TestReport

Test Time : 2026/05/06 10:25:45

Record File: D:\SECRI\CTS650A\TestRecord\CTS260506-12-P.cts

Test Information

Test Time : 2026/05/06 10:25:45	Temperature:20C
Standard:YD/T 1019-2013 CAT6	Test Result:Pass
Cable Length:100m	Cable Type:F/UTP CAT6 0.560 LSZH
Tester:	Cable ID:01

Test Result List

Test Item	Unit	Test Result
Attenuation	dB/100m	Pass
Delay	ns/100m	Pass
Delay Skew	ns/100m	Pass
Input Impedance	Ohm	Pass
Zo	Ohm	Pass
Return Loss	dB	Pass
NEXT	dB@100m	Pass
PS NEXT	dB@100m	Pass

Inspector:

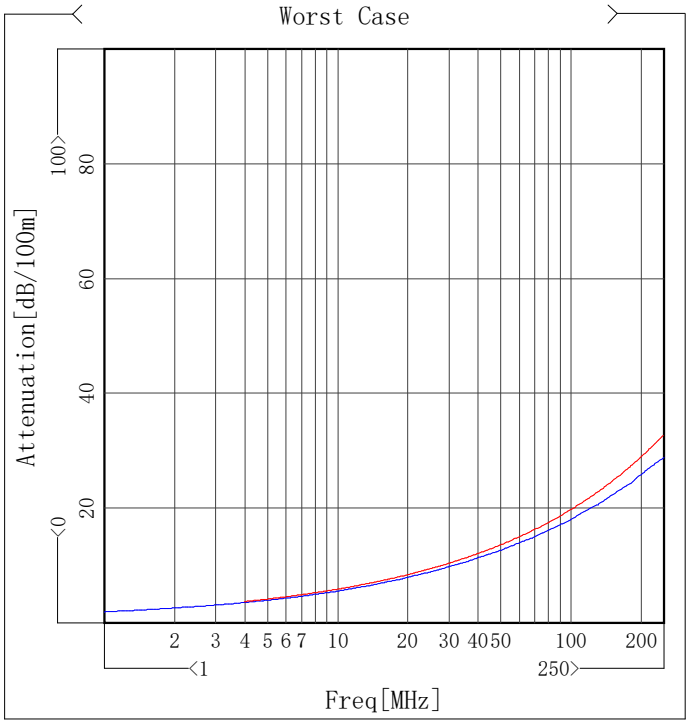
Date :

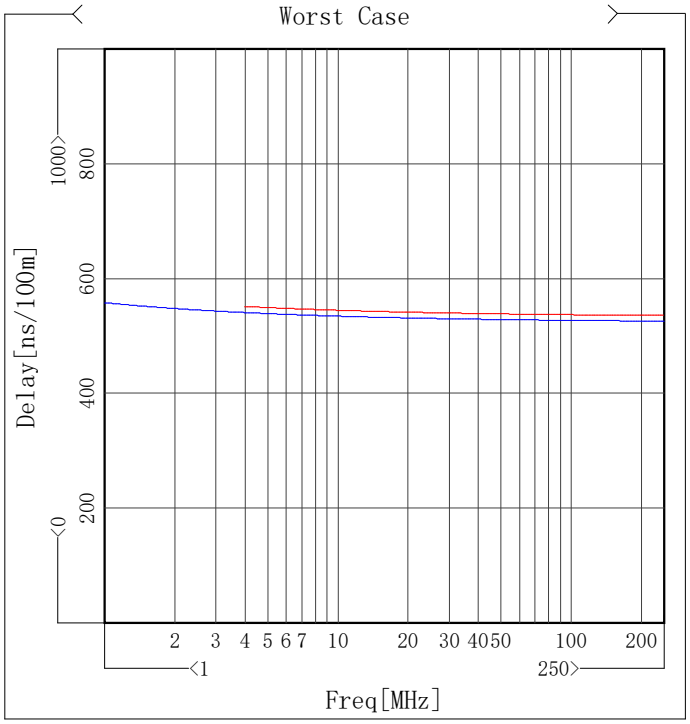
Assessor :

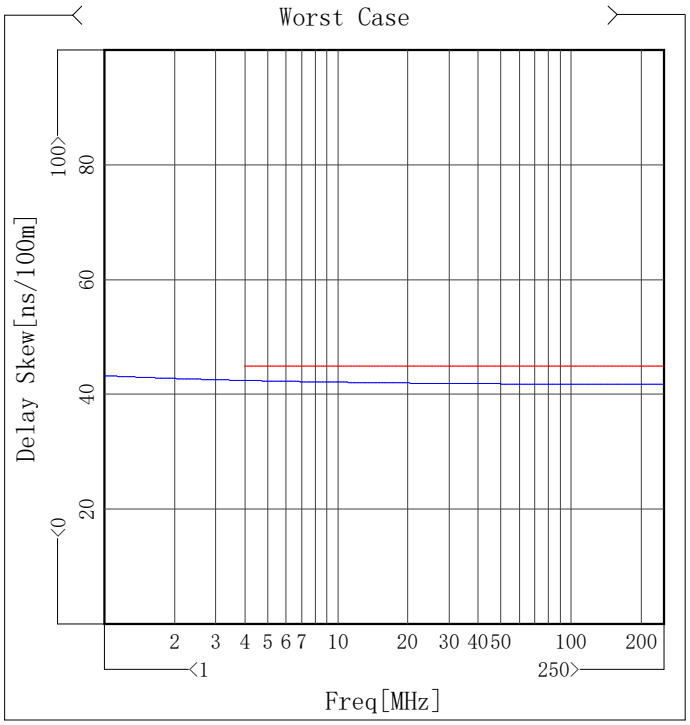
Date :

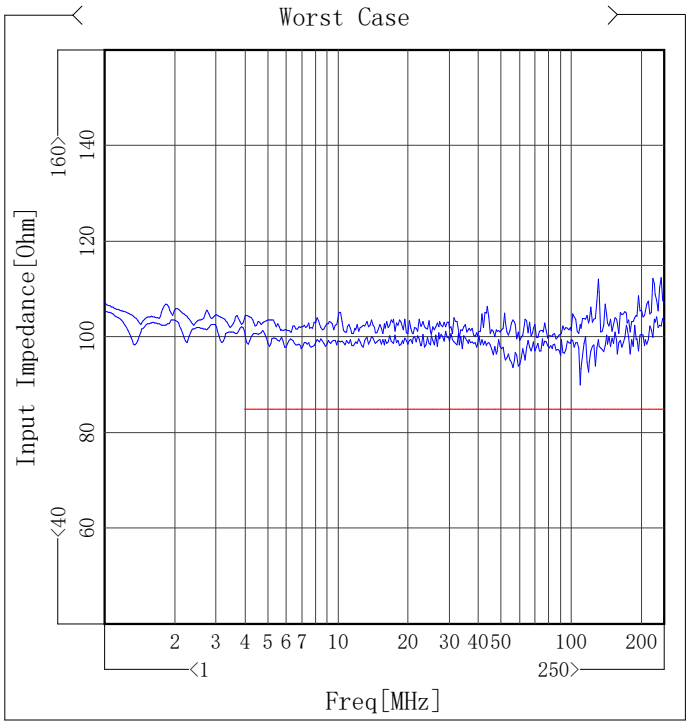
Worst Summary Of High Freq Parameter

Item	Max	Freq[MHz]	Spec	Margin	Min	Freq[MHz]	Spec	Margin
✔ Attenuation[dB/100m]	3.61	4.02	3.79	0.18	/	/	/	/
✔ Delay[ns/100m]	526.51	244.09	536.30	9.79	/	/	/	/
✔ Delay Skew[ns/100m]	42.49	4.08	45.00	2.51	/	/	/	/
✔ Input Impedance[Ohm]	112.44	244.09	115.00	2.56	90.01	110.58	85.00	5.01



