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Appendix C for KSCR221000198201

Calibration Certificate

Object	Apply	No	Model	SN	Calibration Date
	\boxtimes	1	D3500V2	1101	2021/09/09
Dipole	\boxtimes	2	D3700V2	1103	2021/09/09
-	\boxtimes	3	D3900V2	1080	2021/09/13
DAE	\boxtimes	4	DAE4	1245	2022/05/30
	\boxtimes	5	DAE4	1245	2023/04/25
Probe	\boxtimes	6	EX3DV4	7767	2022/10/28



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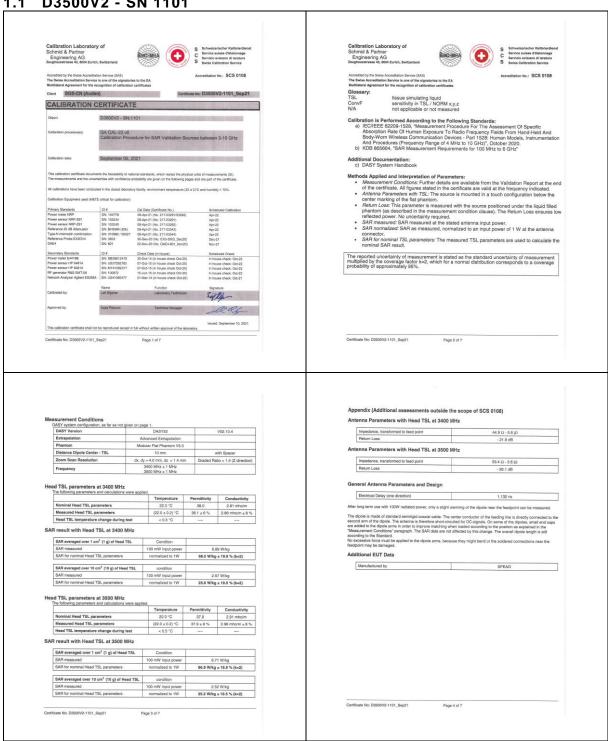
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Dipole 1

