | 19,980738 | 19,980730 | 19,981118 | 19,981113 | 19,981186 |
| 251,1900 | -73,498608 | -86,218907 | -77,451975 | -70,965778 | -81,861465 | -74,081784 | 19,980925 | 19,981077 | 19,980986 | 19,981245 | 19,980990 | 19,981035 |
| 316,2300 | -78,242241 | -83,532581 | -75,899699 | -84,021269 | -76,922248 | -82,468431 | 19,980929 | 19,981149 | 19,981009 | 19,981164 | 19,981471 | 19,980903 |
| 398,1100 | -75,560178 | -69,186615 | -75,933193 | -72,904126 | -74,113460 | -75,902150 | 19,981019 | 19,980985 | 19,980842 | 19,980988 | 19,980975 | 19,980955 |
| 501,2000 | -96,277609 | -81,254526 | -81,796332 | -76,117688 | -83,757094 | -76,750922 | 19,980886 | 19,981066 | 19,981427 | 19,981159 | 19,980941 | 19,981353 |
| 630,9700 | -90,415078 | -86,621042 | -92,262274 | -80,825078 | -86,565139 | -94,672812 | 19,980952 | 19,981011 | 19,980989 | 19,981052 | 19,980993 | 19,980992 |
| 794,3000 | -80,536324 | -82,821848 | -88,333666 | -84,059796 | -81,201911 | -99,356140 | 19,981102 | 19,981030 | 19,981120 | 19,980953 | 19,980981 | 19,980741 |
| 1000,0000 | -96,376168 | -85,238271 | -79,333187 | -83,547786 | -88,170727 | -78,736971 | 19,980955 | 19,980966 | 19,980984 | 19,980939 | 19,980985 | 19,980973 |




RPC-MAG frequency response: IBx_blue // IBy_green // IBz_red // --1fd5o1b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)


RPC-MAG frequency response: OBx_blue // OBy_green // OBz_red // --1fd5o1b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

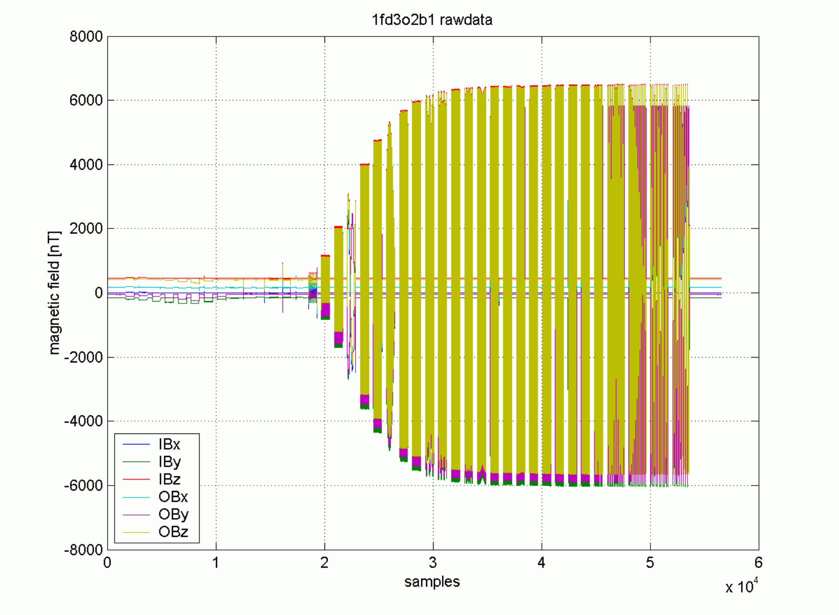
## 4.4 FS-Sensor, FS-DPU

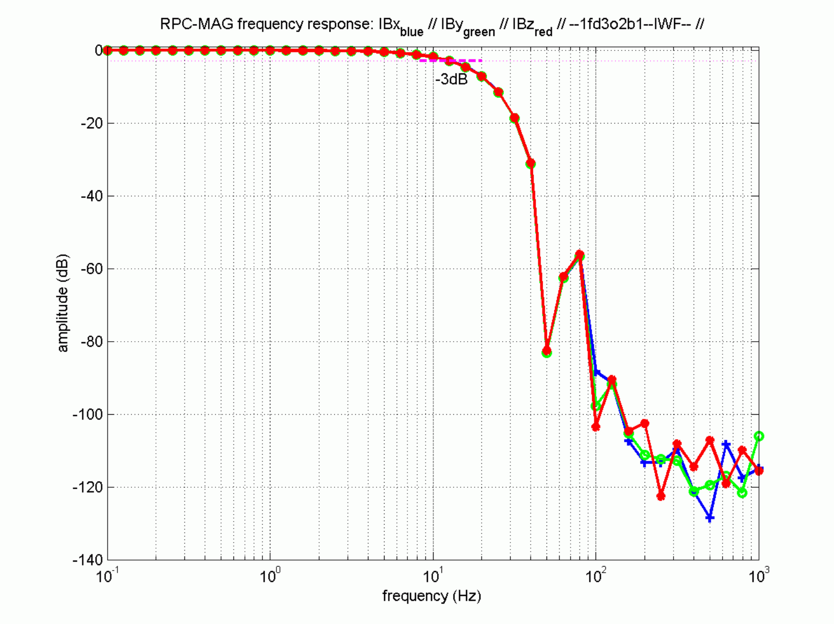
### 4.4.1 1fd3o2b1

Number // CCD-File // Annotation // IWF-Name
--07-- // 01-04-25 14-46-10 // fd_h FS-Sensor FS-DPU // 1fd3o2b1

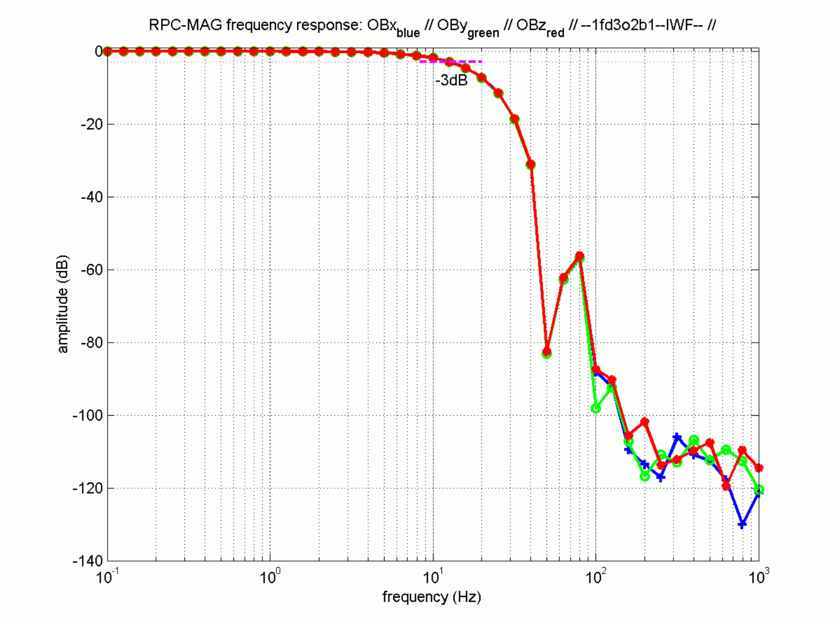
**File: 1fd3o2b1**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980654 | 19,980628 | 19,980629 | 19,980651 | 19,980638 | 19,980638 |
| 0,1259 | -0,001138 | -0,001200 | -0,001191 | -0,001129 | -0,001233 | -0,001168 | 19,980589 | 19,980582 | 19,980584 | 19,980584 | 19,980585 | 19,980584 |
| 0,1585 | -0,006146 | -0,006194 | -0,006193 | -0,006148 | -0,006279 | -0,006146 | 19,980600 | 19,980596 | 19,980597 | 19,980599 | 19,980596 | 19,980597 |
| 0,1995 | -0,001450 | -0,001459 | -0,001539 | -0,001439 | -0,001569 | -0,001431 | 19,980623 | 19,980618 | 19,980618 | 19,980622 | 19,980617 | 19,980621 |
| 0,2512 | -0,009788 | -0,009790 | -0,009912 | -0,009782 | -0,009949 | -0,009776 | 19,980601 | 19,980602 | 19,980600 | 19,980601 | 19,980602 | 19,980600 |
| 0,3162 | -0,019091 | -0,019069 | -0,019258 | -0,019133 | -0,019296 | -0,019131 | 19,980591 | 19,980596 | 19,980594 | 19,980596 | 19,980593 | 19,980595 |
| 0,3981 | -0,011964 | -0,011937 | -0,012206 | -0,011993 | -0,012189 | -0,012044 | 19,980594 | 19,980593 | 19,980596 | 19,980595 | 19,980591 | 19,980595 |
| 0,5012 | -0,025584 | -0,025588 | -0,025884 | -0,025630 | -0,025934 | -0,025693 | 19,980587 | 19,980588 | 19,980588 | 19,980586 | 19,980588 | 19,980588 |
| 0,6310 | -0,038449 | -0,038431 | -0,038846 | -0,038474 | -0,038859 | -0,038632 | 19,980588 | 19,980588 | 19,980591 | 19,980589 | 19,980590 | 19,980590 |
| 0,7943 | -0,051483 | -0,051558 | -0,052044 | -0,051563 | -0,052132 | -0,051817 | 19,980599 | 19,980598 | 19,980599 | 19,980599 | 19,980599 | 19,980599 |
| 1,0000 | -0,036485 | -0,036689 | -0,037355 | -0,036596 | -0,037417 | -0,037093 | 19,980595 | 19,980595 | 19,980596 | 19,980595 | 19,980595 | 19,980596 |
| 1,2589 | -0,074487 | -0,074844 | -0,075660 | -0,074621 | -0,075885 | -0,075409 | 19,980595 | 19,980595 | 19,980596 | 19,980595 | 19,980595 | 19,980596 |
| 1,5849 | -0,069678 | -0,070461 | -0,071486 | -0,069924 | -0,071888 | -0,071258 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980598 |
| 1,9953 | -0,103194 | -0,104631 | -0,105976 | -0,103603 | -0,106683 | -0,105777 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980597 |
| 2,5119 | -0,156386 | -0,158897 | -0,160644 | -0,157027 | -0,161872 | -0,160554 | 19,980599 | 19,980598 | 19,980598 | 19,980598 | 19,980599 | 19,980598 |
| 3,1623 | -0,205165 | -0,209492 | -0,211856 | -0,206204 | -0,213890 | -0,211884 | 19,980597 | 19,980596 | 19,980596 | 19,980596 | 19,980596 | 19,980596 |
| 3,9811 | -0,311287 | -0,318467 | -0,321609 | -0,312944 | -0,325035 | -0,321925 | 19,980596 | 19,980596 | 19,980596 | 19,980596 | 19,980596 | 19,980596 |
| 5,0120 | -0,483471 | -0,495291 | -0,499496 | -0,486130 | -0,505136 | -0,500270 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980597 |
| 6,3097 | -0,763739 | -0,782551 | -0,787932 | -0,767961 | -0,797365 | -0,789616 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980597 |
| 7,9430 | -1,209191 | -1,238243 | -1,244777 | -1,216051 | -1,260458 | -1,247919 | 19,980596 | 19,980596 | 19,980597 | 19,980596 | 19,980596 | 19,980597 |
| 10,0000 | -1,798345 | -1,839374 | -1,846556 | -1,809596 | -1,872364 | -1,851304 | 19,980557 | 19,980554 | 19,980558 | 19,980557 | 19,980552 | 19,980550 |
| 12,5890 | -2,874736 | -2,932702 | -2,935237 | -2,892898 | -2,981020 | -2,946428 | 19,980596 | 19,980597 | 19,980597 | 19,980596 | 19,980597 | 19,980597 |
| 15,8490 | -4,519554 | -4,590244 | -4,579457 | -4,549174 | -4,658829 | -4,600153 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980597 |
| 19,9530 | -7,138574 | -7,209231 | -7,169642 | -7,151826 | -7,302341 | -7,203198 | 19,980598 | 19,980597 | 19,980070 | 19,979813 | 19,980597 | 19,980596 |
| 25,1190 | -11,491904 | -11,539011 | -11,432603 | -11,565408 | -11,656981 | -11,494016 | 19,980596 | 19,980596 | 19,980596 | 19,980596 | 19,980596 | 19,980596 |
| 31,6230 | -18,635060 | -18,636177 | -18,434197 | -18,739949 | -18,772950 | -18,523723 | 19,980596 | 19,980596 | 19,980596 | 19,980596 | 19,980596 | 19,980596 |
| 39,8110 | -31,192453 | -31,153914 | -30,843605 | -31,328660 | -31,297420 | -30,952886 | 19,980815 | 19,980825 | 19,980823 | 19,980815 | 19,980823 | 19,980823 |
| 50,1200 | -82,992043 | -83,067627 | -82,496272 | -82,989415 | -83,118493 | -82,516087 | 19,980276 | 19,980154 | 19,980254 | 19,980525 | 19,980190 | 19,980394 |
| 63,0970 | -62,697270 | -62,620591 | -62,174132 | -62,871868 | -62,755535 | -62,270645 | 19,980605 | 19,980606 | 19,980610 | 19,980585 | 19,980602 | 19,980611 |
| 79,4300 | -56,740801 | -56,669125 | -56,074945 | -56,960683 | -56,761731 | -56,167674 | 19,980597 | 19,980590 | 19,980604 | 19,980606 | 19,980587 | 19,980583 |
| 100,0000 | -88,325958 | -97,775636 | -103,612994 | -88,155601 | -98,154725 | -87,412847 | 19,978238 | 19,980529 | 19,980394 | 19,978456 | 19,980549 | 19,978199 |
| 125,8900 | -91,449363 | -91,764627 | -90,546089 | -92,160116 | -92,315917 | -90,348072 | 19,980677 | 19,980674 | 19,980644 | 19,980482 | 19,980709 | 19,980578 |
| 158,4900 | -107,369587 | -105,258009 | -104,660827 | -109,605683 | -107,287046 | -105,595473 | 19,981144 | 19,981109 | 19,981078 | 19,980974 | 19,981205 | 19,981146 |
| 199,5300 | -113,323112 | -111,321609 | -102,523466 | -113,569055 | -116,792534 | -101,852823 | 19,980916 | 19,981507 | 19,981689 | 19,980731 | 19,980563 | 19,981707 |
| 251,1900 | -113,330565 | -112,329281 | -122,654382 | -117,193589 | -110,942482 | -113,749320 | 19,981281 | 19,981028 | 19,981069 | 19,981104 | 19,981059 | 19,980968 |
| 316,2300 | -109,737725 | -112,696482 | -108,259741 | -106,137588 | -113,005465 | -112,221900 | 19,981012 | 19,980980 | 19,981357 | 19,980930 | 19,981035 | 19,981201 |
| 398,1100 | -121,226297 | -121,201477 | -114,519869 | -110,911486 | -106,762760 | -109,726366 | 19,981048 | 19,981040 | 19,980900 | 19,981088 | 19,981152 | 19,981016 |
| 501,2000 | -128,637996 | -119,463372 | -107,194634 | -112,509747 | -112,388010 | -107,579463 | 19,981242 | 19,981280 | 19,981005 | 19,981264 | 19,981124 | 19,980972 |
| 630,9700 | -108,276954 | -117,028742 | -119,041650 | -117,790124 | -109,434516 | -119,609417 | 19,981120 | 19,980963 | 19,981015 | 19,980961 | 19,980979 | 19,981210 |
| 794,3000 | -117,501269 | -121,629244 | -109,985366 | -130,070056 | -112,674092 | -109,610703 | 19,980981 | 19,980921 | 19,980903 | 19,981017 | 19,980958 | 19,980996 |
| 1000,0000 | -114,986370 | -106,101188 | -115,639794 | -121,357483 | -120,426854 | -114,584219 | 19,981010 | 19,981181 | 19,980957 | 19,981014 | 19,981059 | 19,981123 |





RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd3o2b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)
0
-20
-40
-60
-80
-100
-120
-140
$10^{-1}$
$10^{0}$
$10^{1}$
$10^{2}$
$10^{3}$

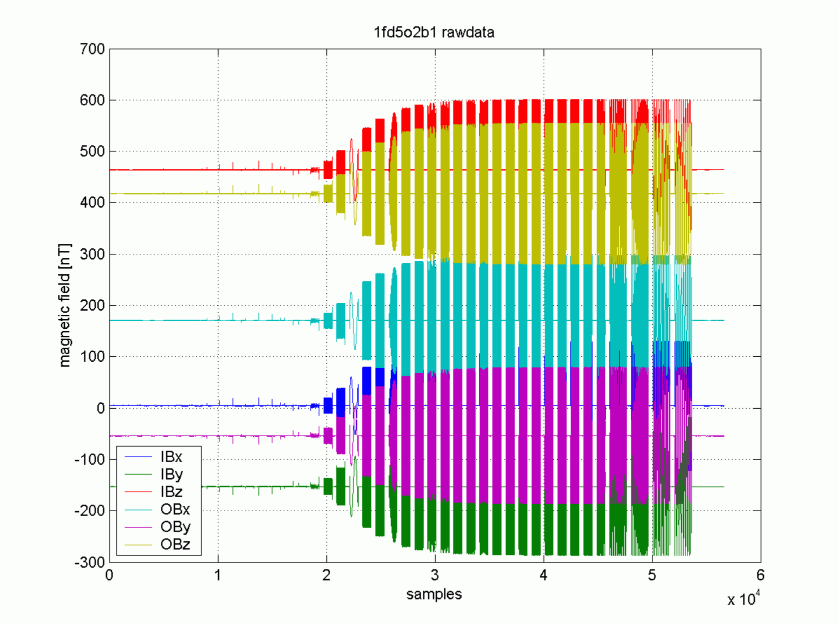
RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd3o2b1--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)
0
-20
-40
-60
-80
-100
-120
-140
$10^{-1}$
$10^{0}$
$10^{1}$
$10^{2}$
$10^{3}$

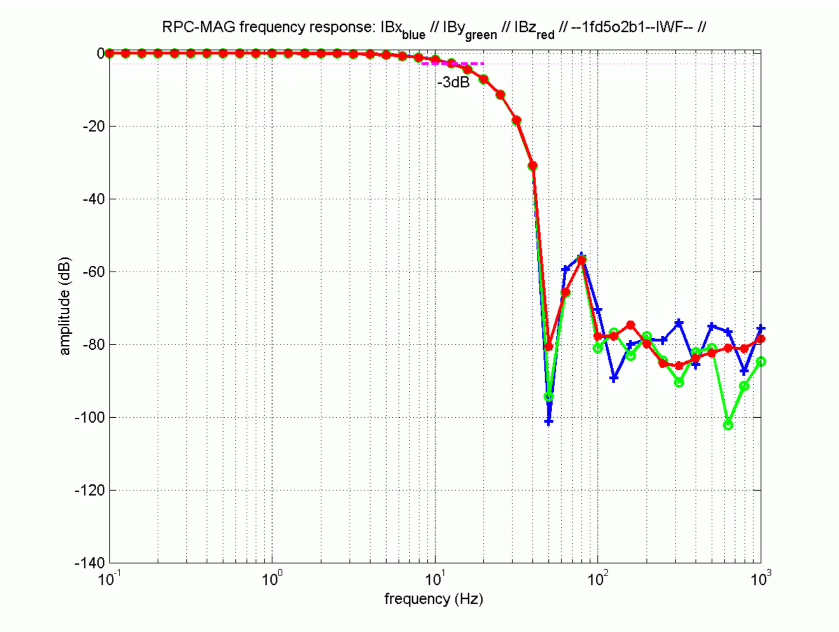
### 4.4.2 1fd5o2b1

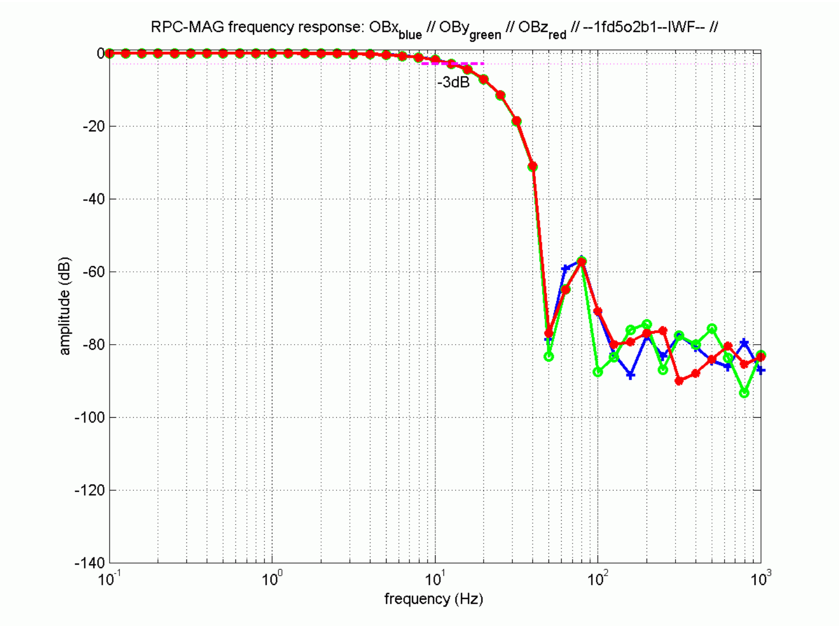
Number // CCD-File // Annotation // IWF-Name
--08-- // 01-04-25 15-33-33 // fd_1 FS-Sensor FS-DPU // 1fd5o2b1

**File: 1fd5o2b1**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980579 | 19,980065 | 19,980306 | 19,981659 | 19,979899 | 19,980886 |
| 0,1259 | -0,001831 | 0,000390 | -0,003662 | -0,000848 | -0,000494 | -0,003217 | 19,980548 | 19,980856 | 19,981084 | 19,980362 | 19,980604 | 19,981042 |
| 0,1585 | -0,003175 | -0,002456 | -0,004377 | -0,002329 | -0,003514 | -0,004186 | 19,980456 | 19,980785 | 19,980389 | 19,980668 | 19,980818 | 19,980548 |
| 0,1995 | -0,004559 | -0,001439 | -0,004654 | -0,003700 | -0,003669 | -0,004441 | 19,980561 | 19,980515 | 19,981044 | 19,980467 | 19,980705 | 19,980962 |
| 0,2512 | -0,004386 | -0,004045 | -0,007437 | -0,005735 | -0,004645 | -0,007872 | 19,980666 | 19,980506 | 19,980587 | 19,980537 | 19,980544 | 19,980583 |
| 0,3162 | -0,007477 | -0,006234 | -0,008535 | -0,005997 | -0,007677 | -0,008514 | 19,980664 | 19,980550 | 19,980521 | 19,980639 | 19,980619 | 19,980446 |
| 0,3981 | -0,009521 | -0,008087 | -0,007907 | -0,007472 | -0,008633 | -0,008294 | 19,980606 | 19,980561 | 19,980587 | 19,980595 | 19,980494 | 19,980660 |
| 0,5012 | -0,011139 | -0,009921 | -0,011438 | -0,011787 | -0,012652 | -0,011959 | 19,980554 | 19,980608 | 19,980548 | 19,980566 | 19,980570 | 19,980550 |
| 0,6310 | -0,013428 | -0,013362 | -0,015000 | -0,013754 | -0,015042 | -0,015249 | 19,980625 | 19,980539 | 19,980612 | 19,980661 | 19,980605 | 19,980567 |
| 0,7943 | -0,020302 | -0,019469 | -0,020160 | -0,018912 | -0,020272 | -0,019808 | 19,980621 | 19,980584 | 19,980591 | 19,980571 | 19,980577 | 19,980573 |
| 1,0000 | -0,027221 | -0,026123 | -0,029926 | -0,026519 | -0,027589 | -0,029584 | 19,980645 | 19,980595 | 19,980571 | 19,980582 | 19,980613 | 19,980592 |
| 1,2589 | -0,038595 | -0,037853 | -0,040699 | -0,037951 | -0,039689 | -0,039940 | 19,980576 | 19,980618 | 19,980604 | 19,980578 | 19,980619 | 19,980628 |
| 1,5849 | -0,055642 | -0,056286 | -0,059845 | -0,055871 | -0,059059 | -0,059464 | 19,980602 | 19,980570 | 19,980621 | 19,980606 | 19,980589 | 19,980613 |
| 1,9953 | -0,084842 | -0,084722 | -0,087882 | -0,083472 | -0,088195 | -0,087433 | 19,980589 | 19,980602 | 19,980610 | 19,980597 | 19,980598 | 19,980600 |
| 2,5119 | -0,125701 | -0,128342 | -0,132177 | -0,126406 | -0,132608 | -0,133168 | 19,980585 | 19,980595 | 19,980592 | 19,980595 | 19,980592 | 19,980586 |
| 3,1623 | -0,191843 | -0,196652 | -0,200536 | -0,193596 | -0,202238 | -0,200533 | 19,980601 | 19,980593 | 19,980581 | 19,980595 | 19,980595 | 19,980591 |
| 3,9811 | -0,296406 | -0,303417 | -0,306538 | -0,297868 | -0,311348 | -0,307057 | 19,980596 | 19,980597 | 19,980596 | 19,980591 | 19,980598 | 19,980591 |
| 5,0120 | -0,459059 | -0,470482 | -0,474388 | -0,461462 | -0,481526 | -0,474983 | 19,980594 | 19,980596 | 19,980599 | 19,980590 | 19,980594 | 19,980596 |
| 6,3097 | -0,716978 | -0,733927 | -0,739428 | -0,721374 | -0,750412 | -0,741699 | 19,980592 | 19,980594 | 19,980593 | 19,980593 | 19,980594 | 19,980593 |
| 7,9430 | -1,121520 | -1,150350 | -1,155242 | -1,128639 | -1,172914 | -1,157780 | 19,980593 | 19,980593 | 19,980595 | 19,980595 | 19,980591 | 19,980596 |
| 10,0000 | -1,765542 | -1,805203 | -1,812256 | -1,777122 | -1,837730 | -1,818468 | 19,980602 | 19,980591 | 19,980593 | 19,980593 | 19,980591 | 19,980589 |
| 12,5890 | -2,788091 | -2,846838 | -2,845146 | -2,806694 | -2,895784 | -2,856359 | 19,980584 | 19,980601 | 19,980596 | 19,980583 | 19,980595 | 19,980586 |
| 15,8490 | -4,429880 | -4,501827 | -4,488170 | -4,463123 | -4,568418 | -4,508430 | 19,980596 | 19,980593 | 19,980594 | 19,980597 | 19,980593 | 19,980594 |
| 19,9530 | -7,089988 | -7,149311 | -7,107605 | -7,136568 | -7,242805 | -7,145021 | 19,980595 | 19,980587 | 19,980598 | 19,980589 | 19,980583 | 19,980593 |
| 25,1190 | -11,404123 | -11,455447 | -11,344067 | -11,480765 | -11,572577 | -11,407352 | 19,980593 | 19,980594 | 19,980595 | 19,980595 | 19,980593 | 19,980595 |
| 31,6230 | -18,560123 | -18,559483 | -18,357926 | -18,664289 | -18,694397 | -18,442215 | 19,980590 | 19,980593 | 19,980600 | 19,980593 | 19,980599 | 19,980597 |
| 39,8110 | -31,151823 | -31,121424 | -30,768168 | -31,254115 | -31,306071 | -30,843229 | 19,980569 | 19,980567 | 19,980590 | 19,980621 | 19,980582 | 19,980586 |
| 50,1200 | -101,274223 | -94,388596 | -80,682870 | -78,717282 | -83,366285 | -76,926743 | 19,979140 | 19,981513 | 19,982653 | 19,981474 | 19,981546 | 19,975318 |
| 63,0970 | -59,566851 | -65,786164 | -65,629452 | -59,285894 | -64,799358 | -65,055682 | 19,979176 | 19,986362 | 19,983565 | 19,978740 | 19,987899 | 19,984541 |
| 79,4300 | -55,768039 | -56,786679 | -56,893936 | -56,893385 | -57,205797 | -57,396662 | 19,981058 | 19,981134 | 19,981384 | 19,981239 | 19,980646 | 19,981269 |
| 100,0000 | -70,477135 | -80,971594 | -77,812037 | -71,087329 | -87,663897 | -70,854867 | 19,982967 | 19,980776 | 19,981017 | 19,981921 | 19,982146 | 19,981142 |
| 125,8900 | -89,351346 | -76,738184 | -77,841788 | -82,786884 | -83,582863 | -80,020330 | 19,980824 | 19,981143 | 19,981998 | 19,981383 | 19,981130 | 19,981087 |
| 158,4900 | -80,145726 | -83,114930 | -74,641433 | -88,463464 | -76,038931 | -79,336057 | 19,978634 | 19,981218 | 19,981321 | 19,981157 | 19,980805 | 19,981331 |
| 199,5300 | -78,789418 | -77,812597 | -79,862441 | -77,801675 | -74,528961 | -76,955577 | 19,980274 | 19,980499 | 19,981503 | 19,981010 | 19,980791 | 19,981061 |
| 251,1900 | -78,863171 | -84,525779 | -85,336665 | -83,377408 | -87,069010 | -76,313441 | 19,980870 | 19,980954 | 19,980984 | 19,980755 | 19,980872 | 19,980587 |
| 316,2300 | -74,119783 | -90,531498 | -85,945622 | -77,673505 | -77,667463 | -90,064967 | 19,981013 | 19,980987 | 19,980905 | 19,980718 | 19,981667 | 19,981355 |
| 398,1100 | -85,660931 | -82,204358 | -83,784045 | -80,815434 | -80,059823 | -88,024118 | 19,981019 | 19,981056 | 19,980982 | 19,981239 | 19,981106 | 19,980907 |
| 501,2000 | -75,029459 | -81,024276 | -82,396305 | -84,544774 | -75,651795 | -84,163369 | 19,981051 | 19,981024 | 19,981117 | 19,980935 | 19,981006 | 19,981119 |
| 630,9700 | -76,607899 | -102,118879 | -81,019994 | -86,146415 | -83,734576 | -80,555530 | 19,981108 | 19,981175 | 19,981171 | 19,981069 | 19,981066 | 19,981079 |
| 794,3000 | -87,454578 | -91,394345 | -81,165407 | -79,496031 | -93,360339 | -85,507464 | 19,981033 | 19,980978 | 19,981014 | 19,980965 | 19,980943 | 19,980956 |
| 1000,0000 | -75,678883 | -84,751843 | -78,466673 | -87,288886 | -82,951739 | -83,490879 | 19,981093 | 19,981032 | 19,981010 | 19,981005 | 19,981020 | 19,980967 |