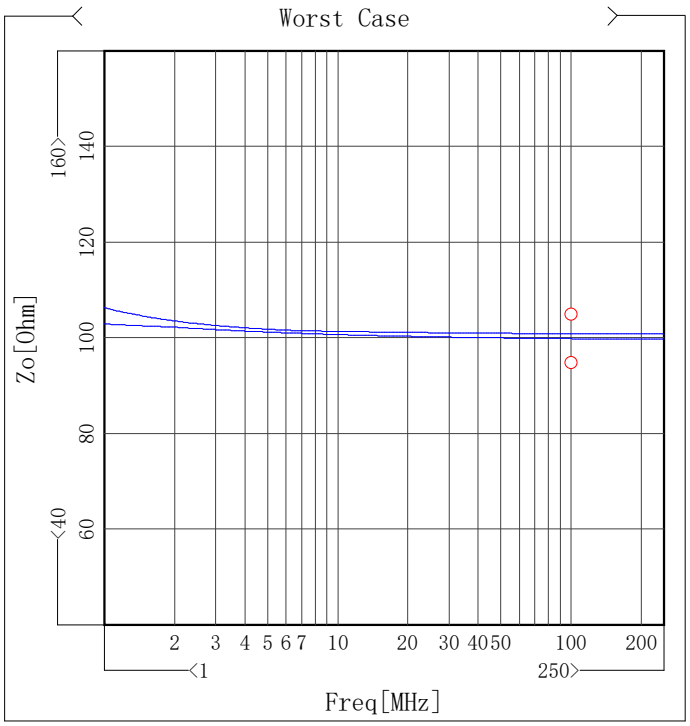


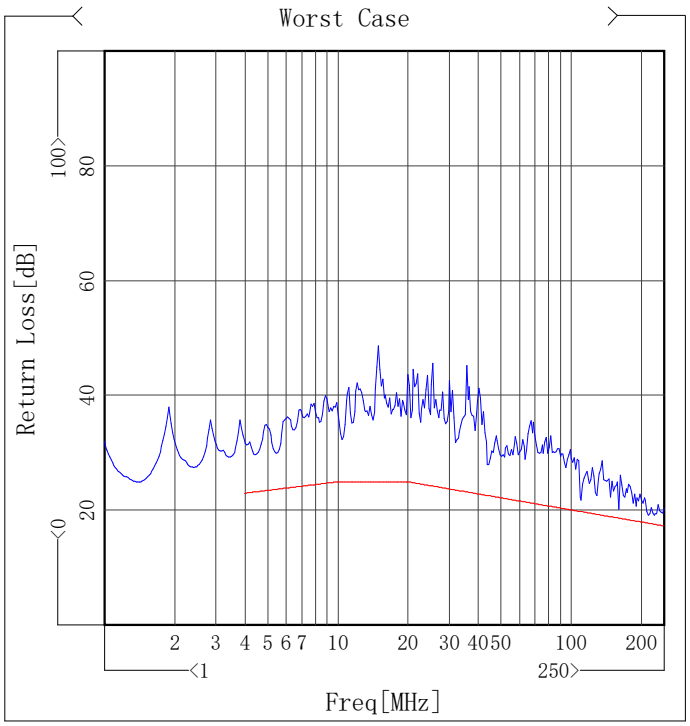


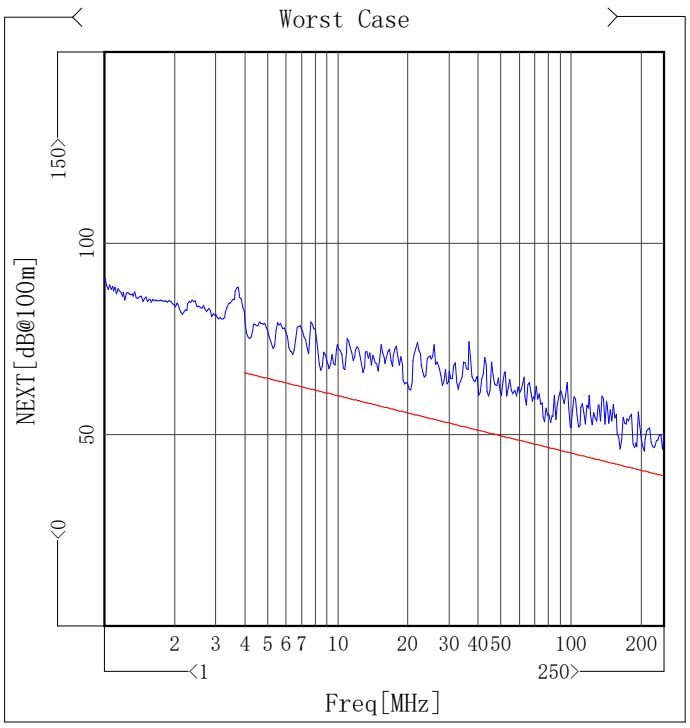


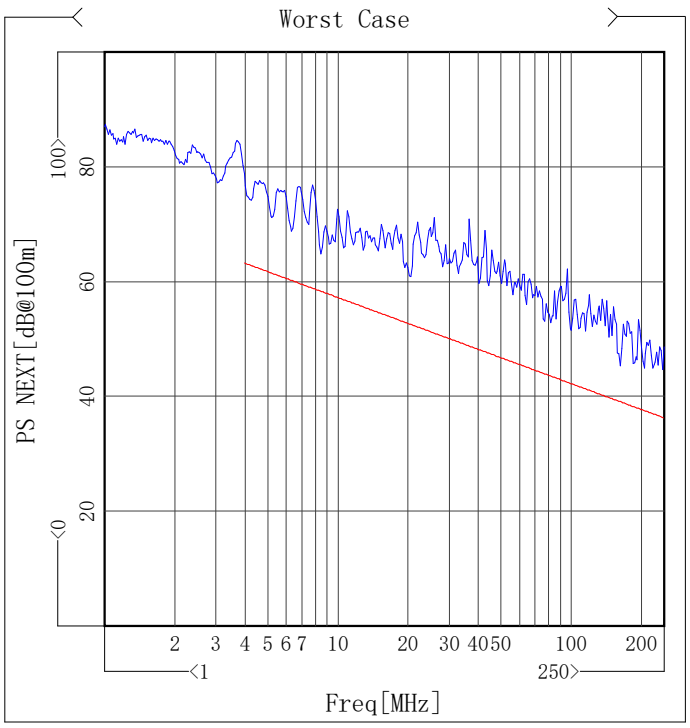
Worst Summary Of High Freq Parameter(2)

Item	Max	Freq[MHz]	Spec	Margin	Min	Freq[MHz]	Spec	Margin
✔ Zo[Ohm]	100.95	100.00	105.00	4.05	99.92	100.00	95.00	4.92
✔ Return Loss[dB]	/	/	/	/	19.18	217.48	17.75	1.43
✔ NEXT[dB@100m]	/	/	/	/	46.37	164.54	42.06	4.31
✔ PS NEXT[dB@100m]	/	/	/	/	45.43	164.54	39.06	6.37