D3500V2 - SN 1101



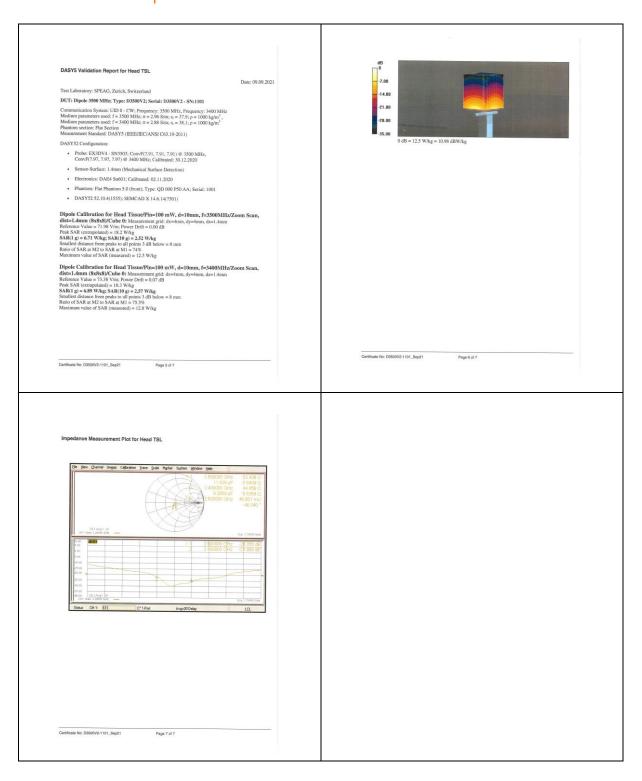


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1.2 D3700V2 - SN 1103



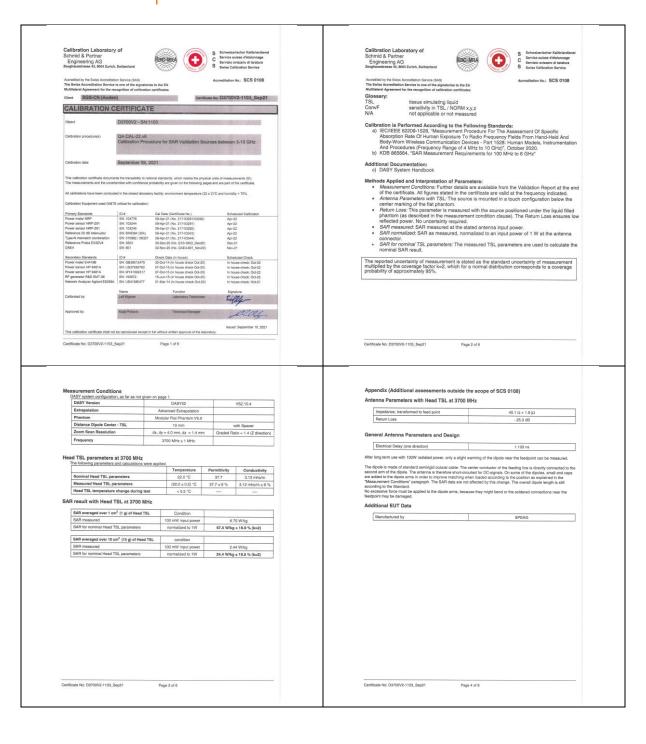
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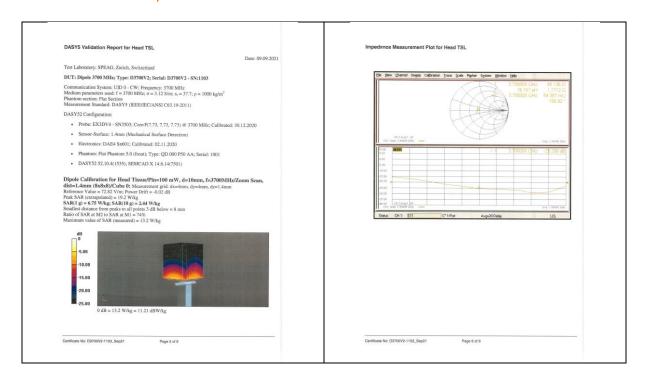


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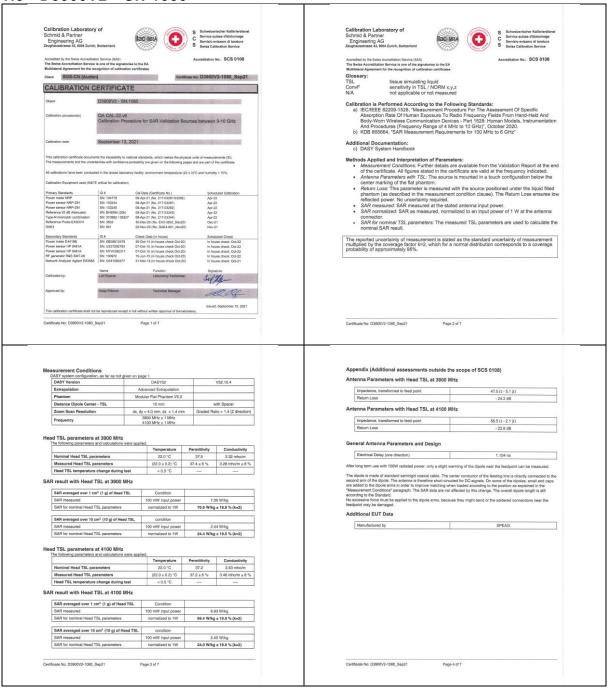
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D3900V2 - SN 1080





