Test Information

Test Time : 2024/03/13 15:13:33	Temperature:25C
Standard:TIA-568-C.2 Cat6A	Test Result:Pass
Cable Length:305m	Cable Type:
Tester:	Cable ID:

Test Result List

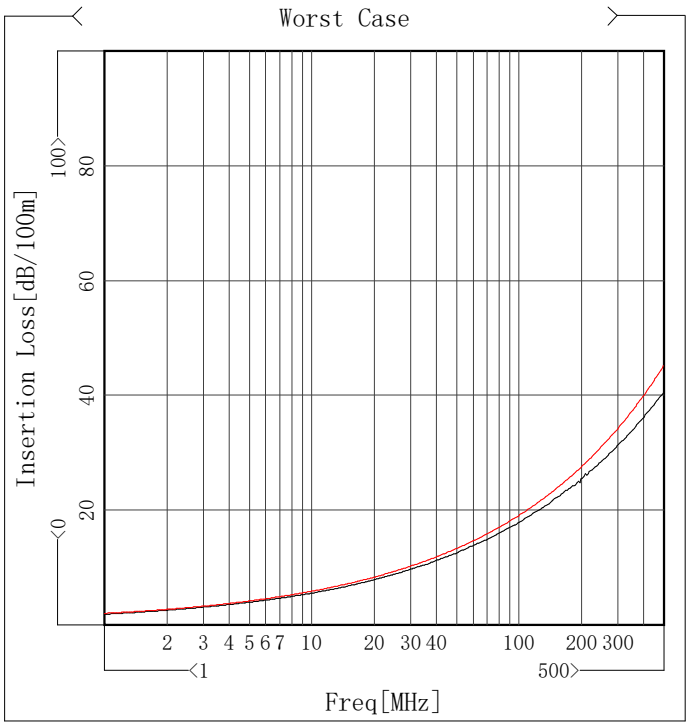
Test Item	Unit	Test Result
Insertion Loss	dB/100m	Pass
Delay	ns/100m	Pass
Delay skew	ns/100m	Pass
Return Loss	dB	Pass
NEXT	dB@100m	Pass
PS NEXT	dB@100m	Pass
ACRF	dB@100m	Pass
PS ACRF	dB@100m	Pass

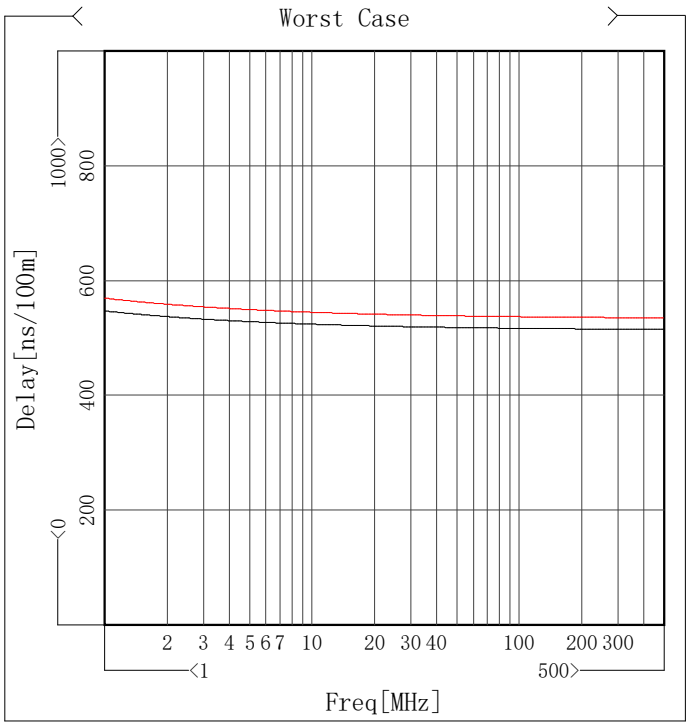
Inspector:
Date :

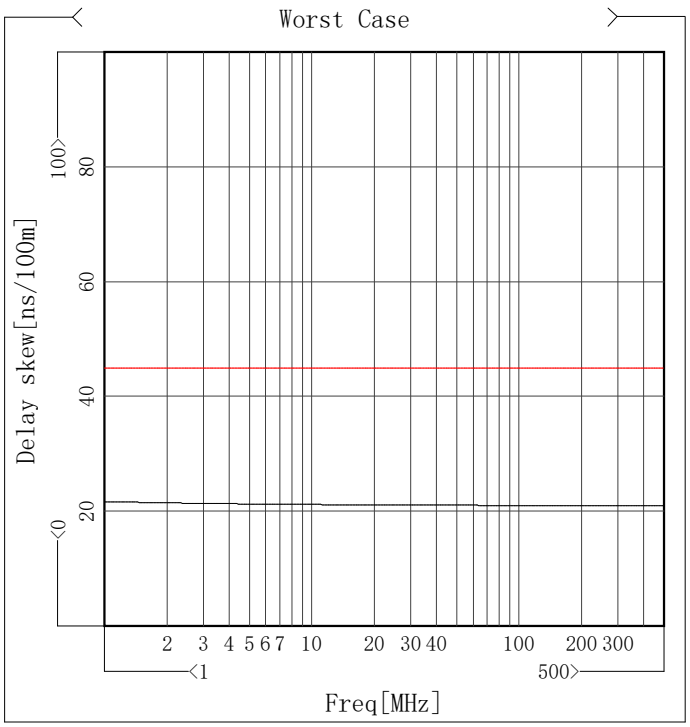
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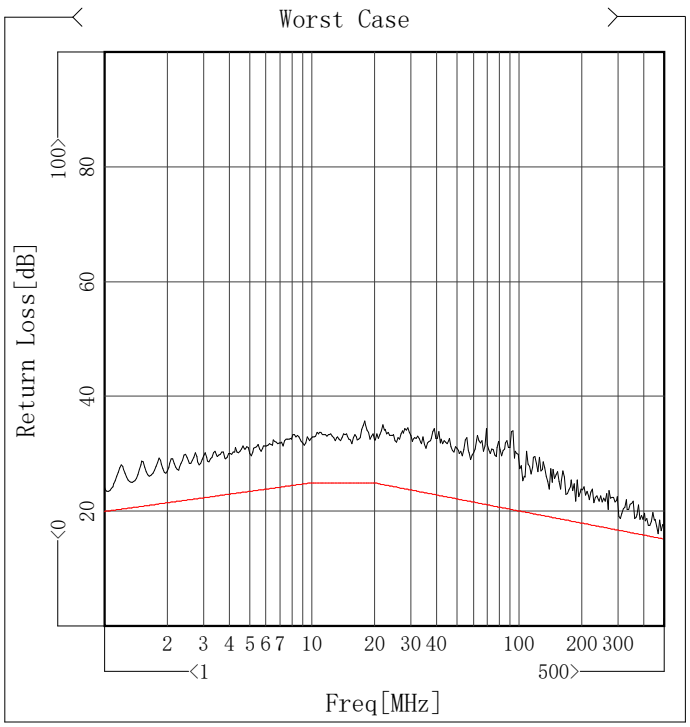
Worst Summary Of High Freq Parameter

Item	Max	Freq[MHz]	Spec	Margin	Min	Freq[MHz]	Spec	Margin
✔ Insertion Loss[dB/100m]	2.63	2.02	2.78	0.15	/	/	/	/
✔ Delay[ns/100m]	515.55	479.97	535.64	20.09	/	/	/	/
✔ Delay skew[ns/100m]	21.74	1.00	45.00	23.26	/	/	/	/
✔ Return Loss[dB]	/	/	/	/	16.11	473.29	15.38	0.73



