

Analysis report of SWAN Adaptor(24V/4A) Conduction Test fail issue

2022. 09. 16

1. Summary

1) Conduction Test status

1. Issue date : 22/05/24
2. Failure symptom & status : Some adaptor samples failed in conduction test at the factory(Foxconn)
3. Vendor EMI TEST status
 - 1) 22/06/07 : Load (6Ω _with/without GND connection) condition in adaptor unit (EMI TEST at the CTK Lab)
 - Normal Adaptor : L1 (3.36 dB) / N (4.08dB)
 - Failed Adaptor : L1 (6.21 dB) / N (4.43dB)
 - 2) 22/06/23 : STB streaming with adaptor (EMI TEST at the EMTI Lab)
 - > Test Result: FAIL
 - > Test passed when transformer and line filter changed
 - Failed Adaptor : L1 / N (-3.82 dB)
 - After changing transformer ad line filter : L1 / N (5.9 dB)
 - 3) Additional EMI TEST result
 - 1) 22/07/11: Changed LINE FILTER's wire turn(Ts 63 ~ 69): Fail
 - 2) 22/07/15: LINE FILTER's wire turns(Ts 60) & wire turn alignment(appearance): PASS
 - 3) 22/07/28: LINE FILTER's wire turns(Ts 60) & wire turn alignment(appearance) by factory machine: PASS
 - 4) 22/09/15: Sample production by production :Pass

1. Summary

4) Efficacy evaluation EMI TEST result (22/10/27 update)

: LINE FILTER's wire turns(Ts 60) & wire turn alignment(appearance) by factory machine of efficacy check

a) OK LINE FILTER 10EA EMI Test results

-> All 10ea result to 3dB or more margin : **Pass**

b) Limit approval LINE FILTER's 20EA EMI Test results

-> All 20ea result to 3dB or more margin : **Pass**

c) NG LINE FILTER's 20EA EMI Test result

-> Test results less than 3dB or over : **Fail**

2. Vendor conduction Testing status

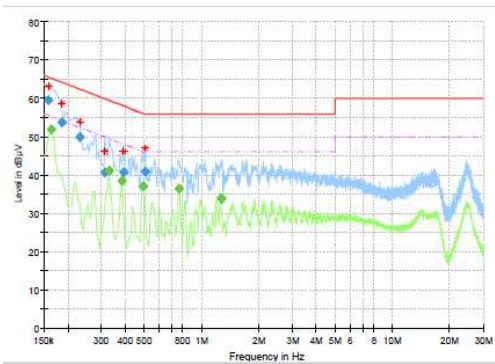
1) 22/06/07 : Test only Adaptor Unit

- Load Condition: 6Ω_with & without GND connection
 - Testing Lab: CTK Lab
 - Result: **Pass**
 - Normal Adaptor sample: L1 (3.36 dB) / N (4.08dB)
 - Failed Adaptor sample : L1 (6.21 dB) / N (4.43dB)

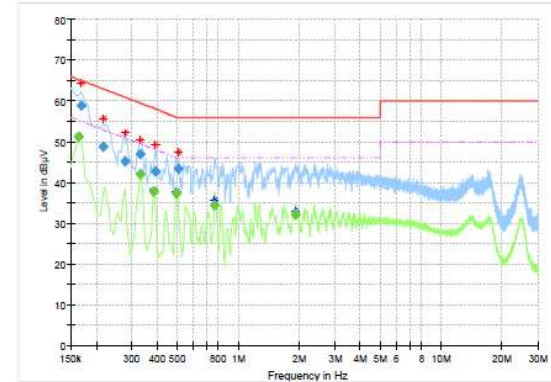
2. Vendor conduction Testing status(22/06/07): Normal Adaptor sample

1. MODEL : LA-B271KL-DA
2. Test Condition : 220V/60Hz
3. Test AMBIENT : 25°C
4. Test place : CTK
5. Load Condition : 6ohm Load
6. date : 6/7,

#1 Input : 220V/60Hz / L1



#1 Input : 220V/60Hz / N



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.159000	59.46	—	65.52	6.06	3000.0	9.000	L1	ON	9.7
0.163500	—	51.92	55.28	3.36	3000.0	9.000	L1	ON	9.8
0.186000	53.61	—	64.21	10.61	3000.0	9.000	L1	ON	9.9
0.231000	49.85	—	62.41	12.56	3000.0	9.000	L1	ON	9.8
0.312000	40.58	—	59.92	19.34	3000.0	9.000	L1	ON	9.7
0.330000	—	41.18	49.45	8.27	3000.0	9.000	L1	ON	9.8
0.384000	—	38.47	48.19	9.72	3000.0	9.000	L1	ON	9.9
0.393000	40.62	—	58.00	17.38	3000.0	9.000	L1	ON	9.9
0.496500	—	37.17	46.06	8.89	3000.0	9.000	L1	ON	9.9
0.510000	40.79	—	56.00	15.21	3000.0	9.000	L1	ON	9.9
0.762000	—	36.42	46.00	9.58	3000.0	9.000	L1	ON	9.8
1.266000	—	33.85	46.00	12.15	3000.0	9.000	L1	ON	9.7

MIN 3.36dB (163KHz)

Final Result

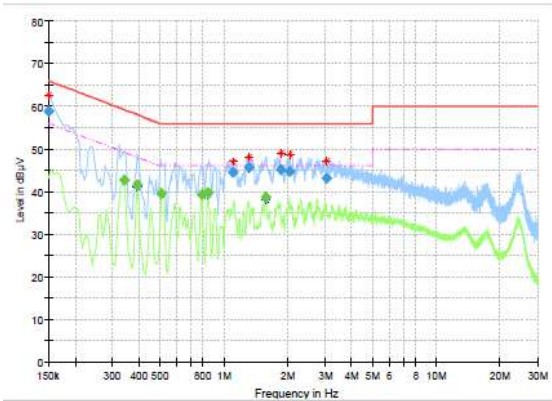
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.163500	—	51.21	55.28	4.08	3000.0	9.000	N	ON	9.9
0.168000	58.96	—	65.06	6.10	3000.0	9.000	N	ON	9.9
0.217500	48.86	—	62.91	14.06	3000.0	9.000	N	ON	9.9
0.276000	45.07	—	60.94	15.87	3000.0	9.000	N	ON	9.9
0.330000	—	42.10	49.45	7.36	3000.0	9.000	N	ON	10.0
0.330000	47.02	—	59.45	12.43	3000.0	9.000	N	ON	10.0
0.384000	—	37.67	48.19	10.53	3000.0	9.000	N	ON	10.0
0.393000	42.68	—	58.00	15.32	3000.0	9.000	N	ON	10.0
0.496500	—	37.26	46.06	8.80	3000.0	9.000	N	ON	10.1
0.510000	43.31	—	56.00	12.69	3000.0	9.000	N	ON	10.1
0.766500	—	34.41	46.00	11.59	3000.0	9.000	N	ON	10.0
1.914000	—	32.09	46.00	13.91	3000.0	9.000	N	ON	9.8