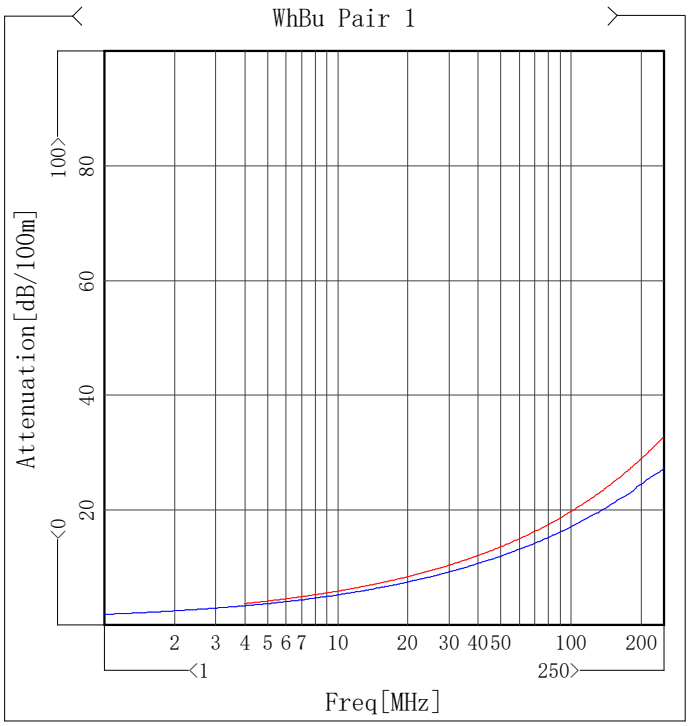


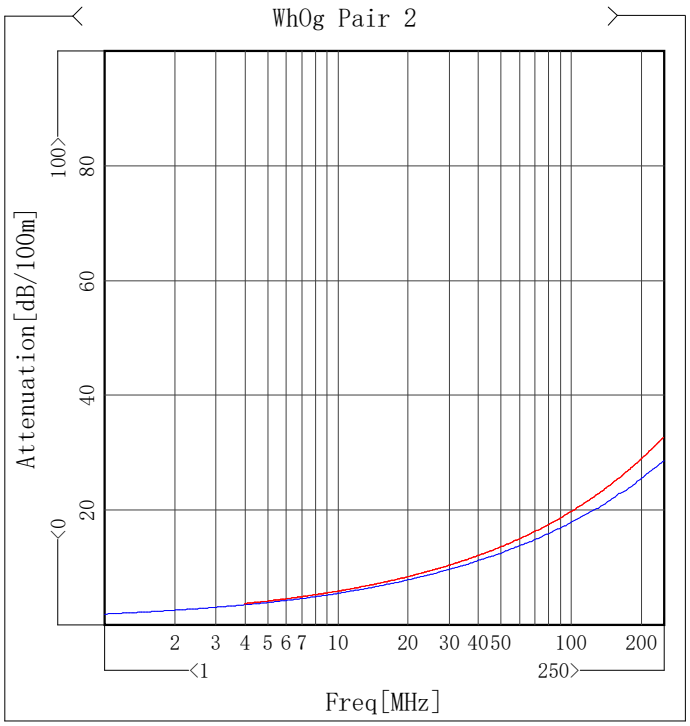


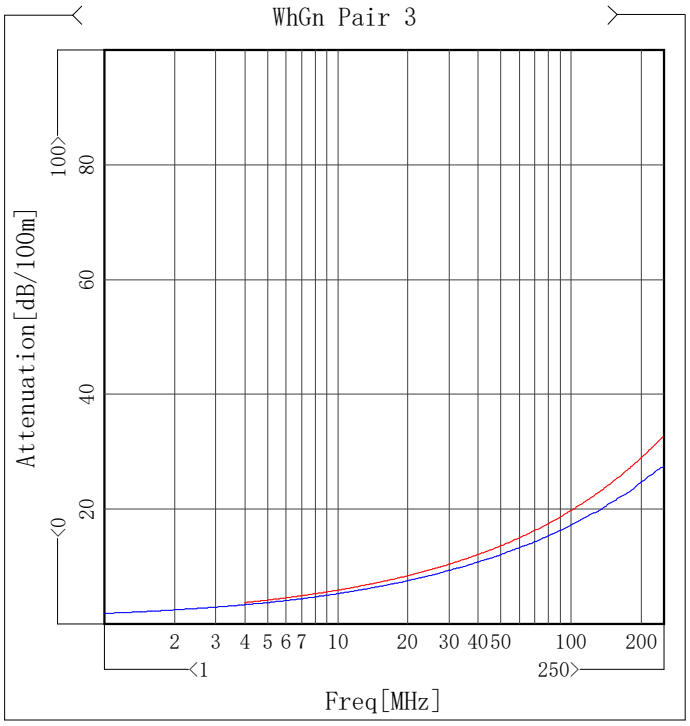


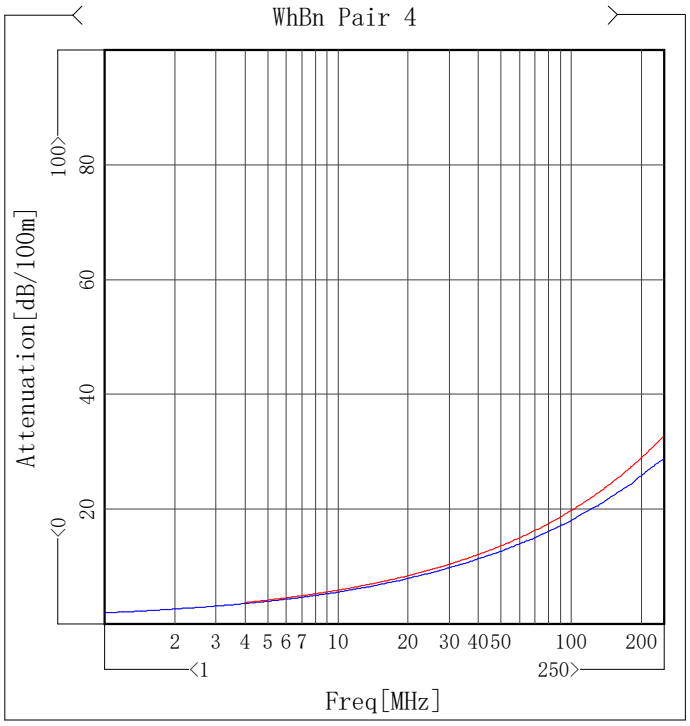
Attenuation

Item	Max [dB/100m]	Freq[MHz]	Spec [dB/100m]	Margin [dB/100m]
✔ WhBu Pair 1	3.40	4.02	3.79	0.39
✔ WhOg Pair 2	3.64	4.20	3.87	0.23
✔ WhGn Pair 3	3.48	4.20	3.87	0.39
✔ WhBn Pair 4	3.61	4.02	3.79	0.18



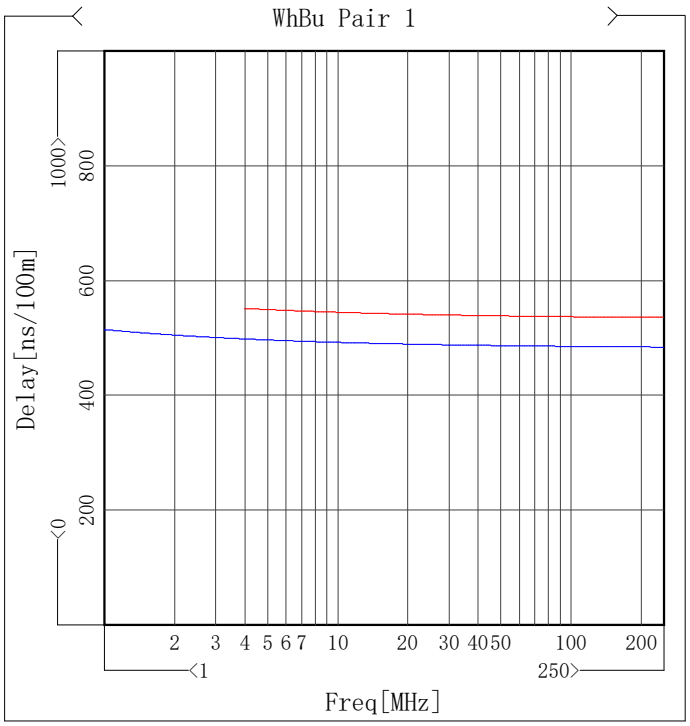


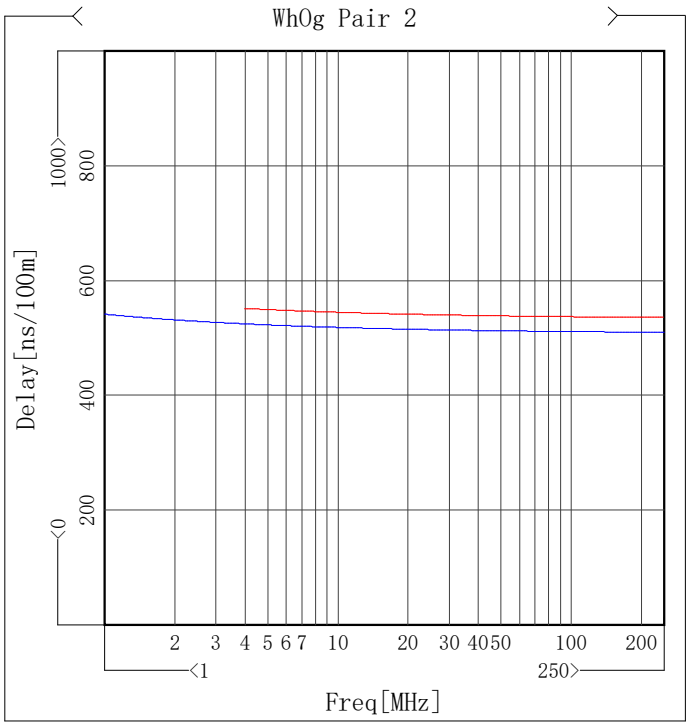


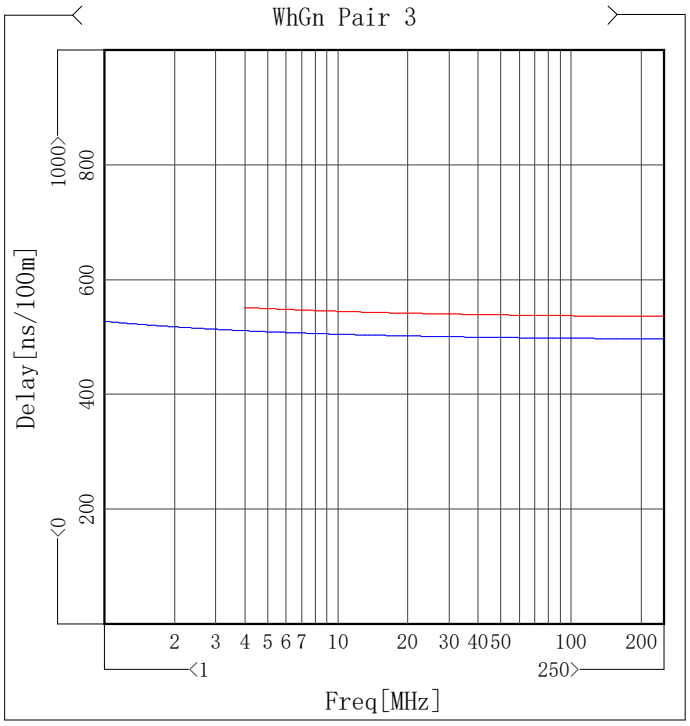


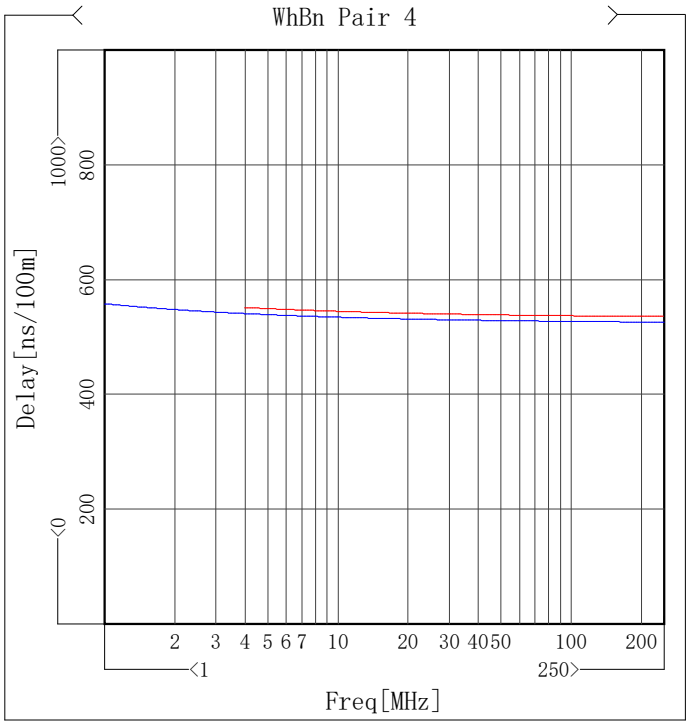
Delay

Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
✔ WhBu Pair 1	484.74	244.09	536.30	51.56
✔ WhOg Pair 2	510.57	232.26	536.36	25.79
✔ WhGn Pair 3	497.20	247.04	536.29	39.09
✔ WhBn Pair 4	526.51	244.09	536.30	9.79