RPC-MAG frequency response: IBx blue // IBy green // IBz red // --1fd5o2b1--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB

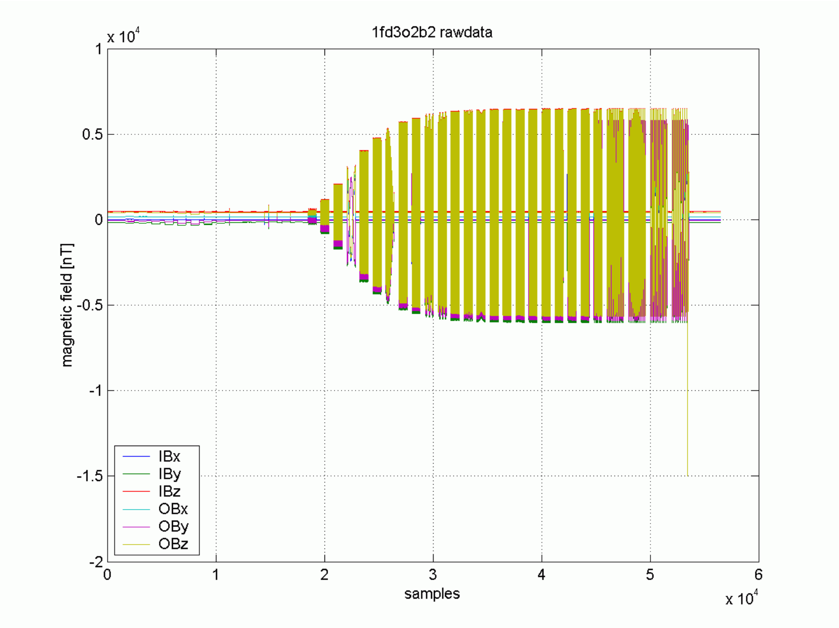

RPC-MAG frequency response: OBx blue // OBy green // OBz red // --1fd5o2b1--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB

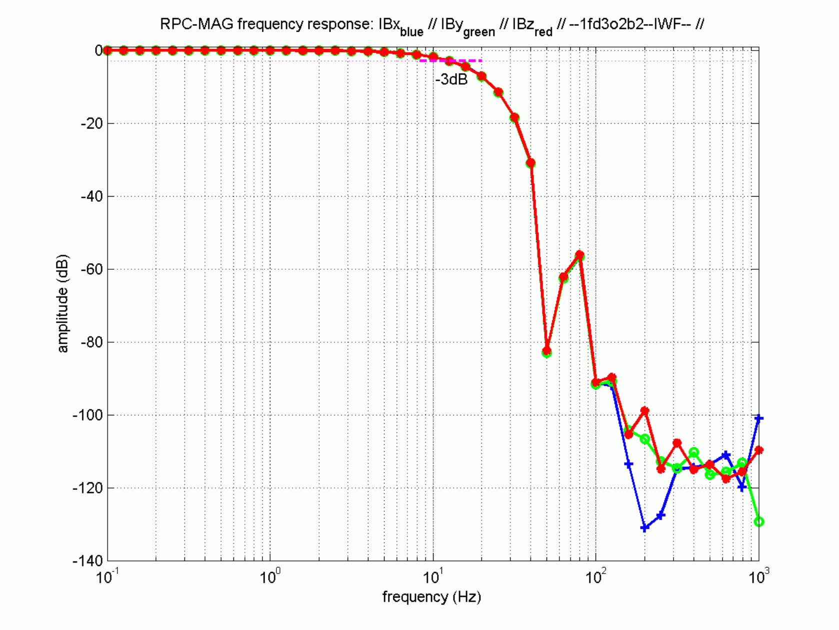
### 4.4.3 1fd3o2b2

Number // CCD-File // Annotation // IWF-Name
--09-- // 01-04-25 16-20-57 // fd_h FS-Sensor FS-DPU // 1fd3o2b2

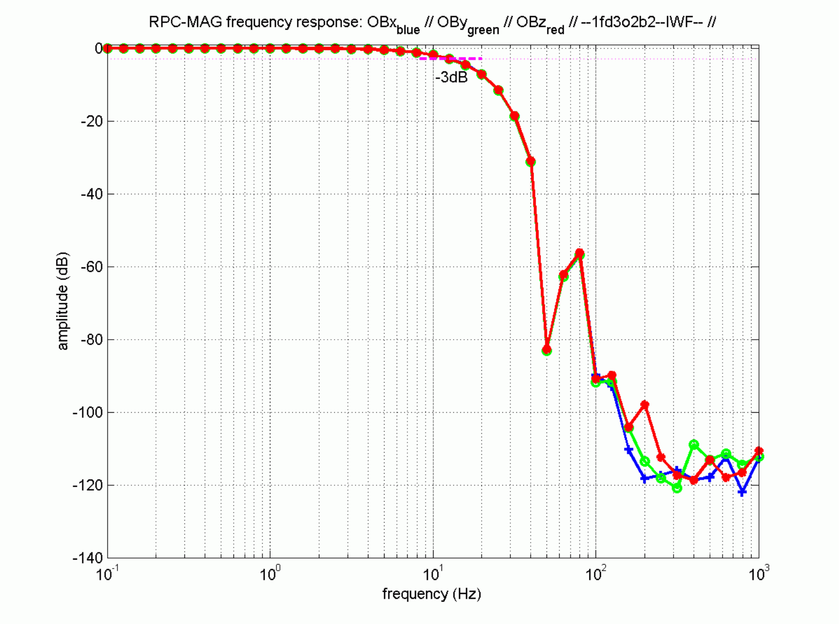
**File: 1fd3o2b2**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980585 | 19,980577 | 19,980579 | 19,980579 | 19,980579 | 19,980581 |
| 0,1259 | -0,003089 | -0,003040 | -0,003089 | -0,003030 | -0,003035 | -0,003056 | 19,980643 | 19,980645 | 19,980642 | 19,980643 | 19,980646 | 19,980645 |
| 0,1585 | -0,003844 | -0,003766 | -0,003845 | -0,003778 | -0,003742 | -0,003816 | 19,980633 | 19,980622 | 19,980618 | 19,980637 | 19,980621 | 19,980617 |
| 0,1995 | -0,007544 | -0,007510 | -0,007607 | -0,007529 | -0,007503 | -0,007573 | 19,980581 | 19,980584 | 19,980583 | 19,980583 | 19,980585 | 19,980584 |
| 0,2512 | -0,029127 | -0,029127 | -0,029261 | -0,029126 | -0,029154 | -0,029203 | 19,980576 | 19,980575 | 19,980572 | 19,980574 | 19,980574 | 19,980571 |
| 0,3162 | -0,017692 | -0,017689 | -0,017847 | -0,017678 | -0,017745 | -0,017759 | 19,980548 | 19,980527 | 19,980533 | 19,980546 | 19,980506 | 19,980533 |
| 0,3981 | -0,022424 | -0,022426 | -0,022650 | -0,022473 | -0,022529 | -0,022570 | 19,980583 | 19,980587 | 19,980585 | 19,980584 | 19,980586 | 19,980587 |
| 0,5012 | -0,022807 | -0,022797 | -0,023102 | -0,022858 | -0,022938 | -0,023009 | 19,980593 | 19,980594 | 19,980596 | 19,980594 | 19,980594 | 19,980597 |
| 0,6310 | -0,022022 | -0,022026 | -0,022414 | -0,022065 | -0,022253 | -0,022301 | 19,980587 | 19,980588 | 19,980588 | 19,980587 | 19,980589 | 19,980588 |
| 0,7943 | -0,033184 | -0,033258 | -0,033760 | -0,033268 | -0,033615 | -0,033625 | 19,980590 | 19,980589 | 19,980588 | 19,980589 | 19,980590 | 19,980589 |
| 1,0000 | -0,035270 | -0,035486 | -0,036072 | -0,035373 | -0,035988 | -0,035939 | 19,980597 | 19,980598 | 19,980598 | 19,980598 | 19,980598 | 19,980598 |
| 1,2589 | -0,052970 | -0,053386 | -0,054162 | -0,053177 | -0,054151 | -0,054057 | 19,980597 | 19,980597 | 19,980597 | 19,980597 | 19,980596 | 19,980597 |
| 1,5849 | -0,071644 | -0,072388 | -0,073398 | -0,071887 | -0,073533 | -0,073331 | 19,980596 | 19,980596 | 19,980596 | 19,980597 | 19,980597 | 19,980597 |
| 1,9953 | -0,092084 | -0,093459 | -0,094832 | -0,092525 | -0,095206 | -0,094800 | 19,980596 | 19,980596 | 19,980597 | 19,980596 | 19,980596 | 19,980597 |
| 2,5119 | -0,148098 | -0,150612 | -0,152349 | -0,148811 | -0,153262 | -0,152410 | 19,980596 | 19,980596 | 19,980596 | 19,980596 | 19,980597 | 19,980597 |
| 3,1623 | -0,206070 | -0,210298 | -0,212646 | -0,207158 | -0,214368 | -0,212874 | 19,980595 | 19,980594 | 19,980594 | 19,980595 | 19,980594 | 19,980594 |
| 3,9811 | -0,319446 | -0,326654 | -0,329765 | -0,321146 | -0,332833 | -0,330257 | 19,980595 | 19,980595 | 19,980595 | 19,980595 | 19,980595 | 19,980595 |
| 5,0120 | -0,481727 | -0,493545 | -0,497736 | -0,484455 | -0,502977 | -0,498736 | 19,980595 | 19,980594 | 19,980595 | 19,980594 | 19,980595 | 19,980595 |
| 6,3097 | -0,746885 | -0,765740 | -0,771194 | -0,751235 | -0,780120 | -0,772996 | 19,980595 | 19,980595 | 19,980595 | 19,980594 | 19,980595 | 19,980595 |
| 7,9430 | -1,135710 | -1,164736 | -1,171274 | -1,142669 | -1,186508 | -1,174607 | 19,980595 | 19,980595 | 19,980595 | 19,980594 | 19,980595 | 19,980595 |
| 10,0000 | -1,802119 | -1,844767 | -1,851504 | -1,813074 | -1,876973 | -1,857166 | 19,980581 | 19,980573 | 19,980577 | 19,980580 | 19,980572 | 19,980575 |
| 12,5890 | -2,857078 | -2,915191 | -2,917761 | -2,875402 | -2,962972 | -2,929061 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 |
| 15,8490 | -4,477938 | -4,548738 | -4,538023 | -4,507778 | -4,616722 | -4,558829 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 |
| 19,9530 | -7,139806 | -7,139281 | -7,071809 | -7,189355 | -7,212421 | -7,111752 | 19,980544 | 19,980038 | 19,979862 | 19,980555 | 19,979900 | 19,979882 |
| 25,1190 | -11,456184 | -11,503443 | -11,397275 | -11,530072 | -11,620828 | -11,458773 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 |
| 31,6230 | -18,610801 | -18,611988 | -18,410209 | -18,716232 | -18,748240 | -18,500037 | 19,980594 | 19,980593 | 19,980594 | 19,980594 | 19,980593 | 19,980594 |
| 39,8110 | -31,160936 | -31,118280 | -30,806730 | -31,296614 | -31,257961 | -30,917431 | 19,980593 | 19,980593 | 19,980591 | 19,980593 | 19,980593 | 19,980592 |
| 50,1200 | -83,017839 | -82,977097 | -82,443641 | -83,059947 | -83,206129 | -82,720522 | 19,980657 | 19,980281 | 19,980212 | 19,980405 | 19,980242 | 19,980160 |
| 63,0970 | -62,604511 | -62,623209 | -62,108296 | -62,771409 | -62,733683 | -62,238418 | 19,980593 | 19,980570 | 19,980580 | 19,980595 | 19,980547 | 19,980573 |
| 79,4300 | -56,765614 | -56,674923 | -56,095541 | -56,962198 | -56,778851 | -56,189174 | 19,980599 | 19,980608 | 19,980604 | 19,980600 | 19,980603 | 19,980594 |
| 100,0000 | -91,235418 | -91,634064 | -91,088926 | -89,881079 | -91,782146 | -90,888907 | 19,979939 | 19,978559 | 19,977963 | 19,979778 | 19,977467 | 19,978887 |
| 125,8900 | -92,078554 | -90,759341 | -89,756412 | -92,949590 | -91,541251 | -89,823827 | 19,980434 | 19,980486 | 19,980568 | 19,980730 | 19,980746 | 19,980676 |
| 158,4900 | -113,542770 | -104,221066 | -105,421261 | -110,291743 | -104,267378 | -104,189295 | 19,980832 | 19,980995 | 19,980830 | 19,981743 | 19,980916 | 19,980181 |
| 199,5300 | -131,061432 | -106,636843 | -98,919928 | -118,269676 | -113,553499 | -97,980230 | 19,980868 | 19,981318 | 19,978823 | 19,981125 | 19,980995 | 19,978989 |
| 251,1900 | -127,674929 | -112,845377 | -114,969240 | -117,378204 | -118,194557 | -112,428598 | 19,981306 | 19,981464 | 19,982260 | 19,980863 | 19,981039 | 19,981014 |
| 316,2300 | -114,931261 | -114,698236 | -107,689120 | -116,047658 | -120,937938 | -117,402952 | 19,980901 | 19,981511 | 19,980820 | 19,980902 | 19,981267 | 19,980891 |
| 398,1100 | -114,474120 | -110,371924 | -115,061111 | -118,698871 | -108,907781 | -118,666941 | 19,981065 | 19,981004 | 19,981070 | 19,981145 | 19,981063 | 19,981066 |
| 501,2000 | -113,620203 | -116,477179 | -113,691521 | -117,969335 | -113,183798 | -113,095240 | 19,980978 | 19,980995 | 19,980864 | 19,980932 | 19,980976 | 19,980728 |
| 630,9700 | -111,006772 | -115,707407 | -117,604219 | -112,345684 | -111,409827 | -117,958387 | 19,980863 | 19,980843 | 19,980924 | 19,981002 | 19,981037 | 19,980990 |
| 794,3000 | -119,803637 | -113,256666 | -115,632792 | -122,008583 | -114,441043 | -116,697799 | 19,980979 | 19,981000 | 19,980875 | 19,980889 | 19,980975 | 19,981044 |
| 1000,0000 | -101,005756 | -129,228323 | -109,724141 | -112,754275 | -112,226696 | -110,718122 | 19,981287 | 19,981107 | 19,981015 | 19,980988 | 19,980913 | 19,981004 |





RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd3o2b2--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

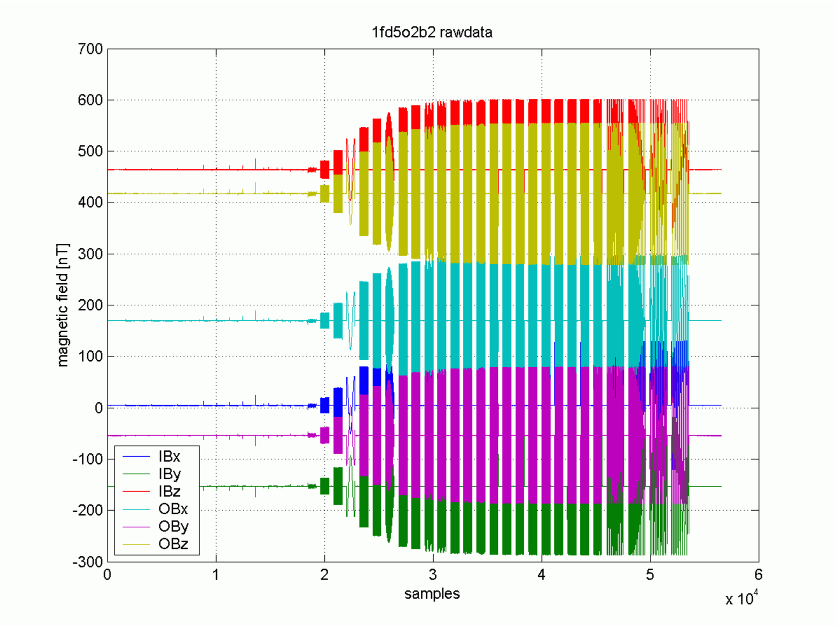
RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd3o2b2--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

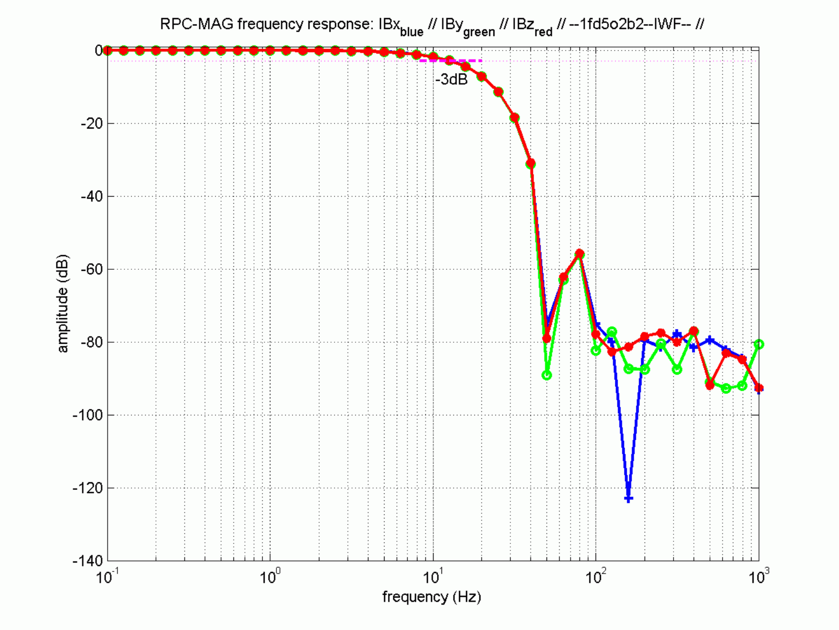
### 4.4.4 1fd5o2b2

Number // CCD-File // Annotation // IWF-Name
--10-- // 01-04-25 17-08-17 // fd_1 FS-Sensor FS-DPU // 1fd5o2b2

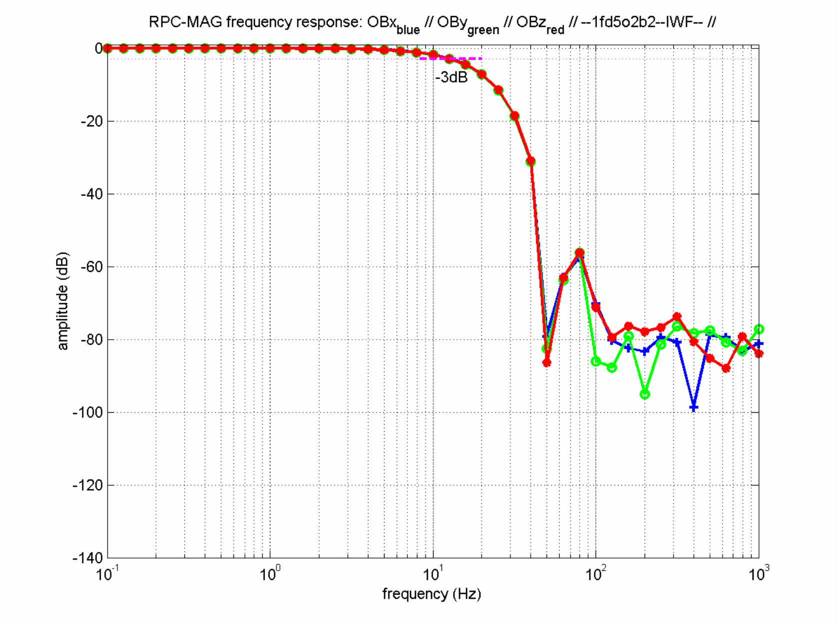
File: 1fd5o2b2

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980426 | 19,980589 | 19,980634 | 19,980515 | 19,980692 | 19,980691 |
| 0,1259 | -0,000558 | -0,000037 | -0,003385 | -0,000224 | 0,001031 | -0,004770 | 19,980388 | 19,980613 | 19,980895 | 19,980685 | 19,980880 | 19,980465 |
| 0,1585 | -0,002637 | -0,002318 | -0,003302 | -0,002123 | -0,002279 | -0,003579 | 19,980614 | 19,980746 | 19,980675 | 19,980626 | 19,980653 | 19,980617 |
| 0,1995 | -0,003782 | -0,002088 | -0,003393 | -0,002635 | -0,002926 | -0,004335 | 19,980751 | 19,980492 | 19,980517 | 19,980681 | 19,980537 | 19,980514 |
| 0,2512 | -0,004249 | -0,004324 | -0,006072 | -0,003826 | -0,004124 | -0,005996 | 19,980920 | 19,980566 | 19,980733 | 19,980611 | 19,980474 | 19,980628 |
| 0,3162 | -0,004634 | -0,005593 | -0,005935 | -0,006337 | -0,006444 | -0,006406 | 19,980611 | 19,980572 | 19,980497 | 19,980617 | 19,980555 | 19,980489 |
| 0,3981 | -0,005997 | -0,008556 | -0,008997 | -0,006395 | -0,009454 | -0,008243 | 19,980776 | 19,980530 | 19,980381 | 19,980547 | 19,980706 | 19,980397 |
| 0,5012 | -0,009241 | -0,011245 | -0,011974 | -0,009259 | -0,013200 | -0,012075 | 19,980671 | 19,980606 | 19,980567 | 19,980642 | 19,980563 | 19,980528 |
| 0,6310 | -0,013412 | -0,013319 | -0,015190 | -0,014621 | -0,013927 | -0,015869 | 19,980539 | 19,980580 | 19,980534 | 19,980515 | 19,980576 | 19,980566 |
| 0,7943 | -0,018318 | -0,019257 | -0,020500 | -0,018823 | -0,020126 | -0,020466 | 19,980523 | 19,980578 | 19,980575 | 19,980571 | 19,980569 | 19,980587 |
| 1,0000 | -0,026361 | -0,026985 | -0,028526 | -0,026276 | -0,027580 | -0,028665 | 19,980626 | 19,980601 | 19,980597 | 19,980583 | 19,980632 | 19,980586 |
| 1,2589 | -0,038776 | -0,038662 | -0,039627 | -0,038010 | -0,039720 | -0,039879 | 19,980598 | 19,980571 | 19,980562 | 19,980518 | 19,980588 | 19,980567 |
| 1,5849 | -0,055102 | -0,056729 | -0,059655 | -0,056248 | -0,058051 | -0,059305 | 19,980586 | 19,980594 | 19,980572 | 19,980596 | 19,980593 | 19,980571 |
| 1,9953 | -0,083771 | -0,084478 | -0,086368 | -0,084346 | -0,087733 | -0,087690 | 19,980588 | 19,980570 | 19,980585 | 19,980594 | 19,980564 | 19,980589 |
| 2,5119 | -0,125409 | -0,128346 | -0,130723 | -0,125979 | -0,130713 | -0,131071 | 19,980597 | 19,980587 | 19,980593 | 19,980577 | 19,980589 | 19,980591 |
| 3,1623 | -0,191154 | -0,197218 | -0,199616 | -0,193444 | -0,200351 | -0,200174 | 19,980609 | 19,980596 | 19,980575 | 19,980601 | 19,980588 | 19,980568 |
| 3,9811 | -0,294229 | -0,303174 | -0,306115 | -0,297042 | -0,308252 | -0,306515 | 19,980590 | 19,980599 | 19,980599 | 19,980590 | 19,980592 | 19,980601 |
| 5,0120 | -0,456692 | -0,469841 | -0,473838 | -0,461170 | -0,480036 | -0,476491 | 19,980590 | 19,980592 | 19,980587 | 19,980593 | 19,980596 | 19,980592 |
| 6,3097 | -0,714251 | -0,734142 | -0,738633 | -0,718907 | -0,748124 | -0,740144 | 19,980593 | 19,980590 | 19,980594 | 19,980591 | 19,980594 | 19,980591 |
| 7,9430 | -1,118907 | -1,148223 | -1,154602 | -1,127023 | -1,168967 | -1,158301 | 19,980592 | 19,980594 | 19,980592 | 19,980591 | 19,980594 | 19,980590 |
| 10,0000 | -1,737684 | -1,775002 | -1,808851 | -1,750037 | -1,826303 | -1,789546 | 19,980469 | 19,980432 | 19,980612 | 19,980464 | 19,980549 | 19,980450 |
| 12,5890 | -2,785158 | -2,845171 | -2,843145 | -2,805352 | -2,890326 | -2,855042 | 19,980591 | 19,980594 | 19,980591 | 19,980597 | 19,980594 | 19,980596 |
| 15,8490 | -4,426755 | -4,499672 | -4,484811 | -4,460402 | -4,564962 | -4,507179 | 19,980591 | 19,980591 | 19,980595 | 19,980592 | 19,980593 | 19,980592 |
| 19,9530 | -7,073578 | -7,152943 | -7,111442 | -7,131304 | -7,247051 | -7,149402 | 19,980618 | 19,980581 | 19,980595 | 19,980632 | 19,980602 | 19,980571 |
| 25,1190 | -11,400110 | -11,452636 | -11,339116 | -11,479265 | -11,566641 | -11,401450 | 19,980596 | 19,980592 | 19,980590 | 19,980597 | 19,980592 | 19,980591 |
| 31,6230 | -18,551669 | -18,549980 | -18,349962 | -18,657305 | -18,687347 | -18,438258 | 19,980593 | 19,980597 | 19,980596 | 19,980595 | 19,980586 | 19,980590 |
| 39,8110 | -31,154582 | -31,154515 | -30,816156 | -31,350102 | -31,197329 | -30,915607 | 19,980501 | 19,980585 | 19,980558 | 19,980528 | 19,980545 | 19,980607 |
| 50,1200 | -75,557724 | -89,077902 | -79,082705 | -79,222257 | -82,598212 | -86,447510 | 19,984869 | 19,983024 | 19,986647 | 19,976424 | 19,980262 | 19,979904 |
| 63,0970 | -62,665666 | -63,053915 | -62,222103 | -63,004403 | -63,722826 | -63,076522 | 19,966887 | 19,971246 | 19,970955 | 19,971471 | 19,971330 | 19,972915 |
| 79,4300 | -55,788500 | -55,953285 | -55,741206 | -57,485255 | -56,217850 | -56,169459 | 19,980885 | 19,980757 | 19,980701 | 19,980945 | 19,980341 | 19,980582 |
| 100,0000 | -75,157556 | -82,384784 | -77,884317 | -70,325881 | -86,025510 | -71,137984 | 19,980950 | 19,982841 | 19,982060 | 19,983903 | 19,981433 | 19,981568 |
| 125,8900 | -80,085879 | -77,141551 | -82,692700 | -80,329933 | -87,755093 | -79,426585 | 19,980631 | 19,981065 | 19,980685 | 19,980257 | 19,980815 | 19,980753 |
| 158,4900 | -122,978850 | -87,428517 | -81,392228 | -82,434313 | -79,045698 | -76,404212 | 19,980310 | 19,980642 | 19,980615 | 19,980773 | 19,980329 | 19,980372 |
| 199,5300 | -79,711741 | -87,556043 | -78,474614 | -83,371803 | -95,150312 | -77,892788 | 19,980881 | 19,980561 | 19,981112 | 19,980605 | 19,980506 | 19,980707 |
| 251,1900 | -81,469388 | -80,559509 | -77,543553 | -79,508582 | -81,424308 | -76,717167 | 19,980322 | 19,980536 | 19,980718 | 19,980758 | 19,980593 | 19,980425 |
| 316,2300 | -77,825850 | -87,548968 | -80,124108 | -80,809800 | -76,512784 | -73,814195 | 19,980058 | 19,980604 | 19,980658 | 19,980243 | 19,981088 | 19,980269 |
| 398,1100 | -81,703101 | -77,213533 | -76,947617 | -98,655632 | -78,278868 | -80,734830 | 19,980712 | 19,980526 | 19,980673 | 19,980646 | 19,980681 | 19,980721 |
| 501,2000 | -79,495859 | -90,995893 | -91,931944 | -78,802542 | -77,649425 | -85,182083 | 19,980634 | 19,980496 | 19,980636 | 19,980772 | 19,980613 | 19,980577 |
| 630,9700 | -82,131146 | -92,813651 | -83,194176 | -79,531866 | -80,831113 | -88,038347 | 19,980433 | 19,980681 | 19,980557 | 19,980526 | 19,980595 | 19,980968 |
| 794,3000 | -84,424808 | -91,911606 | -84,856734 | -83,219010 | -83,191997 | -79,236130 | 19,980943 | 19,980241 | 19,980623 | 19,980595 | 19,980599 | 19,980611 |
| 1000,0000 | -93,080106 | -80,627612 | -92,593683 | -81,219865 | -77,238752 | -83,975188 | 19,980596 | 19,980626 | 19,980651 | 19,980602 | 19,980629 | 19,980584 |