MIN 4.08dB (163KHz)

2. Vendor conduction Testing status(22/06/07): Failed Adaptor sample

1. MODEL : LA-B271KL-DA
2. Test Condition : 220V/60Hz
3. Test AMBIENT : 25°C
4. Test place : CTK
5. Load Condition : 6ohm Load
6. date : 6/7,

#2 Input : 220V/60Hz / L1



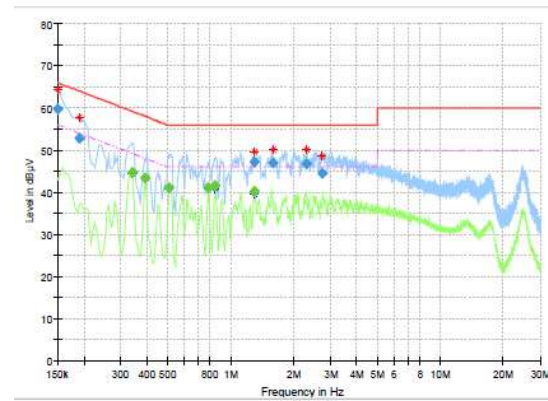
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	58.81	—	66.00	7.19	3000.0	9.000	L1	ON	9.7
0.339000	—	42.80	49.23	6.43	3000.0	9.000	L1	ON	9.8
0.393000	—	41.55	48.00	6.45	3000.0	9.000	L1	ON	9.9
0.510000	—	39.54	46.00	6.46	3000.0	9.000	L1	ON	9.9
0.789000	—	39.39	46.00	6.61	3000.0	9.000	L1	ON	9.8
0.847500	—	39.79	46.00	6.21	3000.0	9.000	L1	ON	9.8
1.104000	44.41	—	56.00	11.59	3000.0	9.000	L1	ON	9.8
1.306500	45.55	—	56.00	10.45	3000.0	9.000	L1	ON	9.7
1.581000	—	38.58	46.00	7.42	3000.0	9.000	L1	ON	9.7
1.851000	45.11	—	56.00	10.89	3000.0	9.000	L1	ON	9.7
2.049000	44.78	—	56.00	11.22	3000.0	9.000	L1	ON	9.7
3.048000	43.12	—	56.00	12.88	3000.0	9.000	L1	ON	9.7

MIN 3.36dB (163KHz)

Test result : Pass

#2 Input : 220V/60Hz / N



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	59.84	—	66.00	6.16	3000.0	9.000	N	ON	9.9
0.190500	52.78	—	64.02	11.23	3000.0	9.000	N	ON	10.0
0.339000	—	44.76	49.23	4.47	3000.0	9.000	N	ON	10.0
0.393000	—	43.45	48.00	4.55	3000.0	9.000	N	ON	10.0
0.510000	—	41.10	46.00	4.90	3000.0	9.000	N	ON	10.1
0.784500	—	41.12	46.00	4.88	3000.0	9.000	N	ON	10.0
0.847500	—	41.57	46.00	4.43	3000.0	9.000	N	ON	10.0
1.302000	47.25	—	56.00	8.75	3000.0	9.000	N	ON	9.9
1.302000	—	40.17	46.00	5.83	3000.0	9.000	N	ON	9.9
1.585500	46.98	—	56.00	9.02	3000.0	9.000	N	ON	9.8
2.310000	46.64	—	56.00	9.36	3000.0	9.000	N	ON	9.8
2.719500	44.47	—	56.00	11.53	3000.0	9.000	N	ON	9.8

MIN 4.08dB (163KHz)

2. Vendor conduction Testing status

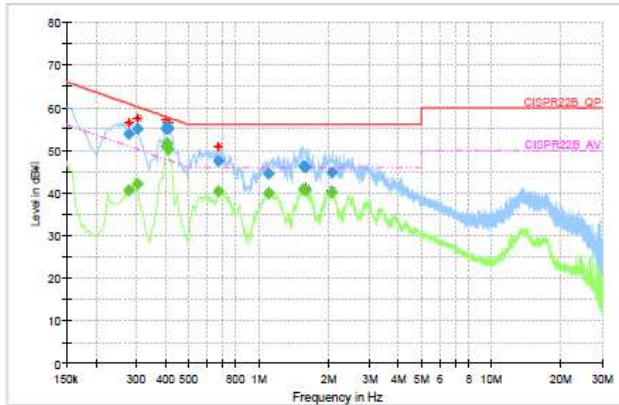
2) 22/06/23 : DUT with SWAN STB

- Load Condition: STB live streaming
 - Test Lab: EMTI(Korea Electromagnetic wave Technology Institute) Lab
 - Result: **Fail**(Test passed when transformer and line filter changed)
 - NG Adaptor : L1 / N (-3.82 dB)
 - After change transformer and line filter : L1 / N (5.9 dB)

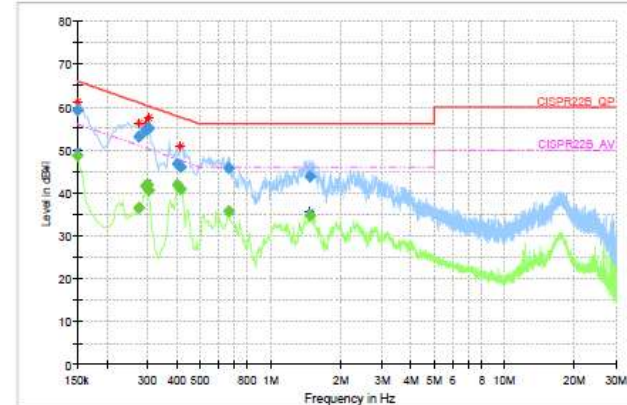
2. Vendor conduction Testing status(22/06/23): Failed Adaptor sample

1. MODEL : LA-B271KL-DA
2. Test Condition : 220V/60Hz
3. Test AMBIENT : 25°C
4. Test place :EMTI
5. Load Condition : STB live streaming
6. data : 6/23