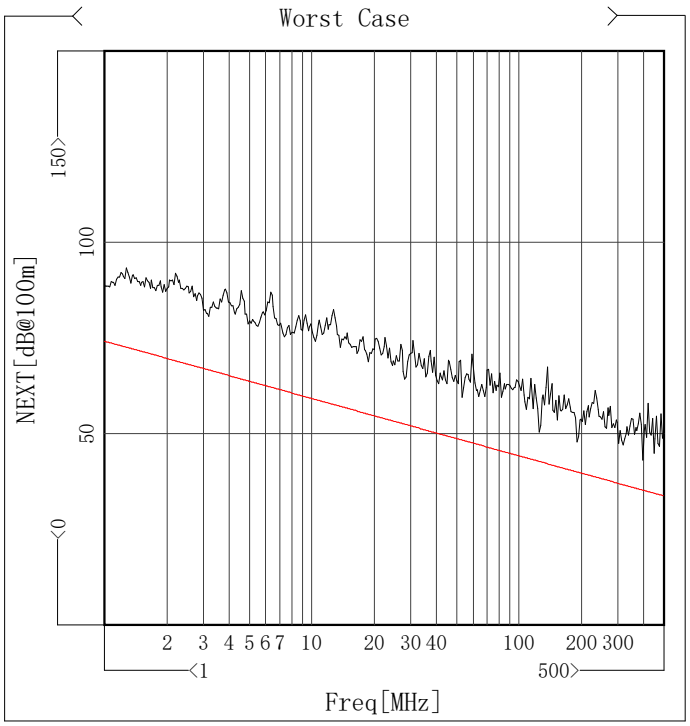


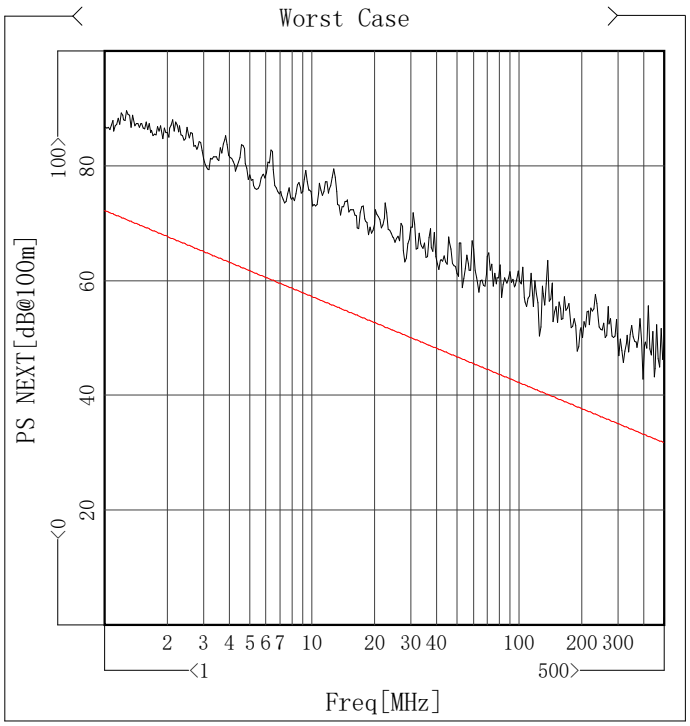


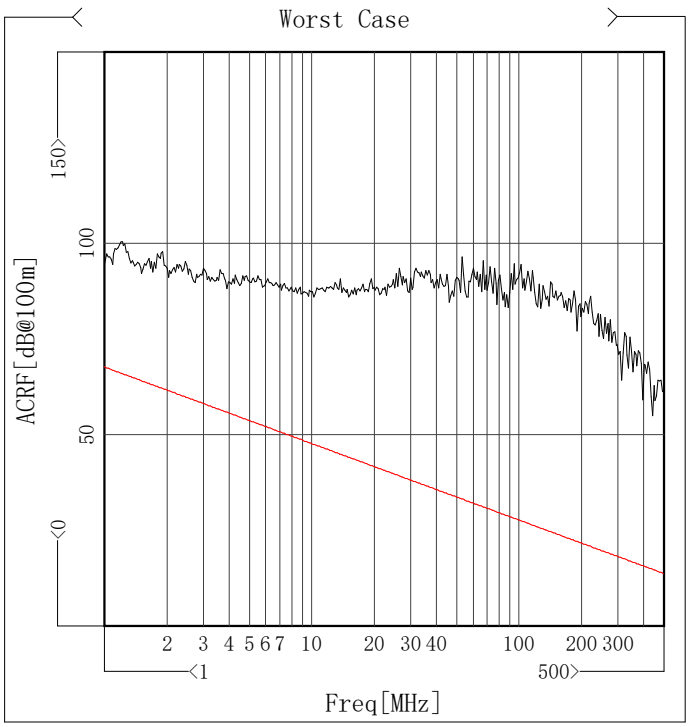


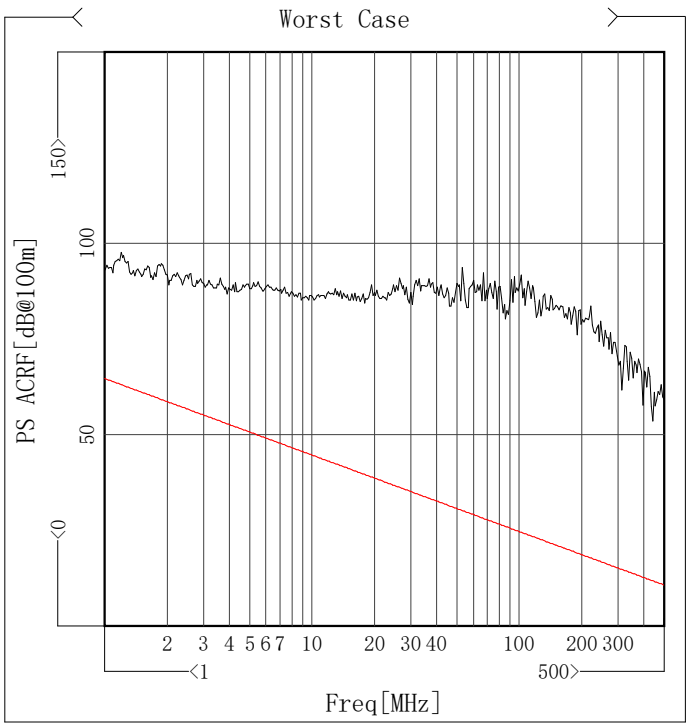
Worst Summary Of High Freq Parameter(2)

Item	Min	Freq[MHz]	Spec	Margin
✔ NEXT[dB@100m]	50.52	126.59	42.76	7.76
✔ PS NEXT[dB@100m]	42.88	399.84	33.27	9.61
✔ ACRF[dB@100m]	94.48	1.00	67.80	26.68
✔ PS ACRF[dB@100m]	93.03	1.00	64.80	28.23



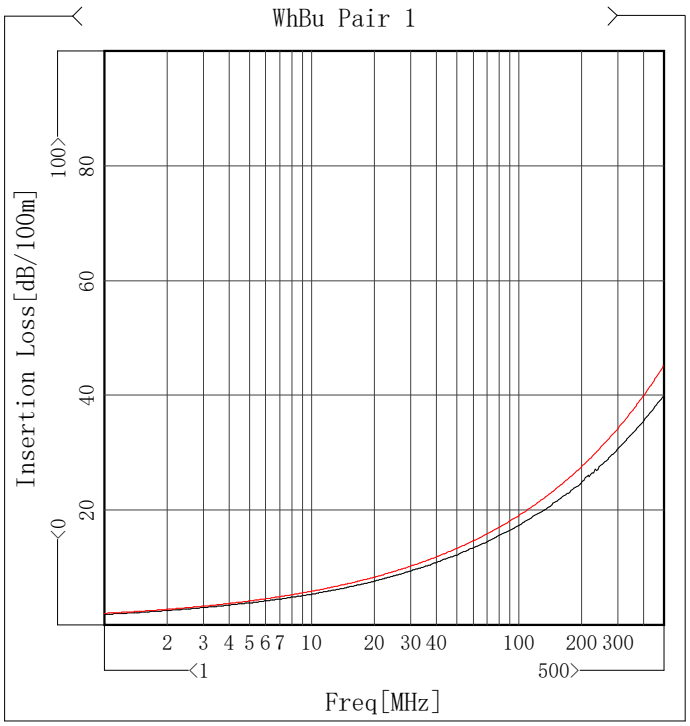


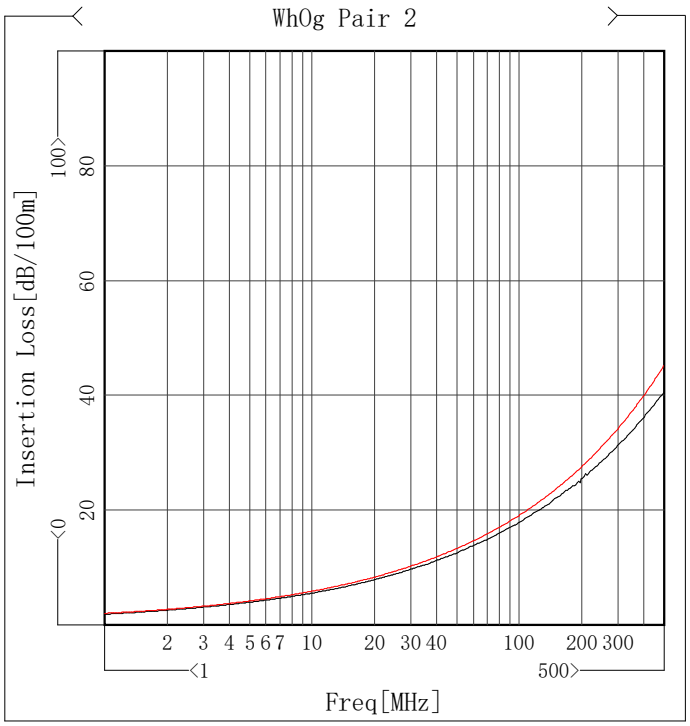


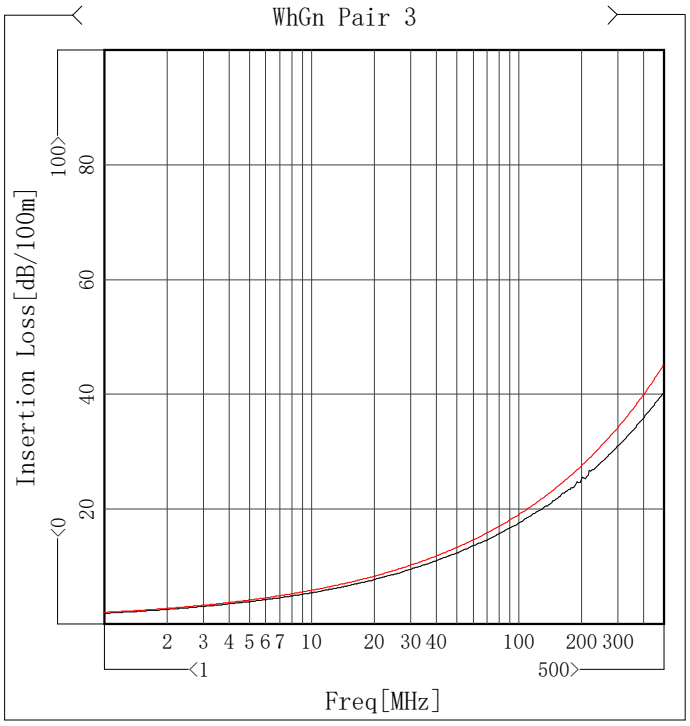


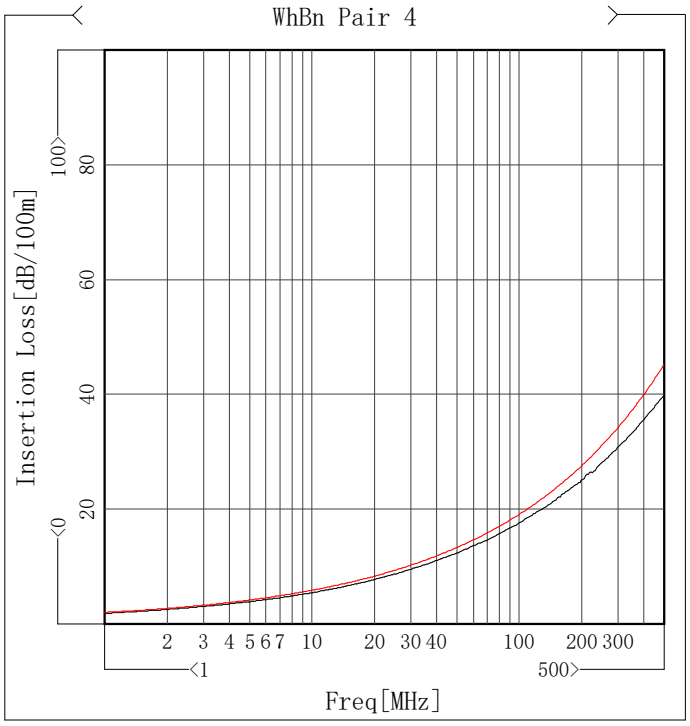
Insertion Loss

Item	Max [dB/100m]	Freq[MHz]	Spec [dB/100m]	Margin [dB/100m]
WhBu Pair 1	2.26	1.51	2.45	0.19
WhOg Pair 2	2.63	2.02	2.78	0.15
WhGn Pair 3	2.49	1.81	2.65	0.16
WhBn Pair 4	2.28	1.51	2.45	0.17