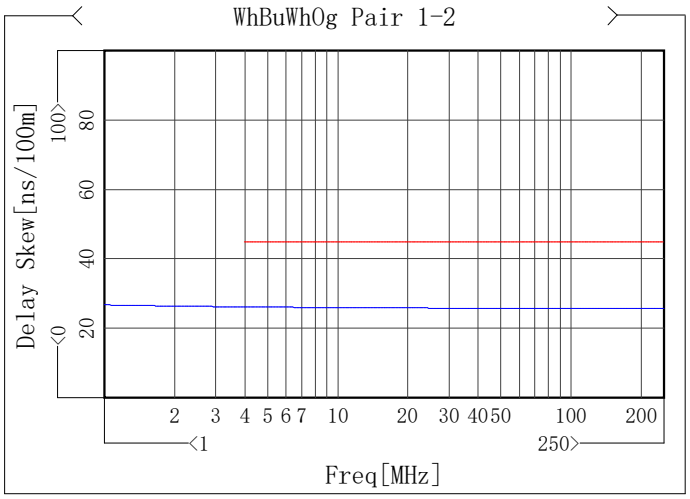


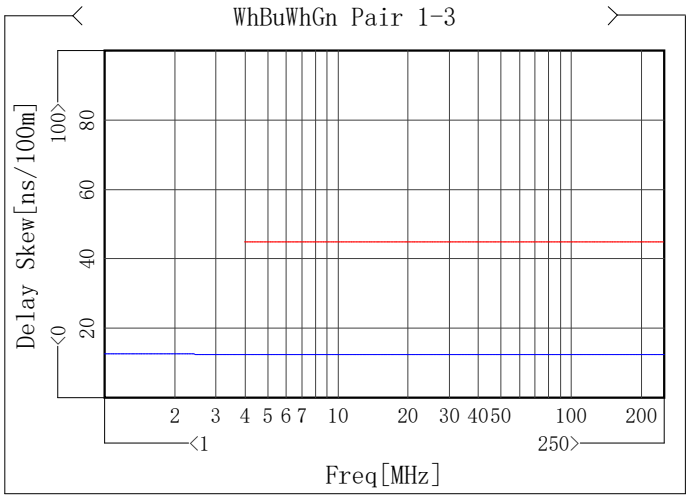


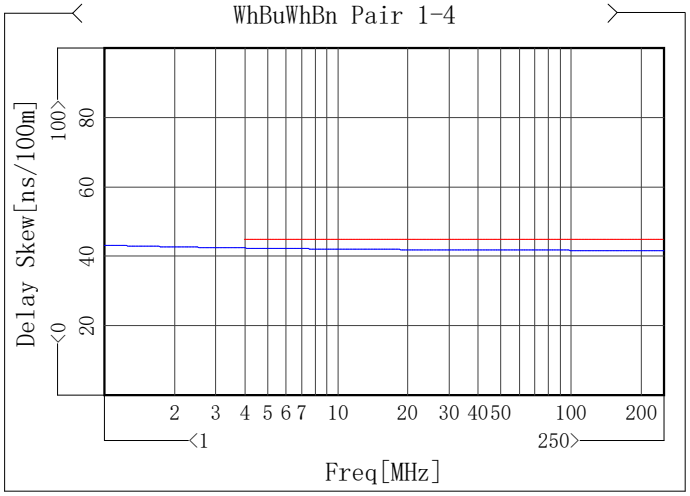


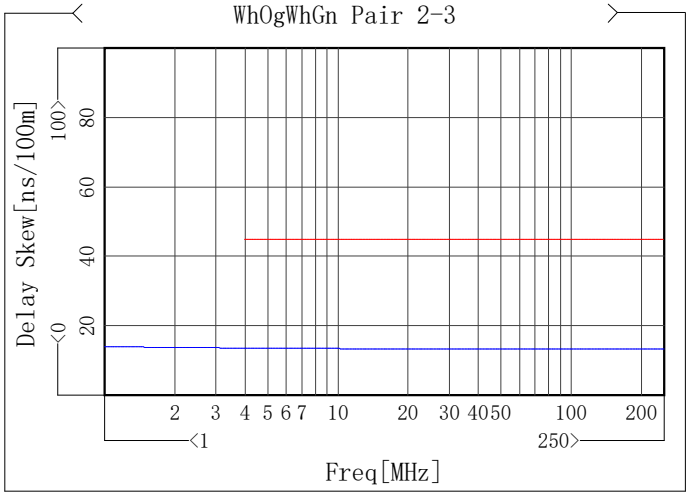
Delay Skew

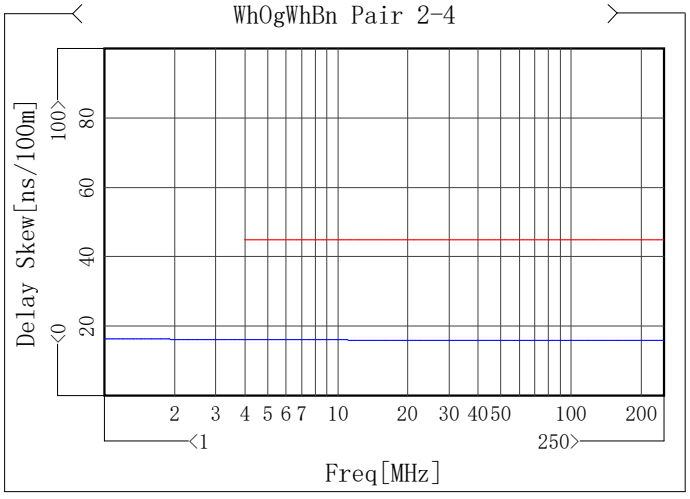
Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
✔ WhBuWhOg Pair 1-2	26.26	4.14	45.00	18.74
✔ WhBuWhGn Pair 1-3	12.59	4.73	45.00	32.41
✔ WhBuWhBn Pair 1-4	42.49	4.08	45.00	2.51
✔ WhOgWhGn Pair 2-3	13.67	4.08	45.00	31.33
✔ WhOgWhBn Pair 2-4	16.23	4.02	45.00	28.77
✔ WhGnWhBn Pair 3-4	29.90	4.02	45.00	15.10