RPC-MAG frequency response: IBx blue // IBy green // IBz red // --1fd5o2b2--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

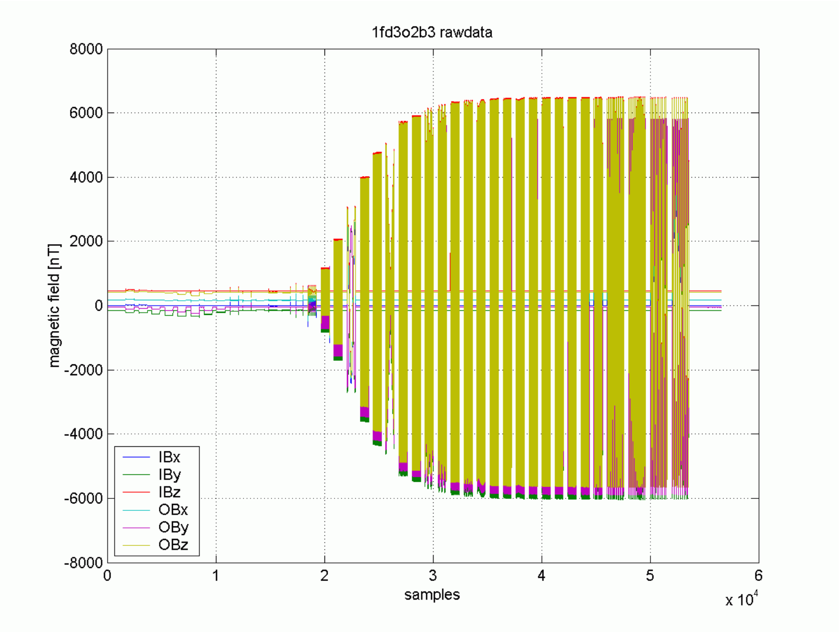
RPC-MAG frequency response: OBx blue // OBy green // OBz red // --1fd5o2b2--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

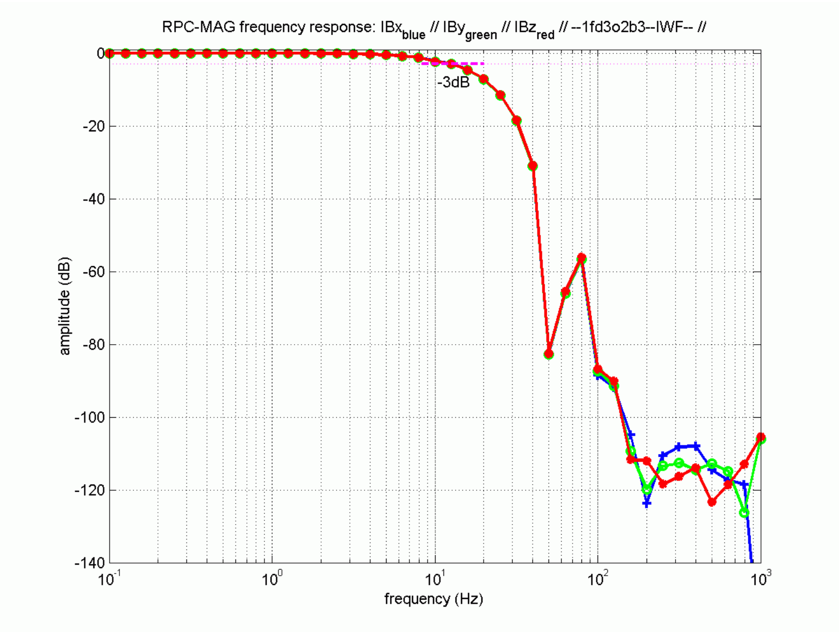
4.4.5 1fd3o2b3

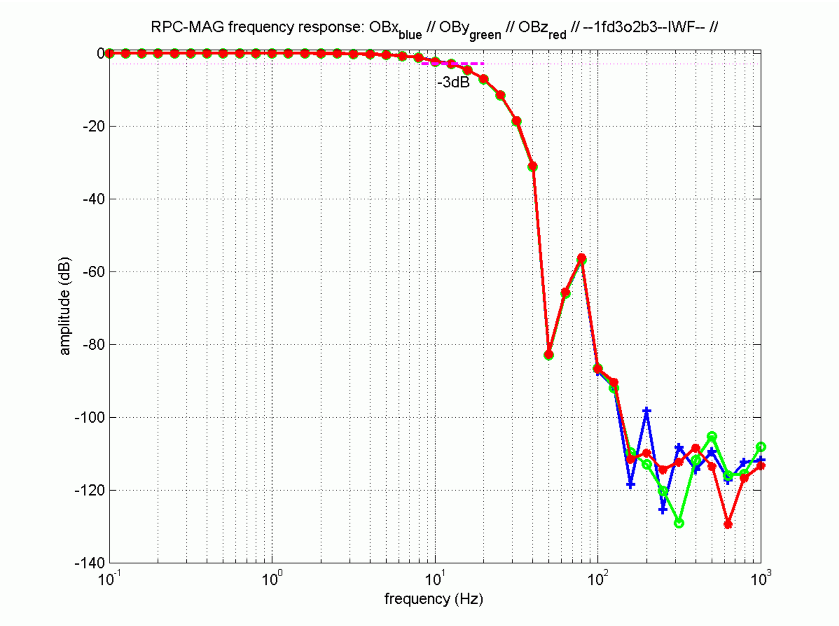
Number // CCD-File // Annotation // IWF-Name
--11-- // 01-04-25 17-55-38 // fd_h FS-Sensor FS-DPU // 1fd3o2b3

File: 1fd3o2b3

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980516 | 19,980499 | 19,980501 | 19,980519 | 19,980494 | 19,980501 |
| 0,1259 | 0,009664 | 0,009726 | 0,009644 | 0,009665 | 0,009707 | 0,009651 | 19,980641 | 19,980643 | 19,980645 | 19,980638 | 19,980643 | 19,980644 |
| 0,1585 | 0,018317 | 0,018374 | 0,018256 | 0,018319 | 0,018336 | 0,018287 | 19,980578 | 19,980576 | 19,980577 | 19,980577 | 19,980573 | 19,980578 |
| 0,1995 | 0,013852 | 0,013893 | 0,013763 | 0,013837 | 0,013831 | 0,013814 | 19,980594 | 19,980593 | 19,980595 | 19,980595 | 19,980593 | 19,980596 |
| 0,2512 | 0,012812 | 0,012914 | 0,012742 | 0,012803 | 0,012813 | 0,012792 | 19,980593 | 19,980588 | 19,980591 | 19,980591 | 19,980593 | 19,980593 |
| 0,3162 | 0,007096 | 0,007123 | 0,006918 | 0,007062 | 0,007030 | 0,006995 | 19,980579 | 19,980577 | 19,980578 | 19,980576 | 19,980575 | 19,980576 |
| 0,3981 | 0,007142 | 0,007232 | 0,006955 | 0,007111 | 0,007089 | 0,006999 | 19,980595 | 19,980589 | 19,980580 | 19,980589 | 19,980584 | 19,980584 |
| 0,5012 | -0,003855 | -0,003816 | -0,004144 | -0,003911 | -0,004012 | -0,004054 | 19,980585 | 19,980583 | 19,980587 | 19,980585 | 19,980583 | 19,980589 |
| 0,6310 | 0,002579 | 0,002590 | 0,002192 | 0,002519 | 0,002301 | 0,002296 | 19,980590 | 19,980590 | 19,980591 | 19,980589 | 19,980590 | 19,980591 |
| 0,7943 | -0,007899 | -0,007933 | -0,008467 | -0,007960 | -0,008284 | -0,008357 | 19,980590 | 19,980590 | 19,980590 | 19,980592 | 19,980589 | 19,980589 |
| 1,0000 | -0,018966 | -0,019118 | -0,019777 | -0,019092 | -0,019683 | -0,019639 | 19,980592 | 19,980593 | 19,980594 | 19,980592 | 19,980593 | 19,980593 |
| 1,2589 | -0,023395 | -0,023750 | -0,024583 | -0,023597 | -0,024594 | -0,024471 | 19,980594 | 19,980592 | 19,980593 | 19,980593 | 19,980592 | 19,980593 |
| 1,5849 | -0,047350 | -0,048106 | -0,049152 | -0,047642 | -0,049307 | -0,049076 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 |
| 1,9953 | -0,082369 | -0,083743 | -0,085132 | -0,082828 | -0,085547 | -0,085097 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 2,5119 | -0,118208 | -0,120641 | -0,122454 | -0,118932 | -0,123370 | -0,122518 | 19,980595 | 19,980595 | 19,980595 | 19,980595 | 19,980595 | 19,980595 |
| 3,1623 | -0,187779 | -0,192018 | -0,194362 | -0,188884 | -0,196117 | -0,194585 | 19,980595 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 |
| 3,9811 | -0,322366 | -0,329540 | -0,332690 | -0,324124 | -0,335780 | -0,333162 | 19,980595 | 19,980595 | 19,980595 | 19,980594 | 19,980595 | 19,980595 |
| 5,0120 | -0,468391 | -0,480156 | -0,484373 | -0,471151 | -0,489649 | -0,485344 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 |
| 6,3097 | -0,731470 | -0,750319 | -0,755759 | -0,735854 | -0,764746 | -0,757557 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 |
| 7,9430 | -1,121198 | -1,150179 | -1,156771 | -1,128202 | -1,172009 | -1,160086 | 19,980593 | 19,980592 | 19,980593 | 19,980592 | 19,980592 | 19,980593 |
| 10,0000 | -2,169274 | -2,356867 | -2,359697 | -2,144156 | -2,395837 | -2,346908 | 19,979185 | 19,978484 | 19,978517 | 19,979186 | 19,978753 | 19,978571 |
| 12,5890 | -2,852084 | -2,910181 | -2,912780 | -2,870468 | -2,957990 | -2,924041 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 |
| 15,8490 | -4,521828 | -4,592639 | -4,581923 | -4,551723 | -4,660635 | -4,602696 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 |
| 19,9530 | -7,048099 | -7,192136 | -7,005336 | -7,178025 | -7,145100 | -7,049288 | 19,979862 | 19,980441 | 19,979282 | 19,980512 | 19,979319 | 19,979346 |
| 25,1190 | -11,456769 | -11,504029 | -11,398003 | -11,530780 | -11,621488 | -11,459408 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 |
| 31,6230 | -18,580958 | -18,582114 | -18,380354 | -18,686349 | -18,718466 | -18,469930 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 39,8110 | -31,146951 | -31,103118 | -30,792385 | -31,283227 | -31,247348 | -30,903418 | 19,980588 | 19,980589 | 19,980588 | 19,980588 | 19,980589 | 19,980588 |
| 50,1200 | -82,824172 | -82,742119 | -82,497750 | -83,163669 | -83,036486 | -82,715132 | 19,979347 | 19,979266 | 19,979075 | 19,979216 | 19,979032 | 19,979069 |
| 63,0970 | -66,040240 | -65,965894 | -65,490181 | -66,221345 | -66,078909 | -65,603480 | 19,986225 | 19,986153 | 19,986181 | 19,986213 | 19,986172 | 19,986188 |
| 79,4300 | -56,772592 | -56,661435 | -56,091240 | -56,975332 | -56,779319 | -56,188292 | 19,980603 | 19,980605 | 19,980604 | 19,980595 | 19,980611 | 19,980597 |
| 100,0000 | -88,455361 | -87,329259 | -86,786416 | -87,389334 | -86,602401 | -86,783522 | 19,982719 | 19,983657 | 19,983694 | 19,983686 | 19,983673 | 19,983887 |
| 125,8900 | -91,890784 | -91,436459 | -90,141532 | -91,726962 | -91,915798 | -90,445085 | 19,980363 | 19,980682 | 19,980355 | 19,980479 | 19,980637 | 19,980589 |
| 158,4900 | -104,902574 | -109,341816 | -111,681277 | -118,465631 | -109,726600 | -111,596346 | 19,980465 | 19,980888 | 19,980881 | 19,981008 | 19,980218 | 19,980829 |
| 199,5300 | -123,792563 | -119,820065 | -112,095670 | -98,426425 | -112,977697 | -109,890648 | 19,981024 | 19,980906 | 19,980884 | 19,980388 | 19,980824 | 19,980890 |
| 251,1900 | -110,586870 | -113,438148 | -118,437239 | -125,388756 | -120,319194 | -114,472071 | 19,981273 | 19,981066 | 19,981133 | 19,981459 | 19,980989 | 19,980817 |
| 316,2300 | -108,169647 | -112,613980 | -116,330656 | -108,314469 | -129,113932 | -112,392532 | 19,981092 | 19,981118 | 19,980863 | 19,980784 | 19,980745 | 19,981072 |
| 398,1100 | -108,037380 | -114,515142 | -113,934328 | -114,500186 | -111,904384 | -108,498862 | 19,981054 | 19,980815 | 19,981036 | 19,981046 | 19,980927 | 19,980864 |
| 501,2000 | -114,569817 | -112,858820 | -123,284195 | -109,467485 | -105,246589 | -113,559113 | 19,981046 | 19,981386 | 19,980912 | 19,980966 | 19,981013 | 19,980987 |
| 630,9700 | -117,354566 | -114,836148 | -118,646951 | -117,376044 | -116,040367 | -129,586687 | 19,981082 | 19,980964 | 19,981088 | 19,981313 | 19,980978 | 19,981059 |
| 794,3000 | -118,525570 | -126,232625 | -113,019895 | -112,404197 | -115,575715 | -116,736009 | 19,980971 | 19,980876 | 19,980932 | 19,981051 | 19,980942 | 19,981006 |
| 1000,0000 | -168,076266 | -106,129159 | -105,425492 | -111,914254 | -108,204117 | -113,424752 | 19,981039 | 19,980996 | 19,981213 | 19,981009 | 19,980980 | 19,981027 |




RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd3o2b3--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

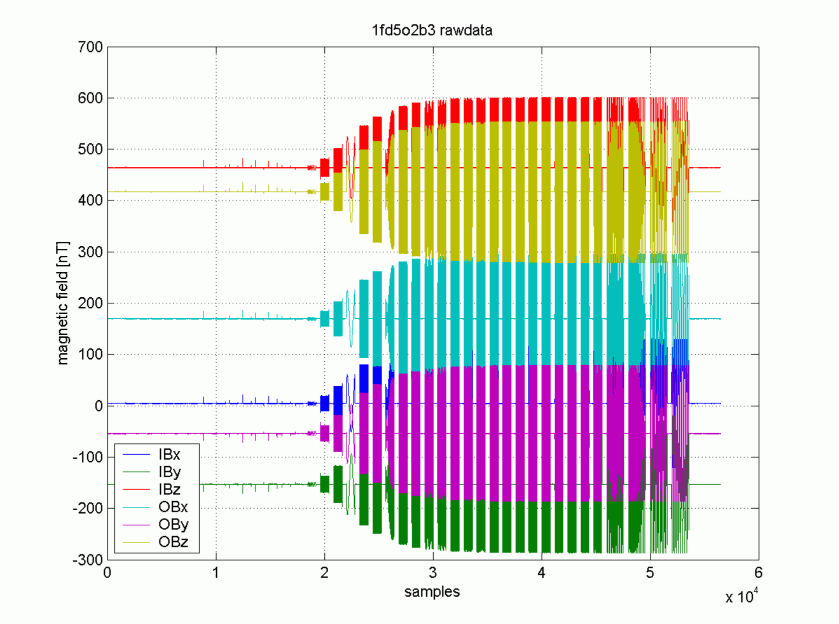

RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd3o2b3--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

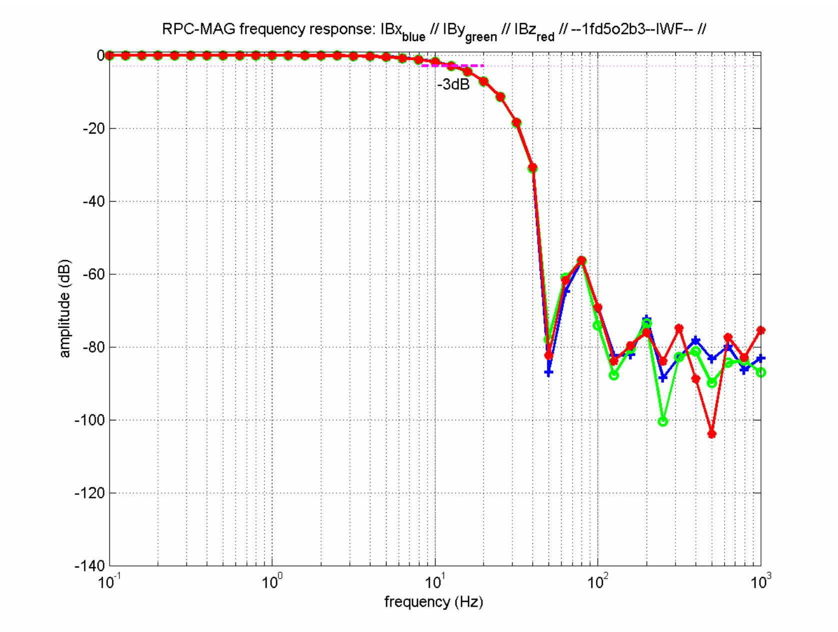
### 4.4.6 1fd5o2b3

Number // CCD-File // Annotation // IWF-Name
--12-- // 01-04-25 18-42-58 // fd_1 FS-Sensor FS-DPU // 1fd5o2b3

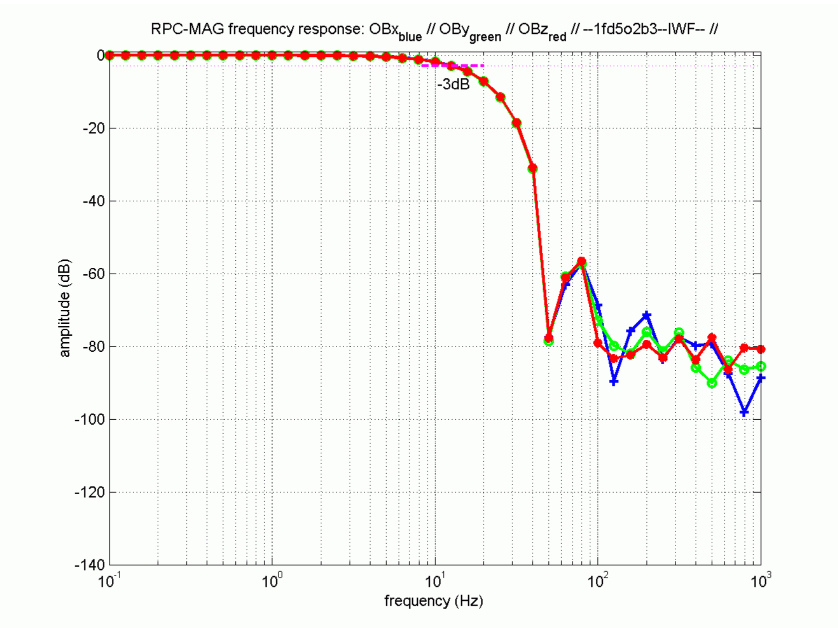
**File: 1fd5o2b3**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980436 | 19,980857 | 19,980666 | 19,980472 | 19,980673 | 19,980717 |
| 0,1259 | -0,000658 | -0,002065 | -0,001453 | 0,000517 | -0,001667 | -0,001194 | 19,980643 | 19,980695 | 19,980630 | 19,980849 | 19,980656 | 19,980638 |
| 0,1585 | -0,001016 | -0,003248 | -0,002538 | -0,002097 | -0,003116 | -0,003132 | 19,981044 | 19,980389 | 19,980790 | 19,981071 | 19,980599 | 19,980802 |
| 0,1995 | -0,003619 | -0,004017 | -0,004417 | -0,002789 | -0,005016 | -0,003544 | 19,980455 | 19,980617 | 19,980639 | 19,980517 | 19,980584 | 19,980622 |
| 0,2512 | -0,006276 | -0,006183 | -0,006773 | -0,005343 | -0,005849 | -0,006984 | 19,980674 | 19,980650 | 19,980696 | 19,980671 | 19,980694 | 19,980628 |
| 0,3162 | -0,006025 | -0,009143 | -0,008833 | -0,005074 | -0,008587 | -0,006315 | 19,980538 | 19,980592 | 19,980712 | 19,980601 | 19,980555 | 19,980595 |
| 0,3981 | -0,009190 | -0,008745 | -0,010658 | -0,008183 | -0,008206 | -0,009685 | 19,980531 | 19,980511 | 19,980550 | 19,980610 | 19,980569 | 19,980600 |
| 0,5012 | -0,010359 | -0,011850 | -0,012782 | -0,009717 | -0,012169 | -0,011077 | 19,980559 | 19,980570 | 19,980608 | 19,980688 | 19,980567 | 19,980583 |
| 0,6310 | -0,015943 | -0,016131 | -0,016717 | -0,015630 | -0,016396 | -0,015953 | 19,980558 | 19,980539 | 19,980570 | 19,980679 | 19,980567 | 19,980580 |
| 0,7943 | -0,021185 | -0,021407 | -0,022338 | -0,020173 | -0,022147 | -0,020888 | 19,980592 | 19,980573 | 19,980549 | 19,980592 | 19,980586 | 19,980564 |
| 1,0000 | -0,028250 | -0,028710 | -0,030603 | -0,027481 | -0,029143 | -0,030597 | 19,980569 | 19,980583 | 19,980592 | 19,980550 | 19,980600 | 19,980586 |
| 1,2589 | -0,042044 | -0,041732 | -0,042324 | -0,040503 | -0,042053 | -0,041976 | 19,980574 | 19,980596 | 19,980577 | 19,980581 | 19,980605 | 19,980559 |
| 1,5849 | -0,058075 | -0,059388 | -0,061160 | -0,058914 | -0,060367 | -0,060378 | 19,980608 | 19,980585 | 19,980592 | 19,980583 | 19,980598 | 19,980594 |
| 1,9953 | -0,087522 | -0,087995 | -0,090625 | -0,087816 | -0,089611 | -0,090431 | 19,980584 | 19,980606 | 19,980581 | 19,980597 | 19,980589 | 19,980584 |
| 2,5119 | -0,129018 | -0,131366 | -0,134022 | -0,128970 | -0,134395 | -0,133569 | 19,980591 | 19,980595 | 19,980589 | 19,980587 | 19,980588 | 19,980586 |
| 3,1623 | -0,195915 | -0,199280 | -0,201204 | -0,196852 | -0,203505 | -0,201412 | 19,980621 | 19,980583 | 19,980563 | 19,980606 | 19,980554 | 19,980561 |
| 3,9811 | -0,299642 | -0,307966 | -0,310266 | -0,301730 | -0,314044 | -0,310295 | 19,980597 | 19,980587 | 19,980588 | 19,980594 | 19,980592 | 19,980589 |
| 5,0120 | -0,463628 | -0,476489 | -0,479681 | -0,466007 | -0,484596 | -0,480351 | 19,980596 | 19,980594 | 19,980593 | 19,980591 | 19,980589 | 19,980590 |
| 6,3097 | -0,720617 | -0,740151 | -0,744364 | -0,724692 | -0,754229 | -0,745143 | 19,980598 | 19,980592 | 19,980589 | 19,980595 | 19,980592 | 19,980587 |
| 7,9430 | -1,127168 | -1,156946 | -1,161102 | -1,133752 | -1,177712 | -1,164737 | 19,980592 | 19,980590 | 19,980592 | 19,980590 | 19,980587 | 19,980593 |
| 10,0000 | -1,757533 | -1,799281 | -1,803601 | -1,768916 | -1,830620 | -1,809756 | 19,980517 | 19,980502 | 19,980591 | 19,980590 | 19,980504 | 19,980616 |
| 12,5890 | -2,794205 | -2,853656 | -2,852379 | -2,814858 | -2,899305 | -2,864283 | 19,980594 | 19,980590 | 19,980588 | 19,980590 | 19,980592 | 19,980588 |
| 15,8490 | -4,436631 | -4,509534 | -4,493146 | -4,467549 | -4,575389 | -4,514871 | 19,980591 | 19,980590 | 19,980588 | 19,980590 | 19,980589 | 19,980589 |
| 19,9530 | -7,090548 | -7,171115 | -7,114309 | -7,153999 | -7,259698 | -7,152255 | 19,980621 | 19,980621 | 19,980576 | 19,980690 | 19,980591 | 19,980584 |
| 25,1190 | -11,406817 | -11,463246 | -11,349754 | -11,487276 | -11,580034 | -11,412680 | 19,980591 | 19,980593 | 19,980591 | 19,980589 | 19,980591 | 19,980591 |
| 31,6230 | -18,555748 | -18,563667 | -18,361026 | -18,666521 | -18,697687 | -18,445497 | 19,980589 | 19,980591 | 19,980588 | 19,980592 | 19,980592 | 19,980592 |
| 39,8110 | -31,146734 | -31,082859 | -30,732007 | -31,308612 | -31,243931 | -30,838032 | 19,980574 | 19,980642 | 19,980612 | 19,980601 | 19,980575 | 19,980572 |
| 50,1200 | -87,022972 | -77,878545 | -82,334417 | -77,502361 | -78,450886 | -77,752283 | 19,978436 | 19,980695 | 19,981064 | 19,980629 | 19,977797 | 19,984443 |
| 63,0970 | -64,855663 | -60,945868 | -61,829254 | -63,238644 | -60,795148 | -61,183478 | 19,983472 | 19,979839 | 19,980792 | 19,981722 | 19,979254 | 19,978740 |
| 79,4300 | -56,580903 | -56,425754 | -56,231589 | -57,175484 | -57,288336 | -56,568674 | 19,980481 | 19,980211 | 19,980508 | 19,980711 | 19,980475 | 19,980609 |
| 100,0000 | -69,272374 | -74,105659 | -69,139644 | -68,639905 | -73,007284 | -79,092663 | 19,981045 | 19,981535 | 19,980777 | 19,981318 | 19,985017 | 19,981670 |
| 125,8900 | -82,478960 | -87,866076 | -83,990466 | -89,762735 | -79,836936 | -83,362612 | 19,980805 | 19,979647 | 19,980481 | 19,980804 | 19,980586 | 19,980719 |
| 158,4900 | -82,161800 | -80,495068 | -79,612468 | -75,919383 | -82,032338 | -82,400965 | 19,980873 | 19,980874 | 19,980793 | 19,981132 | 19,980924 | 19,980573 |
| 199,5300 | -72,415443 | -73,483993 | -76,033491 | -71,342183 | -76,128957 | -79,428299 | 19,980922 | 19,980378 | 19,980447 | 19,980816 | 19,980591 | 19,980214 |
| 251,1900 | -88,585346 | -100,489127 | -84,020253 | -83,563990 | -81,359527 | -83,211128 | 19,980828 | 19,980347 | 19,980422 | 19,980858 | 19,981393 | 19,980705 |
| 316,2300 | -82,807222 | -82,805149 | -74,976791 | -77,516024 | -76,246637 | -77,952268 | 19,981100 | 19,980536 | 19,980545 | 19,980693 | 19,979946 | 19,980500 |
| 398,1100 | -78,176701 | -81,215731 | -88,765519 | -79,883056 | -85,801894 | -83,827403 | 19,980513 | 19,980529 | 19,980612 | 19,980677 | 19,980688 | 19,980828 |
| 501,2000 | -83,371436 | -89,966908 | -103,964901 | -79,377211 | -90,149860 | -77,645370 | 19,980577 | 19,980675 | 19,980660 | 19,980934 | 19,980507 | 19,980641 |
| 630,9700 | -79,907925 | -84,362831 | -77,476439 | -87,494967 | -83,838518 | -86,431910 | 19,980606 | 19,980609 | 19,980577 | 19,980555 | 19,980461 | 19,980579 |
| 794,3000 | -86,334866 | -83,801243 | -82,932149 | -98,093308 | -86,397024 | -80,387234 | 19,980685 | 19,980640 | 19,980592 | 19,980601 | 19,980792 | 19,980615 |
| 1000,0000 | -83,154999 | -86,944913 | -75,470318 | -88,783706 | -85,452291 | -80,783623 | 19,980571 | 19,980597 | 19,980535 | 19,980582 | 19,980599 | 19,980583 |





RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd5o2b3--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)
0
-20
-40
-60
-80
-100
-120
-140
$10^{-1}$
$10^{0}$
$10^{1}$
$10^{2}$
$10^{3}$

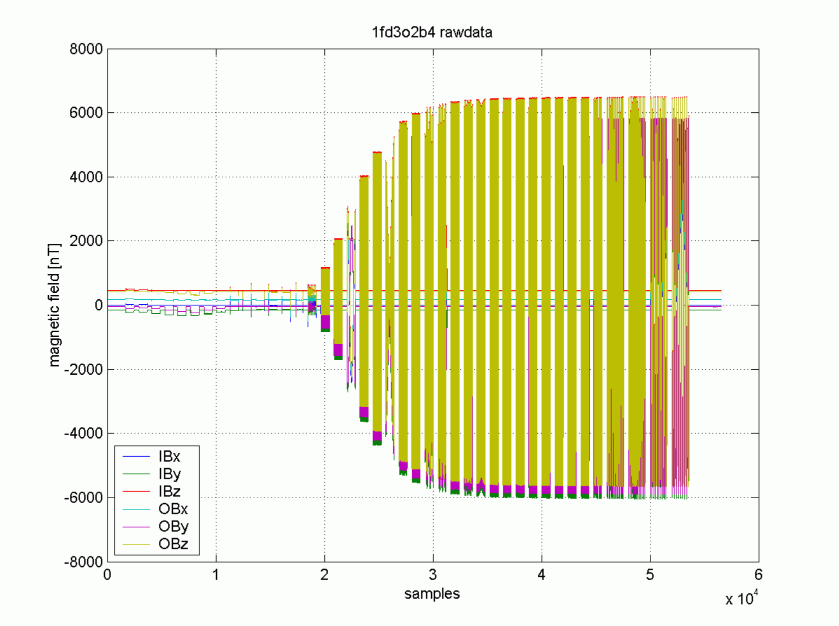
RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd5o2b3--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)
0
-20
-40
-60
-80
-100
-120
-140
$10^{-1}$
$10^{0}$
$10^{1}$
$10^{2}$
$10^{3}$

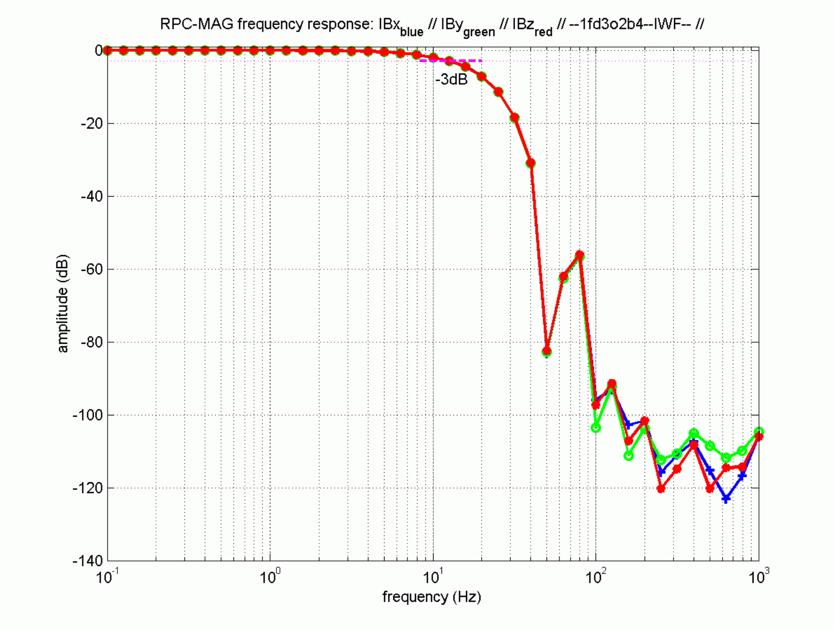
### 4.4.7 1fd3o2b4

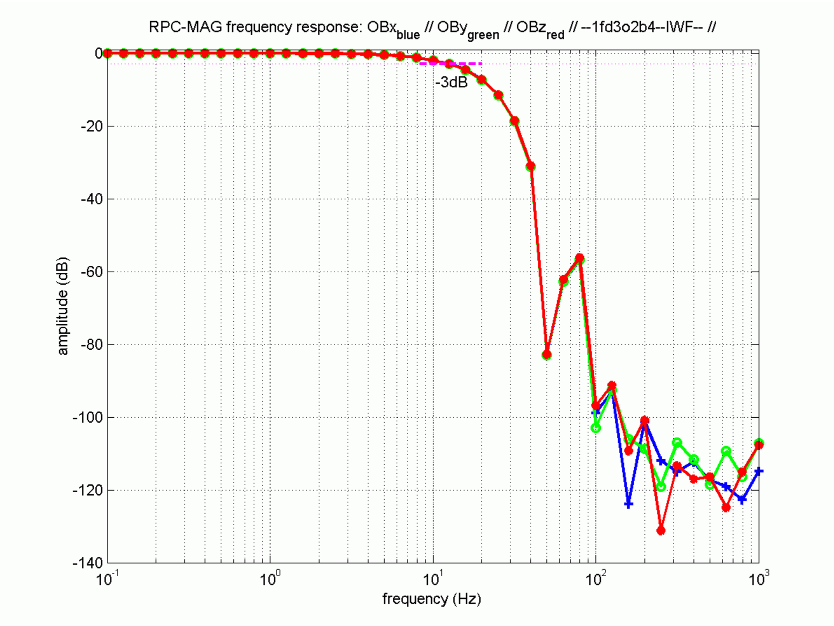
Number // CCD-File // Annotation // IWF-Name
--13-- // 01-04-25 19-30-18 // fd_h FS-Sensor FS-DPU // 1fd3o2b4

**File: 1fd3o2b4**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980591 | 19,980588 | 19,980599 | 19,980590 | 19,980591 | 19,980601 |
| 0,1259 | 0,009733 | 0,009775 | 0,009718 | 0,009690 | 0,009773 | 0,009745 | 19,980653 | 19,980654 | 19,980659 | 19,980652 | 19,980656 | 19,980656 |
| 0,1585 | 0,006320 | 0,006339 | 0,006255 | 0,006325 | 0,006311 | 0,006271 | 19,980599 | 19,980597 | 19,980598 | 19,980599 | 19,980598 | 19,980595 |
| 0,1995 | -0,007207 | -0,007130 | -0,007259 | -0,007210 | -0,007180 | -0,007231 | 19,980578 | 19,980574 | 19,980575 | 19,980577 | 19,980573 | 19,980574 |
| 0,2512 | -0,023108 | -0,023022 | -0,023202 | -0,023155 | -0,023124 | -0,023161 | 19,980528 | 19,980527 | 19,980525 | 19,980527 | 19,980528 | 19,980525 |
| 0,3162 | -0,018283 | -0,018183 | -0,018413 | -0,018285 | -0,018300 | -0,018349 | 19,980589 | 19,980585 | 19,980586 | 19,980589 | 19,980585 | 19,980586 |
| 0,3981 | -0,018359 | -0,018312 | -0,018561 | -0,018427 | -0,018426 | -0,018496 | 19,980587 | 19,980588 | 19,980588 | 19,980591 | 19,980586 | 19,980586 |
| 0,5012 | -0,020409 | -0,020312 | -0,020661 | -0,020463 | -0,020507 | -0,020573 | 19,980583 | 19,980583 | 19,980586 | 19,980584 | 19,980583 | 19,980585 |
| 0,6310 | -0,024809 | -0,024801 | -0,025229 | -0,024894 | -0,025083 | -0,025132 | 19,980591 | 19,980591 | 19,980590 | 19,980590 | 19,980590 | 19,980591 |
| 0,7943 | -0,026296 | -0,026332 | -0,026818 | -0,026432 | -0,026723 | -0,026739 | 19,980583 | 19,980584 | 19,980584 | 19,980584 | 19,980584 | 19,980585 |
| 1,0000 | -0,036965 | -0,037073 | -0,037752 | -0,037118 | -0,037610 | -0,037641 | 19,980595 | 19,980594 | 19,980594 | 19,980594 | 19,980594 | 19,980594 |
| 1,2589 | -0,039252 | -0,039611 | -0,040416 | -0,039463 | -0,040433 | -0,040322 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 |
| 1,5849 | -0,066581 | -0,067317 | -0,068350 | -0,066878 | -0,068517 | -0,068299 | 19,980592 | 19,980593 | 19,980593 | 19,980592 | 19,980593 | 19,980592 |
| 1,9953 | -0,092295 | -0,093673 | -0,095035 | -0,092774 | -0,095469 | -0,095003 | 19,980594 | 19,980595 | 19,980595 | 19,980594 | 19,980595 | 19,980595 |
| 2,5119 | -0,136894 | -0,139337 | -0,141097 | -0,137604 | -0,142032 | -0,141196 | 19,980595 | 19,980595 | 19,980595 | 19,980595 | 19,980595 | 19,980595 |
| 3,1623 | -0,201332 | -0,205573 | -0,207925 | -0,202456 | -0,209660 | -0,208160 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 3,9811 | -0,307906 | -0,315101 | -0,318214 | -0,309667 | -0,321312 | -0,318715 | 19,980594 | 19,980593 | 19,980594 | 19,980594 | 19,980594 | 19,980594 |
| 5,0120 | -0,463577 | -0,475387 | -0,479550 | -0,466329 | -0,484866 | -0,480556 | 19,980592 | 19,980592 | 19,980593 | 19,980592 | 19,980592 | 19,980593 |
| 6,3097 | -0,733831 | -0,752678 | -0,758120 | -0,738244 | -0,767059 | -0,759954 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 7,9430 | -1,140063 | -1,169088 | -1,175625 | -1,147093 | -1,190874 | -1,178951 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 10,0000 | -2,108454 | -2,028409 | -2,043111 | -2,154840 | -2,075579 | -2,058346 | 19,979240 | 19,979714 | 19,979683 | 19,979325 | 19,979657 | 19,979647 |
| 12,5890 | -2,830522 | -2,888623 | -2,891192 | -2,848911 | -2,936391 | -2,902505 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 15,8490 | -4,478023 | -4,548854 | -4,538113 | -4,507998 | -4,616861 | -4,558891 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 19,9530 | -7,175272 | -7,242301 | -7,199167 | -7,223317 | -7,335037 | -7,236504 | 19,980686 | 19,980663 | 19,980663 | 19,980685 | 19,980665 | 19,980664 |
| 25,1190 | -11,449630 | -11,496842 | -11,390646 | -11,523677 | -11,614214 | -11,452236 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 31,6230 | -18,616149 | -18,617199 | -18,415601 | -18,721670 | -18,753399 | -18,505343 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 39,8110 | -31,151481 | -31,111244 | -30,800242 | -31,287259 | -31,253576 | -30,910586 | 19,980592 | 19,980596 | 19,980594 | 19,980591 | 19,980598 | 19,980596 |
| 50,1200 | -83,172804 | -82,823403 | -82,413171 | -83,024559 | -82,876994 | -82,680024 | 19,981182 | 19,981159 | 19,981116 | 19,981165 | 19,981217 | 19,981199 |
| 63,0970 | -62,674095 | -62,564806 | -62,068337 | -62,872730 | -62,707429 | -62,178248 | 19,980634 | 19,980508 | 19,980527 | 19,980624 | 19,980553 | 19,980547 |
| 79,4300 | -56,765136 | -56,665163 | -56,122996 | -56,969030 | -56,783828 | -56,201324 | 19,980863 | 19,980598 | 19,980593 | 19,980652 | 19,980587 | 19,980602 |
| 100,0000 | -96,025943 | -103,575512 | -97,396575 | -98,859698 | -102,935632 | -96,769843 | 19,982127 | 19,981824 | 19,981711 | 19,980609 | 19,981401 | 19,981560 |
| 125,8900 | -93,101138 | -92,176184 | -91,333051 | -92,969980 | -92,543520 | -91,279609 | 19,981442 | 19,981168 | 19,981390 | 19,981126 | 19,981216 | 19,981023 |
| 158,4900 | -102,799460 | -111,162855 | -107,169453 | -123,976114 | -106,032638 | -109,243146 | 19,978892 | 19,980972 | 19,980933 | 19,980580 | 19,981402 | 19,980886 |
| 199,5300 | -101,675868 | -103,781555 | -101,615184 | -101,343826 | -108,769987 | -100,842340 | 19,980382 | 19,981317 | 19,982484 | 19,981241 | 19,981264 | 19,981453 |
| 251,1900 | -115,942005 | -112,412748 | -120,307331 | -111,997117 | -119,052632 | -131,208073 | 19,981036 | 19,981125 | 19,980949 | 19,980664 | 19,981127 | 19,980924 |
| 316,2300 | -111,088059 | -110,570310 | -114,830765 | -115,105670 | -107,067355 | -113,343961 | 19,980968 | 19,980527 | 19,980855 | 19,980533 | 19,980194 | 19,981181 |
| 398,1100 | -107,435102 | -105,028190 | -108,269847 | -112,393682 | -111,590958 | -117,043845 | 19,980869 | 19,981585 | 19,981013 | 19,980838 | 19,980826 | 19,980994 |
| 501,2000 | -115,368975 | -108,533989 | -120,332048 | -117,334421 | -118,578791 | -116,348132 | 19,980999 | 19,981017 | 19,981016 | 19,981112 | 19,981744 | 19,981030 |
| 630,9700 | -123,215208 | -111,874847 | -114,553311 | -119,148202 | -109,396097 | -124,863192 | 19,981046 | 19,981053 | 19,980957 | 19,981041 | 19,980897 | 19,980951 |
| 794,3000 | -116,783037 | -109,853782 | -114,409990 | -122,695532 | -116,411013 | -115,040915 | 19,981022 | 19,981147 | 19,981098 | 19,981414 | 19,981023 | 19,981014 |
| 1000,0000 | -105,674403 | -104,641952 | -106,040479 | -114,977792 | -107,294602 | -107,741151 | 19,980976 | 19,980904 | 19,980986 | 19,981038 | 19,981050 | 19,980974 |




RPC-MAG frequency response: IBx blue // IBy green // IBz red // --1fd3o2b4--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB

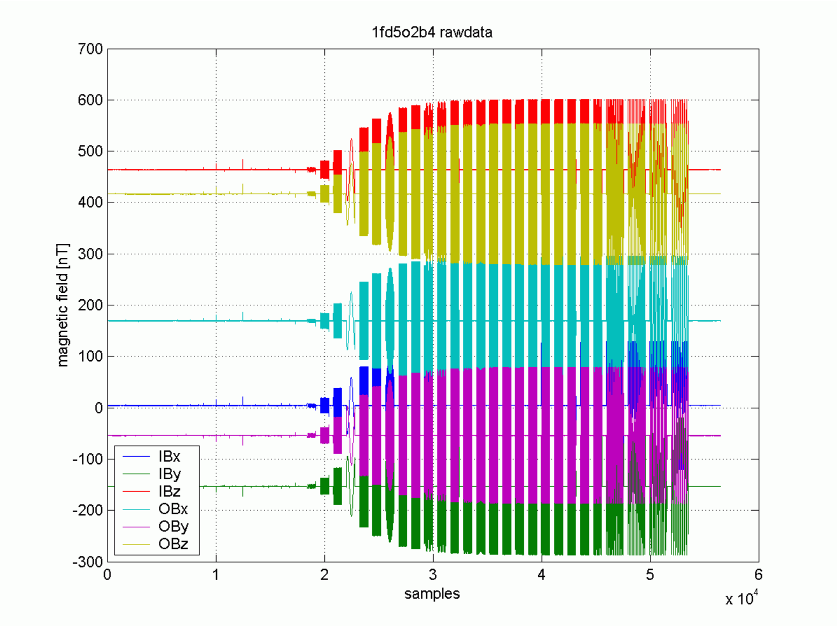

RPC-MAG frequency response: OBx blue // OBy green // OBz red // --1fd3o2b4--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB

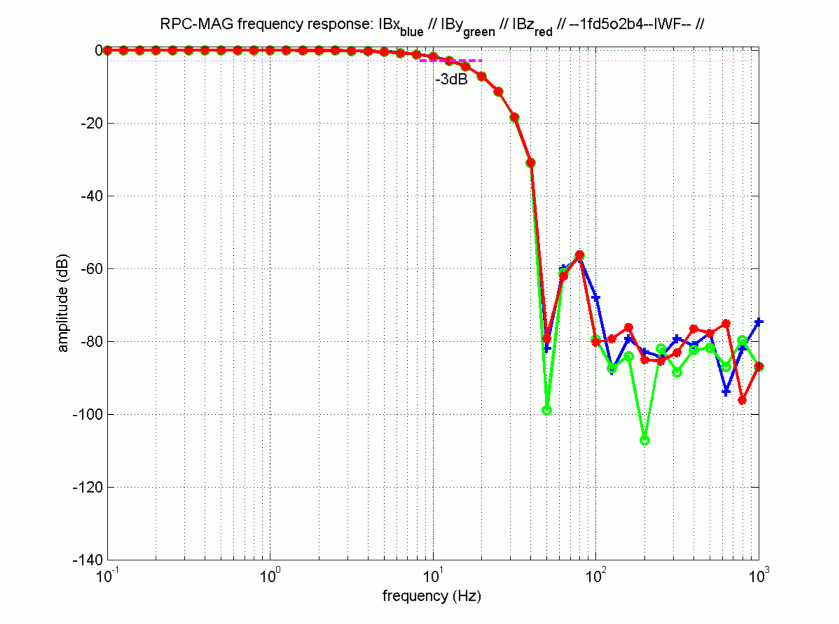
4.4.8 1fd5o2b4

Number // CCD-File // Annotation // IWF-Name
--14-- // 01-04-25 20-17-39 // fd_1 FS-Sensor FS-DPU // 1fd5o2b4

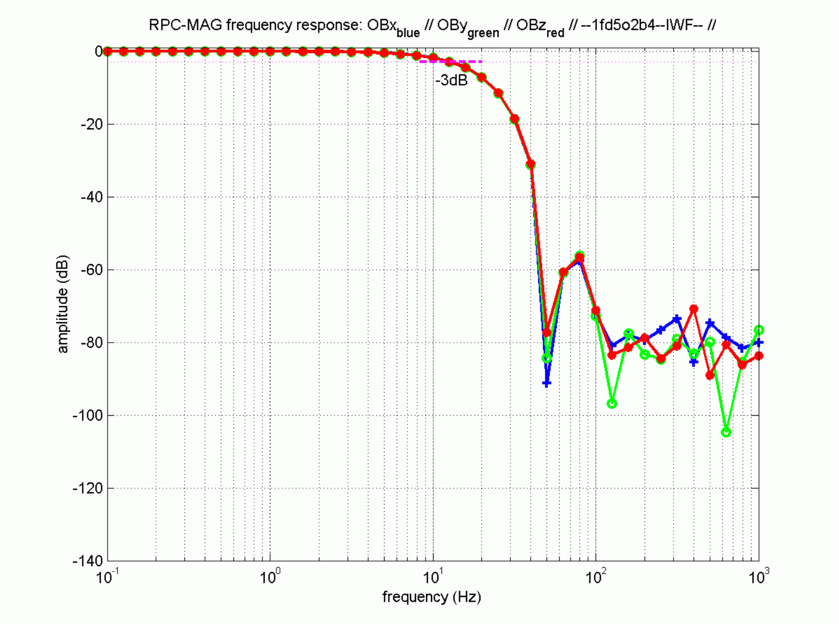
**File: 1fd5o2b4**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980896 | 19,980382 | 19,980587 | 19,980827 | 19,980372 | 19,980668 |
| 0,1259 | -0,000267 | 0,000059 | -0,000580 | -0,001847 | -0,000786 | -0,000839 | 19,980474 | 19,980596 | 19,980561 | 19,980488 | 19,980622 | 19,980587 |
| 0,1585 | -0,000406 | -0,001078 | -0,001511 | -0,001426 | -0,001305 | -0,001080 | 19,980771 | 19,980491 | 19,980579 | 19,980543 | 19,980558 | 19,980505 |
| 0,1995 | -0,002287 | -0,002888 | -0,002541 | -0,004366 | -0,002380 | -0,002784 | 19,980120 | 19,980658 | 19,980565 | 19,980129 | 19,980519 | 19,980761 |
| 0,2512 | -0,001391 | -0,004082 | -0,004865 | -0,003607 | -0,004454 | -0,005209 | 19,980357 | 19,980475 | 19,980270 | 19,980590 | 19,980588 | 19,980385 |
| 0,3162 | -0,004770 | -0,006806 | -0,006658 | -0,004886 | -0,006792 | -0,006809 | 19,980510 | 19,980631 | 19,980606 | 19,980617 | 19,980625 | 19,980618 |
| 0,3981 | -0,006725 | -0,007422 | -0,008283 | -0,006931 | -0,006918 | -0,008009 | 19,980543 | 19,980620 | 19,980559 | 19,980553 | 19,980655 | 19,980540 |
| 0,5012 | -0,009178 | -0,010917 | -0,011836 | -0,010633 | -0,011426 | -0,011079 | 19,980611 | 19,980545 | 19,980547 | 19,980588 | 19,980580 | 19,980543 |
| 0,6310 | -0,013162 | -0,013911 | -0,013883 | -0,012538 | -0,013730 | -0,014424 | 19,980553 | 19,980619 | 19,980599 | 19,980545 | 19,980603 | 19,980561 |
| 0,7943 | -0,018283 | -0,020097 | -0,019291 | -0,019253 | -0,019575 | -0,018012 | 19,980624 | 19,980614 | 19,980471 | 19,980632 | 19,980579 | 19,980464 |
| 1,0000 | -0,026368 | -0,027227 | -0,028685 | -0,026211 | -0,027911 | -0,029050 | 19,980602 | 19,980593 | 19,980577 | 19,980615 | 19,980605 | 19,980584 |
| 1,2589 | -0,038472 | -0,038327 | -0,039455 | -0,038148 | -0,040600 | -0,039344 | 19,980633 | 19,980605 | 19,980660 | 19,980579 | 19,980556 | 19,980631 |
| 1,5849 | -0,056328 | -0,058107 | -0,059012 | -0,056844 | -0,058822 | -0,058471 | 19,980592 | 19,980600 | 19,980598 | 19,980581 | 19,980606 | 19,980603 |
| 1,9953 | -0,083004 | -0,087139 | -0,086789 | -0,084228 | -0,087835 | -0,086931 | 19,980580 | 19,980585 | 19,980593 | 19,980583 | 19,980582 | 19,980591 |
| 2,5119 | -0,127085 | -0,129966 | -0,133074 | -0,129443 | -0,132659 | -0,132655 | 19,980589 | 19,980591 | 19,980600 | 19,980585 | 19,980594 | 19,980595 |
| 3,1623 | -0,192892 | -0,198095 | -0,200183 | -0,196118 | -0,203204 | -0,200486 | 19,980569 | 19,980593 | 19,980595 | 19,980572 | 19,980597 | 19,980589 |
| 3,9811 | -0,296511 | -0,305406 | -0,308180 | -0,298740 | -0,310757 | -0,308636 | 19,980595 | 19,980594 | 19,980589 | 19,980591 | 19,980591 | 19,980593 |
| 5,0120 | -0,460771 | -0,473274 | -0,477321 | -0,465183 | -0,481770 | -0,477885 | 19,980597 | 19,980587 | 19,980591 | 19,980597 | 19,980592 | 19,980591 |
| 6,3097 | -0,717915 | -0,737791 | -0,741435 | -0,723128 | -0,750951 | -0,743818 | 19,980588 | 19,980587 | 19,980590 | 19,980592 | 19,980591 | 19,980591 |
| 7,9430 | -1,122487 | -1,152584 | -1,157539 | -1,132555 | -1,172808 | -1,162352 | 19,980591 | 19,980588 | 19,980589 | 19,980588 | 19,980591 | 19,980590 |
| 10,0000 | -1,765600 | -1,810559 | -1,813691 | -1,779065 | -1,840477 | -1,820312 | 19,980588 | 19,980592 | 19,980594 | 19,980589 | 19,980585 | 19,980592 |
| 12,5890 | -2,789947 | -2,850851 | -2,848322 | -2,812126 | -2,895386 | -2,860043 | 19,980595 | 19,980588 | 19,980589 | 19,980592 | 19,980592 | 19,980590 |
| 15,8490 | -4,432170 | -4,506026 | -4,489809 | -4,467158 | -4,571090 | -4,512039 | 19,980592 | 19,980591 | 19,980590 | 19,980591 | 19,980593 | 19,980590 |
| 19,9530 | -7,093403 | -7,159733 | -7,111303 | -7,142647 | -7,251996 | -7,151288 | 19,980584 | 19,980606 | 19,980585 | 19,980568 | 19,980605 | 19,980592 |
| 25,1190 | -11,404156 | -11,461540 | -11,346744 | -11,482560 | -11,578766 | -11,408067 | 19,980605 | 19,980587 | 19,980592 | 19,980592 | 19,980599 | 19,980590 |
| 31,6230 | -18,562396 | -18,563112 | -18,353107 | -18,673032 | -18,700132 | -18,440584 | 19,980588 | 19,980590 | 19,980595 | 19,980593 | 19,980592 | 19,980593 |
| 39,8110 | -31,203160 | -31,054033 | -30,765927 | -31,263764 | -31,185806 | -30,879005 | 19,980652 | 19,980594 | 19,980612 | 19,980647 | 19,980613 | 19,980595 |
| 50,1200 | -81,925590 | -98,915426 | -79,245293 | -91,149259 | -84,257215 | -77,364065 | 19,982072 | 19,979373 | 19,979845 | 19,981755 | 19,981487 | 19,981120 |
| 63,0970 | -60,125054 | -61,137978 | -62,153134 | -60,792320 | -60,920538 | -60,728847 | 19,979534 | 19,975518 | 19,976087 | 19,981379 | 19,978520 | 19,976573 |
| 79,4300 | -57,206034 | -56,327503 | -56,182332 | -57,528200 | -56,247506 | -56,599585 | 19,980309 | 19,980911 | 19,980246 | 19,981229 | 19,980586 | 19,980400 |
| 100,0000 | -67,892601 | -79,494088 | -80,309271 | -72,216972 | -72,745873 | -71,193440 | 19,982320 | 19,980013 | 19,981279 | 19,981017 | 19,980348 | 19,980556 |
| 125,8900 | -88,043708 | -87,403457 | -79,371874 | -80,953381 | -96,832206 | -83,489223 | 19,980206 | 19,980775 | 19,980624 | 19,979987 | 19,979897 | 19,980586 |
| 158,4900 | -79,383399 | -84,086062 | -76,210593 | -78,127795 | -77,510543 | -81,452945 | 19,980480 | 19,980418 | 19,981318 | 19,980728 | 19,980620 | 19,982358 |
| 199,5300 | -83,002820 | -107,224058 | -85,137103 | -79,506728 | -83,336629 | -78,751946 | 19,980245 | 19,980539 | 19,980297 | 19,980602 | 19,980225 | 19,979596 |
| 251,1900 | -84,384967 | -82,031188 | -85,460008 | -76,637177 | -84,693603 | -84,450929 | 19,980610 | 19,980661 | 19,980486 | 19,980463 | 19,980288 | 19,980768 |
| 316,2300 | -79,263632 | -88,458495 | -83,149387 | -73,525446 | -79,186755 | -80,990871 | 19,980585 | 19,980694 | 19,980543 | 19,980509 | 19,980702 | 19,980504 |
| 398,1100 | -81,189762 | -82,439035 | -76,546629 | -85,515774 | -83,223565 | -70,766471 | 19,980525 | 19,980376 | 19,980586 | 19,980661 | 19,980728 | 19,980673 |
| 501,2000 | -77,826667 | -81,718928 | -77,847679 | -74,717642 | -79,943090 | -89,058526 | 19,980576 | 19,980703 | 19,980550 | 19,980703 | 19,980655 | 19,980622 |
| 630,9700 | -93,941473 | -86,920549 | -75,155414 | -78,687970 | -104,680372 | -80,743112 | 19,980610 | 19,980530 | 19,980666 | 19,981008 | 19,980551 | 19,980432 |
| 794,3000 | -82,183531 | -79,675276 | -96,226257 | -81,569550 | -85,432552 | -86,168743 | 19,980536 | 19,980569 | 19,980591 | 19,980864 | 19,980584 | 19,980636 |
| 1000,0000 | -74,756856 | -87,003373 | -86,861366 | -80,045469 | -76,549332 | -83,717748 | 19,980617 | 19,980584 | 19,980660 | 19,980594 | 19,980623 | 19,980638 |





RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd5o2b4--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

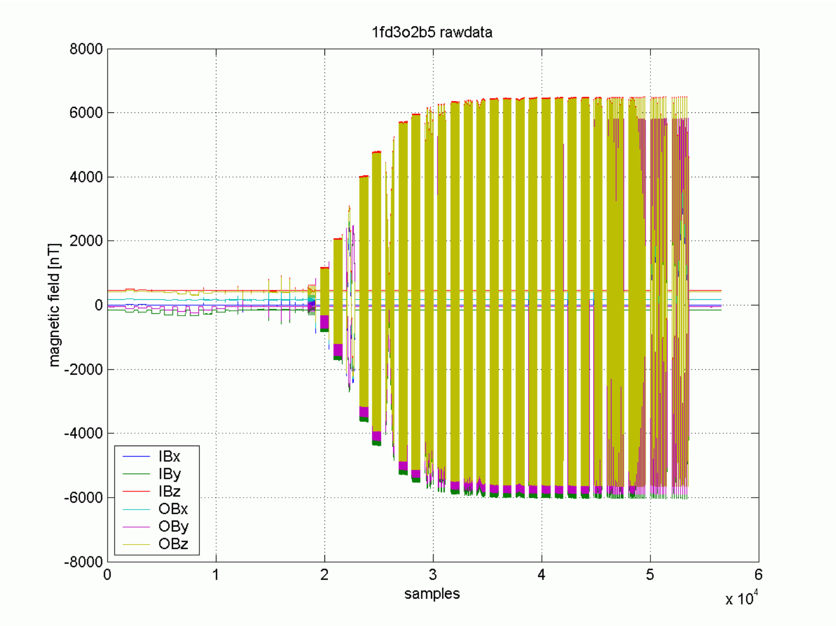
RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd5o2b4--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

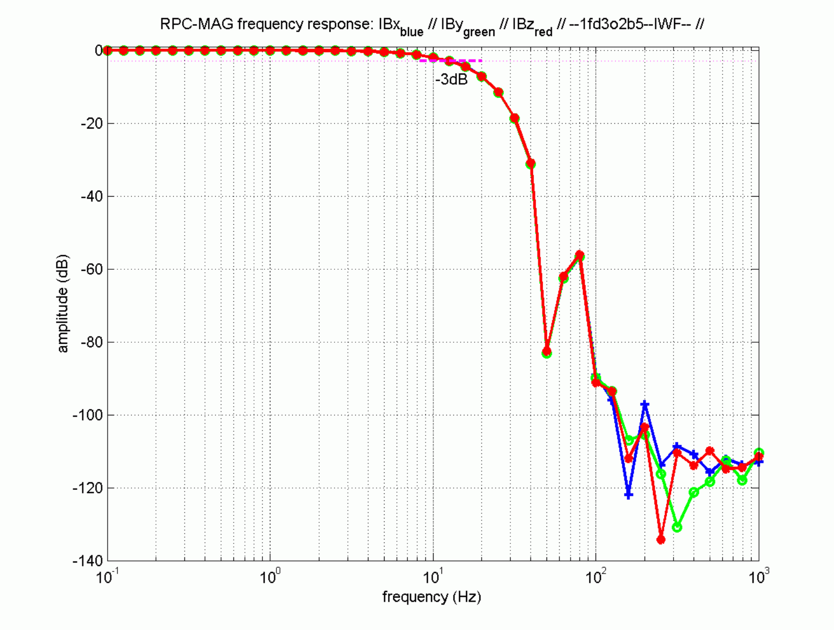
### 4.4.9 1fd3o2b5

Number // CCD-File // Annotation // IWF-Name
--15-- // 01-04-25 21-04-59 // fd_h FS-Sensor FS-DPU // 1fd3o2b5

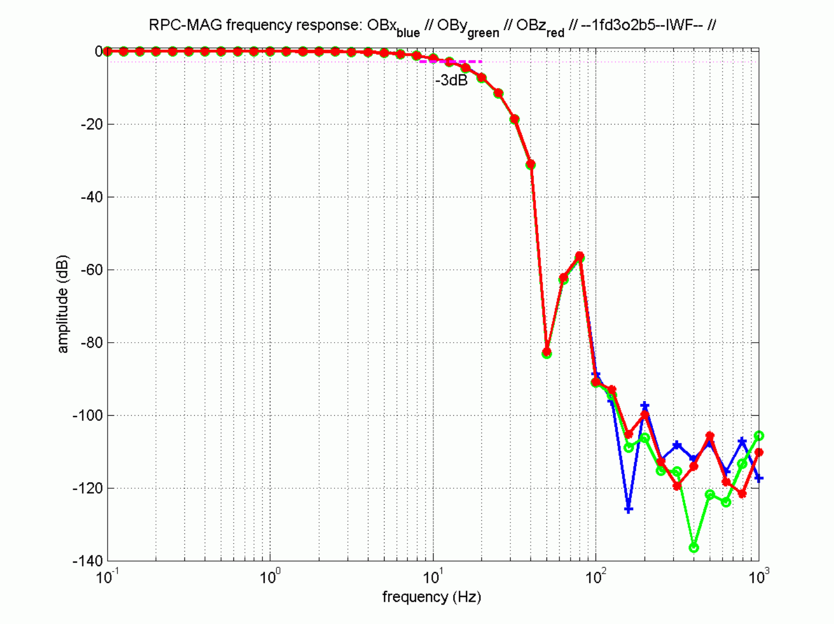
**File: 1fd3o2b5**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980578 | 19,980586 | 19,980589 | 19,980577 | 19,980583 | 19,980585 |
| 0,1259 | -0,003219 | -0,003262 | -0,003300 | -0,003266 | -0,003255 | -0,003294 | 19,980625 | 19,980620 | 19,980623 | 19,980627 | 19,980617 | 19,980622 |
| 0,1585 | -0,011698 | -0,011682 | -0,011746 | -0,011733 | -0,011696 | -0,011730 | 19,980602 | 19,980603 | 19,980605 | 19,980603 | 19,980601 | 19,980603 |
| 0,1995 | -0,016184 | -0,016163 | -0,016260 | -0,016214 | -0,016210 | -0,016224 | 19,980565 | 19,980565 | 19,980565 | 19,980567 | 19,980564 | 19,980565 |
| 0,2512 | -0,024973 | -0,024987 | -0,025099 | -0,025043 | -0,025032 | -0,025067 | 19,980617 | 19,980611 | 19,980613 | 19,980611 | 19,980610 | 19,980613 |
| 0,3162 | -0,024179 | -0,024160 | -0,024349 | -0,024236 | -0,024249 | -0,024275 | 19,980580 | 19,980585 | 19,980584 | 19,980579 | 19,980585 | 19,980584 |
| 0,3981 | -0,031664 | -0,031621 | -0,031890 | -0,031741 | -0,031736 | -0,031818 | 19,980599 | 19,980600 | 19,980600 | 19,980599 | 19,980599 | 19,980600 |
| 0,5012 | -0,027649 | -0,027690 | -0,027977 | -0,027763 | -0,027819 | -0,027921 | 19,980571 | 19,980571 | 19,980570 | 19,980571 | 19,980573 | 19,980570 |
| 0,6310 | -0,038232 | -0,038291 | -0,038657 | -0,038354 | -0,038523 | -0,038562 | 19,980583 | 19,980584 | 19,980584 | 19,980584 | 19,980584 | 19,980583 |
| 0,7943 | -0,034410 | -0,034532 | -0,035019 | -0,034551 | -0,034889 | -0,034916 | 19,980587 | 19,980587 | 19,980585 | 19,980586 | 19,980587 | 19,980586 |
| 1,0000 | -0,041597 | -0,041815 | -0,042435 | -0,041776 | -0,042366 | -0,042334 | 19,980589 | 19,980590 | 19,980591 | 19,980590 | 19,980591 | 19,980590 |
| 1,2589 | -0,048968 | -0,049389 | -0,050188 | -0,049191 | -0,050173 | -0,050086 | 19,980591 | 19,980590 | 19,980590 | 19,980591 | 19,980590 | 19,980590 |
| 1,5849 | -0,069868 | -0,070688 | -0,071722 | -0,070219 | -0,071868 | -0,071632 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 |
| 1,9953 | -0,093657 | -0,095139 | -0,096450 | -0,094162 | -0,096880 | -0,096451 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980593 |
| 2,5119 | -0,148184 | -0,150719 | -0,152438 | -0,148947 | -0,153387 | -0,152534 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 3,1623 | -0,204920 | -0,209287 | -0,211574 | -0,206063 | -0,213323 | -0,211803 | 19,980592 | 19,980591 | 19,980591 | 19,980593 | 19,980591 | 19,980591 |
| 3,9811 | -0,310254 | -0,317499 | -0,320589 | -0,312059 | -0,323680 | -0,321130 | 19,980592 | 19,980592 | 19,980592 | 19,980591 | 19,980592 | 19,980591 |
| 5,0120 | -0,477230 | -0,489090 | -0,493248 | -0,480035 | -0,498493 | -0,494250 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 6,3097 | -0,735553 | -0,754468 | -0,759847 | -0,739986 | -0,768818 | -0,761707 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 7,9430 | -1,147508 | -1,176595 | -1,183089 | -1,154595 | -1,198349 | -1,186471 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 |
| 10,0000 | -2,071510 | -2,005469 | -2,014267 | -2,098639 | -2,049527 | -2,027778 | 19,979621 | 19,980095 | 19,980017 | 19,979544 | 19,979972 | 19,979969 |
| 12,5890 | -2,822531 | -2,880716 | -2,883270 | -2,841056 | -2,928431 | -2,894597 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 15,8490 | -4,493495 | -4,564381 | -4,553564 | -4,523593 | -4,632284 | -4,574369 | 19,980592 | 19,980592 | 19,980592 | 19,980591 | 19,980592 | 19,980592 |
| 19,9530 | -7,134247 | -7,205409 | -7,162078 | -7,182622 | -7,297770 | -7,199293 | 19,980584 | 19,980582 | 19,980582 | 19,980584 | 19,980582 | 19,980582 |
| 25,1190 | -11,458220 | -11,505669 | -11,399434 | -11,532557 | -11,623036 | -11,460897 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 31,6230 | -18,647594 | -18,649069 | -18,447068 | -18,753069 | -18,785238 | -18,536697 | 19,980592 | 19,980591 | 19,980592 | 19,980592 | 19,980592 | 19,980591 |
| 39,8110 | -31,175364 | -31,133091 | -30,822076 | -31,310009 | -31,274815 | -30,930957 | 19,980585 | 19,980584 | 19,980585 | 19,980586 | 19,980583 | 19,980585 |
| 50,1200 | -82,838881 | -83,155036 | -82,494488 | -82,935164 | -83,119394 | -82,571624 | 19,981001 | 19,981244 | 19,981231 | 19,981119 | 19,981207 | 19,981376 |
| 63,0970 | -62,676251 | -62,560888 | -62,074162 | -62,826411 | -62,720649 | -62,207045 | 19,980568 | 19,980605 | 19,980622 | 19,980589 | 19,980612 | 19,980612 |
| 79,4300 | -56,744617 | -56,678538 | -56,124362 | -56,951254 | -56,798019 | -56,205809 | 19,980578 | 19,980572 | 19,980565 | 19,980570 | 19,980574 | 19,980561 |
| 100,0000 | -89,120423 | -89,902824 | -91,232627 | -88,654384 | -91,103903 | -90,877003 | 19,984928 | 19,985780 | 19,985607 | 19,987238 | 19,985929 | 19,985195 |
| 125,8900 | -95,954672 | -93,551926 | -93,619458 | -96,274753 | -94,427436 | -93,014356 | 19,981127 | 19,982615 | 19,982620 | 19,981913 | 19,982027 | 19,982703 |
| 158,4900 | -121,958635 | -107,050349 | -112,090623 | -125,907130 | -108,886885 | -105,340554 | 19,980858 | 19,980958 | 19,980816 | 19,980770 | 19,980407 | 19,980750 |
| 199,5300 | -97,215709 | -105,480295 | -103,419982 | -97,479848 | -106,228405 | -99,964166 | 19,982077 | 19,980846 | 19,980909 | 19,982130 | 19,980908 | 19,981395 |
| 251,1900 | -113,840912 | -116,206622 | -134,251958 | -112,399220 | -115,288575 | -112,826887 | 19,981029 | 19,980970 | 19,980933 | 19,981093 | 19,981038 | 19,980937 |
| 316,2300 | -108,711965 | -130,789026 | -110,548049 | -108,222525 | -115,509775 | -119,590449 | 19,980574 | 19,980531 | 19,981178 | 19,980786 | 19,980961 | 19,980904 |
| 398,1100 | -110,846635 | -121,312164 | -113,951890 | -112,146240 | -136,536868 | -114,108425 | 19,981038 | 19,980984 | 19,980982 | 19,981001 | 19,981005 | 19,981100 |
| 501,2000 | -115,767726 | -118,379201 | -109,885876 | -107,597577 | -121,768135 | -105,742395 | 19,980972 | 19,981035 | 19,981114 | 19,981083 | 19,980901 | 19,981059 |
| 630,9700 | -112,180301 | -112,668972 | -114,967462 | -115,617571 | -124,003502 | -118,347134 | 19,980902 | 19,981000 | 19,981026 | 19,981010 | 19,980902 | 19,981005 |
| 794,3000 | -113,774539 | -118,004610 | -114,422938 | -107,181486 | -113,364323 | -121,690690 | 19,980980 | 19,980961 | 19,980965 | 19,980997 | 19,981043 | 19,981042 |
| 1000,0000 | -113,035224 | -110,465569 | -111,499425 | -117,421946 | -105,649350 | -110,230151 | 19,980947 | 19,981012 | 19,981093 | 19,981048 | 19,981051 | 19,981054 |





RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd3o2b5--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

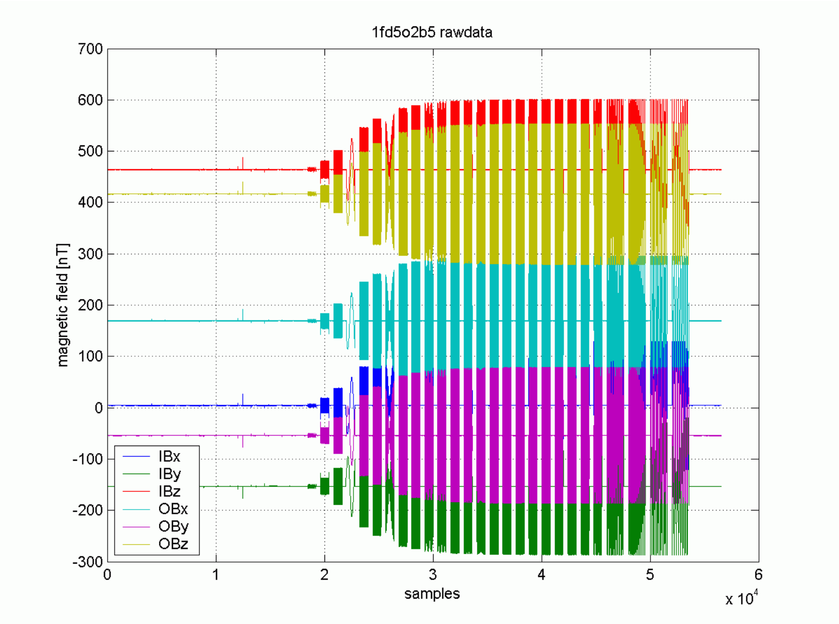
RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd3o2b5--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

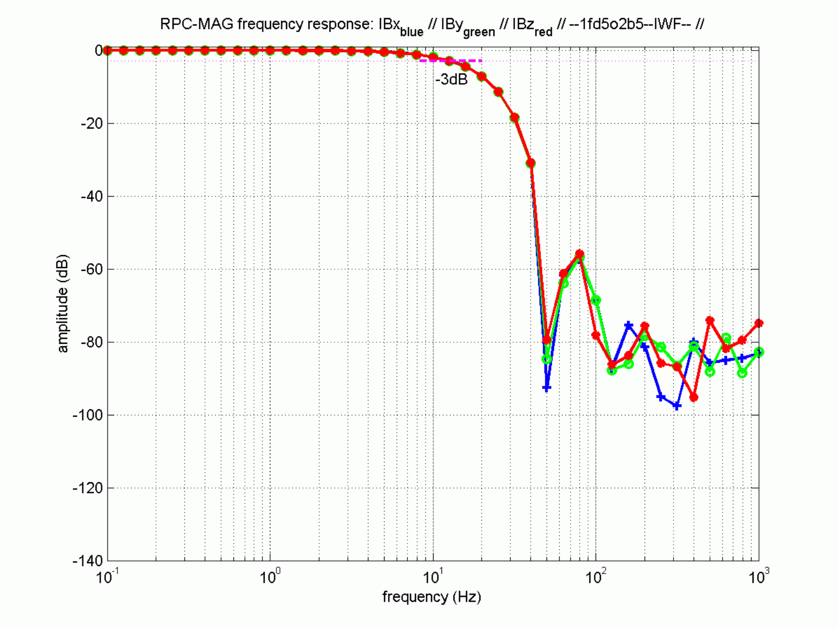
### 4.4.10 1fd5o2b5

Number // CCD-File // Annotation // IWF-Name
--16-- // 01-04-25 21-52-20 // fd_1 FS-Sensor FS-DPU // 1fd5o2b5

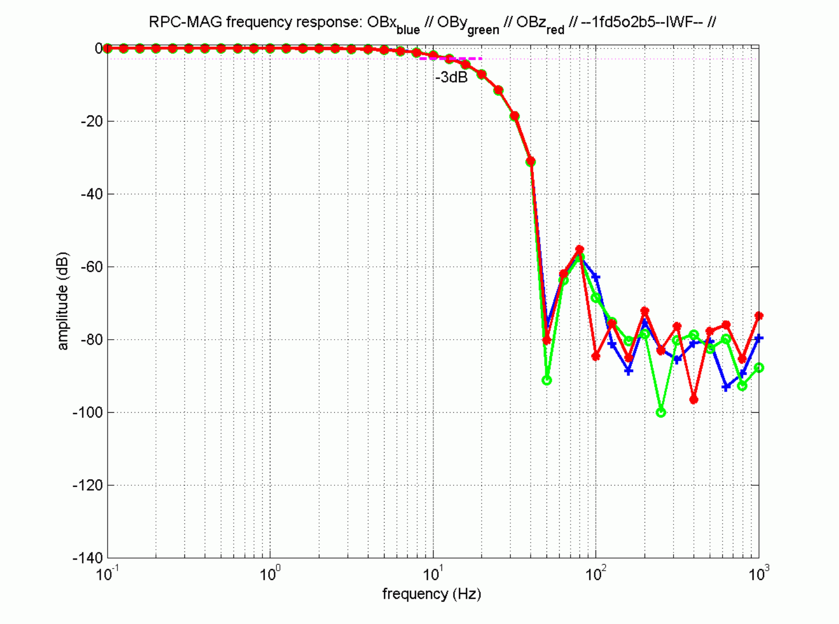
**File: 1fd5o2b5**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980631 | 19,980580 | 19,980511 | 19,980470 | 19,980495 | 19,980402 |
| 0,1259 | -0,000318 | -0,000880 | -0,001056 | -0,002173 | -0,001128 | -0,001626 | 19,980733 | 19,980541 | 19,980728 | 19,980705 | 19,980633 | 19,980748 |
| 0,1585 | -0,001592 | -0,002300 | -0,003251 | -0,003598 | -0,001819 | -0,003123 | 19,980587 | 19,980638 | 19,980508 | 19,980568 | 19,980567 | 19,980487 |
| 0,1995 | -0,004063 | -0,004794 | -0,005138 | -0,004131 | -0,005197 | -0,005756 | 19,980669 | 19,980547 | 19,980700 | 19,980476 | 19,980603 | 19,980760 |
| 0,2512 | -0,006344 | -0,004898 | -0,005726 | -0,005549 | -0,004389 | -0,006486 | 19,980620 | 19,980639 | 19,980536 | 19,980512 | 19,980659 | 19,980674 |
| 0,3162 | -0,005691 | -0,007674 | -0,009734 | -0,006330 | -0,008057 | -0,009276 | 19,980616 | 19,980528 | 19,980540 | 19,980736 | 19,980449 | 19,980564 |
| 0,3981 | -0,008900 | -0,008352 | -0,009129 | -0,009949 | -0,009116 | -0,008572 | 19,980447 | 19,980491 | 19,980556 | 19,980428 | 19,980545 | 19,980548 |
| 0,5012 | -0,009106 | -0,012577 | -0,015124 | -0,011410 | -0,012053 | -0,014862 | 19,980563 | 19,980606 | 19,980739 | 19,980588 | 19,980587 | 19,980745 |
| 0,6310 | -0,014077 | -0,016291 | -0,018419 | -0,015348 | -0,016091 | -0,018919 | 19,980591 | 19,980594 | 19,980608 | 19,980554 | 19,980577 | 19,980597 |
| 0,7943 | -0,020219 | -0,021063 | -0,023219 | -0,020658 | -0,021173 | -0,023167 | 19,980553 | 19,980554 | 19,980604 | 19,980577 | 19,980574 | 19,980558 |
| 1,0000 | -0,028297 | -0,030078 | -0,032438 | -0,029406 | -0,029302 | -0,032524 | 19,980585 | 19,980602 | 19,980587 | 19,980585 | 19,980594 | 19,980581 |
| 1,2589 | -0,041012 | -0,042493 | -0,043898 | -0,041605 | -0,042923 | -0,043852 | 19,980587 | 19,980583 | 19,980563 | 19,980592 | 19,980588 | 19,980568 |
| 1,5849 | -0,058862 | -0,061797 | -0,062320 | -0,059534 | -0,062338 | -0,062356 | 19,980598 | 19,980606 | 19,980581 | 19,980592 | 19,980603 | 19,980578 |
| 1,9953 | -0,085684 | -0,089365 | -0,091248 | -0,087126 | -0,089983 | -0,091272 | 19,980583 | 19,980601 | 19,980588 | 19,980591 | 19,980597 | 19,980581 |
| 2,5119 | -0,129817 | -0,133715 | -0,135246 | -0,130691 | -0,136047 | -0,135374 | 19,980595 | 19,980583 | 19,980594 | 19,980606 | 19,980577 | 19,980596 |
| 3,1623 | -0,197314 | -0,201816 | -0,204006 | -0,199892 | -0,204689 | -0,205281 | 19,980579 | 19,980600 | 19,980588 | 19,980578 | 19,980593 | 19,980586 |
| 3,9811 | -0,300168 | -0,308624 | -0,311948 | -0,303118 | -0,315035 | -0,312328 | 19,980589 | 19,980583 | 19,980594 | 19,980593 | 19,980584 | 19,980600 |
| 5,0120 | -0,463035 | -0,477351 | -0,479733 | -0,466938 | -0,485398 | -0,482780 | 19,980581 | 19,980587 | 19,980599 | 19,980580 | 19,980582 | 19,980610 |
| 6,3097 | -0,719576 | -0,740486 | -0,744963 | -0,725446 | -0,753734 | -0,746614 | 19,980590 | 19,980590 | 19,980588 | 19,980590 | 19,980591 | 19,980585 |
| 7,9430 | -1,125717 | -1,157094 | -1,160590 | -1,135670 | -1,177076 | -1,164516 | 19,980588 | 19,980590 | 19,980589 | 19,980593 | 19,980590 | 19,980595 |
| 10,0000 | -1,939576 | -1,874321 | -1,928437 | -1,968677 | -1,932210 | -2,004409 | 19,979851 | 19,980276 | 19,980062 | 19,979787 | 19,980178 | 19,980002 |
| 12,5890 | -2,794552 | -2,853192 | -2,852655 | -2,814573 | -2,898775 | -2,863872 | 19,980590 | 19,980591 | 19,980587 | 19,980589 | 19,980589 | 19,980591 |
| 15,8490 | -4,434435 | -4,509159 | -4,491385 | -4,468002 | -4,573763 | -4,513657 | 19,980590 | 19,980591 | 19,980591 | 19,980589 | 19,980589 | 19,980591 |
| 19,9530 | -7,094037 | -7,152472 | -7,107682 | -7,148488 | -7,247951 | -7,151235 | 19,980673 | 19,980687 | 19,980688 | 19,980672 | 19,980675 | 19,980684 |
| 25,1190 | -11,415091 | -11,461618 | -11,346113 | -11,492227 | -11,573352 | -11,411763 | 19,980594 | 19,980589 | 19,980590 | 19,980592 | 19,980580 | 19,980597 |
| 31,6230 | -18,559485 | -18,563915 | -18,350290 | -18,665386 | -18,698077 | -18,452298 | 19,980587 | 19,980596 | 19,980621 | 19,980586 | 19,980591 | 19,980596 |
| 39,8110 | -31,169427 | -31,072871 | -30,749150 | -31,301989 | -31,244442 | -30,900107 | 19,980566 | 19,980625 | 19,980574 | 19,980610 | 19,980594 | 19,980578 |
| 50,1200 | -92,613199 | -84,783420 | -79,477722 | -76,472178 | -91,313084 | -80,281431 | 19,981041 | 19,981569 | 19,980068 | 19,981822 | 19,984960 | 19,983333 |
| 63,0970 | -61,724298 | -63,940316 | -61,291820 | -62,454459 | -63,757741 | -62,051139 | 19,980079 | 19,980721 | 19,980976 | 19,979355 | 19,980018 | 19,979344 |
| 79,4300 | -57,382519 | -56,669068 | -55,832248 | -57,196294 | -57,474000 | -55,313490 | 19,981567 | 19,980415 | 19,981278 | 19,981476 | 19,980735 | 19,981257 |
| 100,0000 | -68,523776 | -68,574944 | -78,217007 | -63,021024 | -68,566883 | -84,715305 | 19,980565 | 19,980614 | 19,980902 | 19,980771 | 19,982930 | 19,980692 |
| 125,8900 | -87,382173 | -87,701853 | -86,274036 | -81,315627 | -75,301870 | -75,683292 | 19,980641 | 19,980423 | 19,980642 | 19,980385 | 19,980727 | 19,980051 |
| 158,4900 | -75,412824 | -85,970124 | -83,809640 | -88,719302 | -80,456193 | -85,088090 | 19,982185 | 19,980206 | 19,980622 | 19,980881 | 19,980555 | 19,980530 |
| 199,5300 | -81,402837 | -78,318558 | -75,745385 | -75,430720 | -78,481419 | -72,265796 | 19,980673 | 19,981099 | 19,979547 | 19,980305 | 19,980604 | 19,980292 |
| 251,1900 | -95,098581 | -81,416562 | -85,925732 | -82,743098 | -100,011894 | -83,073800 | 19,980831 | 19,980841 | 19,980757 | 19,980771 | 19,980904 | 19,980966 |
| 316,2300 | -97,622592 | -86,548506 | -86,877834 | -85,626475 | -80,231948 | -76,512243 | 19,980436 | 19,980670 | 19,980940 | 19,980457 | 19,980631 | 19,980180 |
| 398,1100 | -80,000132 | -81,257951 | -95,227532 | -80,985186 | -78,798803 | -96,532993 | 19,980315 | 19,980477 | 19,980574 | 19,980518 | 19,980812 | 19,980582 |
| 501,2000 | -85,837472 | -88,156316 | -74,166233 | -80,623026 | -82,636954 | -77,797645 | 19,980599 | 19,980609 | 19,980613 | 19,980708 | 19,981147 | 19,980623 |
| 630,9700 | -85,073778 | -78,844736 | -81,892984 | -93,145229 | -79,902210 | -75,969884 | 19,980072 | 19,980544 | 19,980568 | 19,980613 | 19,980607 | 19,980447 |
| 794,3000 | -84,473008 | -88,602294 | -79,542183 | -89,516010 | -92,731802 | -85,463784 | 19,980621 | 19,980608 | 19,980598 | 19,980643 | 19,980753 | 19,980662 |
| 1000,0000 | -83,250185 | -82,780100 | -74,905157 | -79,710031 | -87,704596 | -73,585393 | 19,980601 | 19,980642 | 19,980608 | 19,980545 | 19,980512 | 19,980634 |