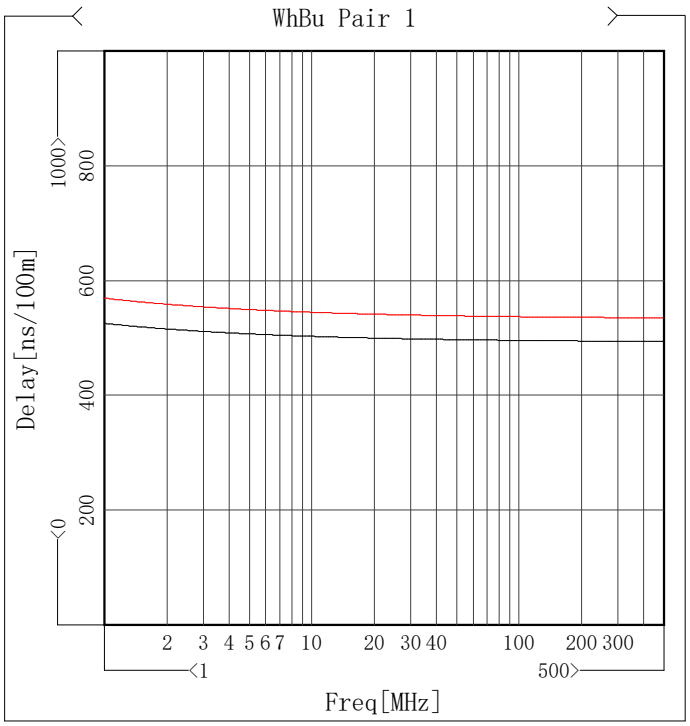


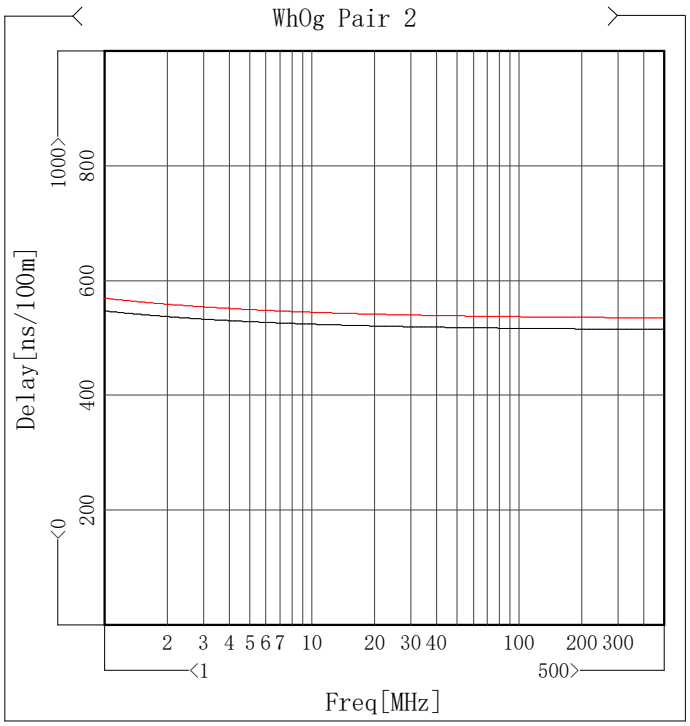


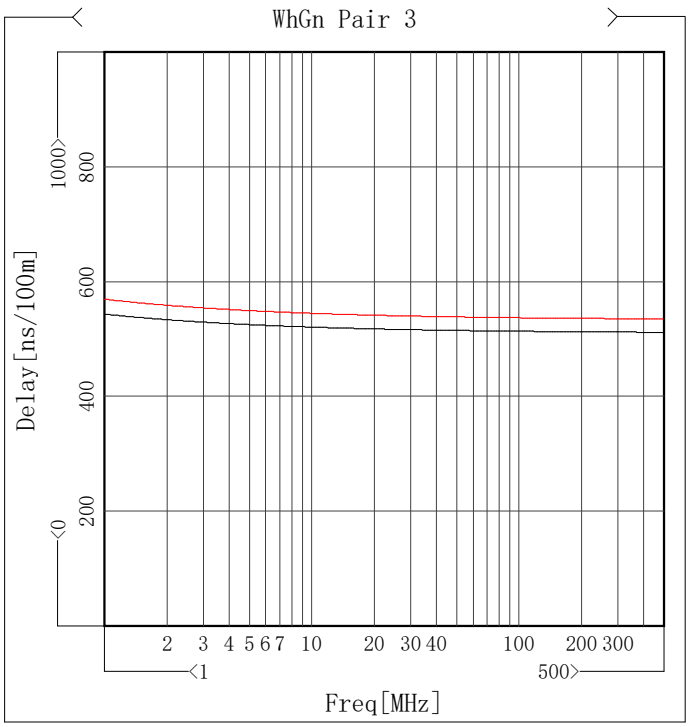


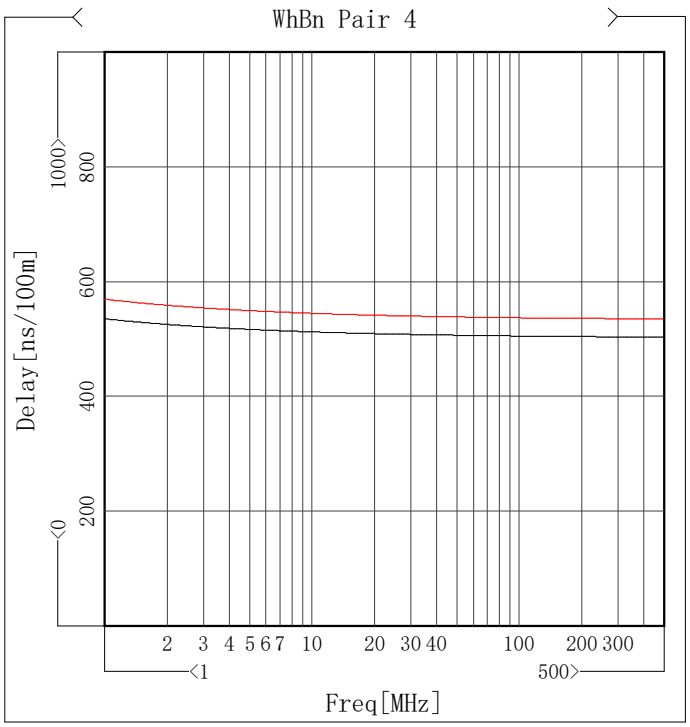
Delay

Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
WhBu Pair 1	494.53	479.97	535.64	41.11
WhOg Pair 2	515.55	479.97	535.64	20.09
WhGn Pair 3	512.28	500.00	535.61	23.33
WhBn Pair 4	503.97	473.29	535.65	31.68