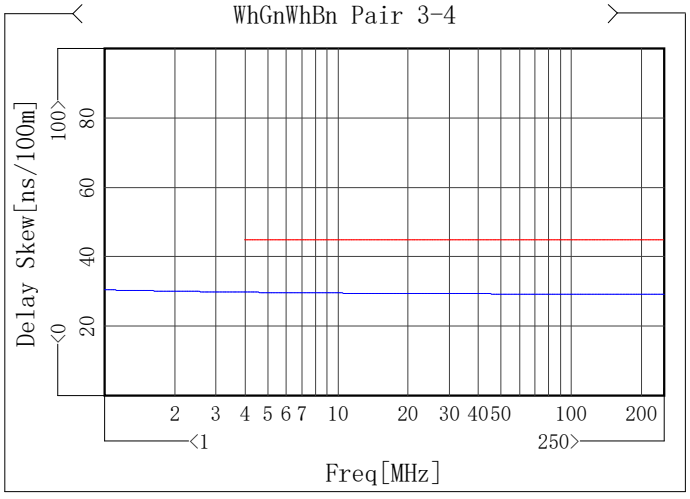






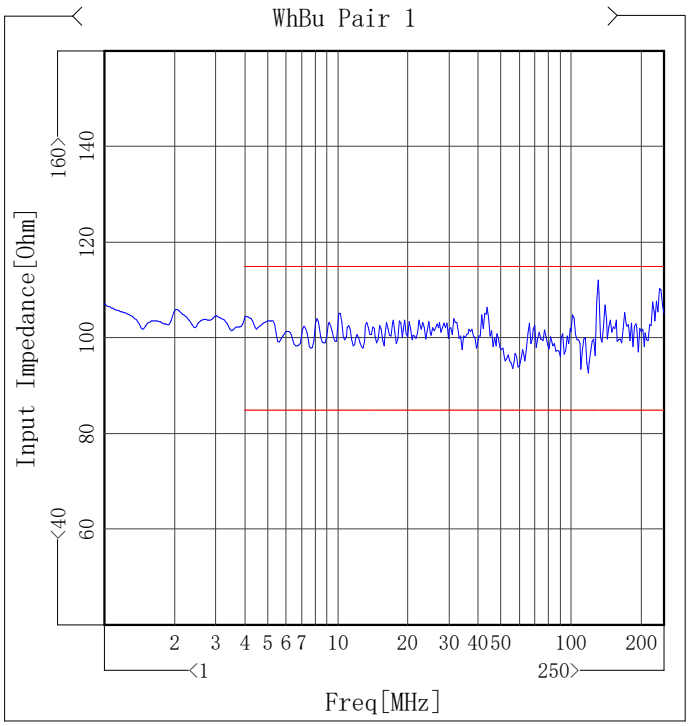


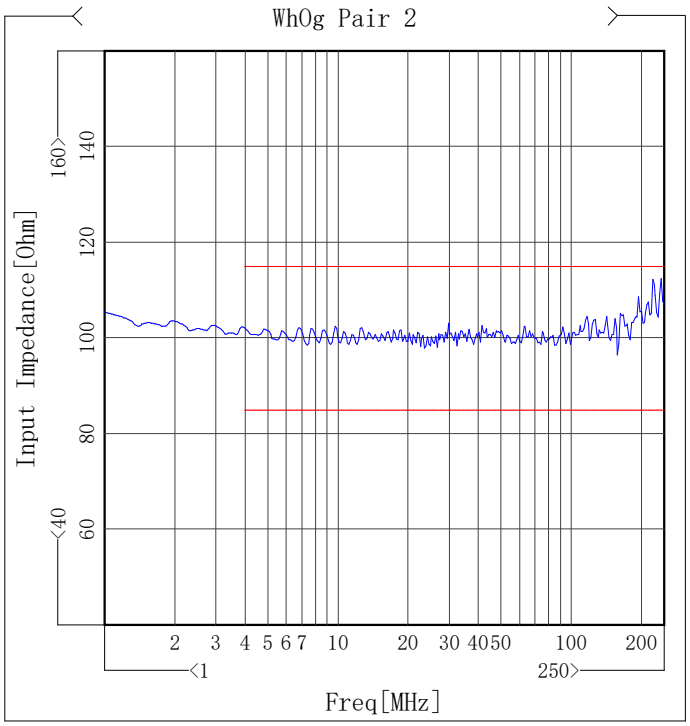


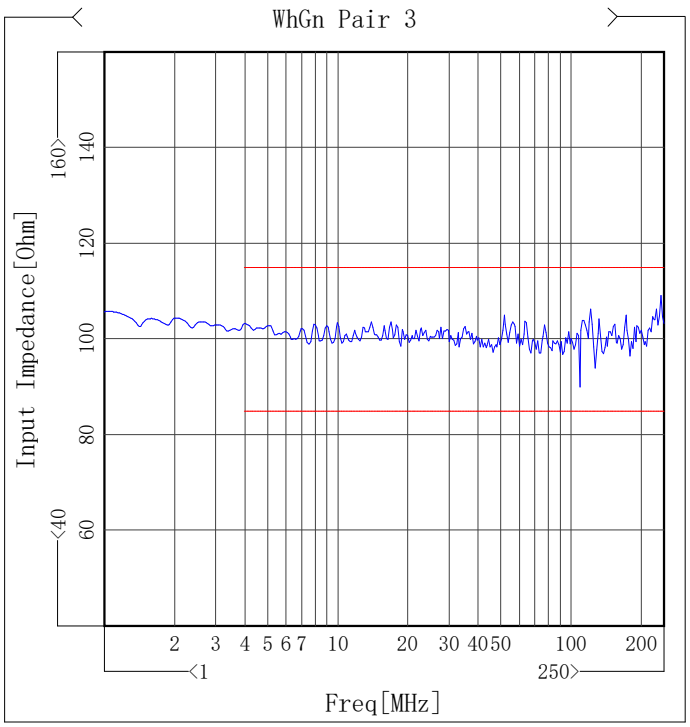


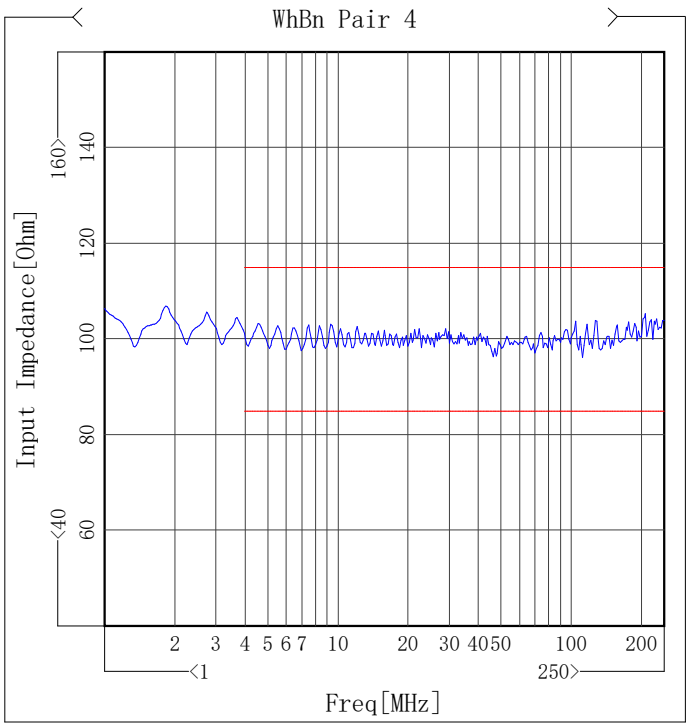
Input Impedance

Item	Max [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]	Min [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]
✔ WhBu Pair 1	112.21	130.67	115.00	2.79	92.72	119.85	85.00	7.72
✔ WhOg Pair 2	112.44	244.09	115.00	2.56	96.58	160.27	85.00	11.58
✔ WhGn Pair 3	109.10	244.09	115.00	5.90	90.01	110.58	85.00	5.01
✔ WhBn Pair 4	105.32	211.56	115.00	9.68	96.24	113.67	85.00	11.24



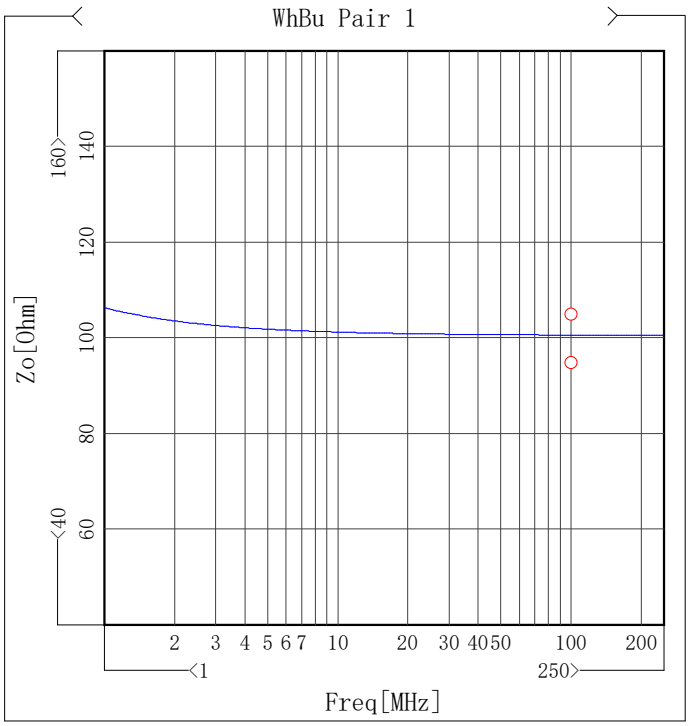


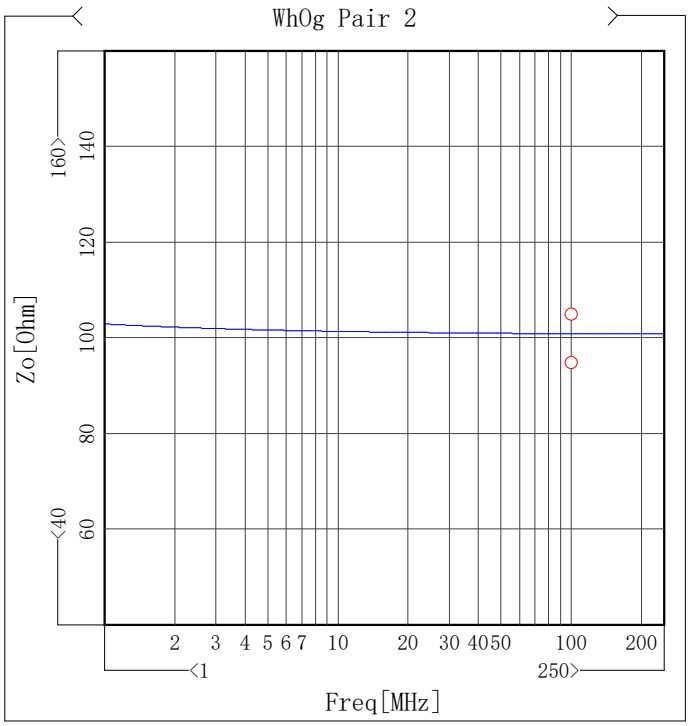


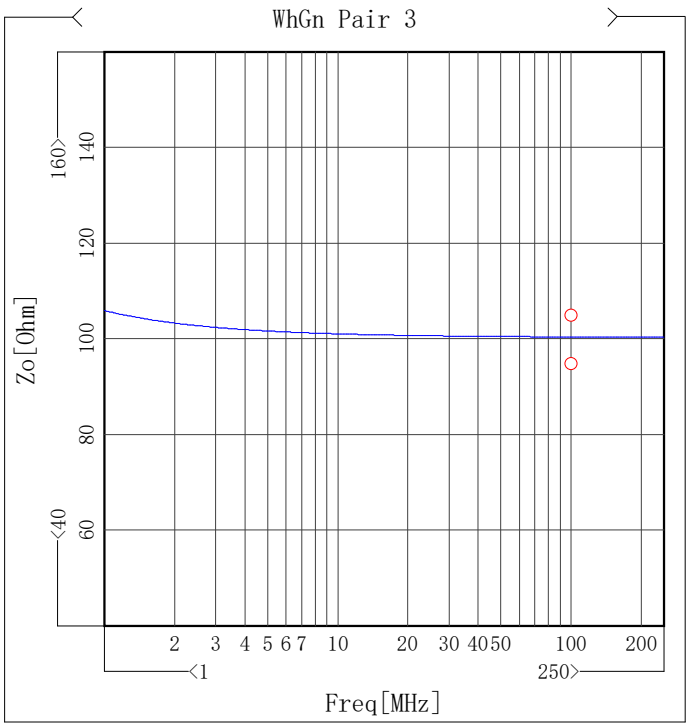


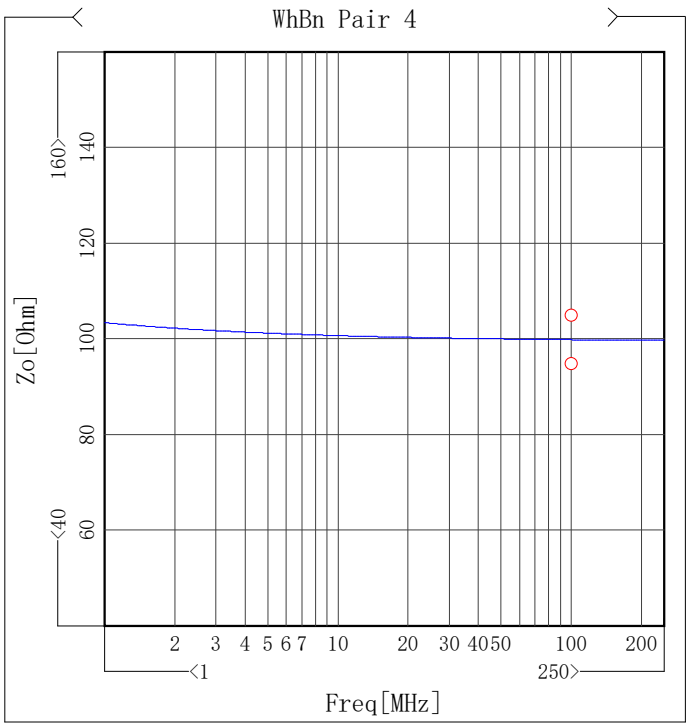
Zo

Item	Max [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]	Min [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]
✔ WhBu Pair 1	100.68	100.00	105.00	4.32	100.68	100.00	95.00	5.68
✔ WhOg Pair 2	100.95	100.00	105.00	4.05	100.95	100.00	95.00	5.95
✔ WhGn Pair 3	100.51	100.00	105.00	4.49	100.51	100.00	95.00	5.51
✔ WhBn Pair 4	99.92	100.00	105.00	5.08	99.92	100.00	95.00	4.92