#2 Input : 220V/60Hz / L1



#2 Input : 220V/60Hz / N



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.278000	—	40.54	50.88	10.33	1000.0	9.000	L1	OFF	9.5
0.278000	53.81	—	60.88	7.06	1000.0	9.000	L1	OFF	9.5
0.302000	—	42.12	50.19	8.06	1000.0	9.000	L1	OFF	9.5
0.302000	55.04	—	60.19	5.15	1000.0	9.000	L1	OFF	9.5
0.402000	—	50.98	47.81	-3.17	1000.0	9.000	L1	OFF	9.5
0.402000	54.96	—	57.81	2.85	1000.0	9.000	L1	OFF	9.5
0.406000	—	51.55	47.73	-3.82	1000.0	9.000	L1	OFF	9.5
0.406000	55.55	—	57.73	2.18	1000.0	9.000	L1	OFF	9.5
0.410000	—	50.22	47.65	-2.57	1000.0	9.000	L1	OFF	9.5
0.410000	54.93	—	57.65	2.72	1000.0	9.000	L1	OFF	9.5
0.674000	—	40.29	46.00	5.71	1000.0	9.000	L1	OFF	9.5

MIN -3.82dB (406KHz) → FAIL

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	—	48.80	56.00	7.20	1000.0	9.000	L1	OFF	9.5
0.150000	59.30	—	66.00	6.70	1000.0	9.000	L1	OFF	9.5
0.274000	—	36.52	51.00	14.48	1000.0	9.000	L1	OFF	9.5
0.274000	53.15	—	61.00	7.84	1000.0	9.000	L1	OFF	9.5
0.294000	—	41.60	50.41	8.81	1000.0	9.000	L1	OFF	9.5
0.294000	54.61	—	60.41	5.80	1000.0	9.000	L1	OFF	9.5
0.298000	—	41.92	50.30	8.38	1000.0	9.000	L1	OFF	9.5
0.298000	54.74	—	60.30	5.56	1000.0	9.000	L1	OFF	9.5
0.302000	—	40.55	50.19	9.64	1000.0	9.000	L1	OFF	9.5
0.302000	54.97	—	60.19	5.22	1000.0	9.000	L1	OFF	9.5
0.402000	—	41.92	47.81	5.90	1000.0	9.000	L1	OFF	9.5

MIN 5.9dB (402KHz) → PASS

시험 결과 : ALT SET LOAD 측정 시 FAIL → TRASN, LINE FILTER 1:1 교체 후 TEST 시 PASS (CISPR22B AV 기준 3dB ↑)

3. Additional Conduction Test

1) 22/07/11: Changed LINE FILTER's wire turn(Ts 63 ~ 69)

- 22/07/11: Changed LINE FILTER's wire turn(Ts 63 ~ 69)
 - Test result: FAIL

No	Sort	Spec.	Unit#1	Unit#2	Unit#3	Unit#4	Unit#5	Unit#6
1	Ts	66+/-3	62	63	64	65	66	67
2	Inductance	28uH+50%, -30%	25.7uH	26.9uH	28.6uH	29.6uH	30.3uH	30.8uH
3	DCR	200m ohm(max)	177m ohm	180m ohm	184m ohm	187m ohm	190m ohm	196m ohm
4	EMI	Over 3dB	793KHz	847KHz	-	793KHz	798KHz	-
			-2.33dB	-2.32dB	-	-1.75dB	-0.21dB	-
	Result		Fail	Fail	Fail	Fail	Fail	Fail

3. Additional Conduction Test

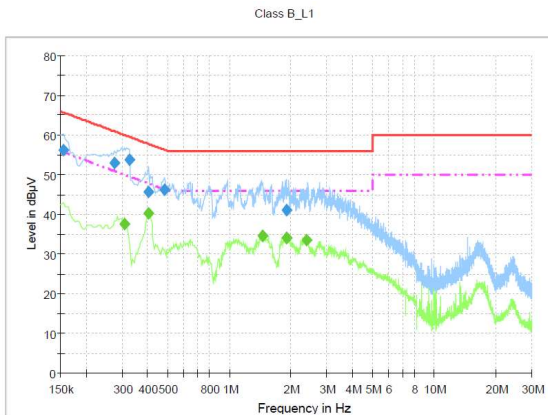
2) 22/07/15: LINE FILTER's wire turns(Ts 60) & wire turn alignment(appearance)

- 22/07/15: LINE FILTER's wire turns(Ts 60) & wire turn alignment(appearance)
 - Test result : **PASS**

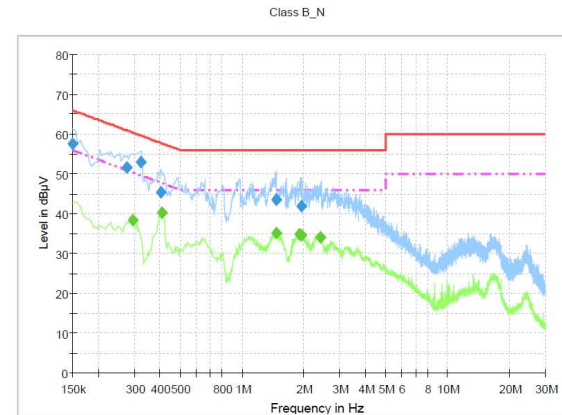
3. Additional Conduction Test(Ts 60 & wire turn alignment(appearance)) : Normal Adaptor

1. MODEL : LA-B271KL-DA
2. Test Condition : 220V/60Hz
3. Test AMBIENT : 25°C
4. Test place :EMTI
5. Load Condition : STB live streaming
6. Data : 7/15

#1 Input : 220V/60Hz / L1



#1 Input : 220V/60Hz / N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	56.3	1000.0	9.000	GND	L1	10.0	9.4	65.8
0.276000	52.9	1000.0	9.000	GND	L1	10.0	8.0	60.9
0.325500	53.9	1000.0	9.000	GND	L1	10.0	5.7	59.6
0.402000	45.6	1000.0	9.000	GND	L1	10.0	12.3	57.8
0.483000	46.3	1000.0	9.000	GND	L1	10.0	10.0	56.3
1.909500	41.1	1000.0	9.000	GND	L1	10.0	14.9	56.0