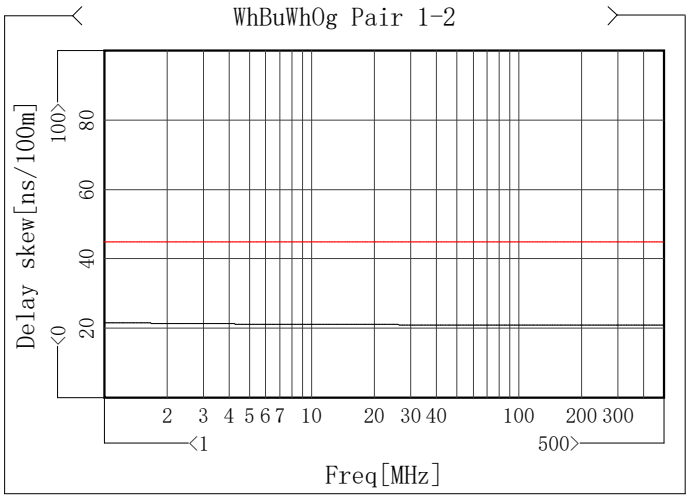


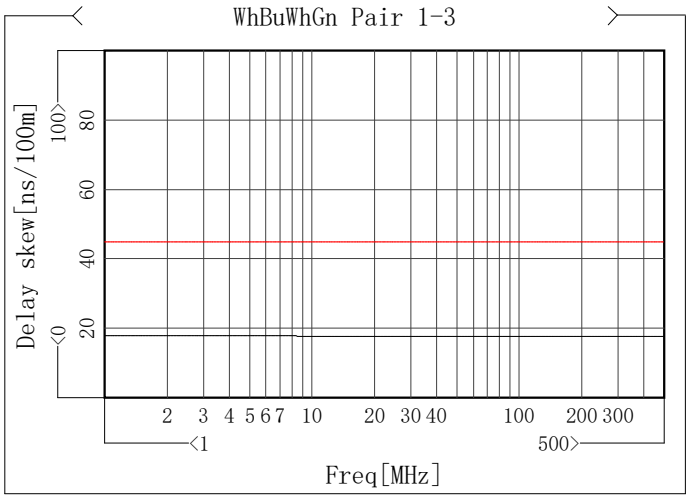


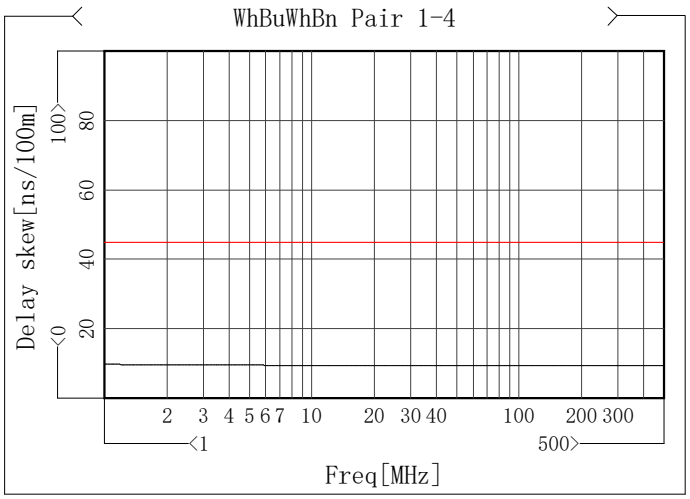


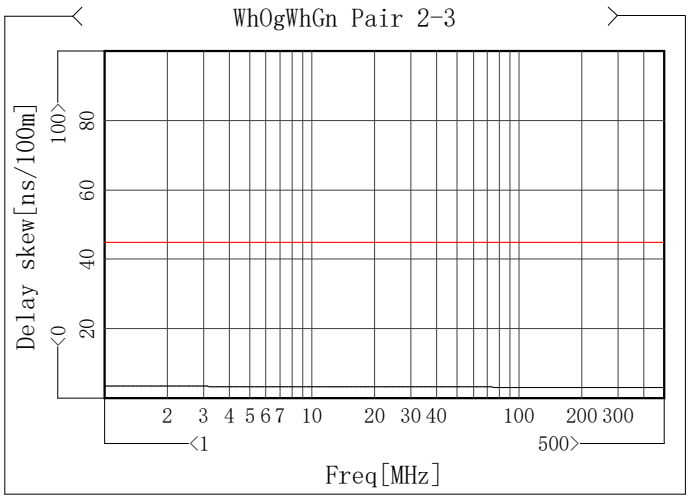
Delay skew

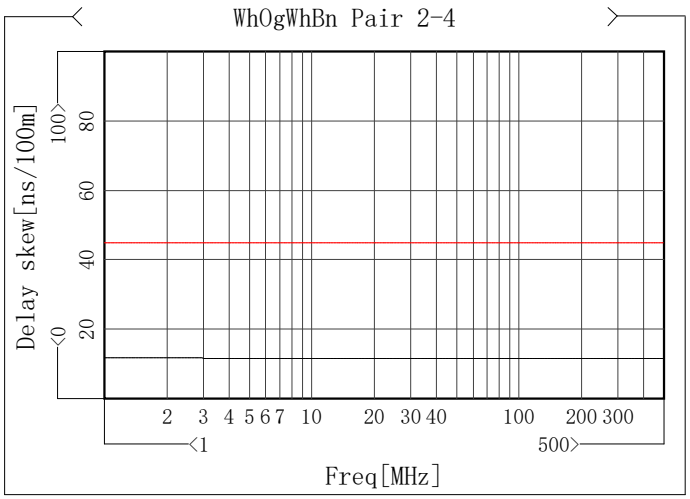
Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
WhBuWhOg Pair 1-2	21.74	1.00	45.00	23.26
WhBuWhGn Pair 1-3	18.04	1.02	45.00	26.96
WhBuWhBn Pair 1-4	9.84	1.02	45.00	35.16
WhOgWhGn Pair 2-3	3.70	1.02	45.00	41.30
WhOgWhBn Pair 2-4	11.90	1.04	45.00	33.10
WhGnWhBn Pair 3-4	8.36	500.00	45.00	36.64

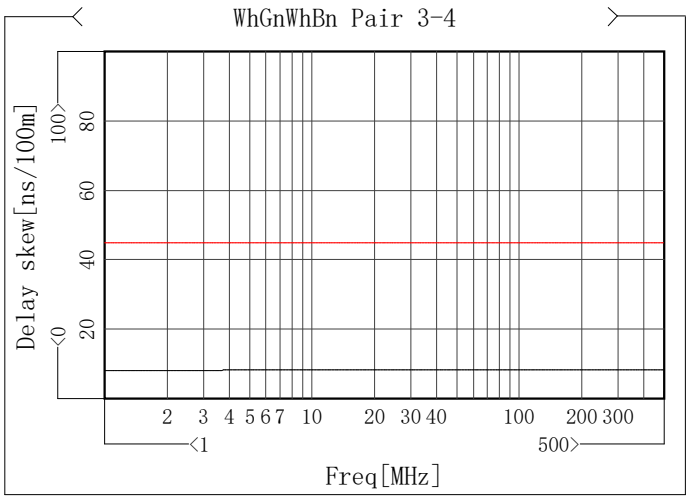






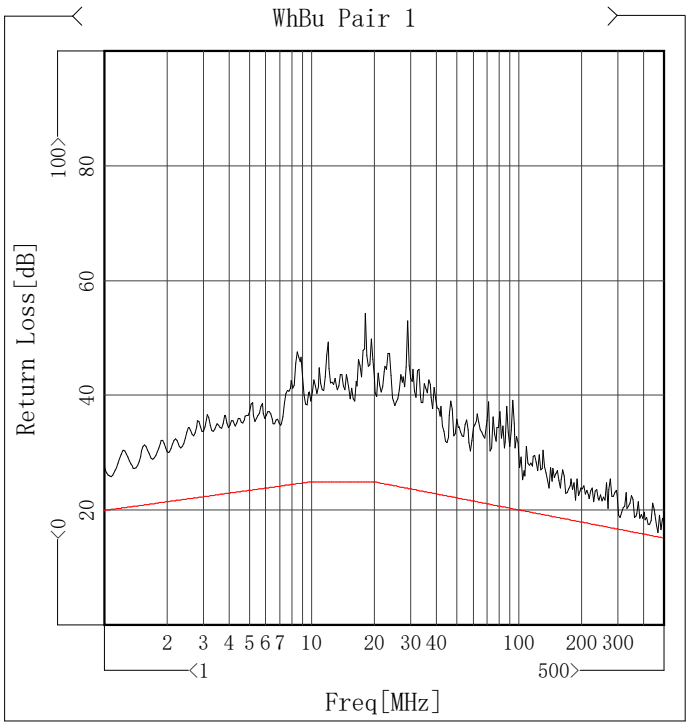


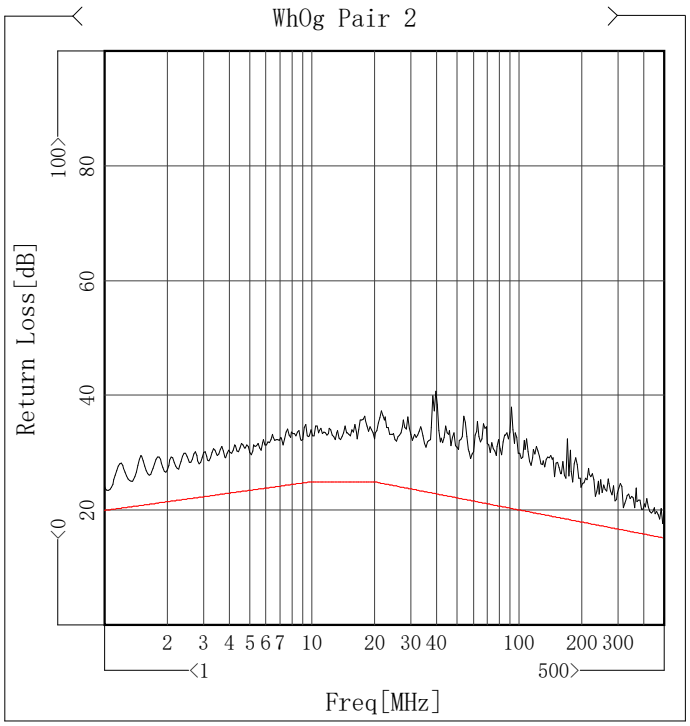


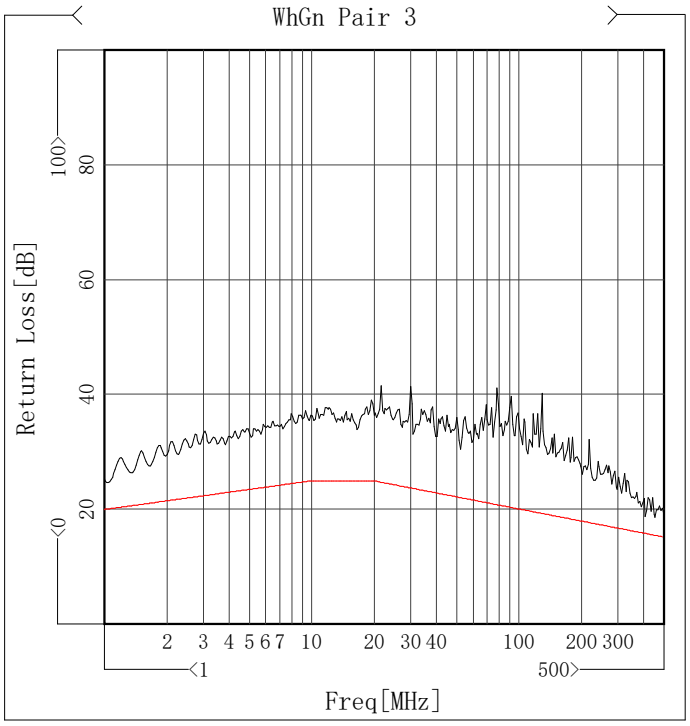


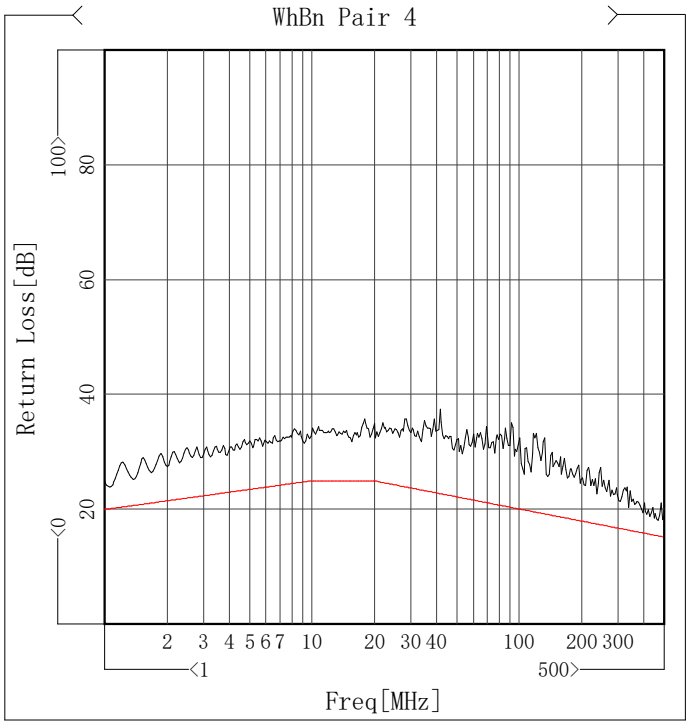
Return Loss

Item	Min [dB]	Freq[MHz]	Spec [dB]	Margin [dB]
WhBu Pair 1	16.11	473.29	15.38	0.73
WhOg Pair 2	17.72	493.32	15.26	2.46
WhGn Pair 3	18.76	413.20	15.79	2.97
WhBn Pair 4	18.10	473.29	15.38	2.72