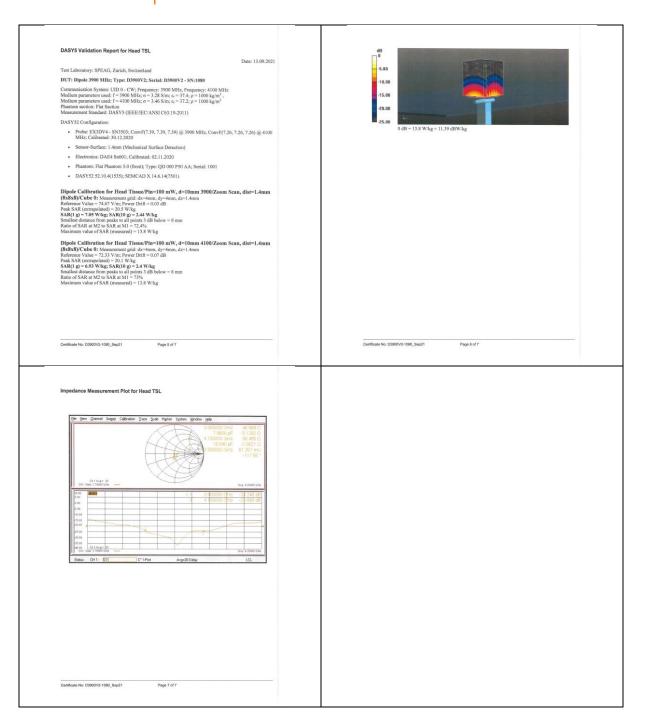
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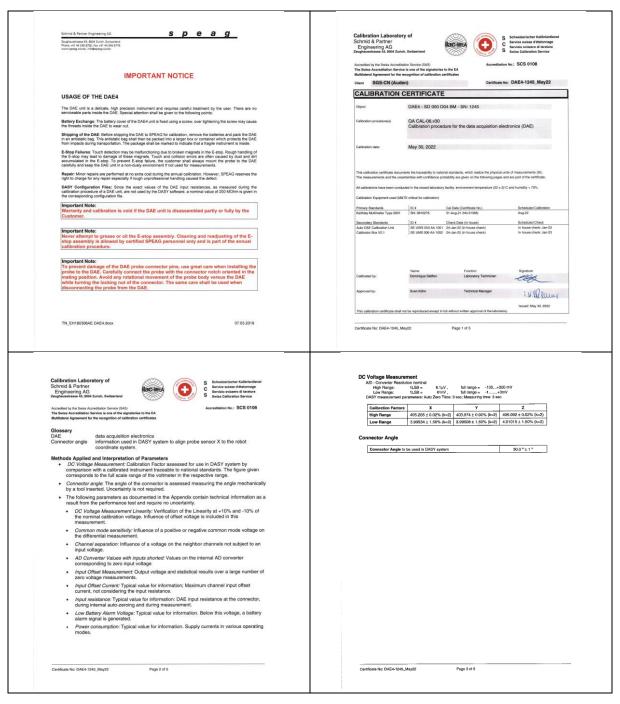
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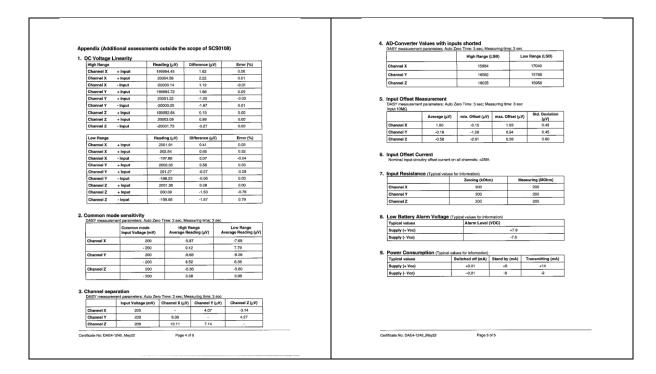


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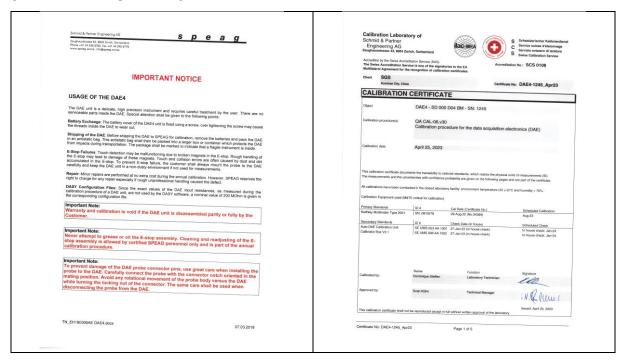
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Glossary
DAE
Connector angle
data acquisition electronics
information used in DASY system to align probe sensor X to the robot
coordinate system.

- Methods Applied and interpretation of Parameters

 DE Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibration instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.

 Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.

 The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.