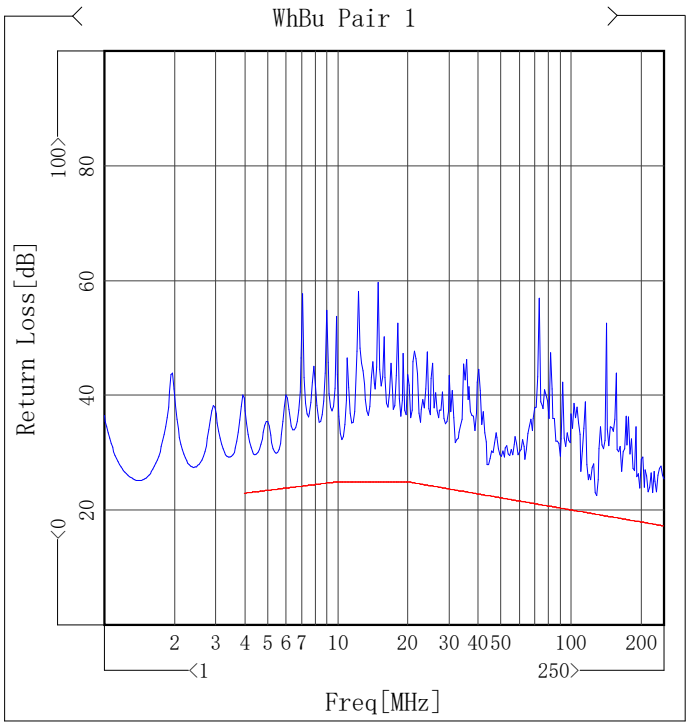


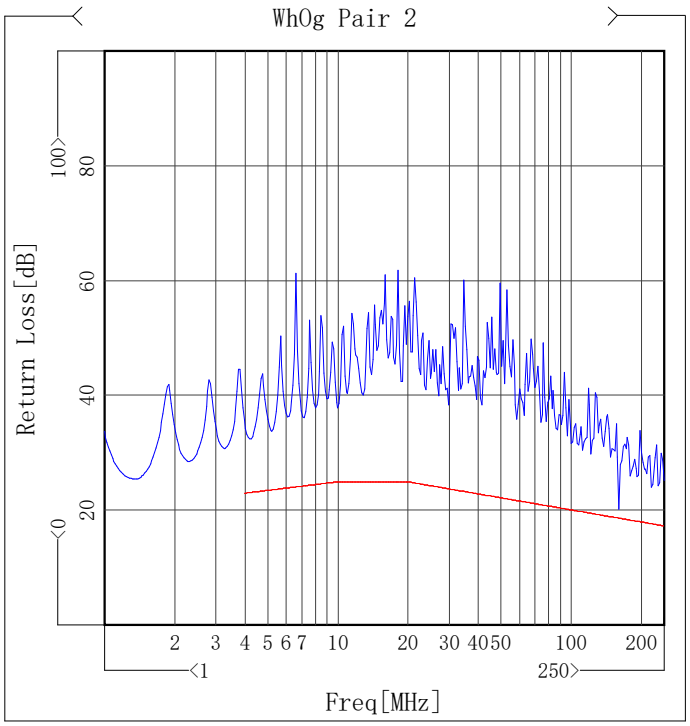


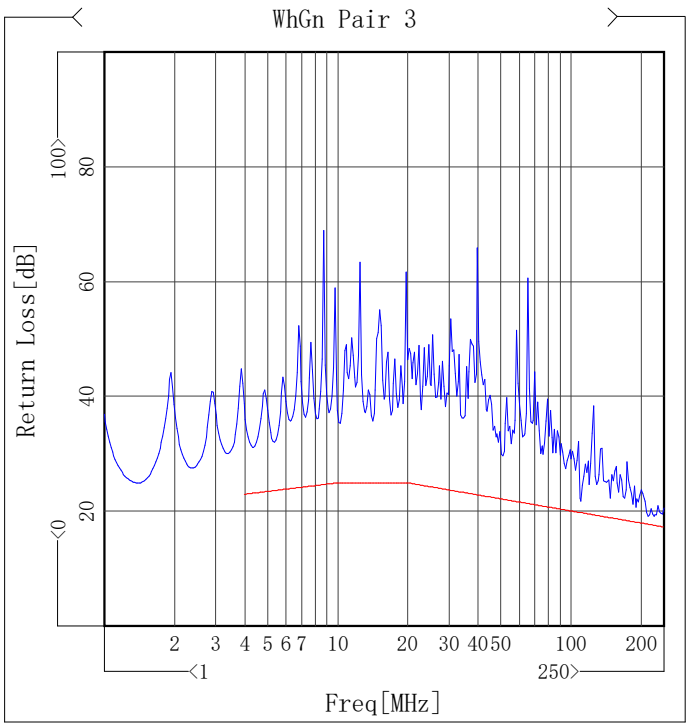


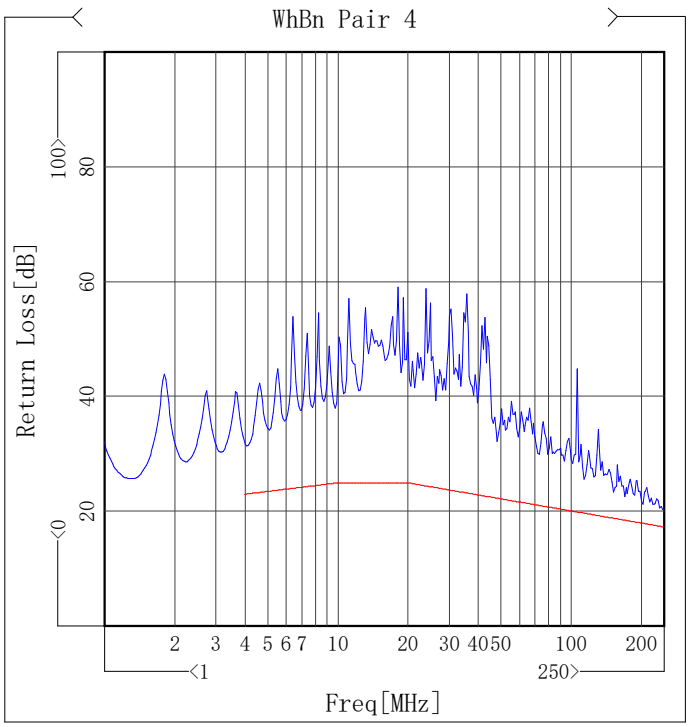
Return Loss

Item	Min [dB]	Freq[MHz]	Spec [dB]	Margin [dB]
✔ WhBu Pair 1	22.60	129.13	19.33	3.27
✔ WhOg Pair 2	20.18	162.41	18.63	1.55
✔ WhGn Pair 3	19.18	217.48	17.75	1.43
✔ WhBn Pair 4	20.29	247.04	17.36	2.93