MIN 5.7dB (276KHz) → PASS

Final Result 1

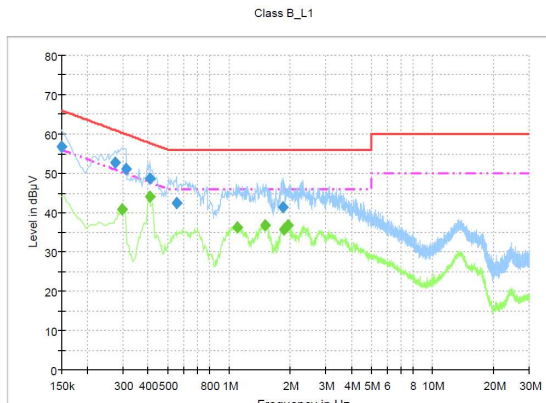
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	57.6	1000.0	9.000	GND	N	10.0	8.4	66.0
0.276000	51.8	1000.0	9.000	GND	N	10.0	9.2	60.9
0.321000	53.0	1000.0	9.000	GND	N	10.0	6.7	59.7
0.402000	45.4	1000.0	9.000	GND	N	10.0	12.4	57.8
1.464000	43.6	1000.0	9.000	GND	N	10.0	12.4	56.0
1.959000	42.0	1000.0	9.000	GND	N	10.0	14.0	56.0

MIN 6.7dB (321KHz) → PASS

3. Additional Conduction Test(Ts 60 & wire turn alignment(appearance)) : Failed Adaptor

1. MODEL : LA-B271KL-DA
2. Test Condition : 220V/60Hz
3. Test AMBIENT : 25°C
4. Test place :EMTI
5. Load Condition : STB live streaming
6. Data : 7/15

#2 Input : 220V/60Hz / L1

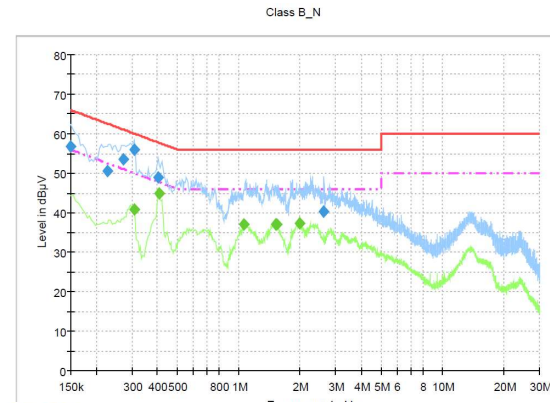


Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.298500	40.9	1000.0	9.000	GND	L1	10.0	9.4	50.3
0.406500	44.1	1000.0	9.000	GND	L1	10.0	3.6	47.7
1.095000	36.2	1000.0	9.000	GND	L1	10.0	9.8	46.0
1.504500	36.6	1000.0	9.000	GND	L1	10.0	9.4	46.0
1.873500	35.6	1000.0	9.000	GND	L1	10.0	10.4	46.0
1.954500	36.7	1000.0	9.000	GND	L1	10.0	9.3	46.0

MIN 3.6dB (406KHz) → PASS

#2 Input : 220V/60Hz / N



Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.307500	40.7	1000.0	9.000	GND	N	10.0	9.4	50.0
0.406500	45.0	1000.0	9.000	GND	N	10.0	2.8	47.7
1.068000	36.9	1000.0	9.000	GND	N	10.0	9.1	46.0
1.527000	37.1	1000.0	9.000	GND	N	10.0	8.9	46.0
1.545000	37.1	1000.0	9.000	GND	N	10.0	8.9	46.0
1.990500	37.4	1000.0	9.000	GND	N	10.0	8.6	46.0

MIN 2.8dB (402KHz) → PASS

3. Additional Conduction Test

3) 22/07/28: LINE FILTER's wire turns(Ts 60) & wire turn alignment(appearance) by factory machine

- 22/07/28: LINE FILTER's wire turns(Ts 60) & wire turn alignment(appearance) by factory machine
 - > Test result : **PASS**

3. Additional Conduction Test(Ts 60 & 66) & wire turn alignment(appearance) by factory machine

1. MODEL : LA-B271KL-DA

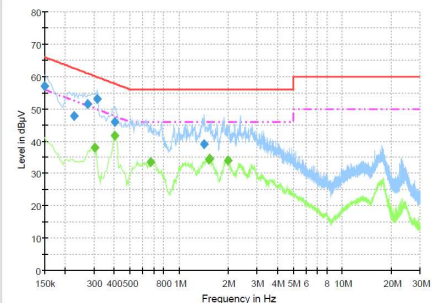
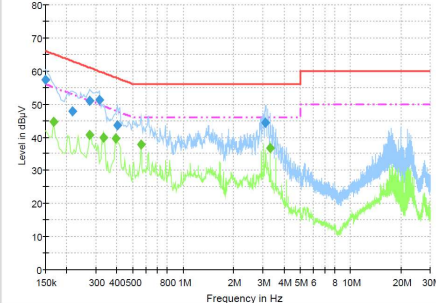
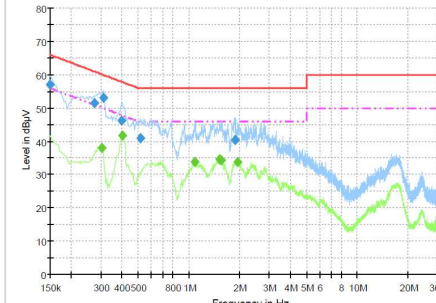
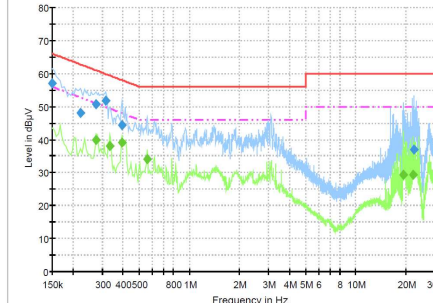
4. Test place :CTK

2. Test Condition : 220V/60Hz

5. Load Condition : STB live streaming

3. Test AMBIENT : 25°C

6. Date : 7/28

구분	#1 Input : 220V/60Hz / L1										#1 Input : 220V/60Hz / N									
Ts	Ts 66					Ts 60					Ts 66					Ts 60				
																				
