

TEST REPORT

Product Name : Long Distance Wireless Charger
Model Number : QI30
FCC ID : 2ARK8-QI30A

Prepared for : Loctek Ergonomic Technology Corp.
Address : 588 Qihang Nan Lu, Yinzhou District, Ningbo City, Zhejiang Province, China

Prepared by : EMTEK (SHENZHEN) CO., LTD.
Address : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

Tel: (0755) 26954280
Fax: (0755) 26954282

Report Number : ENS2210310315W00501R
Date(s) of Tests : November 21, 2022 to April 20, 2023
Date of Issue : April 21, 2023

TABLE OF CONTENT

Test Report Description	Page
1. SUMMARY OF TEST RESULTS	5
2. GENERAL INFORMATION	6
2.1. Description of Device (EUT)	6
2.2. Input / Output Ports	6
2.3. Independent Operation Modes	7
2.4. Test Manner	7
2.5. Description of Test Facility	7
2.6. Auxiliary Equipment List and Details	8
2.7. Measurement Uncertainty	8
3. MEASURING DEVICE AND TEST EQUIPMENT	9
3.1. Conducted Emission Test Equipment	9
3.2. For 3m Radiated Emission Measurement 9K-1GHz (3m chamber 1#)	9
4. 20DB BANDWIDTH	10
4.1. Test Procedure	10
4.2. Test Results	10
5. POWER LINE CONDUCTED EMISSION MEASUREMENT	11
5.1. Block Diagram of Test Setup	11
5.2. Limits	11
5.3. Test Procedure	11
5.4. Measuring Results	12
6. RADIATED EMISSION TEST	37
6.1. Measurement Procedure	37
6.2. Test SET-UP (Block Diagram of Configuration)	37
6.3. Radiated Emission Limit	38
6.4. Measurement Result	39
7. ANTENNA APPLICATION	75
7.1. Antenna Requirement	75
7.2. Result	75

TEST REPORT DESCRIPTION

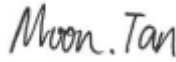
Applicant : Loctek Ergonomic Technology Corp.
Address : 588 Qihang Nan Lu, Yinzhou District, Ningbo City, Zhejiang Province, China.
Manufacturer : Loctek Ergonomic Technology Corp.
Address : 588 Qihang Nan Lu, Yinzhou District, Ningbo City, Zhejiang Province, China.
EUT : Long Distance Wireless Charger
Model Name : QI30
Trademark : N/A

We hereby certify that:


The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15C

The test results of this report relate only to the tested sample identified in this report.

Date of Test : November 21, 2022 to April 20, 2023

Prepared by : 
Moon Tan /Editor

Reviewer : 
Joe Xia/Supervisor

Approved & Authorized Signer : 
Lisa Wang/Manager



Modified Information

Version	Report No.	Revision Data	Summary
/	ENS2210310315W00501R	/	Original Version



1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Emission	FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2013	Pass
Radiated Emission	FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2013	Pass
Note: N/A is an abbreviation for Not Applicable.		



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product:	Long Distance Wireless Charger
Model Number:	QI30
Sample Number:	1#
Power Supply:	Input : DC 24~36V Output: Wireless charge 5W/10W
Test Voltage:	Input : DC 24~36V DC 29V from adapter
Wireless specification	10W(MAX)
Modulation:	Ask
Maximum Power Rate:	88.95 dBuV/m
Frequency Range:	110-175 kHz
Antenna Type:	Integral Antenna(Induction coil)
Antenna Gain:	0 dBi
Operating Temperature	0°C ~ +35°C
Date of Received:	November 21, 2022

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Type-C	DC	No	N/A	None
<p>* Note: For the purposes of the present document, the following symbols apply:</p> <p>AC AC Power Port DC DC Power Port N/E Non-Electrical I/O Signal Input or Output Port (Not Involved in Process Control) TP Telecommunication Ports</p>					