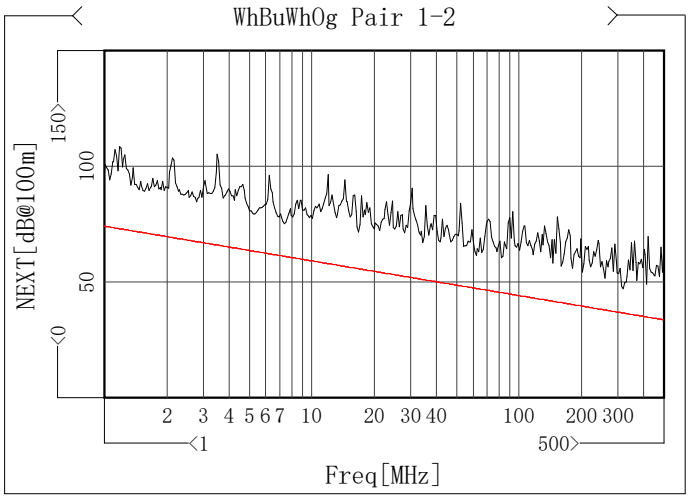


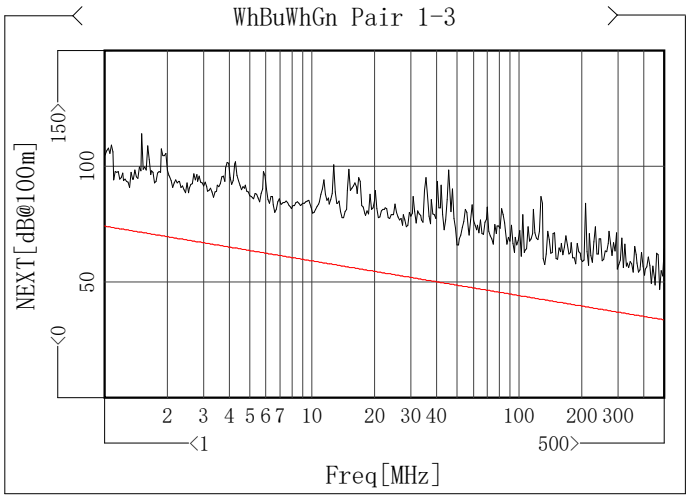


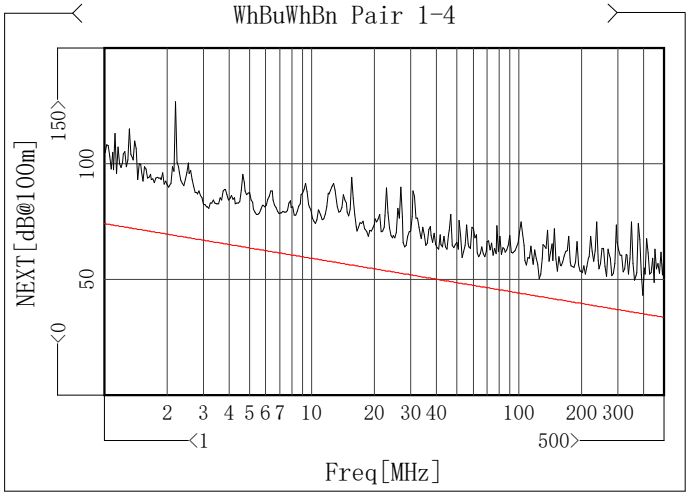


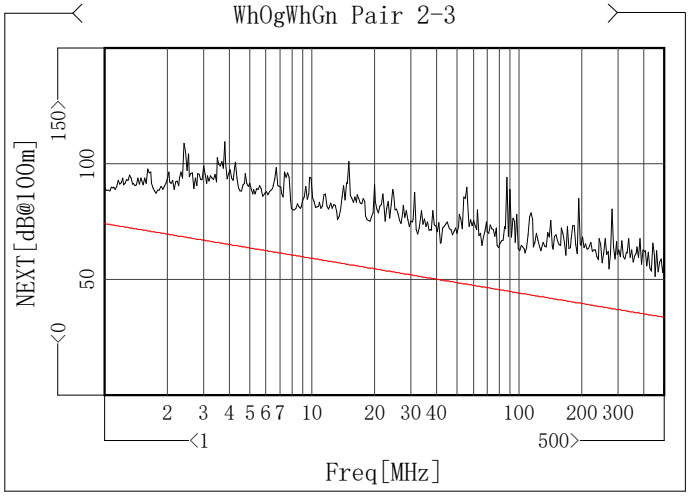
NEXT

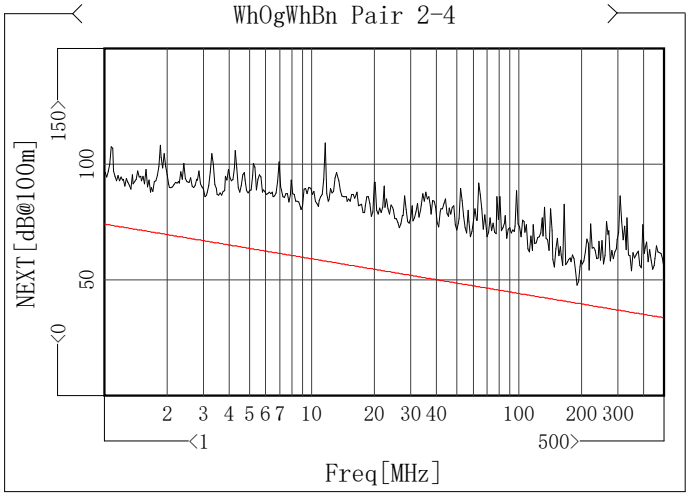
Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBuWhOg Pair 1-2	47.18	322.26	36.68	10.50
WhBuWhGn Pair 1-3	46.74	479.97	34.08	12.66
WhBuWhBn Pair 1-4	50.52	126.59	42.76	7.76
WhOgWhGn Pair 2-3	88.73	1.02	74.18	14.55
WhOgWhBn Pair 2-4	47.98	190.82	40.09	7.89
WhGnWhBn Pair 3-4	47.54	307.80	36.98	10.56