Ts 66	Final Result 1										Final Result 2									
	Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)		Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	
	0.150000	56.9	3000.0	9.000	On	L1	9.8	9.1	66.0		0.303000	37.9	3000.0	9.000	On	N	9.8	12.3	50.2	
	0.226500	47.8	3000.0	9.000	On	L1	9.8	14.8	62.6		0.402000	41.7	3000.0	9.000	On	N	10.0	6.1	47.8	
	0.276000	51.4	3000.0	9.000	On	L1	9.8	9.5	60.9		1.086000	33.7	3000.0	9.000	On	N	9.9	12.3	46.0	
	0.316500	52.9	3000.0	9.000	On	L1	9.9	6.9	59.8		1.522500	34.5	3000.0	9.000	On	N	9.9	11.5	46.0	
	0.402000	46.0	3000.0	9.000	On	L1	10.0	11.8	57.8		1.554000	34.3	3000.0	9.000	On	N	9.9	11.7	46.0	
	1.428000	39.1	3000.0	9.000	On	L1	9.9	16.9	56.0		1.945500	33.7	3000.0	9.000	On	N	9.8	12.3	46.0	
Ts 60	Final Result 1										Final Result 1									
	Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)		Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	
	0.150000	57.2	3000.0	9.000	On	L1	9.8	8.8	66.0		0.150000	57.1	3000.0	9.000	On	N	9.8	8.9	66.0	
	0.217500	47.7	3000.0	9.000	On	L1	9.9	15.2	62.9		0.222000	48.0	3000.0	9.000	On	N	9.8	14.8	62.7	
	0.276000	51.0	3000.0	9.000	On	L1	9.8	10.0	60.9		0.276000	50.6	3000.0	9.000	On	N	9.8	10.3	60.9	
	0.316500	51.3	3000.0	9.000	On	L1	9.9	8.5	59.8		0.316500	51.7	3000.0	9.000	On	N	9.9	8.1	59.8	
	0.402000	43.5	3000.0	9.000	On	L1	10.0	14.3	57.8		0.393000	44.3	3000.0	9.000	On	N	10.0	13.7	58.0	
	3.093000	44.5	3000.0	9.000	On	L1	9.8	11.5	56.0		22.276500	37.0	3000.0	9.000	On	N	10.1	23.0	60.0	
Result t	Ts 66 : MIN 6.9dB (316KHz) → PASS Ts 60 : MIN 8.5dB (316KHz) → PASS										Ts 66 : MIN 6.1dB (402KHz) → PASS Ts 60 : MIN 8.1dB (316KHz) → PASS									

1. MODEL : LA-B271KL-DA	4. Test place :CTK
2. Test Condition : 220V/60Hz	5. Load Condition : STB live streaming
3. Test AMBIENT : 25°C	6. date : 7/28

품질생기팀 선린테크(주) 15/13

3. Additional Conduction Test(Ts 60 & 66) & wire turn alignment(appearance) by factory machine

1. MODEL : LA-B271KL-DA

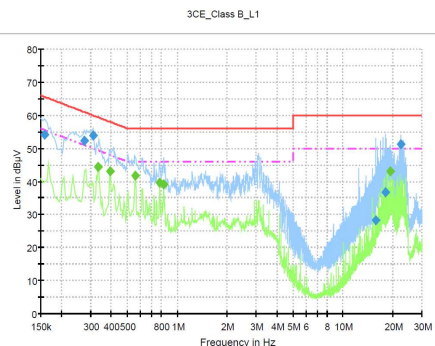
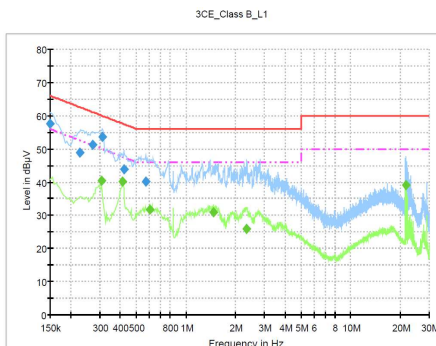
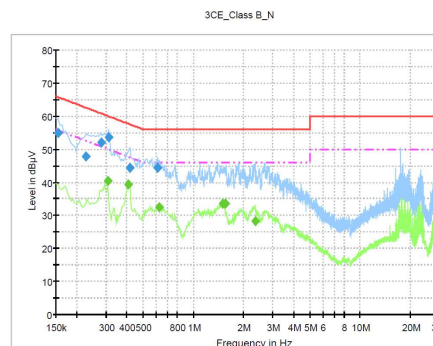
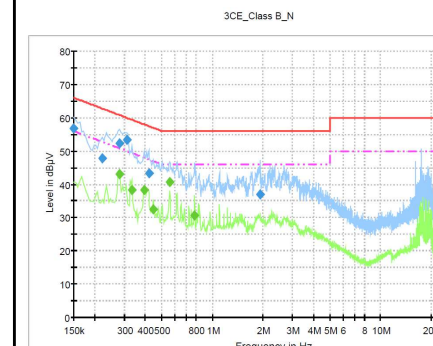
4. Test place :CTK

2. Test Condition : 220V/60Hz

5. Load Condition : STB live streaming

3. Test AMBIENT : 25°C

6. date : 7/28

구분	#3 Input : 220V/60Hz / L1									#3 Input : 220V/60Hz / N																																																																																																																																						
Ts	Ts 66				Ts 60					Ts 66				Ts 60																																																																																																																																		
																																																																																																																																																