RPC-MAG frequency response: IBx_blue // IBy_green // IBz_red // --1fd5o2b5--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

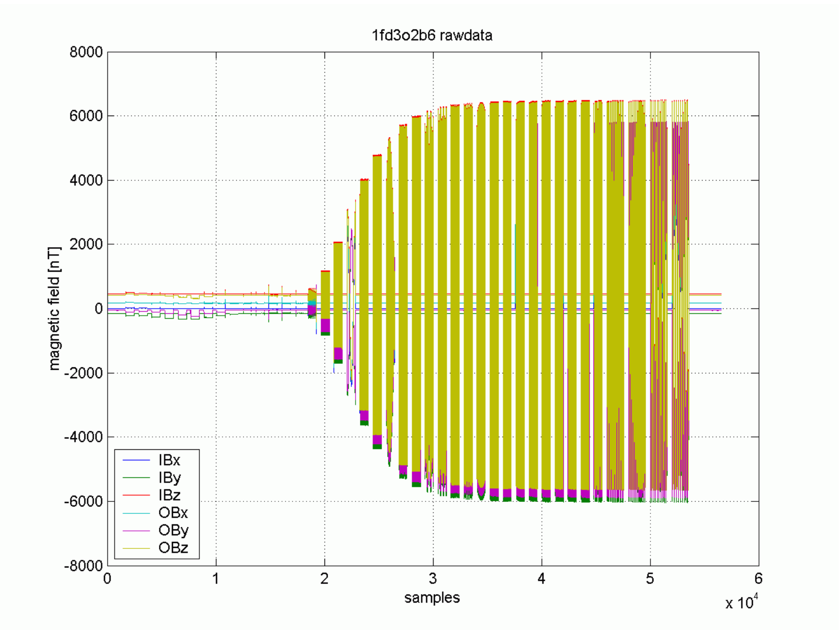
RPC-MAG frequency response: OBx_blue // OBy_green // OBz_red // --1fd5o2b5--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

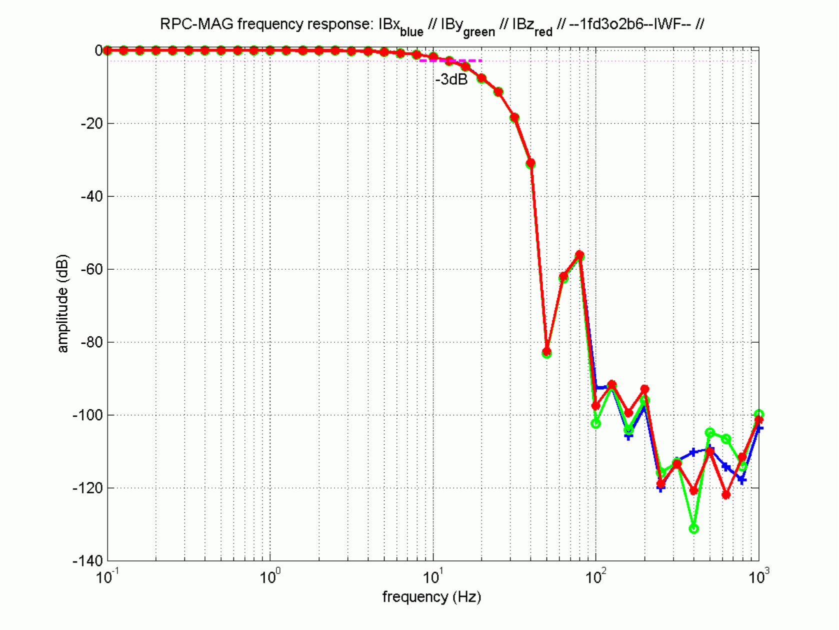
### 4.4.11 1fd3o2b6

Number // CCD-File // Annotation // IWF-Name
--17-- // 01-04-25 22-39-41 // fd_h FS-Sensor FS-DPU // 1fd3o2b6

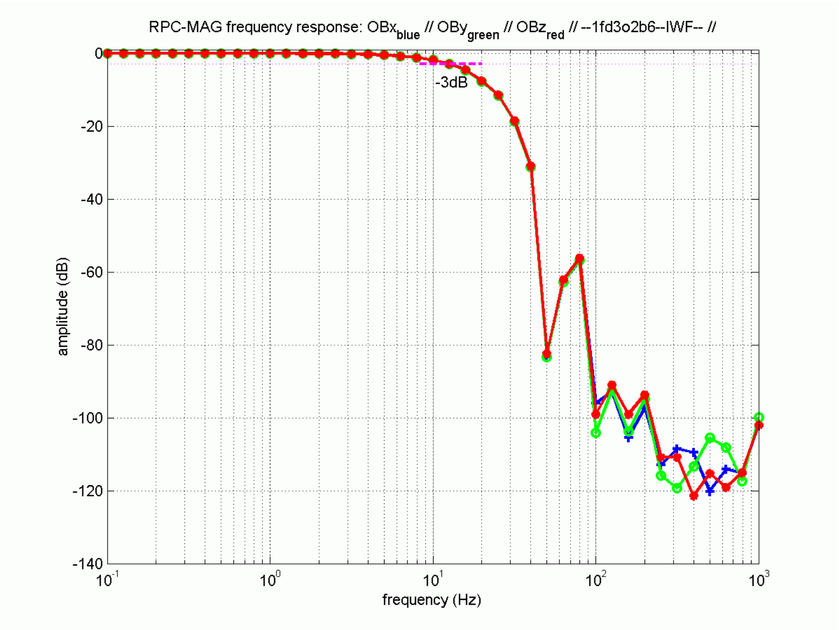
**File: 1fd3o2b6**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980607 | 19,980614 | 19,980619 | 19,980609 | 19,980612 | 19,980618 |
| 0,1259 | 0,007835 | 0,007854 | 0,007866 | 0,007803 | 0,007852 | 0,007864 | 19,980604 | 19,980605 | 19,980600 | 19,980601 | 19,980602 | 19,980599 |
| 0,1585 | -0,017521 | -0,017505 | -0,017526 | -0,017537 | -0,017515 | -0,017537 | 19,980666 | 19,980680 | 19,980679 | 19,980673 | 19,980680 | 19,980676 |
| 0,1995 | -0,009680 | -0,009650 | -0,009704 | -0,009719 | -0,009682 | -0,009693 | 19,980588 | 19,980591 | 19,980590 | 19,980591 | 19,980592 | 19,980590 |
| 0,2512 | -0,020224 | -0,020184 | -0,020292 | -0,020281 | -0,020247 | -0,020275 | 19,980615 | 19,980617 | 19,980619 | 19,980612 | 19,980613 | 19,980617 |
| 0,3162 | -0,003657 | -0,003590 | -0,003746 | -0,003691 | -0,003680 | -0,003716 | 19,980582 | 19,980583 | 19,980583 | 19,980582 | 19,980583 | 19,980583 |
| 0,3981 | -0,027240 | -0,027205 | -0,027415 | -0,027327 | -0,027345 | -0,027358 | 19,980616 | 19,980616 | 19,980615 | 19,980616 | 19,980616 | 19,980617 |
| 0,5012 | -0,032323 | -0,032299 | -0,032637 | -0,032423 | -0,032479 | -0,032561 | 19,980593 | 19,980595 | 19,980592 | 19,980595 | 19,980593 | 19,980594 |
| 0,6310 | -0,022257 | -0,022223 | -0,022601 | -0,022373 | -0,022495 | -0,022549 | 19,980598 | 19,980600 | 19,980599 | 19,980599 | 19,980600 | 19,980600 |
| 0,7943 | -0,043529 | -0,043597 | -0,044091 | -0,043663 | -0,043960 | -0,044005 | 19,980586 | 19,980586 | 19,980586 | 19,980585 | 19,980587 | 19,980586 |
| 1,0000 | -0,037202 | -0,037360 | -0,037967 | -0,037375 | -0,037885 | -0,037877 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980593 |
| 1,2589 | -0,032483 | -0,032842 | -0,033641 | -0,032737 | -0,033639 | -0,033540 | 19,980596 | 19,980596 | 19,980594 | 19,980596 | 19,980596 | 19,980594 |
| 1,5849 | -0,068257 | -0,068992 | -0,069986 | -0,068595 | -0,070167 | -0,069934 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 1,9953 | -0,101559 | -0,103007 | -0,104316 | -0,102081 | -0,104761 | -0,104303 | 19,980591 | 19,980591 | 19,980590 | 19,980590 | 19,980591 | 19,980590 |
| 2,5119 | -0,143164 | -0,145663 | -0,147373 | -0,143922 | -0,148324 | -0,147451 | 19,980593 | 19,980593 | 19,980593 | 19,980593 | 19,980592 | 19,980593 |
| 3,1623 | -0,202608 | -0,206923 | -0,209206 | -0,203762 | -0,210971 | -0,209466 | 19,980591 | 19,980592 | 19,980592 | 19,980591 | 19,980592 | 19,980592 |
| 3,9811 | -0,294650 | -0,301838 | -0,304939 | -0,296435 | -0,308006 | -0,305473 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 5,0120 | -0,470039 | -0,481845 | -0,485972 | -0,472862 | -0,491299 | -0,486998 | 19,980590 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 6,3097 | -0,732315 | -0,751162 | -0,756560 | -0,736792 | -0,765522 | -0,758415 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 | 19,980592 |
| 7,9430 | -1,132368 | -1,161411 | -1,167875 | -1,139460 | -1,183147 | -1,171264 | 19,980590 | 19,980589 | 19,980590 | 19,980590 | 19,980590 | 19,980590 |
| 10,0000 | -1,796126 | -1,839174 | -1,845123 | -1,807363 | -1,871171 | -1,851131 | 19,980588 | 19,980588 | 19,980586 | 19,980587 | 19,980585 | 19,980585 |
| 12,5890 | -2,818473 | -2,876627 | -2,879109 | -2,836984 | -2,924369 | -2,890425 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 15,8490 | -4,480813 | -4,551695 | -4,540867 | -4,510996 | -4,619627 | -4,561705 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 19,9530 | -7,594987 | -7,685867 | -7,596632 | -7,605102 | -7,753353 | -7,574948 | 19,983090 | 19,983051 | 19,982831 | 19,982921 | 19,982940 | 19,982553 |
| 25,1190 | -11,449765 | -11,497292 | -11,390956 | -11,524228 | -11,614557 | -11,452486 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 31,6230 | -18,592204 | -18,593738 | -18,391680 | -18,698225 | -18,729863 | -18,481386 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 |
| 39,8110 | -31,172580 | -31,125606 | -30,813864 | -31,311367 | -31,268080 | -30,924506 | 19,980703 | 19,980710 | 19,980710 | 19,980702 | 19,980710 | 19,980711 |
| 50,1200 | -83,040409 | -83,184111 | -82,594759 | -83,322844 | -83,363761 | -82,475557 | 19,980673 | 19,979133 | 19,981985 | 19,979075 | 19,979048 | 19,981054 |
| 63,0970 | -62,596632 | -62,571447 | -62,069234 | -62,826447 | -62,714246 | -62,170602 | 19,980611 | 19,980551 | 19,980569 | 19,980609 | 19,980554 | 19,980560 |
| 79,4300 | -56,736760 | -56,673033 | -56,125766 | -56,960115 | -56,791030 | -56,195138 | 19,980594 | 19,980571 | 19,980579 | 19,980597 | 19,980575 | 19,980581 |
| 100,0000 | -92,592423 | -102,357239 | -97,548098 | -96,065545 | -104,173089 | -99,050702 | 19,979851 | 19,980927 | 19,980566 | 19,980618 | 19,980868 | 19,980730 |
| 125,8900 | -92,421014 | -91,985316 | -91,658944 | -92,981999 | -92,530479 | -91,008672 | 19,980668 | 19,980623 | 19,980764 | 19,980476 | 19,980995 | 19,980660 |
| 158,4900 | -105,921822 | -104,137146 | -99,430325 | -105,497532 | -103,781416 | -99,060387 | 19,980923 | 19,980624 | 19,980617 | 19,980798 | 19,979953 | 19,980195 |
| 199,5300 | -97,954197 | -96,105888 | -92,941771 | -97,445139 | -94,912378 | -93,694393 | 19,980550 | 19,981059 | 19,979899 | 19,980558 | 19,980944 | 19,980618 |
| 251,1900 | -120,008829 | -115,934412 | -118,908024 | -113,016000 | -115,779713 | -110,855074 | 19,981182 | 19,980878 | 19,981323 | 19,981289 | 19,980970 | 19,981222 |
| 316,2300 | -112,773593 | -113,180993 | -113,503697 | -108,489107 | -119,348926 | -110,857081 | 19,980811 | 19,980957 | 19,980894 | 19,981032 | 19,981517 | 19,980887 |
| 398,1100 | -110,299560 | -131,206351 | -120,854731 | -109,582242 | -113,443113 | -121,503341 | 19,980825 | 19,981020 | 19,980825 | 19,980945 | 19,980943 | 19,980802 |
| 501,2000 | -109,383322 | -104,826113 | -110,102932 | -120,189464 | -105,527519 | -115,301801 | 19,980806 | 19,981030 | 19,981063 | 19,980882 | 19,981961 | 19,980866 |
| 630,9700 | -114,312784 | -106,587172 | -121,949443 | -114,068539 | -108,152554 | -119,052078 | 19,980917 | 19,980935 | 19,981080 | 19,980971 | 19,980928 | 19,980937 |
| 794,3000 | -117,983396 | -114,088338 | -111,561558 | -115,196073 | -117,305469 | -115,083447 | 19,980937 | 19,980990 | 19,981217 | 19,980976 | 19,980958 | 19,981110 |
| 1000,0000 | -103,730649 | -99,868783 | -101,484449 | -102,244876 | -99,930998 | -102,073755 | 19,980955 | 19,980935 | 19,980986 | 19,980919 | 19,980995 | 19,980983 |





RPC-MAG frequency response: IBx_blue // IBy_green // IBz_red // --1fd3o2b6--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

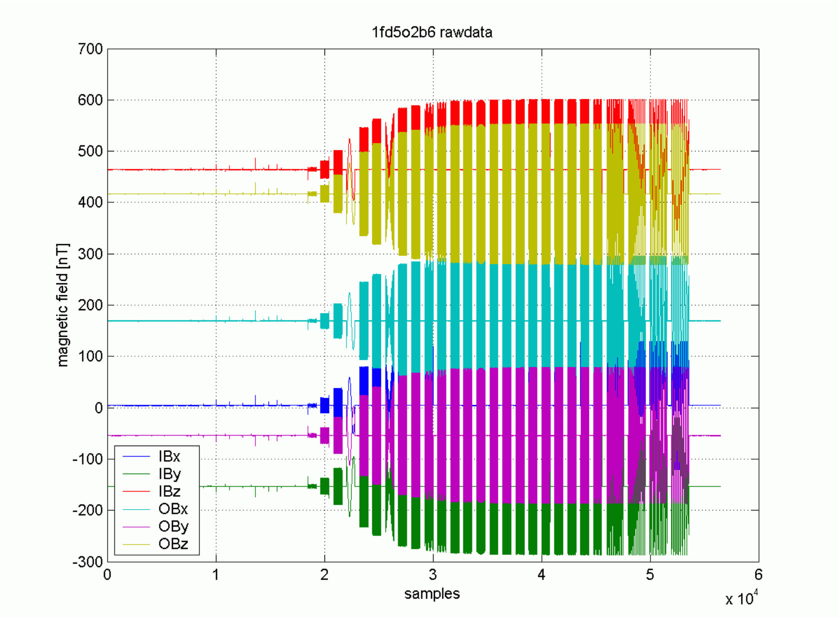
RPC-MAG frequency response: OBx_blue // OBy_green // OBz_red // --1fd3o2b6--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

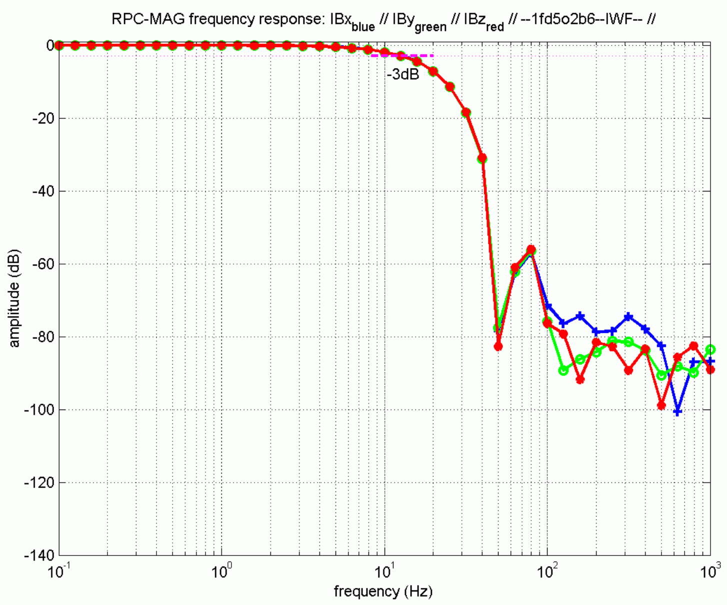
### 4.4.12 1fd5o2b6

Number // CCD-File // Annotation // IWF-Name
--18-- // 01-04-25 23-27-01 // fd_1 FS-Sensor FS-DPU // 1fd5o2b6

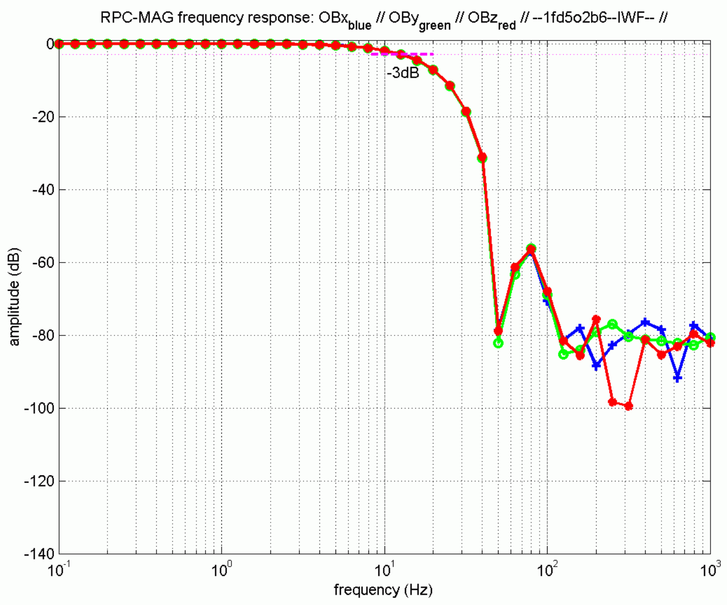
File: 1fd5o2b6

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980621 | 19,980821 | 19,980649 | 19,980516 | 19,980674 | 19,980548 |
| 0,1259 | -0,002223 | -0,002027 | -0,003549 | -0,000617 | -0,000821 | -0,003463 | 19,981057 | 19,980659 | 19,980655 | 19,980716 | 19,980658 | 19,980445 |
| 0,1585 | -0,004533 | -0,003797 | -0,004964 | -0,003404 | -0,003804 | -0,004282 | 19,980642 | 19,980902 | 19,980611 | 19,980381 | 19,980723 | 19,980826 |
| 0,1995 | -0,003392 | -0,006081 | -0,006191 | -0,004750 | -0,005222 | -0,005793 | 19,980647 | 19,980558 | 19,980538 | 19,980568 | 19,980570 | 19,980507 |
| 0,2512 | -0,004915 | -0,008092 | -0,007560 | -0,006200 | -0,006055 | -0,005928 | 19,980340 | 19,980694 | 19,980448 | 19,980553 | 19,980838 | 19,980227 |
| 0,3162 | -0,007178 | -0,009960 | -0,010106 | -0,009053 | -0,009175 | -0,009796 | 19,980471 | 19,980622 | 19,980582 | 19,980504 | 19,980527 | 19,980609 |
| 0,3981 | -0,010896 | -0,012079 | -0,011256 | -0,011407 | -0,011716 | -0,011131 | 19,980654 | 19,980651 | 19,980603 | 19,980628 | 19,980636 | 19,980525 |
| 0,5012 | -0,011673 | -0,016346 | -0,014937 | -0,012957 | -0,015197 | -0,013435 | 19,980580 | 19,980543 | 19,980574 | 19,980643 | 19,980553 | 19,980581 |
| 0,6310 | -0,016828 | -0,019564 | -0,019439 | -0,017734 | -0,017545 | -0,018348 | 19,980541 | 19,980575 | 19,980575 | 19,980572 | 19,980605 | 19,980571 |
| 0,7943 | -0,023239 | -0,025000 | -0,023945 | -0,025177 | -0,024035 | -0,023197 | 19,980637 | 19,980531 | 19,980691 | 19,980654 | 19,980544 | 19,980545 |
| 1,0000 | -0,030944 | -0,033239 | -0,034331 | -0,031474 | -0,031728 | -0,033131 | 19,980600 | 19,980602 | 19,980552 | 19,980509 | 19,980631 | 19,980585 |
| 1,2589 | -0,042463 | -0,045730 | -0,045422 | -0,044609 | -0,044943 | -0,045351 | 19,980569 | 19,980581 | 19,980577 | 19,980570 | 19,980613 | 19,980603 |
| 1,5849 | -0,059656 | -0,064630 | -0,064795 | -0,061599 | -0,063591 | -0,064516 | 19,980586 | 19,980578 | 19,980616 | 19,980585 | 19,980588 | 19,980623 |
| 1,9953 | -0,088892 | -0,092435 | -0,094078 | -0,090304 | -0,093082 | -0,092587 | 19,980601 | 19,980584 | 19,980591 | 19,980601 | 19,980583 | 19,980593 |
| 2,5119 | -0,130220 | -0,136720 | -0,136908 | -0,132193 | -0,137448 | -0,136902 | 19,980588 | 19,980588 | 19,980597 | 19,980594 | 19,980590 | 19,980587 |
| 3,1623 | -0,197522 | -0,204775 | -0,207268 | -0,200323 | -0,208580 | -0,206769 | 19,980591 | 19,980583 | 19,980582 | 19,980598 | 19,980588 | 19,980587 |
| 3,9811 | -0,302624 | -0,312775 | -0,314288 | -0,305396 | -0,316522 | -0,314182 | 19,980594 | 19,980584 | 19,980593 | 19,980587 | 19,980581 | 19,980591 |
| 5,0120 | -0,465619 | -0,480324 | -0,483385 | -0,469585 | -0,487870 | -0,483659 | 19,980586 | 19,980593 | 19,980589 | 19,980587 | 19,980591 | 19,980594 |
| 6,3097 | -0,723028 | -0,746159 | -0,748324 | -0,730152 | -0,758627 | -0,750102 | 19,980592 | 19,980588 | 19,980590 | 19,980590 | 19,980588 | 19,980588 |
| 7,9430 | -1,129465 | -1,161332 | -1,165110 | -1,139472 | -1,181022 | -1,168841 | 19,980583 | 19,980598 | 19,980587 | 19,980588 | 19,980592 | 19,980590 |
| 10,0000 | -1,939704 | -1,905010 | -1,917590 | -1,973721 | -1,941060 | -1,945294 | 19,979887 | 19,980204 | 19,980167 | 19,979812 | 19,980183 | 19,980103 |
| 12,5890 | -2,796327 | -2,859037 | -2,857365 | -2,819843 | -2,903560 | -2,868297 | 19,980588 | 19,980588 | 19,980590 | 19,980589 | 19,980589 | 19,980592 |
| 15,8490 | -4,438582 | -4,515787 | -4,498105 | -4,473939 | -4,579858 | -4,518526 | 19,980591 | 19,980590 | 19,980588 | 19,980591 | 19,980591 | 19,980587 |
| 19,9530 | -7,081750 | -7,162483 | -7,111676 | -7,139545 | -7,248522 | -7,148482 | 19,980634 | 19,980622 | 19,980633 | 19,980634 | 19,980626 | 19,980627 |
| 25,1190 | -11,411916 | -11,465747 | -11,357787 | -11,493978 | -11,577787 | -11,415538 | 19,980593 | 19,980594 | 19,980602 | 19,980614 | 19,980600 | 19,980601 |
| 31,6230 | -18,567441 | -18,573234 | -18,363161 | -18,677354 | -18,703117 | -18,449740 | 19,980598 | 19,980586 | 19,980591 | 19,980589 | 19,980588 | 19,980587 |
| 39,8110 | -31,163870 | -31,138077 | -30,814052 | -31,246286 | -31,323680 | -30,952731 | 19,980593 | 19,980547 | 19,980587 | 19,980632 | 19,980556 | 19,980617 |
| 50,1200 | -78,564500 | -77,625392 | -82,719388 | -78,645218 | -82,146557 | -78,866601 | 19,989858 | 19,982362 | 19,978168 | 19,984500 | 19,988163 | 19,981716 |
| 63,0970 | -62,636819 | -62,115652 | -61,131356 | -62,456145 | -63,290460 | -61,360767 | 19,981234 | 19,980945 | 19,981550 | 19,980598 | 19,979985 | 19,980696 |
| 79,4300 | -57,051847 | -56,508778 | -56,007485 | -56,967829 | -56,316508 | -56,458269 | 19,980450 | 19,980797 | 19,980874 | 19,980583 | 19,980733 | 19,980822 |
| 100,0000 | -71,377620 | -75,786703 | -76,393034 | -70,716188 | -68,859024 | -67,941174 | 19,978687 | 19,980574 | 19,980517 | 19,980598 | 19,984014 | 19,984247 |
| 125,8900 | -76,487450 | -89,320647 | -79,239002 | -81,360576 | -85,238869 | -81,522896 | 19,980612 | 19,980102 | 19,980822 | 19,980352 | 19,980549 | 19,980542 |
| 158,4900 | -74,327723 | -86,166056 | -91,820731 | -78,087449 | -84,035023 | -85,594205 | 19,979984 | 19,980612 | 19,981152 | 19,981470 | 19,979745 | 19,980803 |
| 199,5300 | -78,818924 | -84,224153 | -81,595911 | -88,589706 | -79,063870 | -75,680414 | 19,980559 | 19,980709 | 19,980767 | 19,980531 | 19,979976 | 19,980577 |
| 251,1900 | -78,498168 | -81,235795 | -82,864188 | -82,861175 | -76,920261 | -98,403456 | 19,980841 | 19,980705 | 19,980288 | 19,980570 | 19,980743 | 19,980780 |
| 316,2300 | -74,501550 | -81,489636 | -89,242315 | -79,601158 | -80,451322 | -99,526521 | 19,980478 | 19,980729 | 19,980931 | 19,980576 | 19,980239 | 19,980658 |
| 398,1100 | -77,922753 | -83,701311 | -83,362282 | -76,471544 | -81,143536 | -81,263618 | 19,980644 | 19,980248 | 19,980548 | 19,980564 | 19,980389 | 19,980655 |
| 501,2000 | -82,568662 | -90,692367 | -98,980320 | -78,451569 | -81,563374 | -85,438828 | 19,980864 | 19,980573 | 19,980600 | 19,980242 | 19,980454 | 19,980412 |
| 630,9700 | -100,588033 | -88,083019 | -85,701920 | -91,756229 | -82,274857 | -83,078757 | 19,981324 | 19,980717 | 19,980605 | 19,980720 | 19,980613 | 19,980897 |
| 794,3000 | -87,003149 | -89,896125 | -82,508822 | -77,385904 | -82,774039 | -79,760614 | 19,980631 | 19,980577 | 19,980702 | 19,980576 | 19,980792 | 19,980765 |
| 1000,0000 | -86,844857 | -83,483469 | -89,079473 | -81,096636 | -80,651863 | -82,255517 | 19,980613 | 19,980624 | 19,980610 | 19,980639 | 19,980636 | 19,980676 |





RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd5o2b6--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