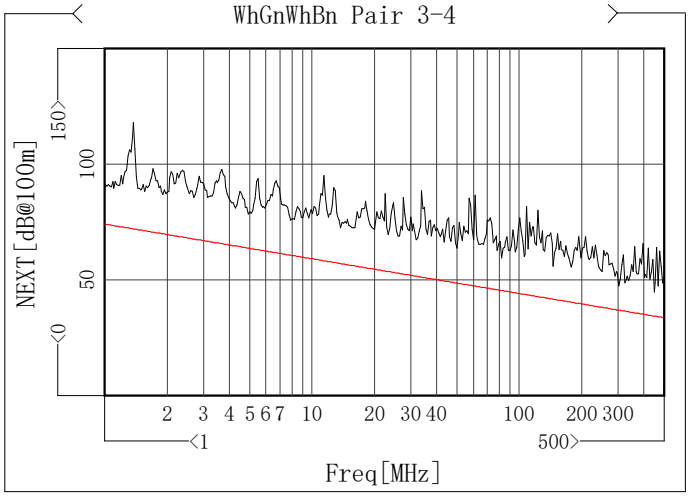






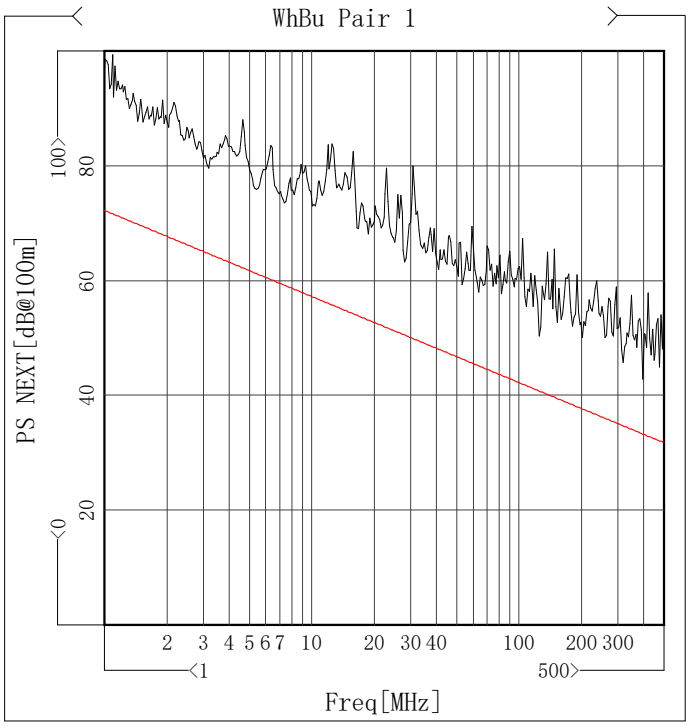


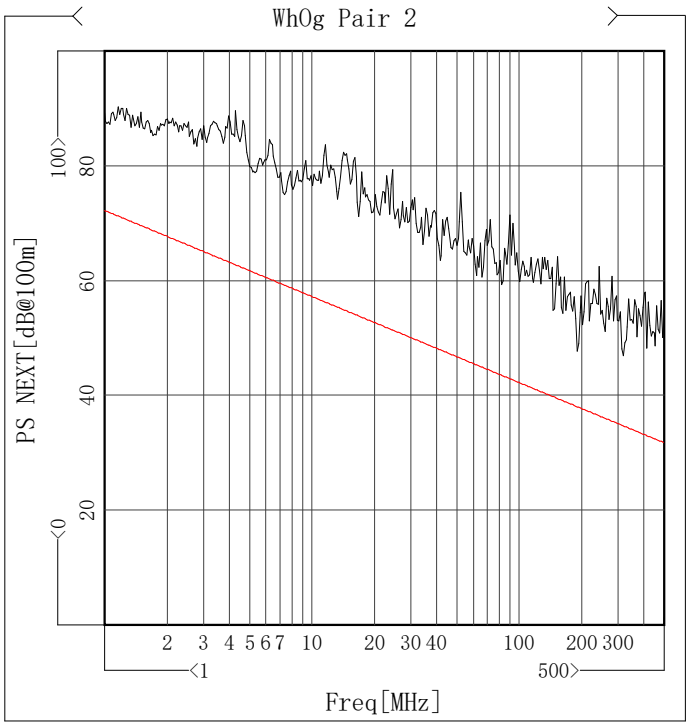


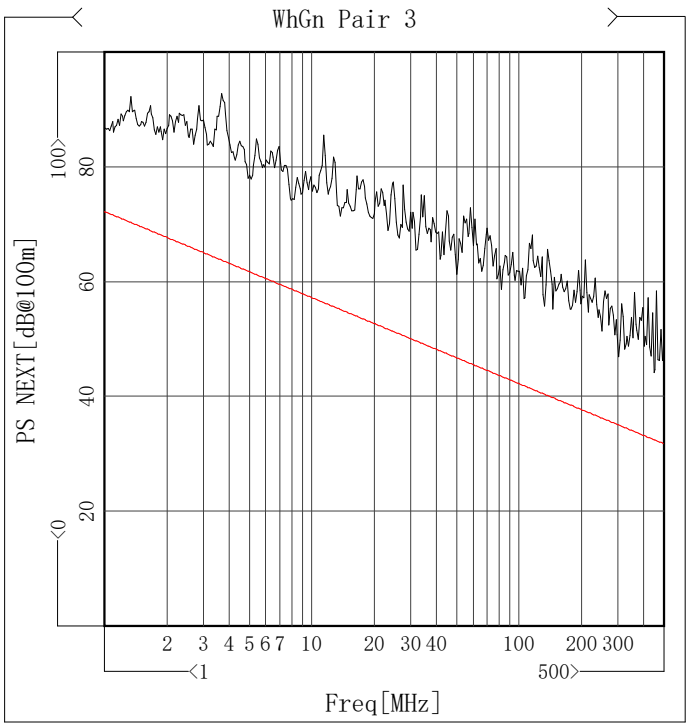


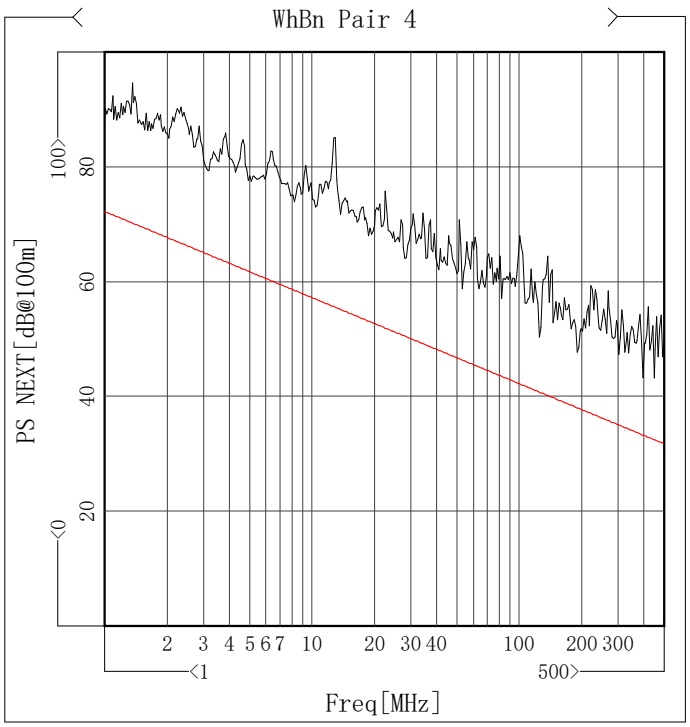
PS NEXT

Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBu Pair 1	42.88	399.84	33.27	9.61
WhOg Pair 2	47.70	190.82	38.09	9.61
WhGn Pair 3	44.18	453.26	32.45	11.73
WhBn Pair 4	50.39	126.59	40.76	9.63



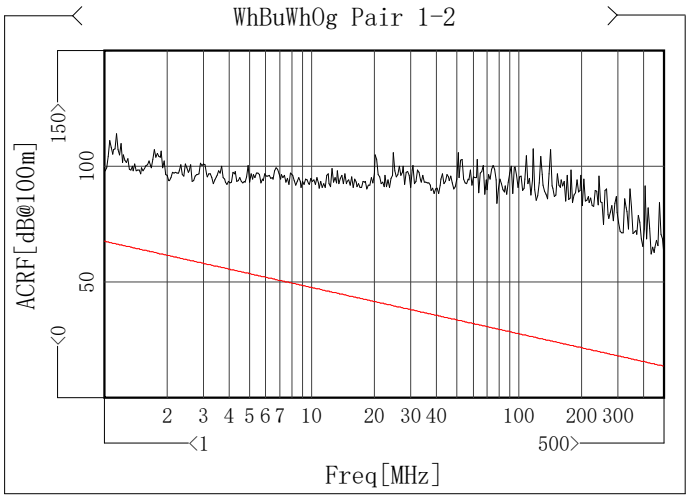


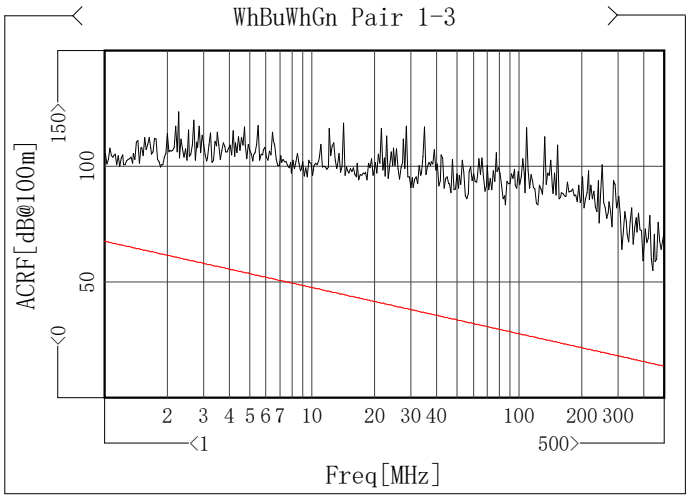


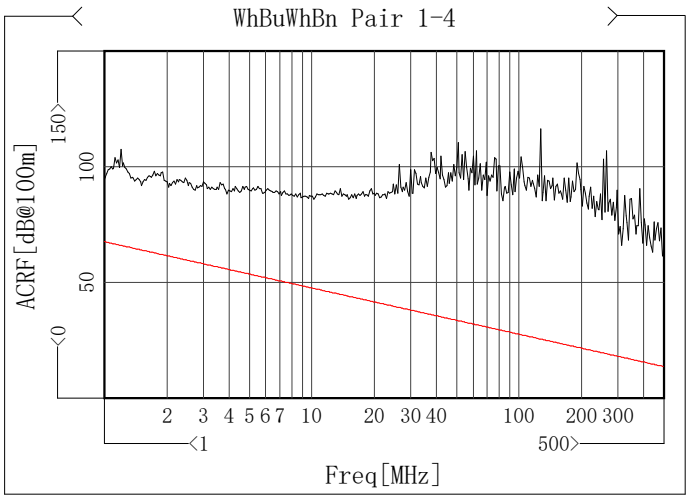


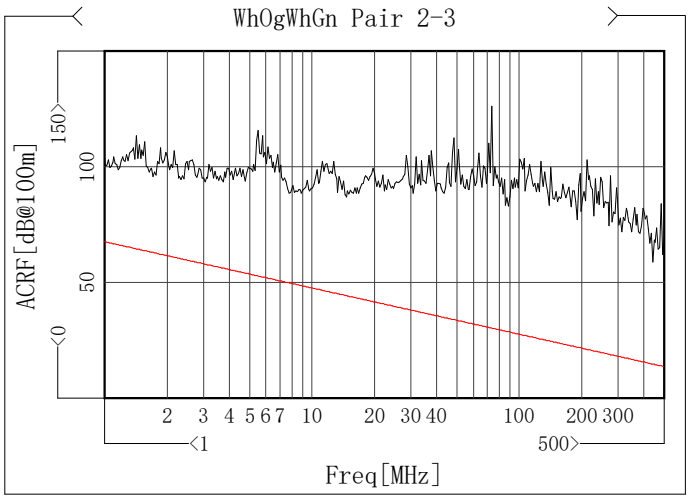
ACRF

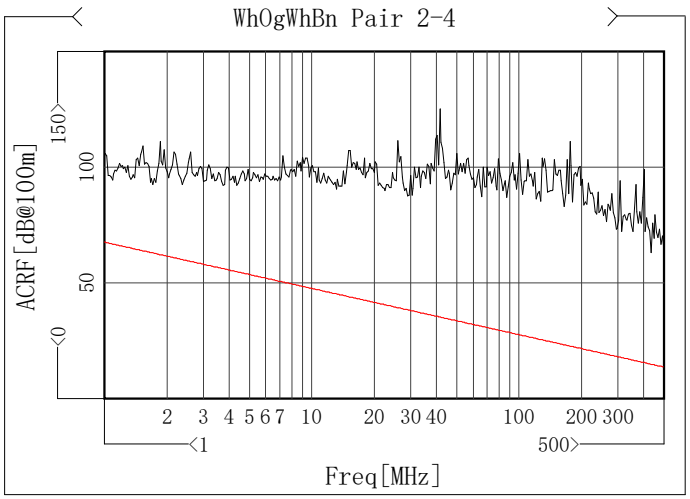
Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBuWhOg Pair 1-2	98.28	1.02	67.64	30.64
WhBuWhGn Pair 1-3	101.27	1.04	67.49	33.78
WhBuWhBn Pair 1-4	94.48	1.00	67.80	26.68
WhOgWhGn Pair 2-3	98.82	1.18	66.35	32.47
WhOgWhBn Pair 2-4	94.57	1.11	66.90	27.67
WhGnWhBn Pair 3-4	99.10	1.15	66.62	32.48