Ts 66	Final Result 2 <table><tr><th>Frequency (MHz)</th><th>CAverage (dBµV)</th><th>Meas. Time (ms)</th><th>Bandwidth (kHz)</th><th>Filter</th><th>Line</th><th>Corr. (dB)</th><th>Margin (dB)</th><th>Limit (dBµV)</th></tr><tr><td>0.334500</td><td>44.3</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>9.9</td><td>5.1</td><td>49.3</td></tr><tr><td>0.393000</td><td>43.1</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>10.0</td><td>4.9</td><td>48.0</td></tr><tr><td>0.559500</td><td>41.6</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>10.0</td><td>4.4</td><td>46.0</td></tr><tr><td>0.784500</td><td>39.6</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>9.9</td><td>6.4</td><td>46.0</td></tr><tr><td>0.829500</td><td>39.1</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>9.9</td><td>6.9</td><td>46.0</td></tr><tr><td>19.311000</td><td>43.1</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>10.2</td><td>6.9</td><td>50.0</td></tr></table>									Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	0.334500	44.3	3000.0	9.000	On	L1	9.9	5.1	49.3	0.393000	43.1	3000.0	9.000	On	L1	10.0	4.9	48.0	0.559500	41.6	3000.0	9.000	On	L1	10.0	4.4	46.0	0.784500	39.6	3000.0	9.000	On	L1	9.9	6.4	46.0	0.829500	39.1	3000.0	9.000	On	L1	9.9	6.9	46.0	19.311000	43.1	3000.0	9.000	On	L1	10.2	6.9	50.0	Final Result 1 <table><tr><th>Frequency (MHz)</th><th>QuasiPeak (dBµV)</th><th>Meas. Time (ms)</th><th>Bandwidth (kHz)</th><th>Filter</th><th>Line</th><th>Corr. (dB)</th><th>Margin (dB)</th><th>Limit (dBµV)</th></tr><tr><td>0.154500</td><td>54.9</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>9.9</td><td>10.8</td><td>65.8</td></tr><tr><td>0.226500</td><td>47.9</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>9.8</td><td>14.7</td><td>62.6</td></tr><tr><td>0.280500</td><td>52.0</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>9.8</td><td>8.8</td><td>60.8</td></tr><tr><td>0.312000</td><td>53.6</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>9.9</td><td>6.3</td><td>59.9</td></tr><tr><td>0.415500</td><td>44.5</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>10.0</td><td>13.1</td><td>57.5</td></tr><tr><td>0.613500</td><td>44.4</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>10.0</td><td>11.6</td><td>56.0</td></tr></table>									Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	0.154500	54.9	3000.0	9.000	On	N	9.9	10.8	65.8	0.226500	47.9	3000.0	9.000	On	N	9.8	14.7	62.6	0.280500	52.0	3000.0	9.000	On	N	9.8	8.8	60.8	0.312000	53.6	3000.0	9.000	On	N	9.9	6.3	59.9	0.415500	44.5	3000.0	9.000	On	N	10.0	13.1	57.5	0.613500	44.4	3000.0	9.000	On	N	10.0	11.6	56.0
Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)																																																																																																																																								
0.334500	44.3	3000.0	9.000	On	L1	9.9	5.1	49.3																																																																																																																																								
0.393000	43.1	3000.0	9.000	On	L1	10.0	4.9	48.0																																																																																																																																								
0.559500	41.6	3000.0	9.000	On	L1	10.0	4.4	46.0																																																																																																																																								
0.784500	39.6	3000.0	9.000	On	L1	9.9	6.4	46.0																																																																																																																																								
0.829500	39.1	3000.0	9.000	On	L1	9.9	6.9	46.0																																																																																																																																								
19.311000	43.1	3000.0	9.000	On	L1	10.2	6.9	50.0																																																																																																																																								
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0.154500	54.9	3000.0	9.000	On	N	9.9	10.8	65.8																																																																																																																																								
0.226500	47.9	3000.0	9.000	On	N	9.8	14.7	62.6																																																																																																																																								
0.280500	52.0	3000.0	9.000	On	N	9.8	8.8	60.8																																																																																																																																								
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0.415500	44.5	3000.0	9.000	On	N	10.0	13.1	57.5																																																																																																																																								
0.613500	44.4	3000.0	9.000	On	N	10.0	11.6	56.0																																																																																																																																								
Ts 60	Final Result 1 <table><tr><th>Frequency (MHz)</th><th>QuasiPeak (dBµV)</th><th>Meas. Time (ms)</th><th>Bandwidth (kHz)</th><th>Filter</th><th>Line</th><th>Corr. (dB)</th><th>Margin (dB)</th><th>Limit (dBµV)</th></tr><tr><td>0.150000</td><td>57.6</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>9.8</td><td>8.4</td><td>66.0</td></tr><tr><td>0.226500</td><td>48.8</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>9.8</td><td>13.8</td><td>62.6</td></tr><tr><td>0.271500</td><td>51.2</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>9.8</td><td>9.2</td><td>61.1</td></tr><tr><td>0.312000</td><td>53.6</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>9.9</td><td>6.3</td><td>59.9</td></tr><tr><td>0.420000</td><td>43.9</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>10.0</td><td>13.6</td><td>57.4</td></tr><tr><td>0.573000</td><td>40.0</td><td>3000.0</td><td>9.000</td><td>On</td><td>L1</td><td>10.0</td><td>16.0</td><td>56.0</td></tr></table>									Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	0.150000	57.6	3000.0	9.000	On	L1	9.8	8.4	66.0	0.226500	48.8	3000.0	9.000	On	L1	9.8	13.8	62.6	0.271500	51.2	3000.0	9.000	On	L1	9.8	9.2	61.1	0.312000	53.6	3000.0	9.000	On	L1	9.9	6.3	59.9	0.420000	43.9	3000.0	9.000	On	L1	10.0	13.6	57.4	0.573000	40.0	3000.0	9.000	On	L1	10.0	16.0	56.0	Final Result 2 <table><tr><th>Frequency (MHz)</th><th>CAverage (dBµV)</th><th>Meas. Time (ms)</th><th>Bandwidth (kHz)</th><th>Filter</th><th>Line</th><th>Corr. (dB)</th><th>Margin (dB)</th><th>Limit (dBµV)</th></tr><tr><td>0.280500</td><td>43.1</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>9.8</td><td>7.7</td><td>50.8</td></tr><tr><td>0.334500</td><td>38.2</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>9.9</td><td>11.2</td><td>49.3</td></tr><tr><td>0.393000</td><td>38.3</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>10.0</td><td>9.7</td><td>48.0</td></tr><tr><td>0.447000</td><td>32.5</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>10.0</td><td>14.5</td><td>46.9</td></tr><tr><td>0.559500</td><td>40.7</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>10.0</td><td>5.3</td><td>46.0</td></tr><tr><td>0.784500</td><td>30.7</td><td>3000.0</td><td>9.000</td><td>On</td><td>N</td><td>9.9</td><td>15.3</td><td>46.0</td></tr></table>									Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	0.280500	43.1	3000.0	9.000	On	N	9.8	7.7	50.8	0.334500	38.2	3000.0	9.000	On	N	9.9	11.2	49.3	0.393000	38.3	3000.0	9.000	On	N	10.0	9.7	48.0	0.447000	32.5	3000.0	9.000	On	N	10.0	14.5	46.9	0.559500	40.7	3000.0	9.000	On	N	10.0	5.3	46.0	0.784500	30.7	3000.0	9.000	On	N	9.9	15.3	46.0
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)																																																																																																																																								
0.150000	57.6	3000.0	9.000	On	L1	9.8	8.4	66.0																																																																																																																																								
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0.784500	30.7	3000.0	9.000	On	N	9.9	15.3	46.0																																																																																																																																								
Result	Ts 66 : MIN 4.4dB (559KHz) → PASS Ts 60 : MIN 6.3dB (312KHz) → PASS									Ts 66 : MIN 6.3dB (312KHz) → PASS Ts 60 : MIN 5.3dB (559KHz) → PASS																																																																																																																																						

