

A.4 Conducted Band Edges and Spurious Emission

Test Result

Band Edges

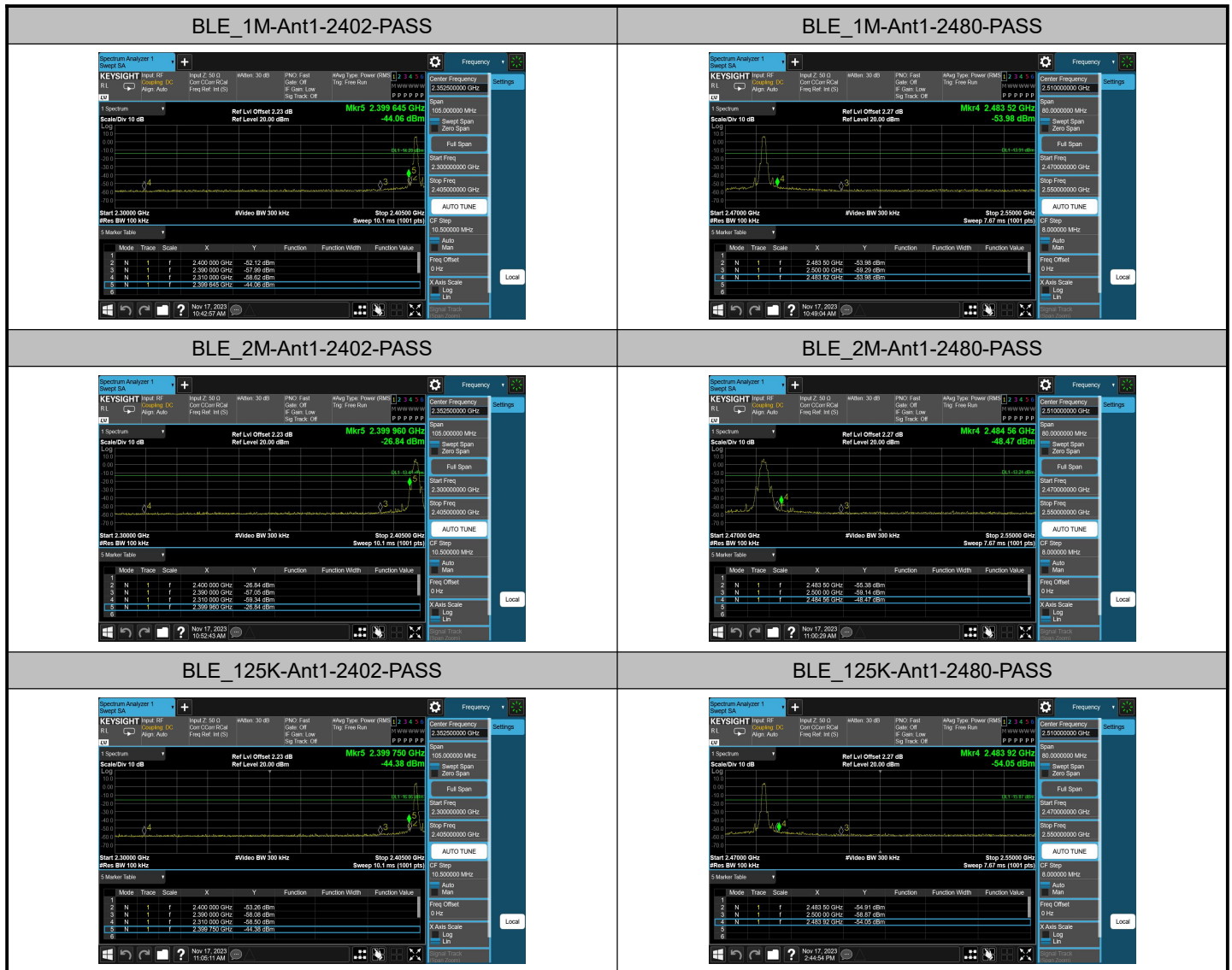
Test Mode	Antenna	Ch Name	Frequency [MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.72	-44.06	≤-14.28	PASS
BLE_1M	Ant1	High	2480	6.09	-53.98	≤-13.91	PASS
BLE_2M	Ant1	Low	2402	6.52	-26.84	≤-13.48	PASS
BLE_2M	Ant1	High	2480	6.76	-48.47	≤-13.24	PASS
BLE_125K	Ant1	Low	2402	3.94	-44.38	≤-16.06	PASS
BLE_125K	Ant1	High	2480	4.13	-54.05	≤-15.87	PASS
BLE_500K	Ant1	Low	2402	6.77	-43.63	≤-13.23	PASS
BLE_500K	Ant1	High	2480	6.75	-53.52	≤-13.25	PASS