 DE Voltage Measurement Therealty, Verification of the Linearity at 10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this

 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an
 input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage

 - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - current, not consouring the input resussion.

 Input resistance Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.

 Low Staffer, Matern Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.

 - Power consumption: Typical value for information. Supply currents in various operating

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6.1μV , full range = -100...+300 mV 61nV , full range = -1.....+3mV to Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	x	Y	7
High Range	405.243 ± 0.02% (k=2)	403.938 ± 0.02% (k=2)	405.064 ± 0.02% (k=2)
Low Range	3.99474 ± 1.50% (k=2)	3.99478 ± 1.50% (k=2)	4.00004 ± 0.02% (K=2)

Connector Angle to be used in DASY system 32.0 ° ± 1 °

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Appendix (Additional assessments outside the scope of SCS0108)

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	199998.60	2.90	0.00
Channel X + Input	20005.77	2.75	0.00
Channel X - Input	-19998.65	2.19	-0.01
Channel Y + Input	199996.60	1.08	0.00
Channel Y + Input	20003.12	0.26	0.00
Channel Y - Input	-20000.51	0.53	-0.00
Channel Z + Input	199994.62	-1.06	-0.00
Channel Z + Input	20002.17	-0.70	-0.00
Channel Z - Input	-20001,94	-0.91	0.00

			0.00
Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2002.91	0.81	0.04
Channel X + Input	203.06	0.73	0.36
Channel X - Input	-196.56	0.88	-0.45
Channel Y + Input	2002.33	0.29	0.01
Channel Y + Input	201,91	-0.39	-0.19
Channel Y - Input	-198.22	-0.79	0.40
Channel Z + Input	2002.20	0.24	0.01
Channel Z + Input	201.28	-0.88	-0.44
Channel Z - Input	-198.93	-1.20	0.00

2. Common mode sensitivity

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (µV)
Channel X	200	-6.42	-8.27
	- 200	8.81	8.00
Channel Y	200	7.04	7.13
	- 200	-14.70	-15.29
Channel Z	200	-4.52	-5.35
	+ 200	3.50	9.60

nent parameters: Auto Ze		
Input Voltage (mV)	Channel X (µV)	Channel Y (µV)

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-	3.29	-3.29
Channel Y	200	9.00	-	4.00
Channel Z	200	10.03	7.20	4.00

Certificate No: DAE4-1245 Apr23

AD-Converter Values with inputs shorted
 DASY massurement parameters: Auto Zero Times 3 and March

	High Range (LSB)	Low Range (LSB)
Channel X	16001	16100
Channel Y	16579	16951
Channel Z	16040	15891

Input Offset Measurement
 DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
 Input 10MQ

TOTAL TOTAL				
	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation
Channel X	0.77	-0.83	1.89	0.49
Channel Y	-0.24	-1.72	1.19	0.52
Channel Z	-0.85	-2.62	0.59	0.61

Input Offset Current Nominal input circuitry offset current on all channels: <25/A

nput Resistance (Typical values for information)				
	Zeroing (kOhm)	Measuring (MOhm)		
Channel X	200	200		
Channel Y	200	200		
Channel Z	200	800		

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)	
Supply (+ Vcc)	+7.9	
Supply (- Vcc)	-7.6	

9.	Power Consumption	(Typical values for information)
	Tombert	

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)	
Supply (+ Vcc)	+0.01	+6		
Supply (- Vcc)	-0.01	-8	-9	



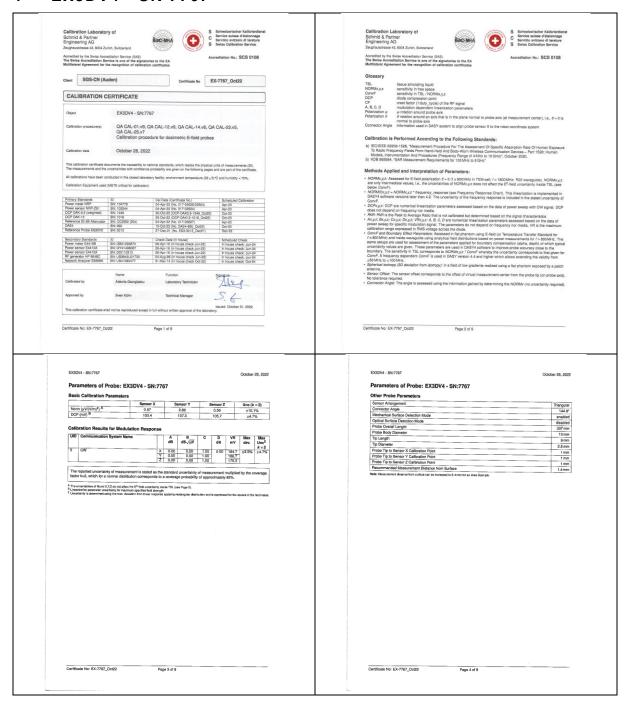
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EX3DV4 - SN 7767 4