3. Additional Conduction Test(Ts 60 & 66) & wire turn alignment(appearance) by factory machine

1. MODEL : LA-B271KL-DA

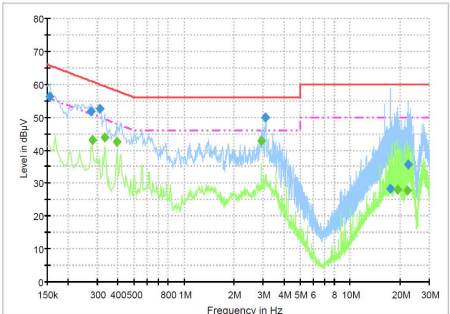
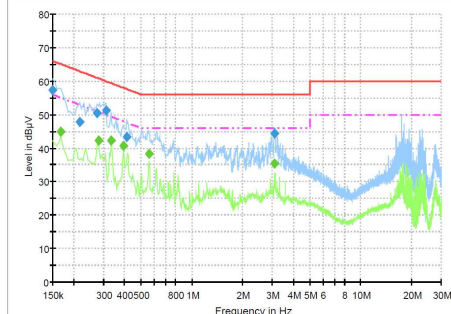
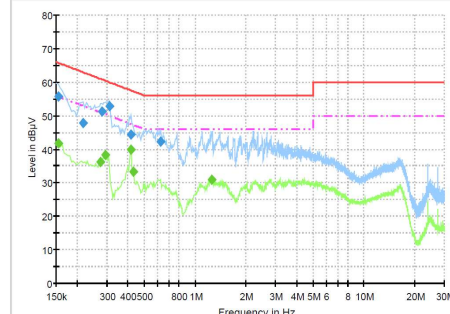
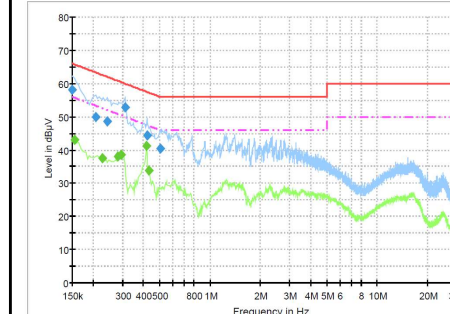
4. Test place :CTK

2. Test Condition : 220V/60Hz

5. Load Condition : STB live streaming

3. Test AMBIENT : 25°C

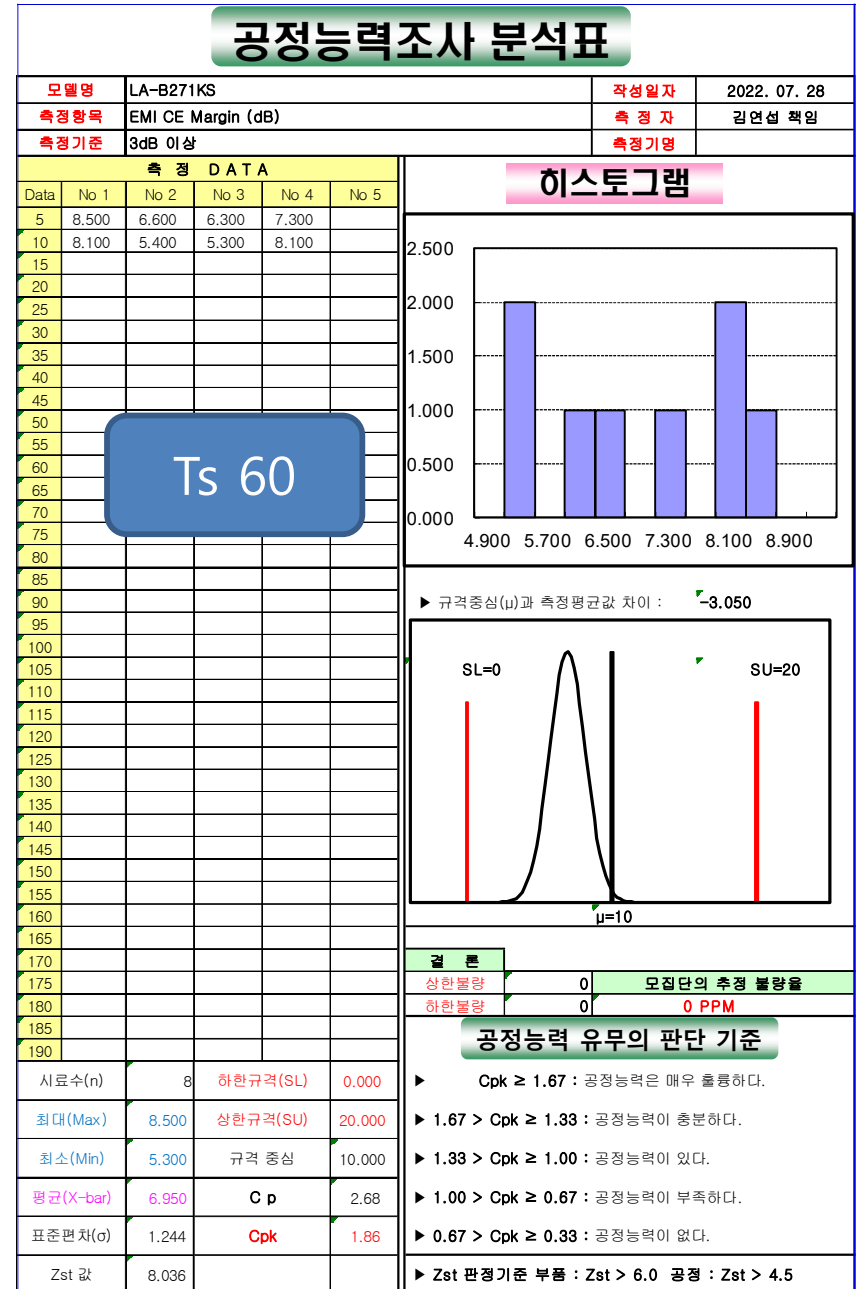
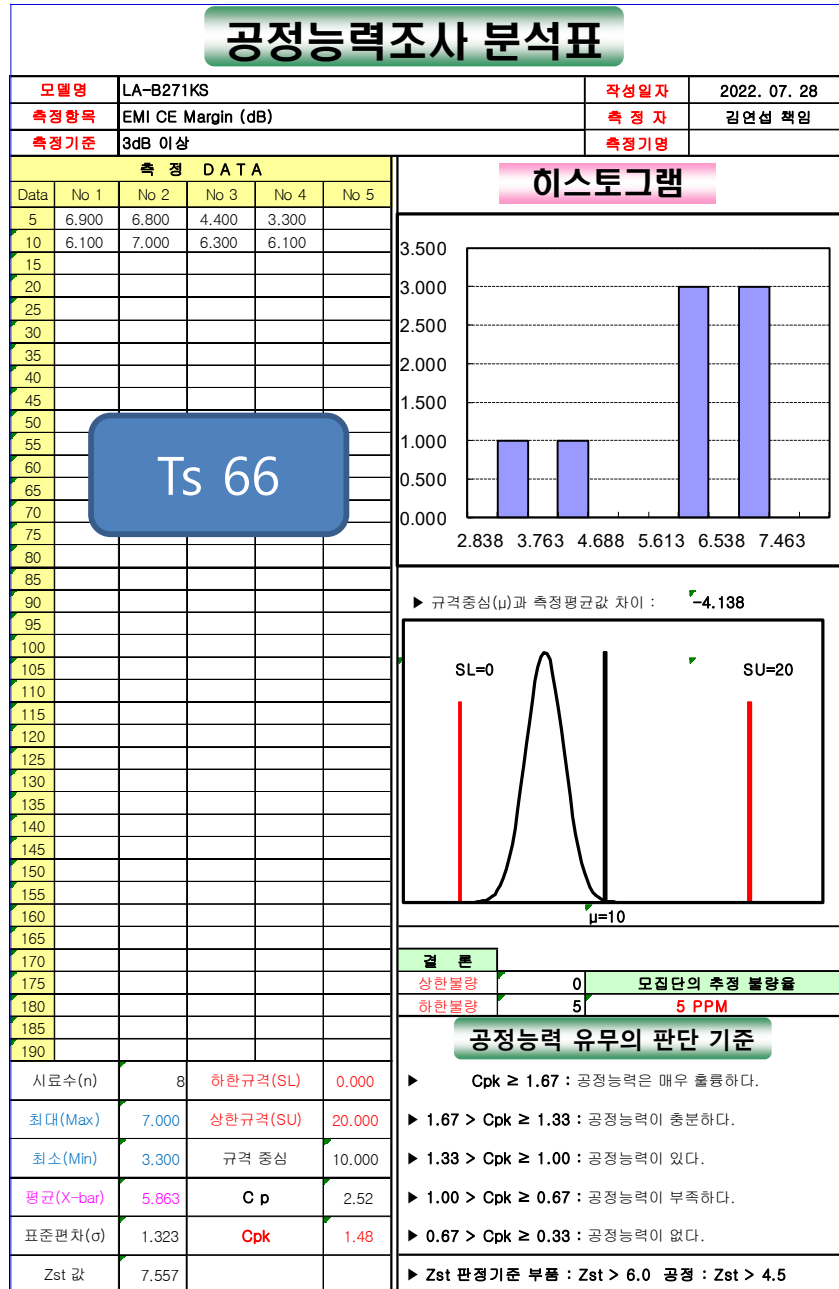
6. date : 7/28