2.3. Independent Operation Modes

A	Wireless Charging(0 mm 10% load)
B	Wireless Charging(0 mm 50% load)
C	Wireless Charging(0 mm 100% load)
D	Wireless Charging(6 mm 10% load)
E	Wireless Charging(6 mm 50% load)
F	Wireless Charging(6 mm 100% load)
G	Wireless Charging(12 mm 10% load)
H	Wireless Charging(12 mm 50% load)
I	Wireless Charging(12 mm 100% load)
J	Wireless Charging(18 mm 10% load)
K	Wireless Charging(18 mm 50% load)
L	Wireless Charging(18 mm 100% load)

2.4. Test Manner

Test Items	Test Voltage	Operation Modes
Conducted Emission	AC 120V/60Hz	Mode A, B, C, D, E, F, G, H, I, J, K, L
Radiated Emission	AC 120V/60Hz	Mode A, B, C, D, E, F, G, H, I, J, K, L

2.5. Description of Test Facility

Site Description
EMC Lab.

: **Accredited by CNAS**
The Certificate Registration Number is L2291.
The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC
Designation Number: CN1204
Test Firm Registration Number: 882943

Accredited by A2LA
The Certificate Number is 4321.01.

Accredited by Industry Canada
The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK (SHENZHEN) CO., LTD.
Site Location : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

2.6. Auxiliary Equipment List and Details

No.	Equipment	Manufacturer	Model	S/N
1	wireless charging load	/	5W/10w/15W	/
2	AC/DC Switching Power Supply	/	W52RA198-290018	/
3	Host box	/	15W	/
4	board	/	6mm/12mm/18mm	/

Note: The device can only be powered by the Type-c cable. In a typical application, it will be connected to the HOST BOX through the USB interface, and the HOST BOX is provided by the manufacturer

2.7. Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Conducted Emissions Test	± 2.0 dB
Radiated Emission Test	± 2.0 dB
Occupied Bandwidth Test	± 1.0 dB
Temperature	± 0.5 °C
Humidity	± 3 %

Measurement Uncertainty for a level of Confidence of 95%

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	Cal. Interval
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/18/2022	1Year
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/18/2022	1Year
50Ω Coaxial Switch	Anritsu	MP59B	M20531	05/18/2022	1Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	05/18/2022	1Year
Voltage Probe	Rohde & Schwarz	TK9416	N/A	05/18/2022	1Year
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	05/18/2022	1Year

3.2. For 3m Radiated Emission Measurement 9K-1GHz (3m chamber 1#)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	DUE CAL.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/18/2022	1Year
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	05/18/2022	1Year
Cable	/	3M SF104-26.5	295838/4	05/18/2022	1Year
Cable	/	6M SF104-26.5	295840/4	05/18/2022	1Year
Pre-Amplifier	HP	8447F	2944A07999	05/18/2022	1Year
Bilog Antenna	Schwarzbeck	VULB9163	142	05/18/2022	1Year
Cable	Schwarzbeck	AK9513	ACRX1	05/18/2022	1Year
Cable	Rosenberger	N/A	FP2RX2	05/18/2022	1Year
Cable	Schwarzbeck	AK9513	CRPX1	05/18/2022	1Year
Cable	Schwarzbeck	AK9513	CRRX2	05/18/2022	1Year

4. 20DB BANDWIDTH

4.1. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1%-5%OBW

Set the video bandwidth (VBW) = 3*RBW

Set Span= 30 kHz

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Measure and record the results in the test report.