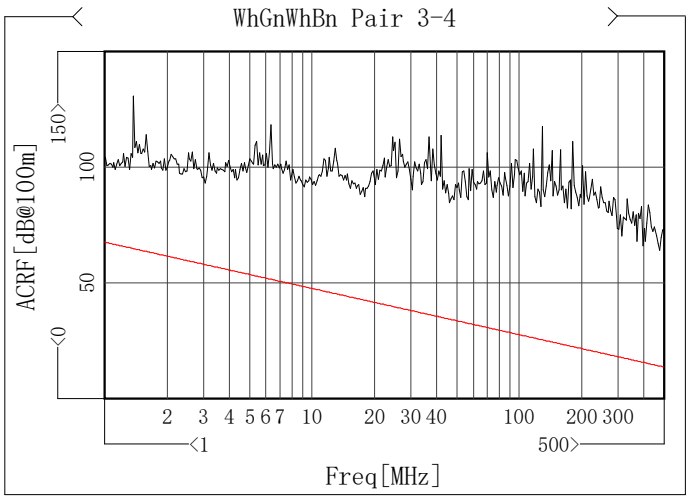






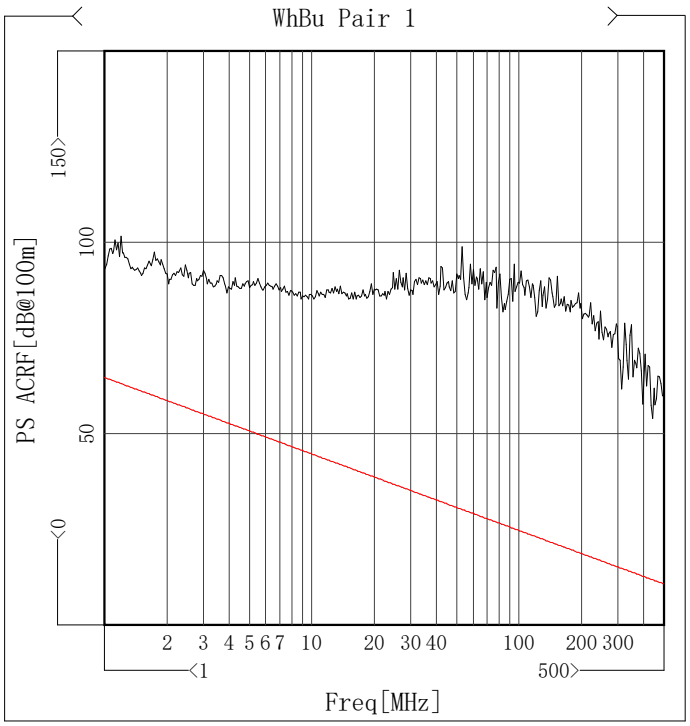


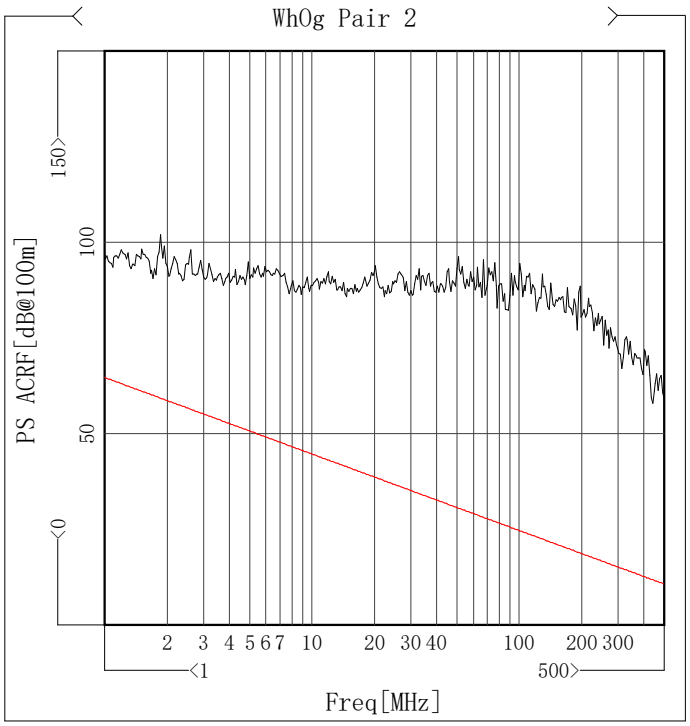


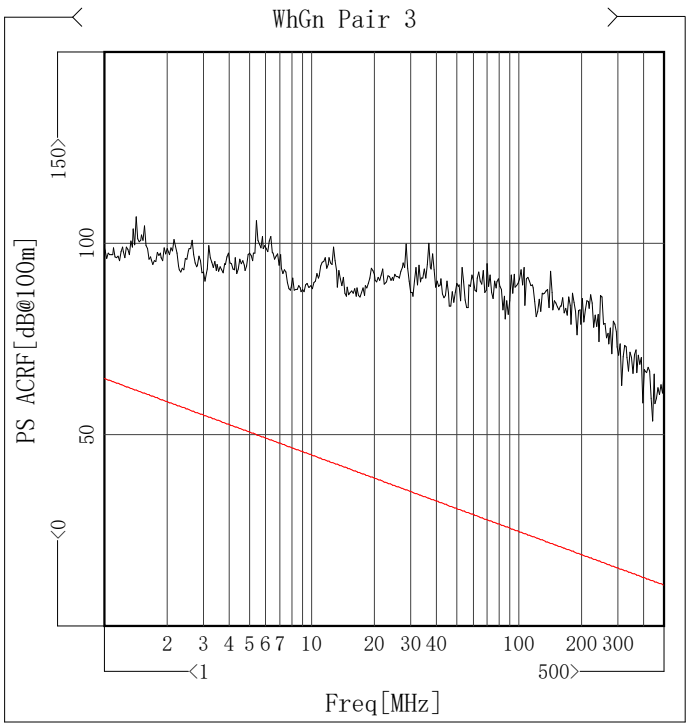


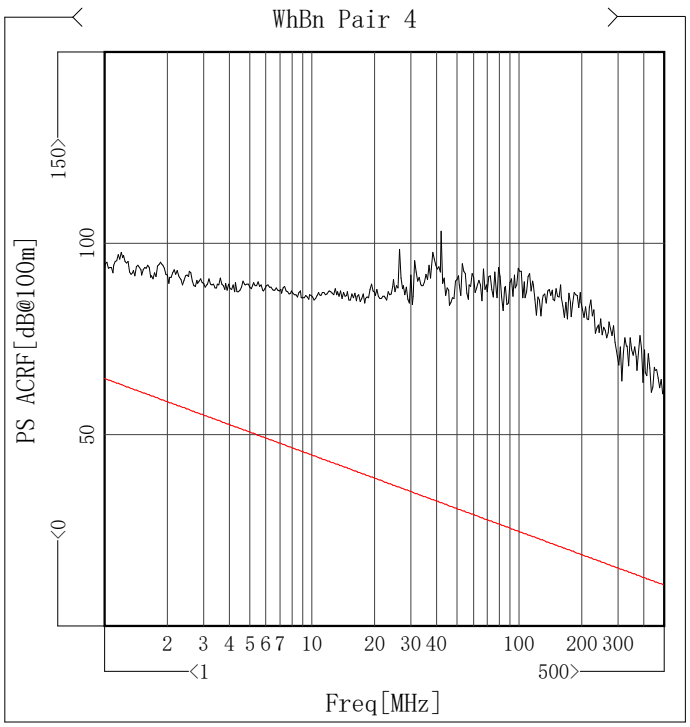
PS ACRF

Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBu Pair 1	93.03	1.00	64.80	28.23
WhOg Pair 2	93.56	1.11	63.90	29.66
WhGn Pair 3	96.18	1.04	64.49	31.69
WhBn Pair 4	92.46	1.11	63.90	28.56









Insertion Loss[dB/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	2.08	1.88	1.92 ↑	1.91	1.89
2	4	3.8	3.50	3.59 ↑	3.55	3.55
3	8	5.31	4.84	5.00 ↑	4.91	4.92
4	10	5.92	5.40	5.57 ↑	5.47	5.48
5	16	7.49	6.82	7.04 ↑	6.91	6.92
6	20	8.38	7.64	7.88 ↑	7.74	7.76
7	25	9.38	8.57	8.84 ↑	8.68	8.69
8	31.25	10.5	9.61	9.90 ↑	9.74	9.74
9	50	13.35	12.22	12.57 ↑	12.38	12.38
10	62.5	14.98	13.67	14.08 ↑	13.86	13.86
11	100	19.12	17.33	17.86 ↑	17.59	17.58
12	125	21.5	19.42	20.02 ↑	19.71	19.69
13	200	27.56	24.72	25.25 ↑	24.85	24.95
14	250	31.04	27.82	28.44 ↑	28.13	27.99
15	300	34.24	30.48	31.11 ↑	30.82	30.62
16	350	37.21	33.15	33.78 ↑	33.50	33.24
17	400	40.01	35.45	36.07 ↑	35.80	35.49
18	450	42.67	37.67	38.28 ↑	38.04	37.66
19	500	45.21	40.04	40.63 ↑	40.41	39.97