Spurious Emission

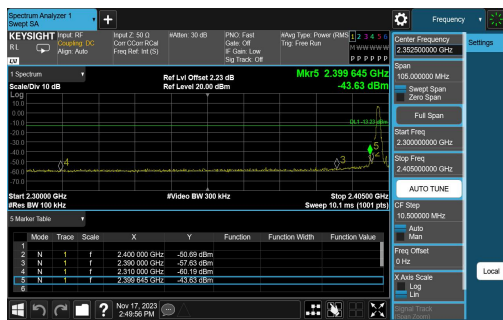
Test Mode	Antenna	Frequency [MHz]	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	5.72	-69.42	≤-14.28	PASS
BLE_1M	Ant1	2402	1000~26500	5.72	-55.13	≤-14.28	PASS
BLE_1M	Ant1	2440	30~1000	5.93	-68.89	≤-14.07	PASS
BLE_1M	Ant1	2440	1000~26500	5.93	-53.64	≤-14.07	PASS
BLE_1M	Ant1	2480	30~1000	6.09	-69.46	≤-13.91	PASS
BLE_1M	Ant1	2480	1000~26500	6.09	-54.75	≤-13.91	PASS
BLE_2M	Ant1	2402	30~1000	6.52	-68.23	≤-13.48	PASS
BLE_2M	Ant1	2402	1000~26500	6.52	-55.54	≤-13.48	PASS
BLE_2M	Ant1	2440	30~1000	6.74	-69.5	≤-13.26	PASS
BLE_2M	Ant1	2440	1000~26500	6.74	-52.22	≤-13.26	PASS
BLE_2M	Ant1	2480	30~1000	6.76	-68.77	≤-13.24	PASS
BLE_2M	Ant1	2480	1000~26500	6.76	-55.13	≤-13.24	PASS
BLE_125K	Ant1	2402	30~1000	3.94	-69.63	≤-16.06	PASS
BLE_125K	Ant1	2402	1000~26500	3.94	-55.1	≤-16.06	PASS
BLE_125K	Ant1	2440	30~1000	4.10	-68.89	≤-15.9	PASS
BLE_125K	Ant1	2440	1000~26500	4.10	-55.34	≤-15.9	PASS
BLE_125K	Ant1	2480	30~1000	4.13	-68.98	≤-15.87	PASS
BLE_125K	Ant1	2480	1000~26500	4.13	-55.48	≤-15.87	PASS
BLE_500K	Ant1	2402	30~1000	6.77	-69.54	≤-13.23	PASS
BLE_500K	Ant1	2402	1000~26500	6.77	-55.21	≤-13.23	PASS
BLE_500K	Ant1	2440	30~1000	6.91	-69.12	≤-13.09	PASS

BLE_500K	Ant1	2440	1000~26500	6.91	-53.34	≤-13.09	PASS
BLE_500K	Ant1	2480	30~1000	6.75	-68.73	≤-13.25	PASS
BLE_500K	Ant1	2480	1000~26500	6.75	-55.66	≤-13.25	PASS