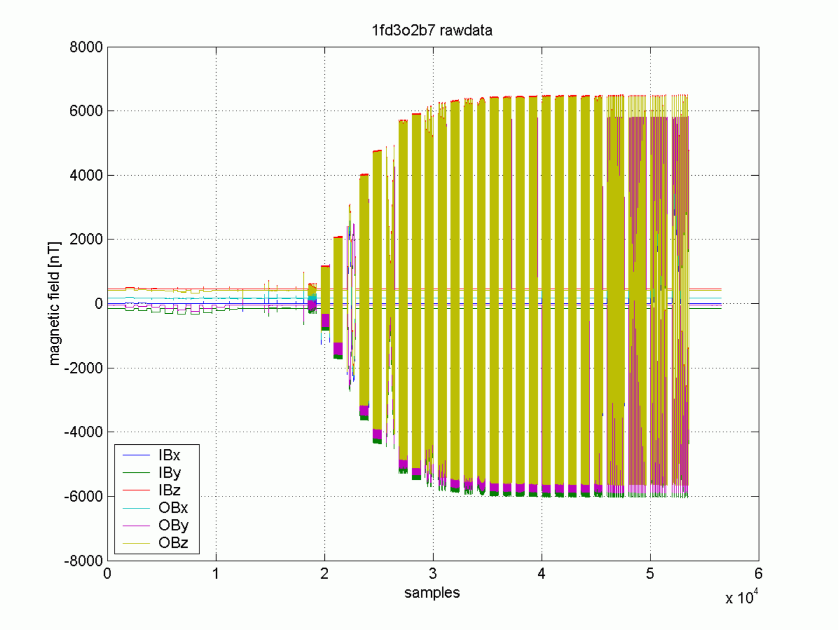
RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd5o2b6--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

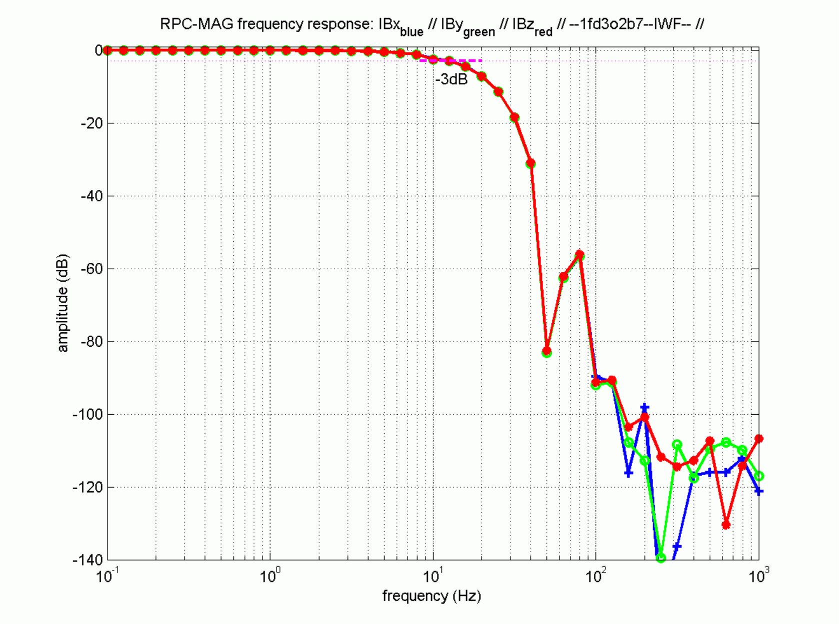
4.4.13 1fd3o2b7

Number // CCD-File // Annotation // IWF-Name
--19-- // 01-04-26 00-14-21 // fd_h FS-Sensor FS-DPU // 1fd3o2b7

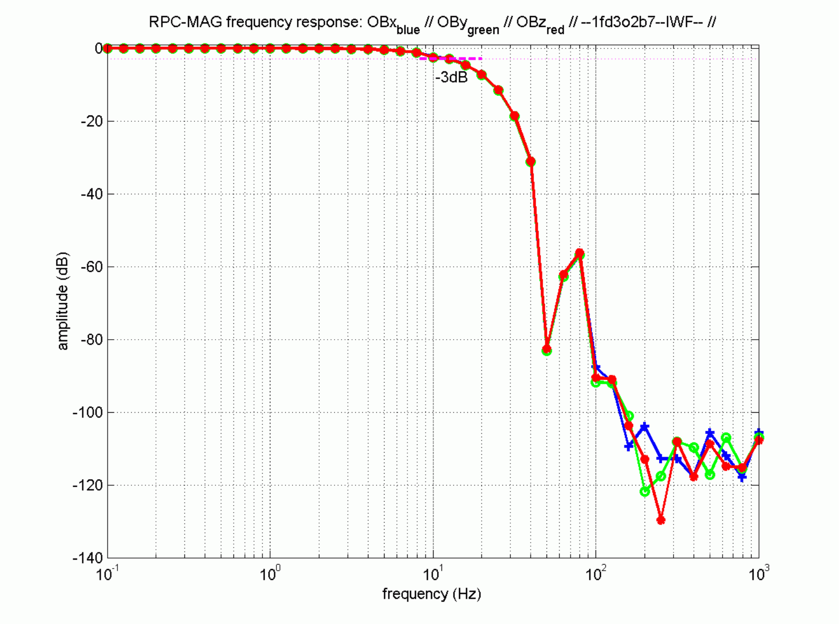
**File: 1fd3o2b7**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980579 | 19,980578 | 19,980580 | 19,980576 | 19,980577 | 19,980579 |
| 0,1259 | -0,006758 | -0,006753 | -0,006771 | -0,006788 | -0,006776 | -0,006729 | 19,980638 | 19,980647 | 19,980643 | 19,980641 | 19,980646 | 19,980643 |
| 0,1585 | -0,016604 | -0,016551 | -0,016603 | -0,016604 | -0,016573 | -0,016564 | 19,980639 | 19,980637 | 19,980638 | 19,980638 | 19,980637 | 19,980639 |
| 0,1995 | -0,009397 | -0,009334 | -0,009474 | -0,009410 | -0,009379 | -0,009403 | 19,980606 | 19,980611 | 19,980610 | 19,980609 | 19,980611 | 19,980611 |
| 0,2512 | -0,036555 | -0,036560 | -0,036691 | -0,036645 | -0,036606 | -0,036642 | 19,980518 | 19,980524 | 19,980522 | 19,980523 | 19,980521 | 19,980520 |
| 0,3162 | -0,027517 | -0,027480 | -0,027643 | -0,027569 | -0,027534 | -0,027574 | 19,980586 | 19,980587 | 19,980586 | 19,980586 | 19,980584 | 19,980583 |
| 0,3981 | -0,022201 | -0,022175 | -0,022393 | -0,022303 | -0,022278 | -0,022319 | 19,980577 | 19,980574 | 19,980577 | 19,980577 | 19,980574 | 19,980578 |
| 0,5012 | -0,024490 | -0,024464 | -0,024758 | -0,024576 | -0,024599 | -0,024655 | 19,980573 | 19,980572 | 19,980573 | 19,980574 | 19,980571 | 19,980574 |
| 0,6310 | -0,019042 | -0,019034 | -0,019432 | -0,019156 | -0,019288 | -0,019318 | 19,980585 | 19,980584 | 19,980584 | 19,980585 | 19,980583 | 19,980584 |
| 0,7943 | -0,034832 | -0,034860 | -0,035407 | -0,034948 | -0,035236 | -0,035281 | 19,980592 | 19,980590 | 19,980589 | 19,980591 | 19,980590 | 19,980590 |
| 1,0000 | -0,039390 | -0,039530 | -0,040196 | -0,039542 | -0,040051 | -0,040077 | 19,980593 | 19,980593 | 19,980592 | 19,980592 | 19,980593 | 19,980593 |
| 1,2589 | -0,056473 | -0,056865 | -0,057680 | -0,056686 | -0,057643 | -0,057569 | 19,980588 | 19,980589 | 19,980588 | 19,980587 | 19,980588 | 19,980588 |
| 1,5849 | -0,077751 | -0,078487 | -0,079516 | -0,078090 | -0,079642 | -0,079437 | 19,980589 | 19,980589 | 19,980590 | 19,980588 | 19,980589 | 19,980590 |
| 1,9953 | -0,105693 | -0,107085 | -0,108417 | -0,106175 | -0,108809 | -0,108375 | 19,980586 | 19,980586 | 19,980587 | 19,980586 | 19,980586 | 19,980586 |
| 2,5119 | -0,143639 | -0,146138 | -0,147883 | -0,144389 | -0,148787 | -0,147934 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 3,1623 | -0,234151 | -0,238422 | -0,240762 | -0,235294 | -0,242454 | -0,240985 | 19,980591 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 |
| 3,9811 | -0,315630 | -0,322854 | -0,325979 | -0,317418 | -0,329008 | -0,326508 | 19,980590 | 19,980591 | 19,980591 | 19,980590 | 19,980590 | 19,980591 |
| 5,0120 | -0,501320 | -0,513122 | -0,517313 | -0,504130 | -0,522540 | -0,518301 | 19,980591 | 19,980590 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 6,3097 | -0,772195 | -0,791042 | -0,796461 | -0,776648 | -0,805379 | -0,798273 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 | 19,980591 |
| 7,9430 | -1,162241 | -1,191290 | -1,197796 | -1,169347 | -1,212990 | -1,201120 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 |
| 10,0000 | -2,433751 | -2,539034 | -2,566007 | -2,421896 | -2,625396 | -2,600150 | 19,978150 | 19,977903 | 19,977821 | 19,978241 | 19,977839 | 19,977718 |
| 12,5890 | -2,863761 | -2,921881 | -2,924403 | -2,882318 | -2,969577 | -2,935687 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 |
| 15,8490 | -4,500878 | -4,571792 | -4,560958 | -4,531114 | -4,639643 | -4,581727 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 |
| 19,9530 | -7,135529 | -7,208759 | -7,165420 | -7,183626 | -7,300770 | -7,202270 | 19,980655 | 19,980655 | 19,980655 | 19,980655 | 19,980655 | 19,980655 |
| 25,1190 | -11,450198 | -11,497658 | -11,391326 | -11,524628 | -11,614958 | -11,452801 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 |
| 31,6230 | -18,615819 | -18,616995 | -18,415071 | -18,721489 | -18,753255 | -18,504813 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 |
| 39,8110 | -31,206089 | -31,165311 | -30,853900 | -31,343169 | -31,307932 | -30,963720 | 19,980581 | 19,980585 | 19,980586 | 19,980580 | 19,980585 | 19,980587 |
| 50,1200 | -83,038629 | -83,097737 | -82,573343 | -83,247033 | -83,206671 | -82,597995 | 19,981252 | 19,981268 | 19,981023 | 19,981334 | 19,981230 | 19,981071 |
| 63,0970 | -62,664226 | -62,591074 | -62,140748 | -62,841189 | -62,725130 | -62,270060 | 19,980587 | 19,980610 | 19,980612 | 19,980553 | 19,980639 | 19,980595 |
| 79,4300 | -56,738616 | -56,643115 | -56,101642 | -56,942628 | -56,763765 | -56,176593 | 19,980588 | 19,980587 | 19,980637 | 19,980620 | 19,980581 | 19,980580 |
| 100,0000 | -89,752466 | -91,968524 | -91,297382 | -87,589947 | -91,733471 | -90,512058 | 19,981158 | 19,981516 | 19,981597 | 19,983551 | 19,981856 | 19,981374 |
| 125,8900 | -91,408303 | -91,241868 | -90,625363 | -91,862167 | -92,021981 | -91,021498 | 19,980445 | 19,980538 | 19,980631 | 19,980788 | 19,980646 | 19,980859 |
| 158,4900 | -116,179169 | -107,871487 | -103,580074 | -109,595561 | -101,079140 | -103,694449 | 19,980462 | 19,980261 | 19,980473 | 19,980261 | 19,980346 | 19,980377 |
| 199,5300 | -98,095109 | -112,825882 | -100,837732 | -103,859316 | -121,733241 | -112,940787 | 19,980239 | 19,979766 | 19,979463 | 19,980460 | 19,979415 | 19,980487 |
| 251,1900 | -152,606165 | -139,459139 | -111,772657 | -112,815412 | -117,562674 | -129,711241 | 19,980668 | 19,980602 | 19,980767 | 19,980707 | 19,980397 | 19,980748 |
| 316,2300 | -136,521268 | -108,357409 | -114,426518 | -112,850498 | -108,245369 | -108,129830 | 19,980293 | 19,980532 | 19,980513 | 19,980633 | 19,980430 | 19,980099 |
| 398,1100 | -116,983537 | -117,566023 | -112,783103 | -117,748807 | -109,739330 | -117,808591 | 19,980655 | 19,980501 | 19,981094 | 19,980665 | 19,980555 | 19,980626 |
| 501,2000 | -116,021365 | -109,479241 | -107,353946 | -105,615814 | -117,239379 | -108,765524 | 19,980556 | 19,980344 | 19,980884 | 19,980621 | 19,980607 | 19,980598 |
| 630,9700 | -115,990493 | -107,690455 | -130,520196 | -112,057286 | -106,941678 | -114,948193 | 19,980679 | 19,980654 | 19,980401 | 19,980598 | 19,980553 | 19,980451 |
| 794,3000 | -112,268056 | -109,829786 | -114,367138 | -118,027665 | -115,392006 | -115,272133 | 19,980505 | 19,980649 | 19,980485 | 19,980899 | 19,980608 | 19,980880 |
| 1000,0000 | -121,215554 | -117,054246 | -106,793721 | -105,679892 | -107,030113 | -107,789502 | 19,980676 | 19,980585 | 19,980631 | 19,980523 | 19,980519 | 19,980613 |





RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd3o2b7--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

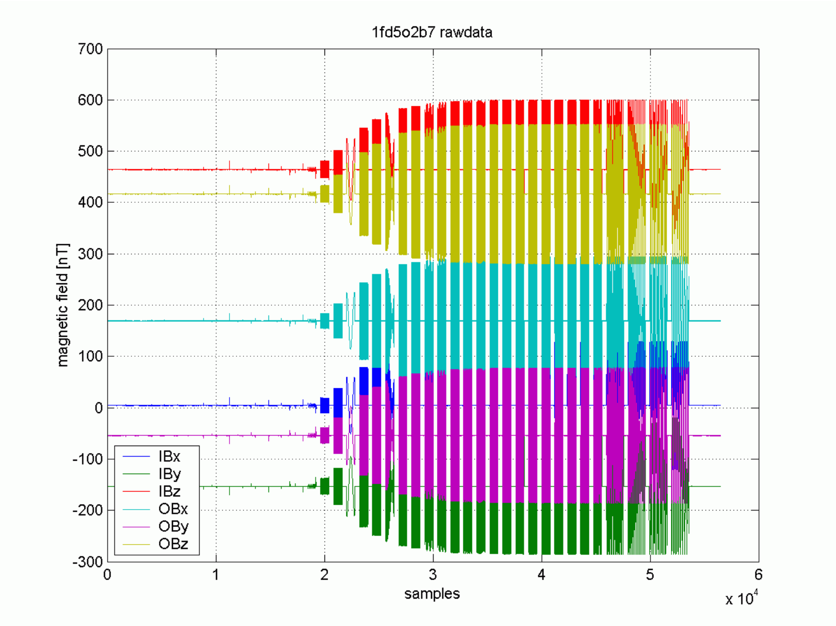
RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd3o2b7--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

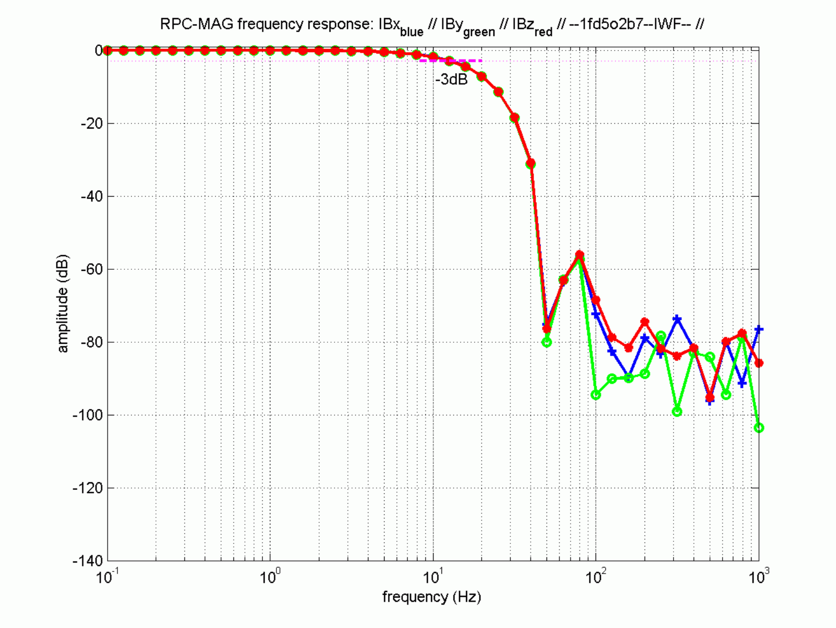
### 4.4.14 1fd5o2b7

Number // CCD-File // Annotation // IWF-Name
--20-- // 01-04-26 01-01-41 // fd_1 FS-Sensor FS-DPU // 1fd5o2b7

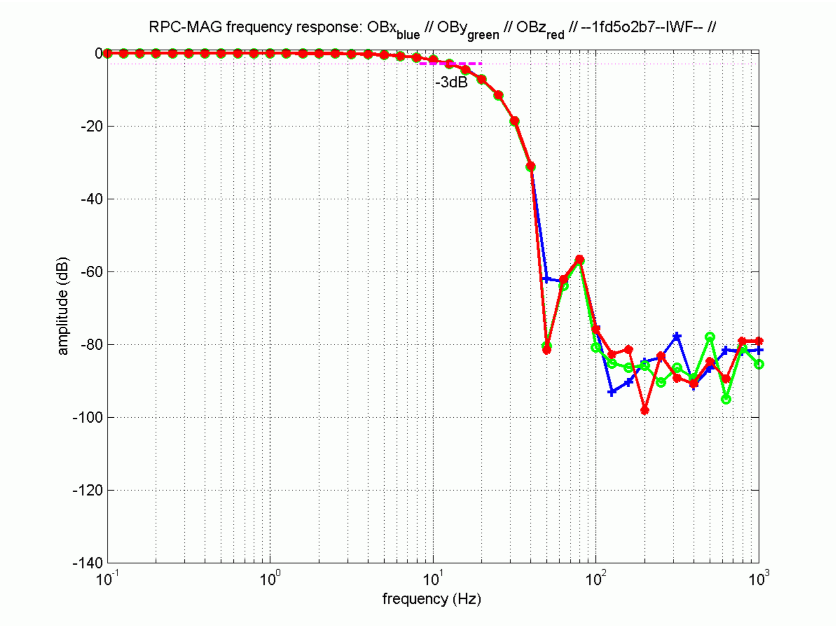
File: 1fd5o2b7

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980803 | 19,980511 | 19,980771 | 19,980969 | 19,980703 | 19,980838 |
| 0,1259 | -0,003752 | -0,000945 | -0,002415 | -0,003162 | -0,002368 | -0,001845 | 19,980647 | 19,980616 | 19,980619 | 19,980681 | 19,980558 | 19,980615 |
| 0,1585 | -0,003833 | -0,004329 | -0,004435 | -0,004780 | -0,005706 | -0,005057 | 19,980598 | 19,980555 | 19,980550 | 19,980553 | 19,980618 | 19,980536 |
| 0,1995 | -0,008753 | -0,006896 | -0,007410 | -0,008474 | -0,008381 | -0,007335 | 19,980473 | 19,980553 | 19,980567 | 19,980583 | 19,980604 | 19,980588 |
| 0,2512 | -0,011494 | -0,008426 | -0,009425 | -0,009038 | -0,009603 | -0,010724 | 19,980306 | 19,980562 | 19,980730 | 19,980552 | 19,980515 | 19,980652 |
| 0,3162 | -0,011143 | -0,012022 | -0,009953 | -0,012913 | -0,013419 | -0,010691 | 19,980535 | 19,980586 | 19,980606 | 19,980457 | 19,980587 | 19,980583 |
| 0,3981 | -0,013454 | -0,013421 | -0,012730 | -0,013582 | -0,013789 | -0,013069 | 19,980497 | 19,980651 | 19,980562 | 19,980515 | 19,980529 | 19,980391 |
| 0,5012 | -0,015620 | -0,016728 | -0,015519 | -0,016440 | -0,018368 | -0,015848 | 19,980547 | 19,980583 | 19,980477 | 19,980523 | 19,980506 | 19,980464 |
| 0,6310 | -0,021761 | -0,019744 | -0,020395 | -0,021100 | -0,021133 | -0,021410 | 19,980567 | 19,980568 | 19,980615 | 19,980584 | 19,980576 | 19,980646 |
| 0,7943 | -0,026640 | -0,026176 | -0,026296 | -0,027034 | -0,027138 | -0,026641 | 19,980608 | 19,980580 | 19,980594 | 19,980576 | 19,980580 | 19,980575 |
| 1,0000 | -0,034148 | -0,033738 | -0,036422 | -0,035661 | -0,034660 | -0,036709 | 19,980592 | 19,980605 | 19,980572 | 19,980622 | 19,980610 | 19,980616 |
| 1,2589 | -0,047709 | -0,048348 | -0,049102 | -0,048673 | -0,050544 | -0,048820 | 19,980564 | 19,980591 | 19,980581 | 19,980568 | 19,980598 | 19,980591 |
| 1,5849 | -0,069030 | -0,069065 | -0,068410 | -0,068230 | -0,070996 | -0,068902 | 19,980583 | 19,980574 | 19,980575 | 19,980591 | 19,980564 | 19,980591 |
| 1,9953 | -0,100103 | -0,100725 | -0,101736 | -0,100557 | -0,104098 | -0,102053 | 19,980582 | 19,980582 | 19,980587 | 19,980573 | 19,980580 | 19,980597 |
| 2,5119 | -0,145212 | -0,147327 | -0,147522 | -0,146347 | -0,150243 | -0,148104 | 19,980601 | 19,980588 | 19,980576 | 19,980588 | 19,980582 | 19,980595 |
| 3,1623 | -0,213295 | -0,218322 | -0,219148 | -0,215160 | -0,223079 | -0,220692 | 19,980577 | 19,980592 | 19,980591 | 19,980576 | 19,980592 | 19,980585 |
| 3,9811 | -0,321637 | -0,329503 | -0,330751 | -0,324278 | -0,336498 | -0,331151 | 19,980587 | 19,980585 | 19,980593 | 19,980587 | 19,980585 | 19,980592 |
| 5,0120 | -0,487280 | -0,499247 | -0,501884 | -0,490979 | -0,509495 | -0,503906 | 19,980588 | 19,980585 | 19,980589 | 19,980590 | 19,980588 | 19,980592 |
| 6,3097 | -0,747267 | -0,766413 | -0,769938 | -0,752486 | -0,780728 | -0,771898 | 19,980589 | 19,980588 | 19,980592 | 19,980594 | 19,980585 | 19,980597 |
| 7,9430 | -1,149816 | -1,178211 | -1,181761 | -1,157793 | -1,200197 | -1,186245 | 19,980587 | 19,980590 | 19,980588 | 19,980587 | 19,980583 | 19,980586 |
| 10,0000 | -1,786935 | -1,827802 | -1,831992 | -1,798530 | -1,860137 | -1,839536 | 19,980601 | 19,980604 | 19,980599 | 19,980600 | 19,980611 | 19,980601 |
| 12,5890 | -2,807980 | -2,865653 | -2,864264 | -2,828064 | -2,912764 | -2,876488 | 19,980589 | 19,980588 | 19,980588 | 19,980589 | 19,980588 | 19,980586 |
| 15,8490 | -4,446215 | -4,520331 | -4,502879 | -4,481148 | -4,586287 | -4,525274 | 19,980588 | 19,980586 | 19,980587 | 19,980584 | 19,980588 | 19,980587 |
| 19,9530 | -7,094990 | -7,174693 | -7,122019 | -7,144021 | -7,263232 | -7,163250 | 19,980540 | 19,980599 | 19,980578 | 19,980518 | 19,980575 | 19,980605 |
| 25,1190 | -11,431439 | -11,484308 | -11,367375 | -11,511031 | -11,599377 | -11,430586 | 19,980586 | 19,980589 | 19,980590 | 19,980587 | 19,980589 | 19,980586 |
| 31,6230 | -18,584577 | -18,591901 | -18,379939 | -18,690310 | -18,730381 | -18,476145 | 19,980596 | 19,980581 | 19,980590 | 19,980604 | 19,980573 | 19,980592 |
| 39,8110 | -31,081686 | -31,130078 | -30,799458 | -31,287467 | -31,310679 | -30,916517 | 19,981304 | 19,981280 | 19,981261 | 19,981289 | 19,981225 | 19,981276 |
| 50,1200 | -75,288894 | -79,997610 | -76,472454 | -62,069255 | -80,442685 | -81,529540 | 19,987349 | 19,979648 | 19,983853 | 19,981939 | 19,975693 | 19,979441 |
| 63,0970 | -63,612105 | -62,923640 | -63,169900 | -62,717749 | -63,838407 | -62,111432 | 19,980313 | 19,981121 | 19,979289 | 19,979033 | 19,980332 | 19,979536 |
| 79,4300 | -56,186198 | -57,304251 | -56,062102 | -56,781205 | -56,918601 | -56,520890 | 19,980995 | 19,980663 | 19,980228 | 19,980540 | 19,980724 | 19,980180 |
| 100,0000 | -72,333016 | -94,493137 | -68,518964 | -75,323402 | -80,891995 | -75,835727 | 19,983384 | 19,981052 | 19,983667 | 19,979018 | 19,981118 | 19,982439 |
| 125,8900 | -82,637109 | -90,018252 | -78,801080 | -93,096873 | -85,227704 | -82,803462 | 19,980569 | 19,979782 | 19,981583 | 19,979871 | 19,981008 | 19,981816 |
| 158,4900 | -89,749269 | -89,914899 | -81,710946 | -90,502872 | -86,368713 | -81,463509 | 19,981024 | 19,980526 | 19,981570 | 19,981551 | 19,980593 | 19,980582 |
| 199,5300 | -78,952523 | -88,782170 | -74,589252 | -84,923430 | -85,921297 | -98,194518 | 19,980724 | 19,980562 | 19,979968 | 19,980820 | 19,980737 | 19,981257 |
| 251,1900 | -83,380789 | -78,293841 | -81,853429 | -83,639181 | -90,546465 | -83,233012 | 19,980439 | 19,980229 | 19,980667 | 19,980713 | 19,980699 | 19,980149 |
| 316,2300 | -73,695889 | -99,156099 | -83,918052 | -77,691384 | -86,474980 | -89,276148 | 19,980583 | 19,980046 | 19,980602 | 19,980541 | 19,980703 | 19,980488 |
| 398,1100 | -81,965644 | -83,050467 | -81,698847 | -91,406680 | -89,366543 | -90,758762 | 19,980592 | 19,980675 | 19,980516 | 19,980415 | 19,980754 | 19,980621 |
| 501,2000 | -96,217873 | -84,195501 | -95,200505 | -86,609134 | -78,045717 | -84,698108 | 19,980581 | 19,980562 | 19,980560 | 19,980564 | 19,980445 | 19,981125 |
| 630,9700 | -80,183026 | -94,505006 | -79,942455 | -81,538485 | -95,143007 | -89,410840 | 19,980569 | 19,980610 | 19,980672 | 19,980659 | 19,980528 | 19,980334 |
| 794,3000 | -91,512164 | -78,827786 | -77,627731 | -82,091706 | -80,954771 | -79,167006 | 19,980683 | 19,980574 | 19,980773 | 19,980646 | 19,980431 | 19,980635 |
| 1000,0000 | -76,530626 | -103,572974 | -85,798811 | -81,588368 | -85,521400 | -79,152269 | 19,980283 | 19,980539 | 19,980594 | 19,980697 | 19,980574 | 19,980627 |





RPC-MAG frequency response: IBx blue // IBy green // IBz red // --1fd5o2b7--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB
0
-20
-40
-60
-80
-100
-120
-140
10^-1
10^0
10^1
10^2
10^3