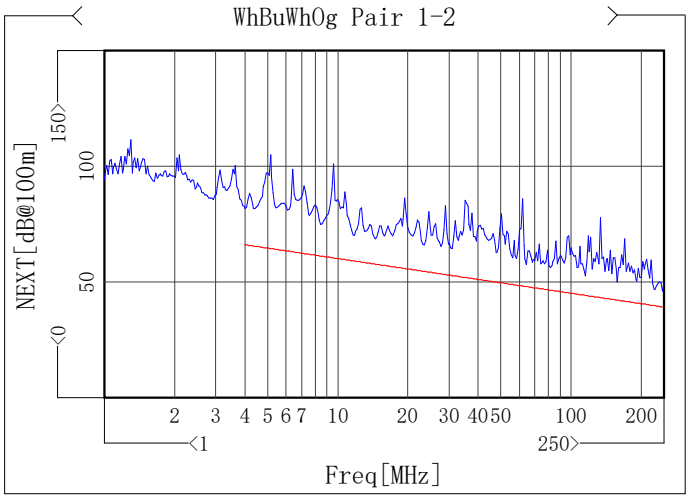


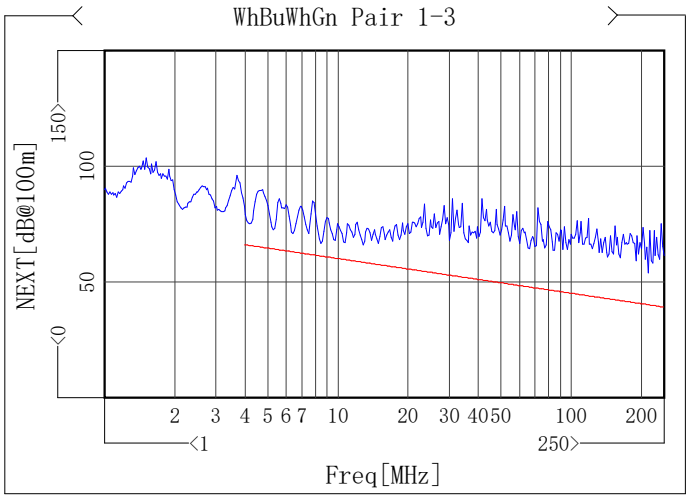


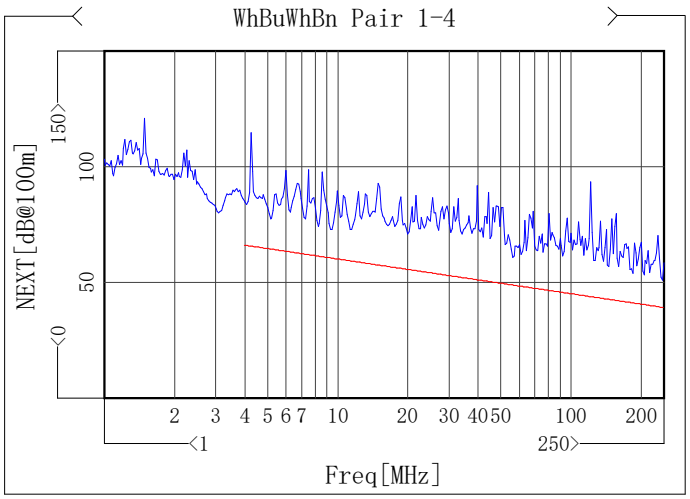


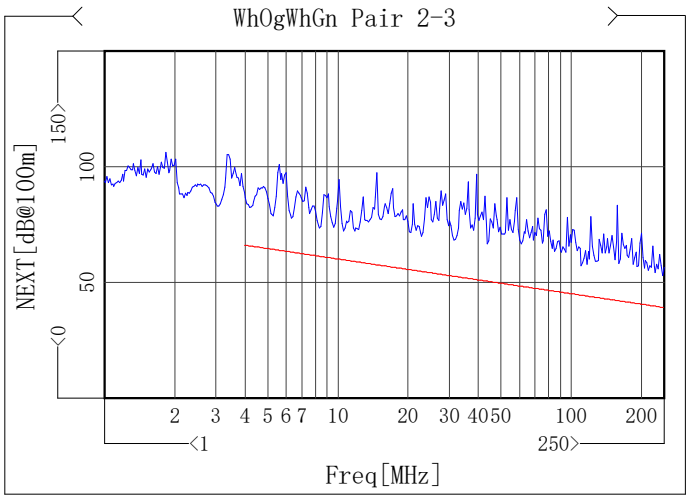
NEXT

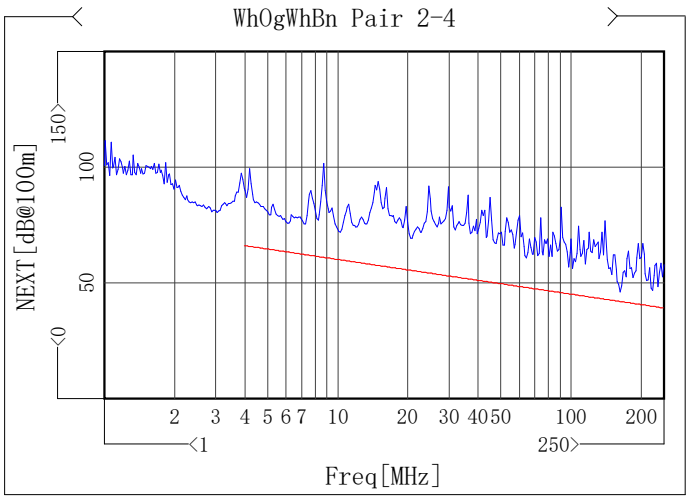
Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
✔ WhBuWhOg Pair 1-2	46.25	247.04	39.41	6.84
✔ WhBuWhGn Pair 1-3	66.96	8.59	61.29	5.67
✔ WhBuWhBn Pair 1-4	51.21	247.04	39.41	11.80
✔ WhOgWhGn Pair 2-3	73.81	8.47	61.38	12.43
✔ WhOgWhBn Pair 2-4	46.37	164.54	42.06	4.31
✔ WhGnWhBn Pair 3-4	45.79	208.60	40.51	5.28