Test Graphs Band Edges



BLE_500K-Ant1-2402-PASS

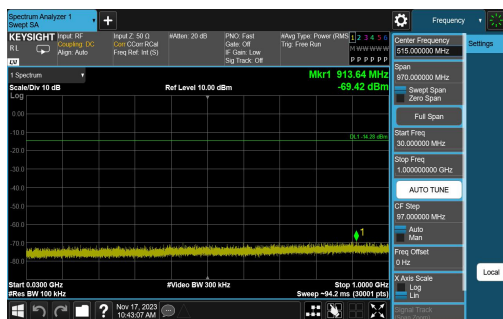


BLE_500K-Ant1-2480-PASS



Spurious Emission

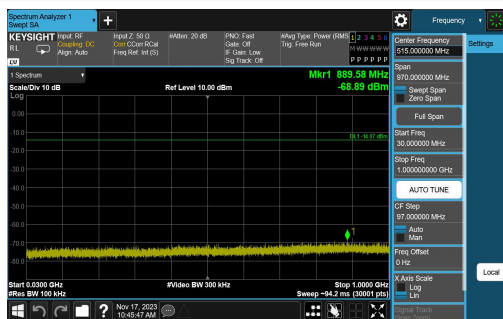
BLE_1M-Ant1-2402-30~1000-PASS



BLE_1M-Ant1-2402-1000~26500-PASS



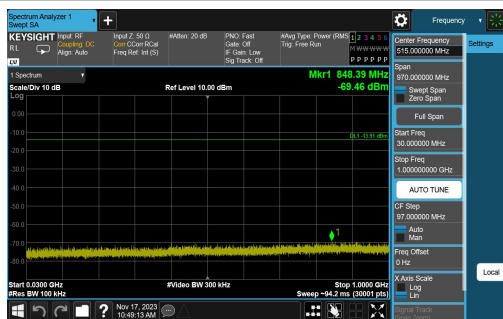
BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

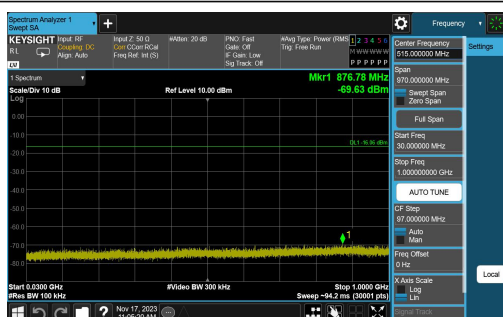
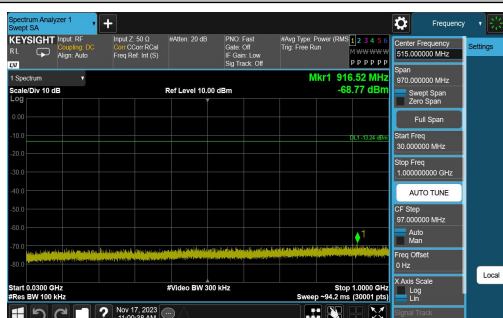
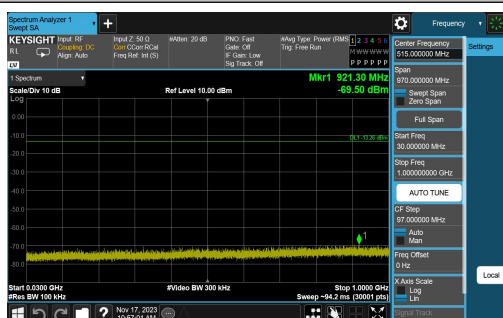
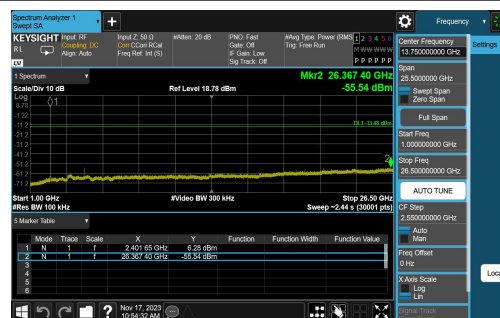
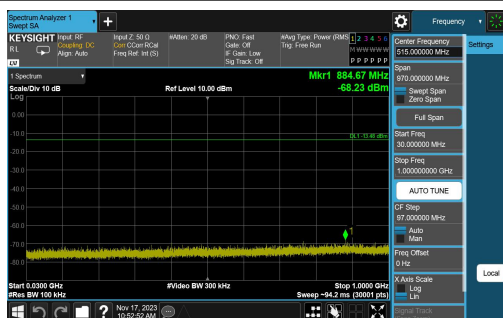