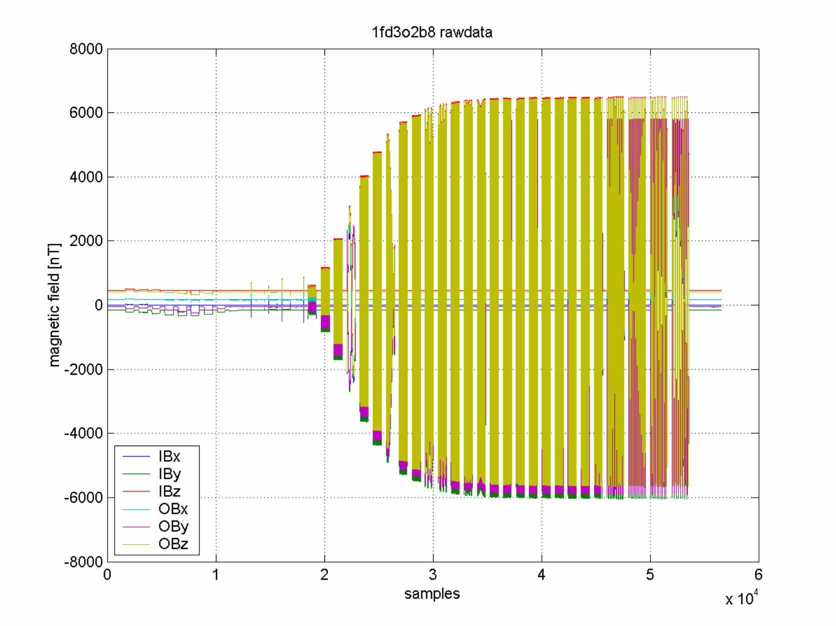
RPC-MAG frequency response: OBx blue // OBy green // OBz red // --1fd5o2b7--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB
0
-20
-40
-60
-80
-100
-120
-140
10^-1
10^0
10^1
10^2
10^3

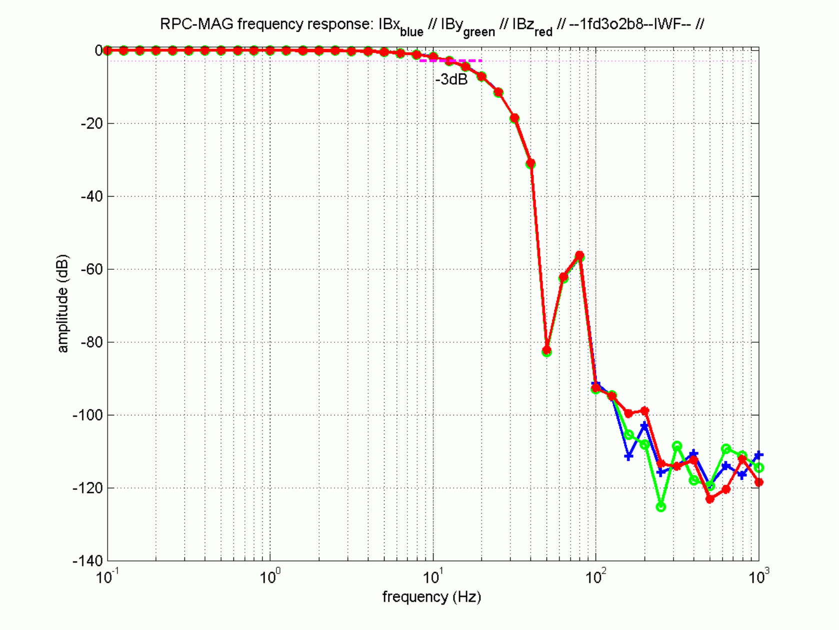
4.4.15 1fd3o2b8

Number // CCD-File // Annotation // IWF-Name
--21-- // 01-04-26 01-49-02 // fd_h FS-Sensor FS-DPU // 1fd3o2b8

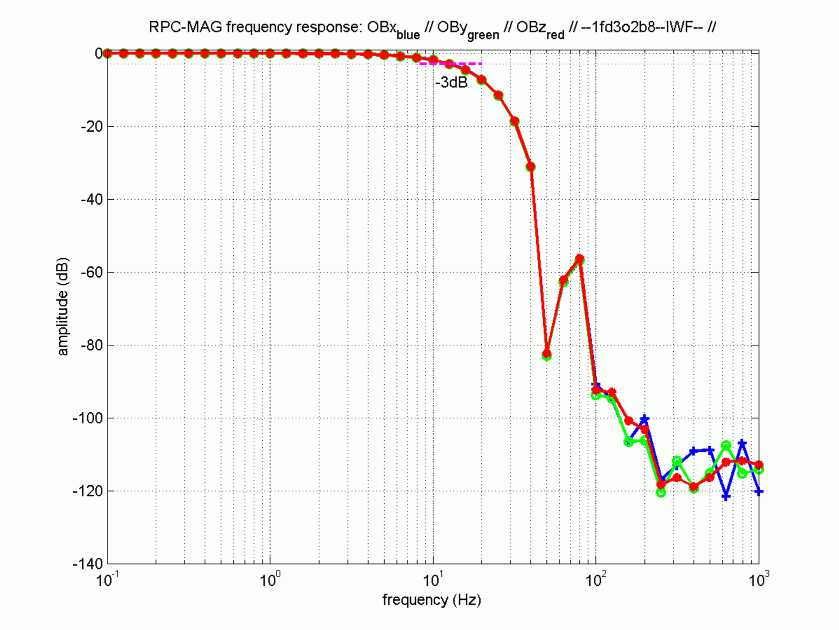
**File: 1fd3o2b8**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980538 | 19,980536 | 19,980538 | 19,980542 | 19,980537 | 19,980537 |
| 0,1259 | -0,002403 | -0,002399 | -0,002460 | -0,002389 | -0,002438 | -0,002448 | 19,980666 | 19,980673 | 19,980674 | 19,980672 | 19,980673 | 19,980675 |
| 0,1585 | -0,013803 | -0,013838 | -0,013921 | -0,013837 | -0,013847 | -0,013907 | 19,980611 | 19,980610 | 19,980610 | 19,980610 | 19,980606 | 19,980610 |
| 0,1995 | -0,004588 | -0,004517 | -0,004670 | -0,004615 | -0,004566 | -0,004624 | 19,980615 | 19,980613 | 19,980611 | 19,980609 | 19,980615 | 19,980611 |
| 0,2512 | -0,027781 | -0,027795 | -0,027942 | -0,027807 | -0,027861 | -0,027914 | 19,980522 | 19,980520 | 19,980516 | 19,980523 | 19,980520 | 19,980515 |
| 0,3162 | -0,023231 | -0,023172 | -0,023406 | -0,023262 | -0,023243 | -0,023362 | 19,980583 | 19,980586 | 19,980587 | 19,980585 | 19,980585 | 19,980588 |
| 0,3981 | -0,017668 | -0,017659 | -0,017958 | -0,017720 | -0,017756 | -0,017893 | 19,980587 | 19,980589 | 19,980590 | 19,980588 | 19,980588 | 19,980588 |
| 0,5012 | -0,036036 | -0,036003 | -0,036338 | -0,036106 | -0,036142 | -0,036269 | 19,980571 | 19,980571 | 19,980570 | 19,980572 | 19,980567 | 19,980572 |
| 0,6310 | -0,032402 | -0,032411 | -0,032824 | -0,032512 | -0,032644 | -0,032732 | 19,980585 | 19,980585 | 19,980585 | 19,980585 | 19,980584 | 19,980585 |
| 0,7943 | -0,024068 | -0,024154 | -0,024670 | -0,024203 | -0,024503 | -0,024586 | 19,980584 | 19,980583 | 19,980583 | 19,980584 | 19,980583 | 19,980583 |
| 1,0000 | -0,038158 | -0,038383 | -0,039025 | -0,038285 | -0,038906 | -0,038933 | 19,980584 | 19,980584 | 19,980585 | 19,980585 | 19,980584 | 19,980585 |
| 1,2589 | -0,041583 | -0,041982 | -0,042790 | -0,041774 | -0,042751 | -0,042704 | 19,980587 | 19,980586 | 19,980586 | 19,980585 | 19,980587 | 19,980586 |
| 1,5849 | -0,072819 | -0,073611 | -0,074677 | -0,073139 | -0,074786 | -0,074621 | 19,980591 | 19,980591 | 19,980592 | 19,980591 | 19,980591 | 19,980592 |
| 1,9953 | -0,099916 | -0,101341 | -0,102691 | -0,100378 | -0,103075 | -0,102669 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 | 19,980590 |
| 2,5119 | -0,137854 | -0,140374 | -0,142153 | -0,138588 | -0,143003 | -0,142233 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 |
| 3,1623 | -0,213242 | -0,217596 | -0,219986 | -0,214347 | -0,221648 | -0,220233 | 19,980587 | 19,980589 | 19,980589 | 19,980587 | 19,980588 | 19,980588 |
| 3,9811 | -0,312712 | -0,319927 | -0,323072 | -0,314506 | -0,326108 | -0,323609 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 |
| 5,0120 | -0,492753 | -0,504578 | -0,508793 | -0,495580 | -0,514008 | -0,509796 | 19,980590 | 19,980590 | 19,980590 | 19,980589 | 19,980590 | 19,980590 |
| 6,3097 | -0,763547 | -0,782396 | -0,787808 | -0,767973 | -0,796740 | -0,789672 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 |
| 7,9430 | -1,168229 | -1,197322 | -1,203840 | -1,175336 | -1,219063 | -1,207193 | 19,980589 | 19,980589 | 19,980589 | 19,980588 | 19,980589 | 19,980589 |
| 10,0000 | -1,797583 | -1,841124 | -1,847464 | -1,808748 | -1,873494 | -1,853617 | 19,980559 | 19,980561 | 19,980560 | 19,980554 | 19,980559 | 19,980567 |
| 12,5890 | -2,838404 | -2,896639 | -2,899127 | -2,856980 | -2,944324 | -2,910479 | 19,980588 | 19,980588 | 19,980588 | 19,980588 | 19,980588 | 19,980588 |
| 15,8490 | -4,489199 | -4,560096 | -4,549306 | -4,519404 | -4,627967 | -4,570119 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 | 19,980589 |
| 19,9530 | -7,148177 | -7,219023 | -7,175701 | -7,196611 | -7,311357 | -7,212708 | 19,980582 | 19,980580 | 19,980580 | 19,980581 | 19,980580 | 19,980580 |
| 25,1190 | -11,483638 | -11,531182 | -11,424802 | -11,558120 | -11,648474 | -11,486279 | 19,980588 | 19,980588 | 19,980588 | 19,980588 | 19,980588 | 19,980588 |
| 31,6230 | -18,629256 | -18,630693 | -18,428757 | -18,735283 | -18,766813 | -18,518520 | 19,980588 | 19,980588 | 19,980588 | 19,980588 | 19,980588 | 19,980588 |
| 39,8110 | -31,181458 | -31,138140 | -30,827496 | -31,318394 | -31,281557 | -30,937302 | 19,980600 | 19,980596 | 19,980595 | 19,980600 | 19,980596 | 19,980595 |
| 50,1200 | -82,498331 | -82,854407 | -82,224491 | -82,649218 | -82,915390 | -82,331070 | 19,980179 | 19,980680 | 19,980580 | 19,980396 | 19,980490 | 19,980282 |
| 63,0970 | -62,668892 | -62,629510 | -62,110787 | -62,817353 | -62,752724 | -62,223901 | 19,980570 | 19,980559 | 19,980586 | 19,980561 | 19,980586 | 19,980557 |
| 79,4300 | -56,765373 | -56,712190 | -56,158758 | -56,968522 | -56,841470 | -56,238559 | 19,980596 | 19,980584 | 19,980588 | 19,980594 | 19,980590 | 19,980592 |
| 100,0000 | -91,406883 | -92,971260 | -92,667479 | -90,821946 | -93,729357 | -92,469782 | 19,979002 | 19,979319 | 19,978300 | 19,978409 | 19,980235 | 19,978708 |
| 125,8900 | -95,115236 | -94,623899 | -94,917653 | -94,911386 | -94,627937 | -93,063039 | 19,983331 | 19,983717 | 19,983581 | 19,983597 | 19,983708 | 19,983375 |
| 158,4900 | -111,522411 | -105,505774 | -99,679855 | -106,409620 | -106,620906 | -100,777600 | 19,980485 | 19,980744 | 19,980594 | 19,980284 | 19,980185 | 19,980837 |
| 199,5300 | -102,917600 | -108,082337 | -98,921934 | -100,247996 | -106,289647 | -103,248488 | 19,980119 | 19,981646 | 19,979618 | 19,979650 | 19,981798 | 19,980779 |
| 251,1900 | -115,874987 | -125,329019 | -113,399652 | -116,943050 | -120,487034 | -118,295605 | 19,980392 | 19,980509 | 19,980126 | 19,980251 | 19,980420 | 19,980096 |
| 316,2300 | -114,082912 | -108,617131 | -114,177717 | -113,148236 | -111,864752 | -116,456040 | 19,980668 | 19,980529 | 19,980422 | 19,980661 | 19,980472 | 19,980681 |
| 398,1100 | -110,706994 | -118,001832 | -112,453498 | -109,141661 | -119,253714 | -118,942464 | 19,980547 | 19,980459 | 19,980750 | 19,980671 | 19,981035 | 19,980607 |
| 501,2000 | -119,279784 | -119,470581 | -123,112717 | -108,928001 | -115,186284 | -116,356425 | 19,980771 | 19,980619 | 19,980570 | 19,980435 | 19,980627 | 19,980628 |
| 630,9700 | -113,964766 | -109,232205 | -120,415953 | -121,695743 | -107,556108 | -112,121135 | 19,980587 | 19,980716 | 19,980647 | 19,980585 | 19,980597 | 19,980589 |
| 794,3000 | -116,693211 | -111,322516 | -112,227898 | -106,990341 | -115,362173 | -111,805982 | 19,980587 | 19,980586 | 19,980678 | 19,980642 | 19,980578 | 19,980539 |
| 000,0000 | -110,995479 | -114,498911 | -118,526335 | -120,352665 | -114,216542 | -112,922073 | 19,980596 | 19,980693 | 19,980603 | 19,980577 | 19,980856 | 19,980540 |





RPC-MAG frequency response: IBx$_{blue}$ // IBy$_{green}$ // IBz$_{red}$ // --1fd3o2b8--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

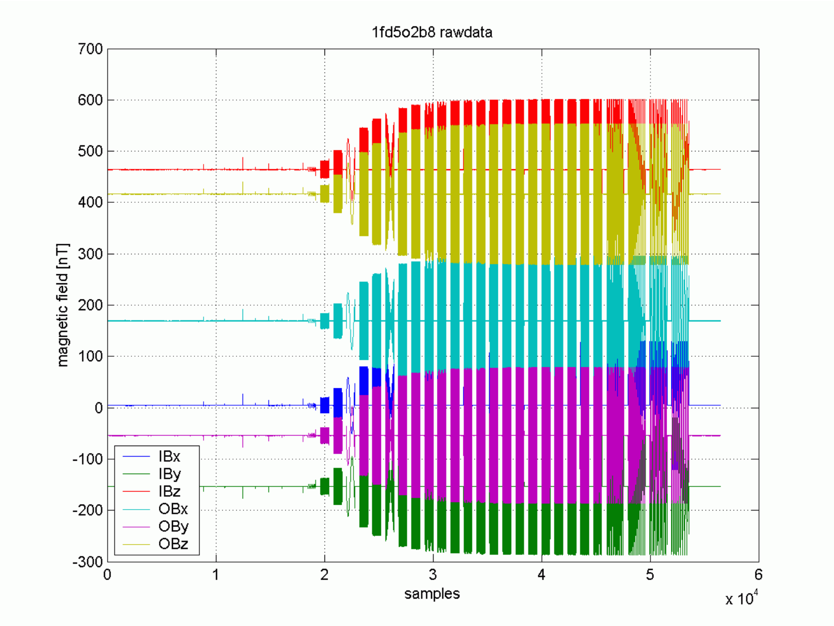
RPC-MAG frequency response: OBx$_{blue}$ // OBy$_{green}$ // OBz$_{red}$ // --1fd3o2b8--IWF-- //
-3dB
amplitude (dB)
frequency (Hz)

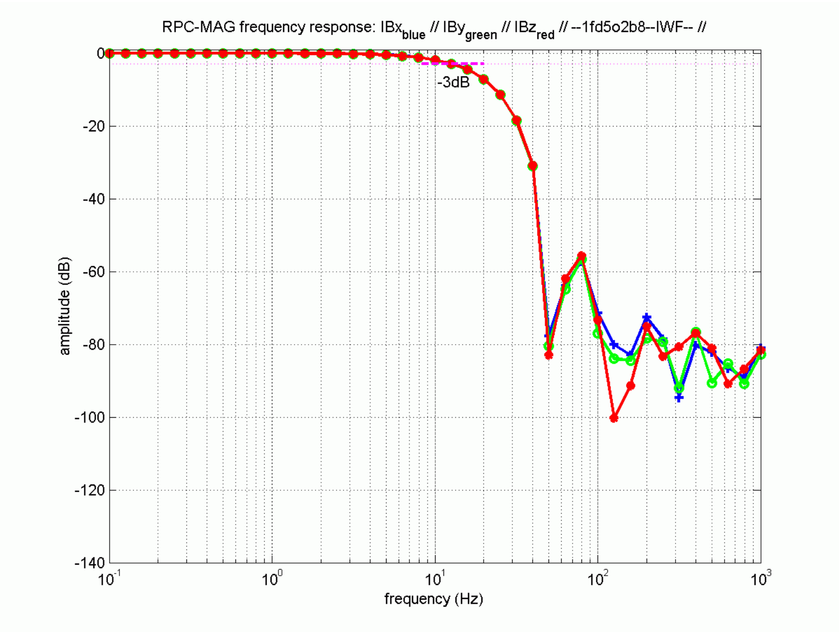
4.4.16 1fd5o2b8

Number // CCD-File // Annotation // IWF-Name
--22-- // 01-04-26 02-36-22 // fd_1 FS-Sensor FS-DPU // 1fd5o2b8

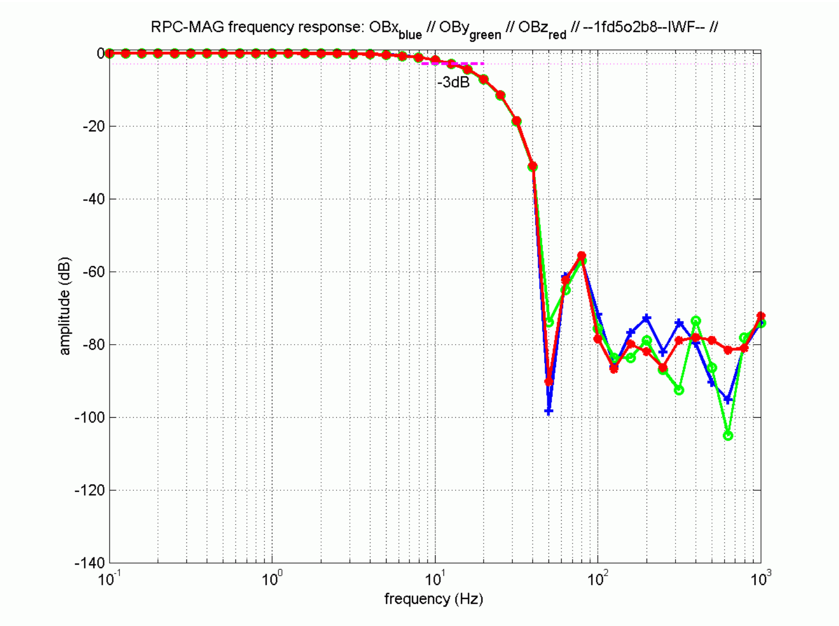
**File: 1fd5o2b8**

| Frequency (Hz) | IBx (dB) | IBy (dB) | IBz (dB) | OBx (dB) | OBy (dB) | OBz (dB) | IBx_fs (Hz) | IBy_fs (Hz) | IBz_fs (Hz) | OBx_fs (Hz) | OBy_fs (Hz) | OBz_fs (Hz) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,1000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 0,000000 | 19,980577 | 19,980548 | 19,980613 | 19,980370 | 19,980749 | 19,980641 |
| 0,1259 | -0,001580 | -0,002115 | -0,001577 | -0,001967 | -0,001315 | -0,002326 | 19,980720 | 19,980338 | 19,980714 | 19,980797 | 19,980511 | 19,980702 |
| 0,1585 | -0,002290 | -0,003975 | -0,002541 | -0,001949 | -0,002401 | -0,002690 | 19,980514 | 19,980603 | 19,980562 | 19,980741 | 19,980685 | 19,980592 |
| 0,1995 | -0,004324 | -0,004780 | -0,004050 | -0,003589 | -0,004017 | -0,003290 | 19,980569 | 19,980553 | 19,980577 | 19,980646 | 19,980587 | 19,980612 |
| 0,2512 | -0,004316 | -0,006702 | -0,006866 | -0,004456 | -0,005272 | -0,005680 | 19,980536 | 19,980676 | 19,980501 | 19,980458 | 19,980673 | 19,980511 |
| 0,3162 | -0,007450 | -0,008498 | -0,009323 | -0,007063 | -0,007031 | -0,008448 | 19,980572 | 19,980449 | 19,980466 | 19,980751 | 19,980558 | 19,980493 |
| 0,3981 | -0,010528 | -0,010303 | -0,009425 | -0,008940 | -0,009725 | -0,008719 | 19,980604 | 19,980576 | 19,980532 | 19,980593 | 19,980615 | 19,980595 |
| 0,5012 | -0,013056 | -0,012985 | -0,013089 | -0,011840 | -0,013212 | -0,012054 | 19,980523 | 19,980556 | 19,980514 | 19,980496 | 19,980606 | 19,980569 |
| 0,6310 | -0,015880 | -0,016625 | -0,016050 | -0,015275 | -0,016180 | -0,015192 | 19,980587 | 19,980600 | 19,980497 | 19,980621 | 19,980575 | 19,980475 |
| 0,7943 | -0,020975 | -0,022944 | -0,023094 | -0,021414 | -0,022562 | -0,022369 | 19,980565 | 19,980568 | 19,980583 | 19,980606 | 19,980573 | 19,980589 |
| 1,0000 | -0,029166 | -0,029557 | -0,029248 | -0,030511 | -0,032190 | -0,028825 | 19,980614 | 19,980541 | 19,980565 | 19,980592 | 19,980556 | 19,980494 |
| 1,2589 | -0,041851 | -0,042539 | -0,042211 | -0,041644 | -0,041614 | -0,041350 | 19,980560 | 19,980577 | 19,980564 | 19,980578 | 19,980596 | 19,980578 |
| 1,5849 | -0,058446 | -0,060705 | -0,061385 | -0,058783 | -0,061614 | -0,060439 | 19,980584 | 19,980586 | 19,980585 | 19,980600 | 19,980587 | 19,980555 |
| 1,9953 | -0,087256 | -0,087853 | -0,090250 | -0,087871 | -0,090045 | -0,089510 | 19,980585 | 19,980587 | 19,980580 | 19,980557 | 19,980577 | 19,980588 |
| 2,5119 | -0,129870 | -0,133204 | -0,134766 | -0,131086 | -0,134622 | -0,134564 | 19,980592 | 19,980586 | 19,980591 | 19,980580 | 19,980590 | 19,980583 |
| 3,1623 | -0,196299 | -0,201534 | -0,202801 | -0,197318 | -0,204410 | -0,202349 | 19,980583 | 19,980583 | 19,980590 | 19,980578 | 19,980598 | 19,980591 |
| 3,9811 | -0,300642 | -0,308895 | -0,309712 | -0,302439 | -0,314345 | -0,310175 | 19,980590 | 19,980585 | 19,980576 | 19,980585 | 19,980587 | 19,980573 |
| 5,0120 | -0,464243 | -0,476669 | -0,479472 | -0,466800 | -0,484839 | -0,479538 | 19,980591 | 19,980590 | 19,980585 | 19,980587 | 19,980582 | 19,980587 |
| 6,3097 | -0,721819 | -0,742042 | -0,744670 | -0,727118 | -0,754984 | -0,746079 | 19,980589 | 19,980584 | 19,980590 | 19,980590 | 19,980582 | 19,980589 |
| 7,9430 | -1,127223 | -1,157540 | -1,160830 | -1,135612 | -1,177232 | -1,164020 | 19,980584 | 19,980584 | 19,980587 | 19,980584 | 19,980588 | 19,980587 |
| 10,0000 | -1,799378 | -1,912787 | -1,868307 | -1,790194 | -1,926471 | -1,873601 | 19,980449 | 19,980167 | 19,980361 | 19,980555 | 19,980244 | 19,980372 |
| 12,5890 | -2,796274 | -2,855670 | -2,853671 | -2,816280 | -2,901572 | -2,864679 | 19,980586 | 19,980586 | 19,980587 | 19,980589 | 19,980586 | 19,980588 |
| 15,8490 | -4,439251 | -4,511990 | -4,495822 | -4,470866 | -4,576705 | -4,516856 | 19,980582 | 19,980587 | 19,980586 | 19,980582 | 19,980587 | 19,980586 |
| 19,9530 | -7,086631 | -7,168080 | -7,118204 | -7,135854 | -7,257610 | -7,153863 | 19,980569 | 19,980589 | 19,980583 | 19,980580 | 19,980585 | 19,980584 |
| 25,1190 | -11,415355 | -11,469153 | -11,356012 | -11,496695 | -11,581689 | -11,415813 | 19,980580 | 19,980587 | 19,980582 | 19,980587 | 19,980588 | 19,980583 |
| 31,6230 | -18,573330 | -18,577794 | -18,368202 | -18,677290 | -18,710156 | -18,456988 | 19,980583 | 19,980585 | 19,980591 | 19,980603 | 19,980599 | 19,980588 |
| 39,8110 | -31,156163 | -31,121393 | -30,803244 | -31,285647 | -31,275539 | -30,869809 | 19,980534 | 19,980551 | 19,980585 | 19,980517 | 19,980560 | 19,980595 |
| 50,1200 | -77,857669 | -80,376265 | -83,039285 | -98,299443 | -73,860226 | -90,352785 | 19,985836 | 19,980410 | 19,980877 | 19,979374 | 19,981262 | 19,981689 |
| 63,0970 | -63,917960 | -64,901210 | -61,948168 | -61,409283 | -65,059113 | -62,427402 | 19,980740 | 19,980520 | 19,981009 | 19,980014 | 19,980897 | 19,981188 |
| 79,4300 | -57,100333 | -56,608988 | -55,723414 | -57,035396 | -57,006720 | -55,577714 | 19,981198 | 19,981271 | 19,980965 | 19,981073 | 19,980861 | 19,981419 |
| 100,0000 | -71,327429 | -77,060463 | -73,281178 | -71,805580 | -75,704019 | -78,472694 | 19,980180 | 19,981539 | 19,980260 | 19,980646 | 19,981823 | 19,981160 |
| 125,8900 | -80,169034 | -83,971279 | -100,352240 | -86,330706 | -83,777054 | -86,875164 | 19,980811 | 19,980347 | 19,980836 | 19,980762 | 19,980435 | 19,980702 |
| 158,4900 | -83,025777 | -84,476162 | -91,384134 | -76,822244 | -83,656361 | -79,910370 | 19,980392 | 19,980758 | 19,980665 | 19,980456 | 19,979706 | 19,980662 |
| 199,5300 | -72,555862 | -78,437658 | -75,162627 | -72,706147 | -78,947349 | -82,066468 | 19,981922 | 19,979518 | 19,980762 | 19,979364 | 19,980238 | 19,979807 |
| 251,1900 | -78,464014 | -79,228061 | -83,277062 | -82,112820 | -86,948066 | -86,369624 | 19,980619 | 19,980370 | 19,980925 | 19,980496 | 19,980446 | 19,980693 |
| 316,2300 | -94,620983 | -92,056411 | -80,686339 | -74,032833 | -92,536534 | -78,931416 | 19,980591 | 19,980392 | 19,980681 | 19,981402 | 19,980590 | 19,980618 |
| 398,1100 | -80,295624 | -76,561119 | -76,952964 | -79,650457 | -73,530192 | -78,103417 | 19,980669 | 19,980684 | 19,980618 | 19,980616 | 19,980223 | 19,980386 |
| 501,2000 | -82,199166 | -90,579188 | -81,093607 | -90,383224 | -86,468097 | -78,892759 | 19,980609 | 19,980690 | 19,980670 | 19,980625 | 19,980621 | 19,980703 |
| 630,9700 | -86,629093 | -85,226772 | -90,927003 | -95,346025 | -105,151992 | -81,546009 | 19,980672 | 19,980661 | 19,980615 | 19,980564 | 19,980707 | 19,980843 |
| 794,3000 | -89,086844 | -90,929367 | -86,754399 | -80,996870 | -78,240942 | -81,067110 | 19,980428 | 19,981015 | 19,980550 | 19,980614 | 19,980556 | 19,980578 |
| 1000,0000 | -81,044955 | -82,759462 | -81,632695 | -74,174413 | -74,110250 | -72,254856 | 19,980595 | 19,980632 | 19,980588 | 19,980571 | 19,980597 | 19,980272 |





RPC-MAG frequency response: IBx blue // IBy green // IBz red // --1fd5o2b8--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB

RPC-MAG frequency response: OBx blue // OBy green // OBz red // --1fd5o2b8--IWF-- //
amplitude (dB)
frequency (Hz)
-3dB