Delay[ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	570	526.01	547.75 ↑	544.05	535.85
2	4	552	509.59	530.96 ↑	527.50	519.22
3	8	546.73	504.74	526.00 ↑	522.61	514.31
4	10	545.38	503.45	524.68 ↑	521.31	513.00
5	16	543	501.31	522.49 ↑	519.16	510.83
6	20	542.05	500.41	521.57 ↑	518.25	509.92
7	25	541.2	499.63	520.77 ↑	517.46	509.13
8	31.25	540.44	498.95	520.08 ↑	516.78	508.44
9	50	539.09	497.68	518.78 ↑	515.49	507.15
10	62.5	538.55	497.21	518.29 ↑	515.02	506.68
11	100	537.6	496.32	517.38 ↑	514.12	505.77
12	125	537.22	495.98	517.04 ↑	513.78	505.43
13	200	536.55	495.36	516.39 ↑	513.15	504.79
14	250	536.28	495.11	516.14 ↑	512.90	504.54
15	300	536.08	494.93	515.96 ↑	512.72	504.37
16	350	535.92	494.78	515.81 ↑	512.57	504.21
17	400	535.8	494.67	515.70 ↑	512.46	504.10
18	450	535.7	494.58	515.60 ↑	512.37	504.01
19	500	535.61	494.49	515.51 ↑	512.28	503.92

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	45	21.74 ↑	18.04	9.84	3.70	11.90	8.20

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
2	4	45	21.36 ↑	17.91	9.63	3.46	11.74	8.28
3	8	45	21.25 ↑	17.87	9.56	3.39	11.69	8.31
4	10	45	21.22 ↑	17.86	9.55	3.37	11.68	8.31
5	16	45	21.18 ↑	17.84	9.52	3.33	11.66	8.32
6	20	45	21.16 ↑	17.83	9.51	3.32	11.65	8.33
7	25	45	21.14 ↑	17.83	9.50	3.31	11.64	8.33
8	31.25	45	21.12 ↑	17.82	9.49	3.30	11.64	8.34
9	50	45	21.09 ↑	17.81	9.47	3.28	11.62	8.34
10	62.5	45	21.08 ↑	17.81	9.46	3.27	11.62	8.34
11	100	45	21.06 ↑	17.80	9.45	3.26	11.61	8.35
12	125	45	21.05 ↑	17.80	9.45	3.26	11.61	8.35
13	200	45	21.04 ↑	17.79	9.44	3.25	11.60	8.35
14	250	45	21.03 ↑	17.79	9.44	3.24	11.60	8.36
15	300	45	21.03 ↑	17.79	9.43	3.24	11.60	8.36
16	350	45	21.03 ↑	17.79	9.43	3.24	11.59	8.36
17	400	45	21.02 ↑	17.79	9.43	3.24	11.59	8.36
18	450	45	21.02 ↑	17.79	9.43	3.23	11.59	8.36
19	500	45	21.02 ↑	17.79	9.43	3.23	11.59	8.36

Return Loss[dB]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	20	27.75	24.16 ↓	25.32	25.15
2	4	23.01	34.75	30.28	32.41	29.81 ↓
3	8	24.52	41.49	32.90	35.78	32.87 ↓
4	10	25	39.40	33.87	36.41	32.96 ↓
5	16	25	40.08	33.74	35.95	32.51 ↓
6	20	25	44.93	33.04 ↓	37.50	34.48
7	25	24.32	39.30	33.36 ↓	35.64	33.51
8	31.25	23.64	44.11	32.54 ↓	34.33	33.97
9	50	22.21	35.35	31.11 ↓	35.56	32.01
10	62.5	21.54	35.27	33.45	34.10	31.60 ↓
11	100	20.11	30.89	29.95 ↓	36.20	31.58
12	125	19.43	27.25 ↓	30.28	36.02	30.65
13	200	18	23.74 ↓	24.60	27.68	25.04
14	250	17.32	22.76 ↓	25.33	26.14	27.28
15	300	16.77	23.21	22.40 ↓	23.79	23.37
16	350	16.3	22.22	22.36	22.29	21.82 ↓
17	400	15.89	18.69 ↓	20.22	21.21	19.44
18	450	15.53	20.74	20.15	20.59	19.37 ↓
19	500	15.21	17.61 ↓	20.47	19.00	18.93

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	74.3	97.83	104.70	109.20	91.23	95.60	88.97 ↓
2	4	65.27	89.88	101.71	85.42 ↓	94.90	96.00	86.42

NEXT[dB@100m](Continuation 1)

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
3	8	60.75	81.53	82.31	83.61	83.61	88.02	76.03 ↓
4	10	59.3	78.58 ↓	82.08	79.72	92.40	89.17	80.30
5	16	56.24	84.82	91.42	87.99	84.08	87.01	72.82 ↓
6	20	54.78	73.66	83.81	73.00	84.54	85.38	72.17 ↓
7	25	53.33	76.08	79.16	68.86 ↓	88.04	80.81	83.25
8	31.25	51.88	83.97	85.44	85.76	76.07	77.09	73.71 ↓
9	50	48.82	70.84	67.81	66.00	70.76	72.37	64.50 ↓
10	62.5	47.36	62.49 ↓	73.77	68.65	72.68	78.70	79.09
11	100	44.3	66.15	69.06	66.91	63.41 ↓	74.00	72.76
12	125	42.85	70.99	68.78	55.96 ↓	66.75	68.40	78.83
13	200	39.78	65.91	60.95	53.77 ↓	65.10	57.71	60.65
14	250	38.33	56.72	68.73	57.28	65.16	58.75	54.44 ↓
15	300	37.14	57.38	65.51	70.77	64.33	64.99	53.45 ↓
16	350	36.14	64.20	58.37	71.20	62.02	55.64	55.63 ↓
17	400	35.27	56.52	56.92	43.54 ↓	62.75	73.79	65.48
18	450	34.5	53.54	54.58	53.99	63.34	55.59	51.86 ↓
19	500	33.82	66.94	64.62	60.96	59.57	55.19	50.98 ↓

PS NEXT[dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	72.3	96.76	89.23	86.87 ↓	88.08
2	4	63.27	83.94	87.91	85.68	82.61 ↓
3	8	58.75	77.61	78.77	74.52 ↓	75.06
4	10	57.3	75.10 ↓	78.01	77.89	76.71
5	16	54.24	81.37	79.87	72.44 ↓	72.48
6	20	52.78	70.07	72.50	71.43	69.32 ↓
7	25	51.33	67.51 ↓	74.13	77.33	68.44
8	31.25	49.88	78.96	72.82	71.51	71.42 ↓
9	50	46.82	62.76	66.46	62.09	61.73 ↓
10	62.5	45.36	61.25 ↓	61.99	68.91	67.04
11	100	42.3	62.18	61.30 ↓	61.87	65.18
12	125	40.85	55.58 ↓	63.59	64.29	55.68
13	200	37.78	52.66	56.31	57.04	51.64 ↓
14	250	36.33	53.80	54.18	53.92	51.64 ↓
15	300	35.14	56.20	55.76	52.41 ↓	53.02
16	350	34.14	56.37	53.28	53.05	51.85 ↓
17	400	33.27	43.07 ↓	55.44	55.40	43.38
18	450	32.5	48.80	51.07	49.25	47.71 ↓
19	500	31.82	58.70	53.63	50.25	49.28 ↓

ACRF[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	67.8	99.67	104.80	94.48 ↓	103.74	104.90	102.65
2	4	55.76	93.17	107.41	89.36 ↓	99.57	100.11	101.98
3	8	49.74	97.10	101.18	88.28 ↓	89.23	98.81	94.80

ACRF[dB@100m](Continuation 1)

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
4	10	47.8	94.62	100.63	87.39 ↓	90.71	99.87	94.68
5	16	43.72	92.53	98.89	87.18 ↓	88.81	101.44	93.40
6	20	41.78	94.85	97.48	88.47 ↓	98.49	98.83	96.78
7	25	39.84	104.08	106.34	91.90	90.83 ↓	96.01	108.62
8	31.25	37.9	100.10	91.85	88.78 ↓	89.46	90.24	94.88
9	50	33.82	93.91	95.29	99.07	98.05	103.99	91.58 ↓
10	62.5	31.88	95.28	93.52	98.92	92.58	91.90	91.69 ↓
11	100	27.8	92.03 ↓	96.65	97.64	93.47	99.44	98.88
12	125	25.86	88.13	84.52 ↓	96.04	92.46	88.79	90.39
13	200	21.78	93.88	85.15 ↓	91.89	86.69	95.21	87.53
14	250	19.84	84.75	89.15	88.21	95.46	81.59 ↓	91.55
15	300	18.26	84.41	82.75	85.37	89.36	73.55 ↓	76.74
16	350	16.92	84.43	80.83	86.43	72.93 ↓	76.25	76.29
17	400	15.76	65.79	59.41 ↓	67.54	82.27	87.29	66.52
18	450	14.74	63.92	63.16 ↓	69.92	63.94	72.67	73.34
19	500	13.82	61.54 ↓	71.96	66.22	68.44	64.35	73.26

PS ACRF[dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	64.8	93.03 ↓	97.38	98.87	93.53
2	4	52.76	87.80 ↓	91.60	97.13	88.79
3	8	46.74	87.54	88.18	87.92	87.10 ↓
4	10	44.8	86.44	88.86	88.88	86.43 ↓
5	16	40.72	85.79 ↓	87.02	87.20	86.12
6	20	38.78	87.09 ↓	91.98	92.52	87.48
7	25	36.84	91.43	89.37 ↓	90.58	90.29
8	31.25	34.9	86.74	86.43	86.44	85.77 ↓
9	50	30.82	90.78	92.13	89.09 ↓	90.45
10	62.5	28.88	89.83	88.25	87.70 ↓	87.79
11	100	24.8	89.58	89.00 ↓	89.86	93.45
12	125	22.86	82.55 ↓	84.52	82.68	86.00
13	200	18.78	83.67	83.40	80.28 ↓	85.54
14	250	16.84	82.06	79.76 ↓	86.47	80.32
15	300	15.26	78.53	72.99	75.43	71.42 ↓
16	350	13.92	77.94	71.04	70.61 ↓	72.97
17	400	12.76	57.99 ↓	65.65	58.61	63.97
18	450	11.74	58.18 ↓	59.64	59.86	65.19
19	500	10.82	59.98	59.17 ↓	65.95	61.85