BLE_1M-Ant1-2480-30~1000-PASS

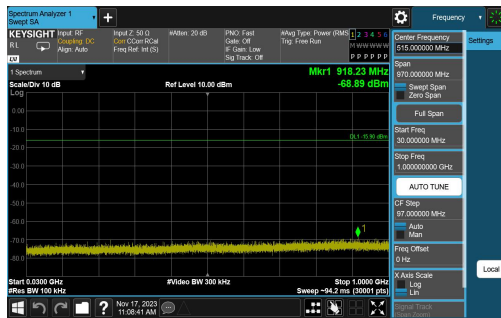


BLE_1M-Ant1-2480-1000~26500-PASS





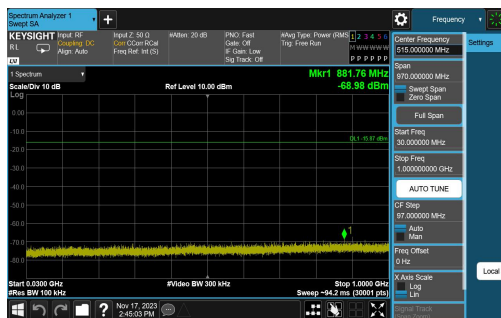
BLE_125K-Ant1-2440-30~1000-PASS



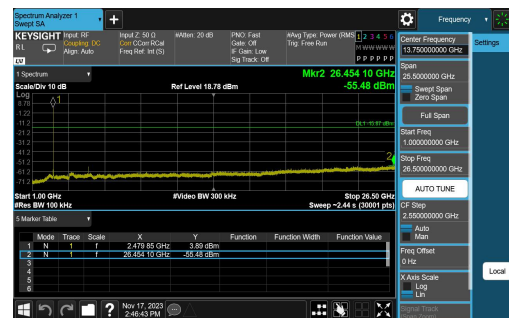
BLE_125K-Ant1-2440-1000~26500-PASS



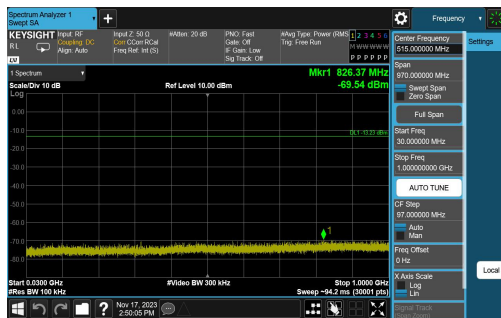
BLE_125K-Ant1-2480-30~1000-PASS



BLE_125K-Ant1-2480-1000~26500-PASS



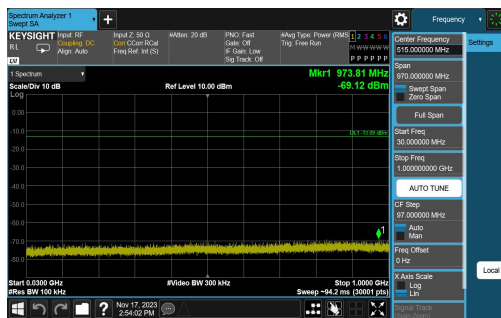
BLE_500K-Ant1-2402-30~1000-PASS



BLE_500K-Ant1-2402-1000~26500-PASS

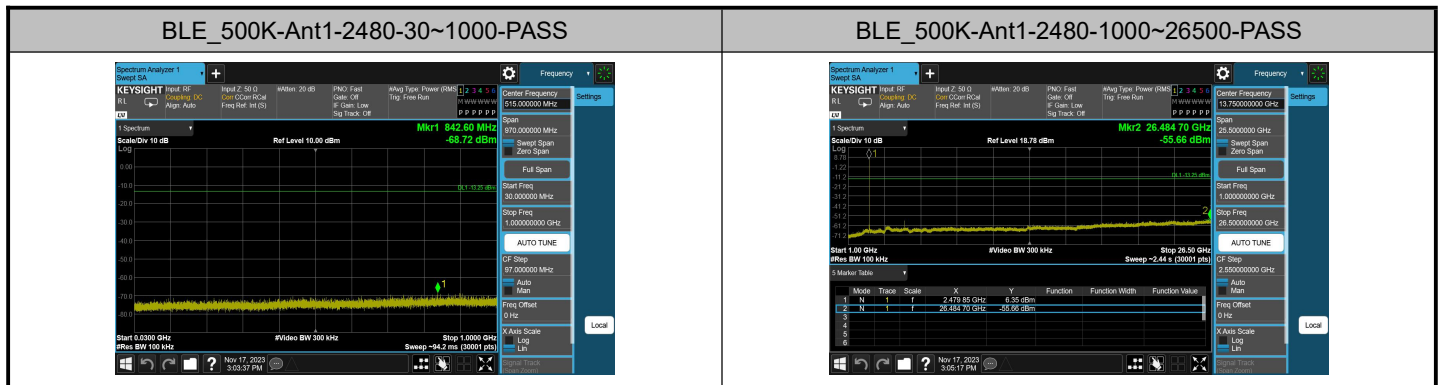


BLE_500K-Ant1-2440-30~1000-PASS



BLE_500K-Ant1-2440-1000~26500-PASS





A.5 AC Conducted Emission

Test Result

Remark: The sample is powered by USB. This test item is not applicable.

Appendix B – Test Results of Radiated Test

B.1 Radiated Band Edges and Spurious Emission

Test Result_Band Edges

Test Mode & Test Freq.[MHz]	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμ]	AVG Limit [dBμ]	AGV Margin [dB]	Pol.	Azimuth [deg]
BLE_1M_2402	2,389.950	59.47	74.00	14.53	46.10	54.00	7.80	H	113.2
BLE_1M_2480	2,483.500	59.76	74.00	14.24	46.50	54.00	7.40	H	254.3
BLE_2M_2402	2,389.950	59.39	74.00	14.61	46.07	54.00	7.83	H	266.2
BLE_2M_2480	2,483.500	59.74	74.00	14.26	46.53	54.00	7.37	H	66.6
BLE_125K_2402	2,390.275	59.52	74.00	14.48	46.04	54.00	7.96	V	325.8
BLE_125K_2480	2,483.500	60.14	74.00	13.86	46.45	54.00	7.55	H	33.4