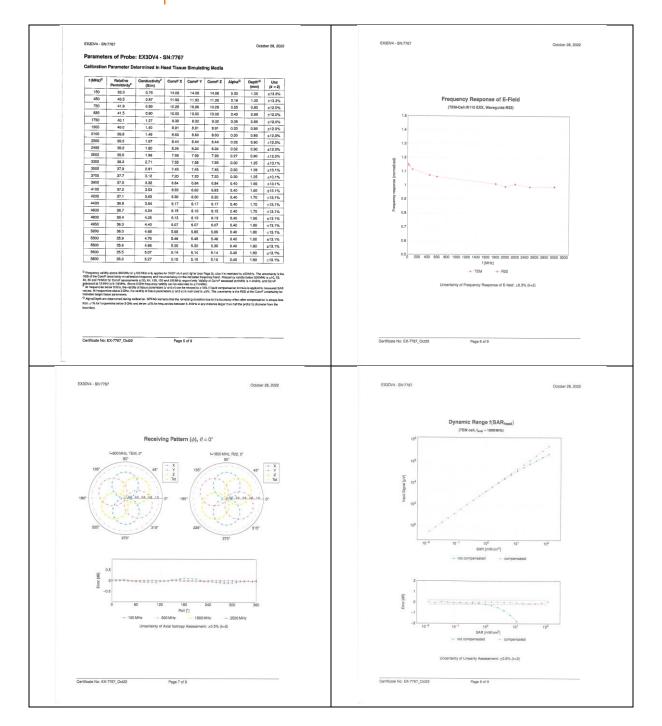


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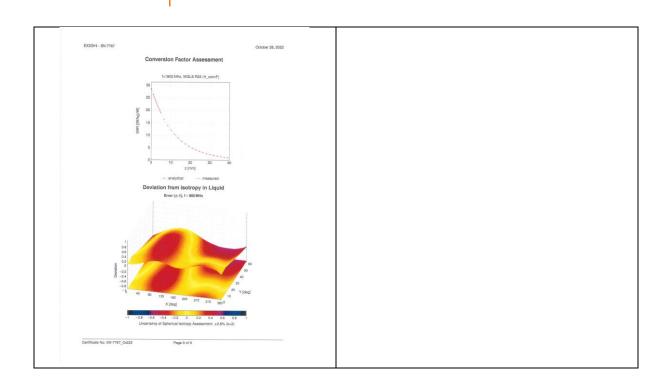
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5 Impedance and return loss

Dipole D3500V2 SN 1101 for 3400MHz						
Head Liquid						
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ		
2021/09/09	-21.908	/	44.859	/		
2022/09/09	-22.037	0.59%	45.114	0.255Ω		
Dipole D3500V2 SN 1101 for 3500MHz						
Head Liquid						
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ		
2021/09/09	-26.055	/	53.438	/		
2022/09/09	-25.972	-0.32%	53.881	0.443		
Dipole D3700V2 SN 1103						
Head Liquid						
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ		
2021/09/09	-25.289	/	45.136	/		
2022/09/09	-24.992	-1.17%	53.806	0.368		
Dipole D3900V2 SN 1080 for 3900MHz						
Head Liquid						
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ		
2021/09/13	-24.246	/	46.969	/		
2022/09/13	-24.035	-0.87%	47.122	0.153		
Dipole D3900V2 SN 1080 for 4100MHz						
Head Liquid						
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ		
2021/09/13	-23.890	/	56.485	/		
2022/09/13	-24.023	0.56%	56.976	0.491		



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