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FD4/FD4A CALIBRATION VERIFICATION FORM

Type of Document
Test form

Customer: Fine Tubes
 Date of Calibration: 6th June 2023
 Location: Plymouth UK
 MAC Std #: _____
 Send Report To: Darren Bennett
 Purch. Order #: 35123X
 Software Vers.: 3.0.95.48
 Calibration Frequency: 6 Months 1 Year 2 Years

Equipment : Fd4
 Equipment SN/LN: UTES 13346
 Next Calibration Date: 5th December 2023
 District No.: 21
 S.C. #: _____
 Cust. Std #: _____
 Title: _____
 R.T.M.: _____

Pulse Amplitude test:

Minimum (V)	CH1	CH2	CH3	CH4	Maximum (V)
400	532	520	512	516	550

Receiver sensitivity:

Min Vsens (V)	5MHz				Max Vsens (V)
	CH1	CH2	CH3	CH4	
0.02	0.0256	0.0256	0.0258	0.0256	0.05

Damping resistance check:

Damping (ohms)	Minimum Amplitude (%)	5MHz				Maximum Amplitude (%)
		CH1	CH2	CH3	CH4	
200	Set to 80%	80%	80%	80%	80%	Set to 80%
50	40	44	46	46	45	58

Gain control linearity test:

Attenuator (dB)	Stripchart (%)	Receiver Gain (dB)					
		Min (dB)		5MHz			
50 dB	80%	40	41	41.5	41.25	41.5	44
40 dB	80%	31	31.5	32	31.5	31.75	33
30 dB	80%	22dB	22dB	22 dB	22 dB	22 dB	22dB
20 dB	80%	11	12.5	12.25	12.5	12.25	13
10 dB	80%	0.5	2.75	2.25	2.75	2.5	3.5

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Equipment SN/LN: UTE5 13346

Vertical linearity test:

Attenuator (dB)	Signal Amplitude (%)							
	Minimum (%)	5MHz				Maximum (%)		
		CH1	CH2	CH3	CH4	CH1	CH2	CH3
24 dB	94	100	100	100	100	106		
27 dB	67	72	72	72	72	73		
30 dB	Set to 50%	50%	50%	50%	50%	50%		
36 dB	22	23	22	25	24	28		
46 dB	3	7	6	8	8	13		

Frequency response:

Frequency	Min. Amplitude (%)	CH1	CH2	CH3	CH4	Max. Amplitude (%)
5 MHz	Set to 80%	80%	80%	80%	80%	Set to 80%
15 MHz	35	54	36	58	47	75

Receiver noise:

CH1	CH2	CH3	CH4	Max Vnoise (%)
9	7	9	8	30

Thickness test (optional):

Step Thickness (Inches)	Thickness				Thickness Max (Inches)
	Min (Inches)	CH1	CH2	CH3	
0.2000	0.1980	0.1997	0.1995	0.1998	0.2020
0.3000	0.2970	0.2981	0.2979	0.2983	0.3030
0.4000	0.3960	0.399	0.3993	0.3995	0.4040

Filter test (Only applicable to FD4A):

Bandpass filter (MHz)	CH1		CH2		CH3		CH4	
	Lower cutoff frequency must be lower than (MHz)	Upper cutoff frequency	Lower cutoff frequency	Upper cutoff frequency	Lower cutoff frequency	Upper cutoff frequency	Lower cutoff frequency	Upper cutoff frequency must be higher than (MHz)
10MHz	9	0	0	0	0	0	0	11
5MHz	4	0	0	0	0	0	0	6
2.25MHz	2.25	0	0	0	0	0	0	2.5

Reference:

The above data was verified using the following instruments which have a current calibration to NIST specifications.

- Scope: DS2D155101179
- Digital voltmeter: _____
- Attenuator: 626835-12 36
- Function generator: DG4D150200023
- As Found Condition: In Tolerance Out of Tolerance Non Functional
- As Left Condition: In Tolerance In Tolerance

Notes:

Analogue outputs: 100% - 5.01V, 80% - 4.03V, 60% - 2.98V, 40% - 1.95V, 20% - 0.999V

Name: Paul Smyth Signature: _____



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Addendum: Velocity Measurement test:

Piece number	Min Velocity (in/us)	Station 1	Station 2	Max Velocity (in/us)
1	0.2227			0.2247
2	0.2227			0.2247
3	0.2227			0.2247
4	0.2227			0.2247
5	0.2227			0.2247
6	0.2227			0.2247
7	0.2227			0.2247
8	0.2227			0.2247
9	0.2227			0.2247
10	0.2227			0.2247
11	0.2291			0.2311
12	0.2291			0.2311
13	0.2291			0.2311
14	0.2291			0.2311
15	0.2291			0.2311
16	0.2291			0.2311
17	0.2291			0.2311
18	0.2291			0.2311
19	0.2291			0.2311
20	0.2291			0.2311