BLE_500K_2402	2,390.275	59.53	74.00	14.47	46.06	54.00	7.94	H	127.5
BLE_500K_2480	2,483.500	60.04	74.00	13.96	46.46	54.00	7.54	H	5.7

Test Result_Spurious Emission

Note1: Test result Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

Note2: 'Low' indicates a frequency range below 1GHz, and 'High' indicates a frequency range above 1GHz.

Test Mode & Test Freq.[MHz]	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμ]	AVG Limit [dBμ]	AGV Margin [dB]	Pol.	Azimuth [deg]
BLE_1M_2402_High	4,803.500	52.50	74.00	21.50	40.05	54.00	13.85	H	42.6
	7,205.500	55.43	74.00	18.57	42.72	54.00	11.18	H	7
	9,608.000	47.49	74.00	26.51	36.04	54.00	17.86	V	218.2
	12,009.500	48.71	74.00	25.29	35.64	54.00	18.26	H	360.1
	14,411.000	49.24	74.00	24.76	36.73	54.00	17.17	H	237.7
	16,815.000	53.10	74.00	20.90	40.61	54.00	13.29	V	358
BLE_1M_2440_High	4,880.000	53.77	74.00	20.23	40.18	54.00	13.72	H	15.4
	7,320.500	55.61	74.00	18.39	43.16	54.00	10.74	H	205.6
	9,759.500	47.18	74.00	26.82	34.60	54.00	19.30	H	42.4
	12,199.500	47.82	74.00	26.18	35.63	54.00	18.27	H	193.8
	14,638.500	49.57	74.00	24.43	36.85	54.00	17.05	H	91.6
	17,078.500	53.85	74.00	20.15	40.52	54.00	13.38	V	1.6
BLE_1M_2480_High	4,960.500	52.84	74.00	21.16	40.41	54.00	13.49	V	64.8
	7,440.000	55.98	74.00	18.02	43.23	54.00	10.67	H	81.9
	9,920.000	47.52	74.00	26.48	34.76	54.00	19.14	V	358.2