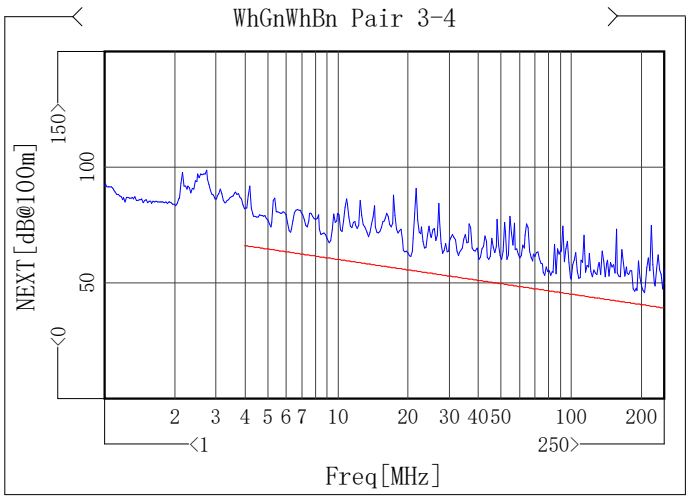






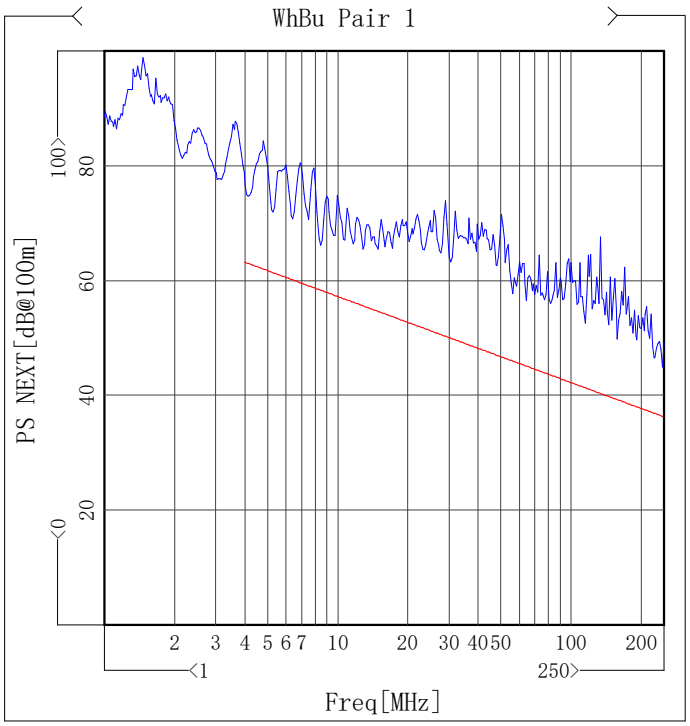


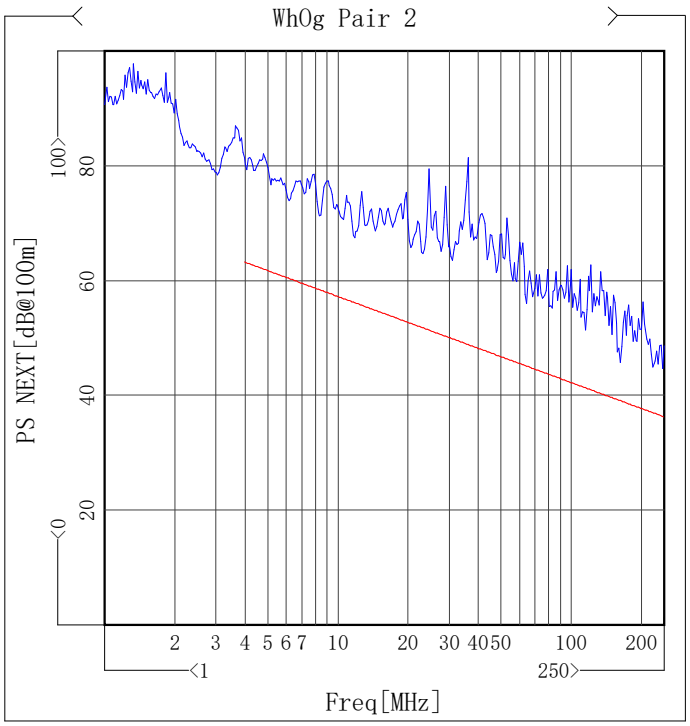


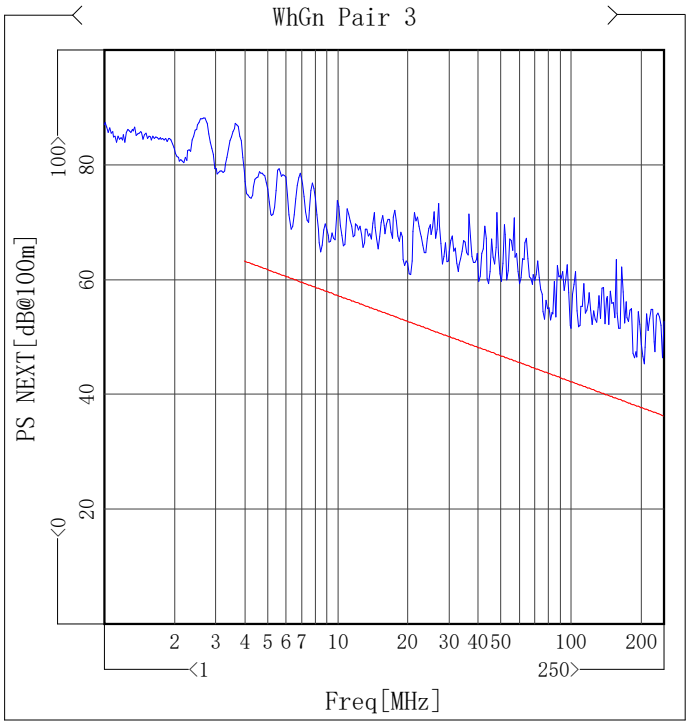


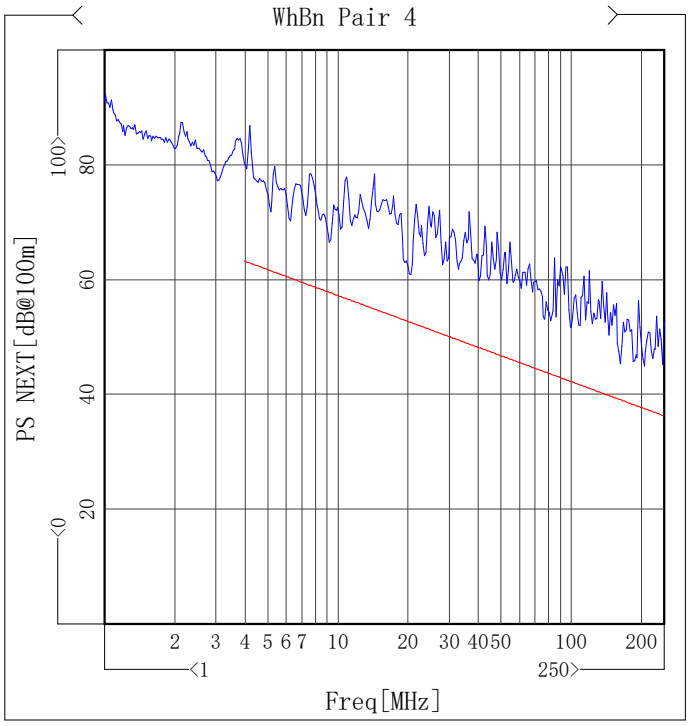
PS NEXT

Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
✔ WhBu Pair 1	66.19	8.59	58.29	7.90
✔ WhOg Pair 2	45.80	164.54	39.06	6.74
✔ WhGn Pair 3	64.95	8.59	58.29	6.66
✔ WhBn Pair 4	45.43	164.54	39.06	6.37









Attenuation[dB/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	\	1.87	1.95	1.88	1.98
2	4	3.78	3.39	3.56	3.40	3.60
3	8	5.32	4.71	4.95	4.74	5.00
4	10	5.95	5.27	5.54	5.31	5.59
5	16	7.55	6.70	7.03	6.75	7.10
6	20	8.47	7.52	7.88	7.57	7.96
7	25	9.51	8.43	8.83	8.49	8.93
8	31.25	10.67	9.45	9.89	9.53	10.01
9	50	13.66	12.00	12.54	12.09	12.70
10	62.5	15.38	13.43	14.05	13.56	14.22
11	100	19.8	17.11	17.81	17.19	18.05
12	125	22.36	19.22	19.98	19.30	20.23
13	200	28.98	24.42	25.43	24.61	25.78
14	250	32.85	27.29	28.66	27.57	28.89

Delay[ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	\	515.18	542.01	527.91	558.49
2	4	552	498.99	525.26	511.59	541.49
3	8	546.73	494.21	520.31	506.77	536.46
4	10	545.38	492.95	519.01	505.50	535.14
5	16	543	490.83	516.81	503.36	532.91
6	20	542.05	489.95	515.91	502.47	531.99
7	25	541.2	489.17	515.09	501.68	531.16
8	31.25	540.44	488.50	514.40	501.01	530.46
9	50	539.09	487.25	513.11	499.75	529.15
10	62.5	538.55	486.79	512.63	499.28	528.66
11	100	537.6	485.91	511.72	498.40	527.74
12	125	537.22	485.57	511.37	498.05	527.38
13	200	536.55	484.96	510.74	497.44	526.74
14	250	536.28	484.71	510.48	497.18	526.48

Delay Skew[ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	\	26.83	12.74	43.32	14.10	16.48	30.58
2	4	45	26.27	12.60	42.49	13.67	16.23	29.90
3	8	45	26.10	12.56	42.25	13.54	16.15	29.70
4	10	45	26.06	12.54	42.19	13.51	16.13	29.64
5	16	45	25.98	12.53	42.08	13.46	16.10	29.55
6	20	45	25.95	12.52	42.03	13.43	16.08	29.52
7	25	45	25.92	12.51	41.99	13.41	16.07	29.48
8	31.25	45	25.90	12.51	41.96	13.39	16.06	29.45
9	50	45	25.86	12.50	41.90	13.36	16.04	29.40
10	62.5	45	25.84	12.49	41.87	13.35	16.03	29.38
11	100	45	25.81	12.48	41.83	13.33	16.02	29.35

Delay Skew[ns/100m](Continuation 1)

No.	Freq [MHz]	Spec (Max)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
12	125	45	25.80	12.48	41.81	13.32	16.01	29.33
13	200	45	25.78	12.48	41.78	13.30	16.00	29.31
14	250	45	25.77	12.47	41.77	13.29	16.00	29.29

Input Impedance[Ohm]

No.	Freq [MHz]	Spec		WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
		(Max)	(Min)				
1	1	\	\	107.23	105.49	105.67	106.48
2	4	115	85	103.75	102.31	103.18	101.55
3	8	115	85	99.38	101.41	102.99	98.30
4	10	115	85	100.61	101.28	103.14	98.81
5	16	115	85	98.54	99.79	102.76	101.92
6	20	115	85	100.67	99.35	100.91	99.82
7	25	115	85	101.25	98.52	100.56	99.00
8	31.25	115	85	101.42	100.70	100.38	100.14
9	50	115	85	97.93	101.29	99.26	98.59
10	62.5	115	85	97.28	100.27	99.13	99.05
11	100	115	85	101.97	98.89	99.17	99.31
12	125	115	85	99.52	103.27	101.56	98.98
13	200	115	85	102.06	105.55	101.31	100.53
14	250	115	85	105.26	107.14	103.39	103.90

Zo[Ohm]

No.	Freq [MHz]	Spec		WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
		(Max)	(Min)				
1	1	\	\	106.47	103.01	106.08	103.51
2	4	\	\	102.22	101.87	102.04	101.52
3	8	\	\	101.46	101.53	101.31	100.94
4	10	\	\	101.30	101.45	101.15	100.79
5	16	\	\	101.06	101.30	100.91	100.52
6	20	\	\	100.98	101.24	100.82	100.42
7	25	\	\	100.91	101.18	100.75	100.32
8	31.25	\	\	100.85	101.13	100.69	100.24
9	50	\	\	100.76	101.05	100.60	100.09
10	62.5	\	\	100.73	101.01	100.56	100.03
11	100	105	95	100.68	100.95	100.51	99.92
12	125	\	\	100.66	100.93	100.49	99.88
13	200	\	\	100.63	100.89	100.45	99.81
14	250	\	\	100.62	100.87	100.44	99.78

Return Loss[dB]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	\	36.50	33.83	37.01	32.13
2	4	23.01	39.70	36.41	39.79	32.47
3	8	24.52	44.75	38.94	40.43	38.99
4	10	25	48.17	38.29	39.97	40.81

Return Loss[dB](Continuation 1)

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
5	16	25	50.03	56.19	39.56	46.96
6	20	25	39.61	51.00	55.30	48.48
7	25	24.32	36.82	43.57	42.86	55.78
8	31.25	23.64	39.25	52.44	50.40	52.80
9	50	22.21	29.66	54.57	32.51	36.18
10	62.5	21.54	32.09	38.95	33.52	36.14
11	100	20.11	32.55	34.37	30.49	30.42
12	125	19.43	27.73	32.38	35.20	26.95
13	200	18	24.35	33.60	22.91	23.37
14	250	17.32	25.52	25.28	20.65	20.42

NEXT[dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	\	94.48	90.18	103.31	93.97	100.73	91.98
2	4	66.27	83.06	83.75	85.78	89.76	92.19	82.71
3	8	61.75	82.66	84.47	86.84	83.04	84.75	77.97
4	10	60.3	85.47	74.20	87.64	84.09	73.89	78.71
5	16	57.24	70.21	70.60	77.99	82.90	83.10	76.85
6	20	55.78	77.28	74.62	72.61	77.97	80.33	63.60
7	25	54.33	73.88	76.51	76.60	84.98	86.91	70.93
8	31.25	52.88	64.70	79.54	72.60	72.40	82.43	70.53
9	50	49.82	75.63	71.23	77.13	73.06	71.66	61.34
10	62.5	48.36	83.85	73.09	63.20	67.96	71.41	65.68
11	100	45.3	62.43	67.12	68.17	70.16	64.05	52.25
12	125	43.85	57.26	65.42	67.64	64.48	65.09	53.79
13	200	40.78	52.22	66.97	65.33	67.51	60.79	52.14
14	250	39.33	49.99	61.55	58.65	56.83	58.01	56.05

PS NEXT[dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	\	88.65	90.75	87.00	91.16
2	4	63.27	79.22	81.77	79.71	80.65
3	8	58.75	79.55	78.59	76.11	76.70
4	10	57.3	73.69	73.19	72.56	72.41
5	16	54.24	67.03	69.78	69.47	73.82
6	20	52.78	69.50	73.49	63.11	62.97
7	25	51.33	70.39	73.33	69.52	69.78
8	31.25	49.88	63.71	63.89	67.31	68.26
9	50	46.82	68.99	68.12	60.62	60.79
10	62.5	45.36	62.71	66.19	63.14	60.81
11	100	42.3	60.37	59.62	52.03	51.83
12	125	40.85	55.58	55.68	53.07	52.95
13	200	37.78	51.87	51.54	51.87	51.38
14	250	36.33	49.18	48.64	52.79	52.65