



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** D. Gaskell, J. Benesch, Y. Roblin

**DATE:** 09/10/2021

**FROM:** Elena Balan

**Checked:**

**# :** C2004

**DETAILS:**

M:\align\DATA\Step2B\BSY\3C\_12\190828A  
DATA\Step2B\BSY\3C\_12\160219B

Listed below are the components of the 3C, Compton, 3M as found data. The found coordinates are in the CEBAF coordinate system. The Beam Following coordinates are the amount offset from the design (ideal) location, where a +X is beam left, a +Y is up and +Z is downstream from the ideal. Beam following values are in millimeters.

	CEBAF-found			Beam Following		
	X[m]	Y[m]	Z[m]	dx[mm]	dy[mm]	dz[mm]
ITV2C00 ( Standard )	-80.59976	99.99944	-258.65752	-0.25	-0.56	
IPM3C00 ( SEEBPM )	-80.69466	99.97743	-263.59548	1.62	-0.58	
MQA3C01 ( QA )	-80.95316	99.97794	-272.90971	-0.05	-0.06	-0.01
MQK3C02 ( QK )	-81.01760	99.97792	-275.20874	0.17	-0.08	-0.08
MQA3C03 ( QA )	-81.08160	99.97810	-277.50807	-0.05	0.10	0.13
VIP3C03A ( IonPump )	-81.37796	99.97802	-288.09367	0.62	0.02	
MJF3C04 ( JF )	-81.43841	99.97788	-290.15285	0.06	-0.12	0.02
MQK3C04 ( QK )	-81.52701	99.97795	-291.80036	0.06	-0.06	-0.06
MQK3C05 ( QK )	-81.71118	99.97795	-295.09531	0.01	-0.04	0.03
MQK3C06 ( QK )	-82.11870	99.97805	-302.38387	0.03	0.04	-0.04
IPM3C07 ( SEEBPM )	-82.61630	99.97780	-311.27923	0.29	-0.20	
MQK3C07 ( QK )	-82.41440	99.97797	-307.67571	-0.13	-0.03	0.05
MQK3C08 ( QK )	-82.75506	99.97797	-313.76624	0.01	-0.03	0.11
MJA3C05 ( JA )	-82.93650	99.97794	-316.50991	-0.04	-0.06	-0.02
MQA3C09 ( QA )	-83.22781	99.97796	-318.94241	-0.27	0.09	0.00
MQA3C10 ( QA )	-84.08642	99.97795	-324.06867	-0.03	-0.15	0.00
MJA3C06 ( JA )	-83.61412	99.97801	-321.66486	0.06	0.01	-0.02
MJA3C07 ( JA )	-84.67511	99.97804	-326.75472	0.04	0.04	-0.05
MQA3C11 ( QA )	-85.32594	99.97801	-329.11671	0.00	0.01	0.14
MJA3C08 ( JA )	-86.11370	99.97799	-331.75106	0.05	-0.01	-0.03
IHA3C12A ( SuperHarp )	-86.73464	99.97790	-333.50657	-0.18	-0.10	8.00
IPM3C12 ( SEEBPM )	-86.77842	99.97797	-333.62344	0.22	-0.03	
MQK3C12 ( QK )	-86.93921	99.97806	-334.05790	-0.10	0.07	0.26
IHA3C12B ( SuperHarp )	-87.25164	99.97810	-334.90041	-0.17	0.10	-0.07
MJA3C09 ( JA )	-87.92175	99.97795	-336.62581	0.04	-0.05	-0.07
MQA3C13 ( QA )	-88.91735	99.97806	-338.86435	-0.13	0.06	0.08
MJA3C10 ( JA )	-90.08911	99.97806	-341.35184	-0.07	0.06	-0.07
MQA3C14 ( QA )	-91.24948	99.97810	-343.50957	0.12	0.02	374.72
MJA3C11 ( JA )	-92.60389	99.97799	-345.90255	-0.02	-0.01	-0.03

	CEBAF-found			Beam Following		
	X[m]	Y[m]	Z[m]	dx[mm]	dy[mm]	dz[mm]
<b>MQA3C15 ( QA )</b>	-93.92855	99.97806	-347.97707	0.05	0.06	11.48
<b>MJA3C12 ( JA )</b>	-95.45178	99.97803	-350.25259	-0.05	0.03	0.02
<b>MQK3C16 ( QK )</b>	-96.92046	99.97792	-352.21262	-0.02	-0.08	-0.56
<b>IHA3C17A ( SuperHarp )</b>	-98.19777	99.97806	-353.87727	-0.03	0.06	1.68
<b>IPM3C17 ( SEEBPM )</b>	-98.58631	99.97839	-354.38369	0.12	0.39	
<b>MQR3C17 ( QR )</b>	-98.81313	99.97822	-354.67912	0.03	0.22	-0.57
<b>IBC3C17 ( BCM )</b>	-99.17605	99.97824	-355.15297	-0.38	0.24	
<b>IHA3C17B ( SuperHarp )</b>	-99.33775	99.97799	-355.36306	-0.12	-0.01	0.11
<b>MQK3C18 ( QK )</b>	-99.89528	99.97799	-356.08925	-0.10	-0.01	-0.20
<b>MQK3C19 ( QK )</b>	-100.69397	99.97798	-357.12927	0.04	-0.02	0.17
<b>MMC3P01 ( MC )</b>	-101.69134	99.97806	-358.42914	-0.05	0.06	-0.03
<b>MMC3P02 ( MC )</b>	-103.64306	99.97792	-360.97031	0.01	-0.08	-0.18
<b>MMC3P03 ( MC )</b>	-105.74173	99.97796	-363.70379	-0.04	-0.04	0.11
<b>MMC3P04 ( MC )</b>	-107.69282	99.97794	-366.24487	0.01	-0.07	-0.19
<b>IPM3C20 ( SEEBPM )</b>	-108.88851	99.97881	-367.80175	0.26	0.81	
<b>MQR3C20 ( QR )</b>	-109.12719	99.97805	-368.11311	-0.03	0.05	0.33
<b>IPM3C21 ( SEEBPM )</b>	-109.72635	99.97824	-368.89454	-0.68	0.24	
<b>MQR3C21 ( QR )</b>	-109.95398	99.97803	-369.18986	0.02	0.03	-0.05
<b>MOELTARGC ( Target )</b>	-110.61877	99.98003	-370.05530	0.27	2.04	1.73
<b>MQF3M01 ( QF )</b>	-111.14058	99.97798	-370.73516	0.13	-0.02	10.35
<b>MQE3M02 ( QE )</b>	-112.26089	99.97837	-372.19441	0.05	0.37	1.71
<b>MQE3M03 ( QE )</b>	-113.07288	99.97793	-373.25154	0.33	-0.08	1.61