	12,400.500	48.40	74.00	25.60	36.02	54.00	17.88	H	43.3
	14,879.500	49.51	74.00	24.49	36.77	54.00	17.13	H	94.3
	17,360.500	52.37	74.00	21.63	40.08	54.00	13.82	H	360.1
BLE_2M_2402_High	4,804.000	52.83	74.00	21.17	40.28	54.00	13.62	H	104.9
	7,206.000	55.86	74.00	18.14	42.92	54.00	10.98	H	0.3
	9,607.500	46.79	74.00	27.21	34.17	54.00	19.73	H	348.3
	12,011.000	48.17	74.00	25.83	35.67	54.00	18.23	H	348.3
	14,411.500	49.35	74.00	24.65	36.79	54.00	17.11	H	140.6
	16,815.000	53.57	74.00	20.43	40.74	54.00	13.16	H	202.9
BLE_2M_2440_High	4,880.000	53.32	74.00	20.68	40.55	54.00	13.35	H	256.4
	7,319.500	56.03	74.00	17.97	43.21	54.00	10.69	H	360
	9,760.000	47.60	74.00	26.40	34.98	54.00	18.92	H	12.3
	12,201.000	48.59	74.00	25.41	36.11	54.00	17.79	V	201.7
	14,641.500	49.81	74.00	24.19	37.25	54.00	16.65	H	76.2
	17,080.500	53.04	74.00	20.96	40.86	54.00	13.04	V	0
BLE_2M_2480_High	4,961.000	53.58	74.00	20.42	40.65	54.00	13.25	H	360
	7,440.000	56.00	74.00	18.00	43.51	54.00	10.39	H	21.4
	9,920.000	48.34	74.00	25.66	37.11	54.00	16.79	V	158.3
	12,399.500	48.60	74.00	25.40	36.27	54.00	17.63	H	286.2
	14,879.500	49.40	74.00	24.60	37.17	54.00	16.73	H	0
	17,359.000	52.73	74.00	21.27	40.24	54.00	13.66	V	360
BLE_125K_2402_High	4,803.500	52.38	74.00	21.62	40.26	54.00	13.74	V	360
	7,207.000	55.21	74.00	18.79	42.69	54.00	11.31	H	52.3
	9,608.000	47.72	74.00	26.28	36.74	54.00	17.26	V	0
	12,011.000	48.16	74.00	25.84	35.39	54.00	18.61	H	360
	14,412.500	49.55	74.00	24.45	36.64	54.00	17.36	V	360
	16,814.000	53.17	74.00	20.83	40.48	54.00	13.52	V	39.8
BLE_125K_2440_High	4,880.000	53.05	74.00	20.95	40.33	54.00	13.67	H	296.2
	7,320.000	56.56	74.00	17.44	43.09	54.00	10.91	V	354.4
	9,601.500	46.67	74.00	27.33	33.90	54.00	20.10	H	220
	12,198.500	48.38	74.00	25.62	35.65	54.00	18.35	V	238.6
	14,642.500	50.20	74.00	23.80	37.13	54.00	16.87	H	42.4
	17,080.500	53.18	74.00	20.82	40.64	54.00	13.36	V	321.4
BLE_125K_2480_High	4,959.500	52.93	74.00	21.07	40.49	54.00	13.51	V	63.9
	7,399.500	55.45	74.00	18.55	43.12	54.00	10.88	H	0
	9,919.000	46.88	74.00	27.12	34.38	54.00	19.62	H	168
	12,400.000	48.17	74.00	25.83	35.97	54.00	18.03	H	42.4
	14,883.000	49.45	74.00	24.55	36.92	54.00	17.08	V	0
	17,362.000	53.05	74.00	20.95	39.89	54.00	14.11	V	358.6