구분	#4 Input : 220V/60Hz / L1										#4 Input : 220V/60Hz / N																																																																																																																																							
Ts	Ts 66					Ts 60					Ts 66					Ts 60																																																																																																																																		
																																																																																																																																																		
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Result	Ts 66 : MIN 3.3dB (2931KHz) → PASS Ts 60 : MIN 7.3dB (393KHz) → PASS										Ts 66 : MIN 6.1dB (402KHz) → PASS Ts 60 : MIN 8.1dB (316KHz) → PASS																																																																																																																																							

2. Failure symptom & CONTAINMENT PLAN

Failure symptom & Cause analysis (Line filter vendor)	CONTAINMENT PLAN
LINE FILTER 원인분석	4. CONTAINMENT PLAN 1) Sample samples 10EA out of 30EA Sample production by production plant, scheduled to be tested on August 22nd 2) Reinforcement of LINE FILTER Visual inspection Standards → Attached reference LINE FILTER 외관검사 기준 개선대책서 3) Future Plan • Efficacy evaluation(TBD)

4. Cpk Analysis (Ts 66 / Ts 60, Wire alignment Test)



5. Additional Conduction sample production by production

1. MODEL : LA-B271KL-DA

2. Test Condition : 220V/60Hz

3. Test AMBIENT : 25°C

4. Test place :CTK

5. Load Condition : STB live streaming

6. date : 9/15

No	구분	SPEC	시료1		시료2		시료3		시료4		시료5		시료6		시료7		시료8		시료9		시료10	
1	Ts	60±3	60		60		60		60		60		60		60		60		60		60	
2	EMI	3dB 이상	L1	N	L1	N	L1	N	L1	N	L1	N	L1	N	L1	N	L1	N	L1	N	L1	N
			402KHz	393KHz	402KHz	307KHz	334KHz	415KHz	321KHz	406KHz	307KHz	307KHz	312KHz	307KHz	303KHz	406KHz	280KHz	312KHz	312KHz	312KHz	307KHz	307KHz
			5.4dB	4.5dB	8.7dB	6.1dB	6.0dB	5.3dB	5.0dB	5.6dB	7.1dB	6.5dB	7.2dB	4.0dB	6.8dB	5.7dB	7.9dB	4.9dB	7.1dB	6.4dB	4.4dB	5.0dB
	판정		PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



EMI TEST DATA (220915).zip

6. Efficacy evaluation EMI TEST result

1. MODEL : LA-B271KL-DA

2. Test Condition : 220V/60Hz

Less than 3dB margin: Fail

3. Line Filters : OK / Limit approval/ NG

4. Load Condition : STB live streaming

5. EMI DATA of attached



Efficacy
Evaluation EMI TEST result

OK	1	2	3	4	5	6	7	8	9	10
Result	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Limit	1	2	3	4	5	6	7	8	9	10
Result	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Limit	11	12	13	14	15	16	17	18	19	20
Result	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
NG	1	2	3	4	5	6	7	8	9	10
Result	-0.26dB	0.43dB	0.13dB	0.04dB	0.07dB	0.69dB	0.69dB	0.72dB	1.47dB	-0.32dB
NG	11	12	13	14	15	16	17	18	19	20
Result	0.76dB	1.32dB	1.88dB	-0.08dB	-1.06dB	0.44dB	0.92dB	0.41dB	0.77dB	1.65dB

7. Conclusion

Conduction issue caused by line filter part

-> Use only the OK and Limit approval Line Filter for the following supply adaptors.

(We supply only products that pass the LINE FILTER visual inspection standard)