4.2. Test Results

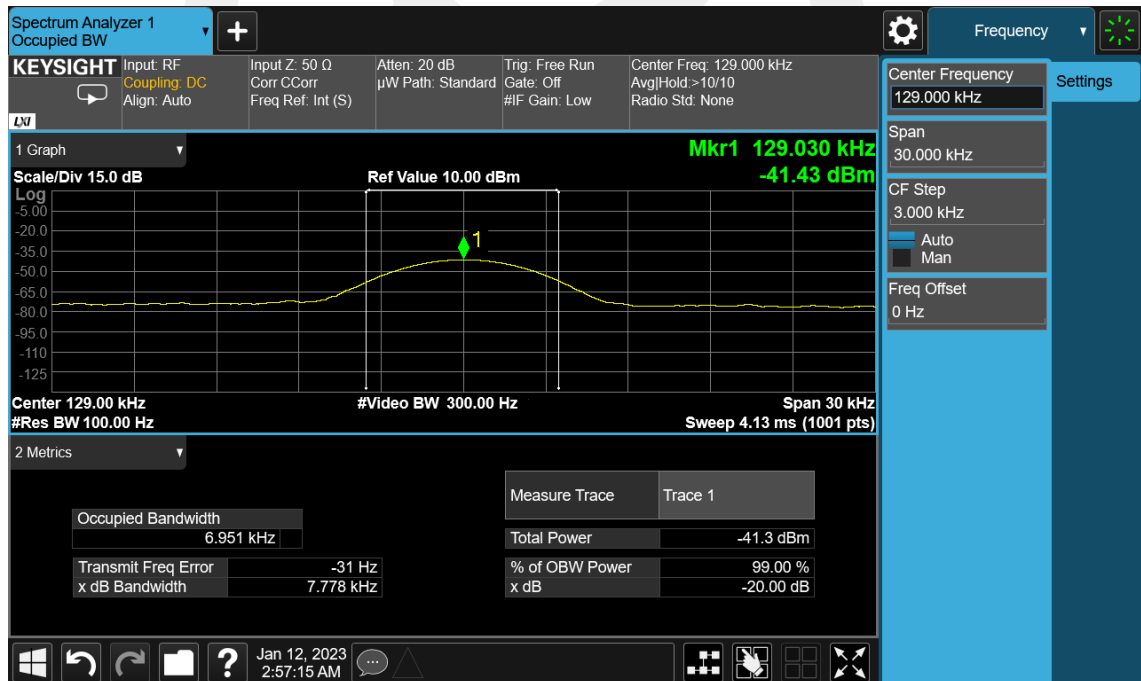
Temperature: 24°C

Humidity: 53 %

Test Date: January 12, 2023

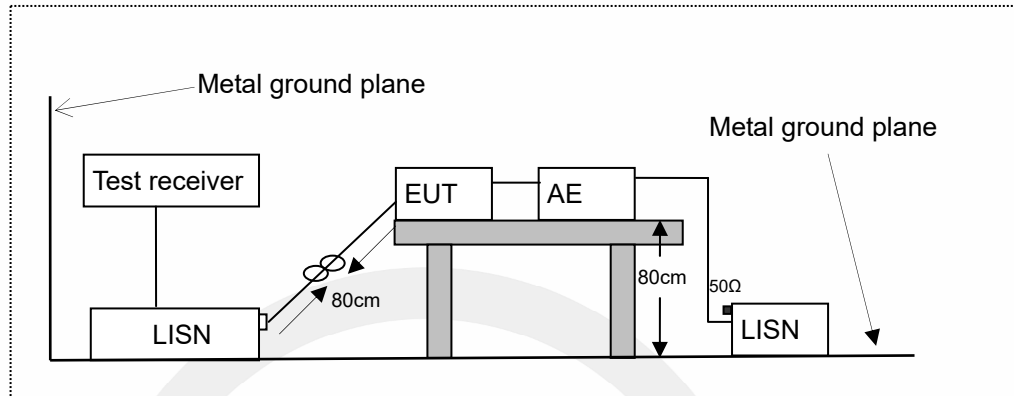
Test By: XSJ

20dB Band=7.778 kHz



5. POWER LINE CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network
 AE: Associated equipment
 EUT: Equipment under test

5.2. Limits

FCC Part 15.207

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.
 NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x 1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

Emission Level (dB μ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB μ V)

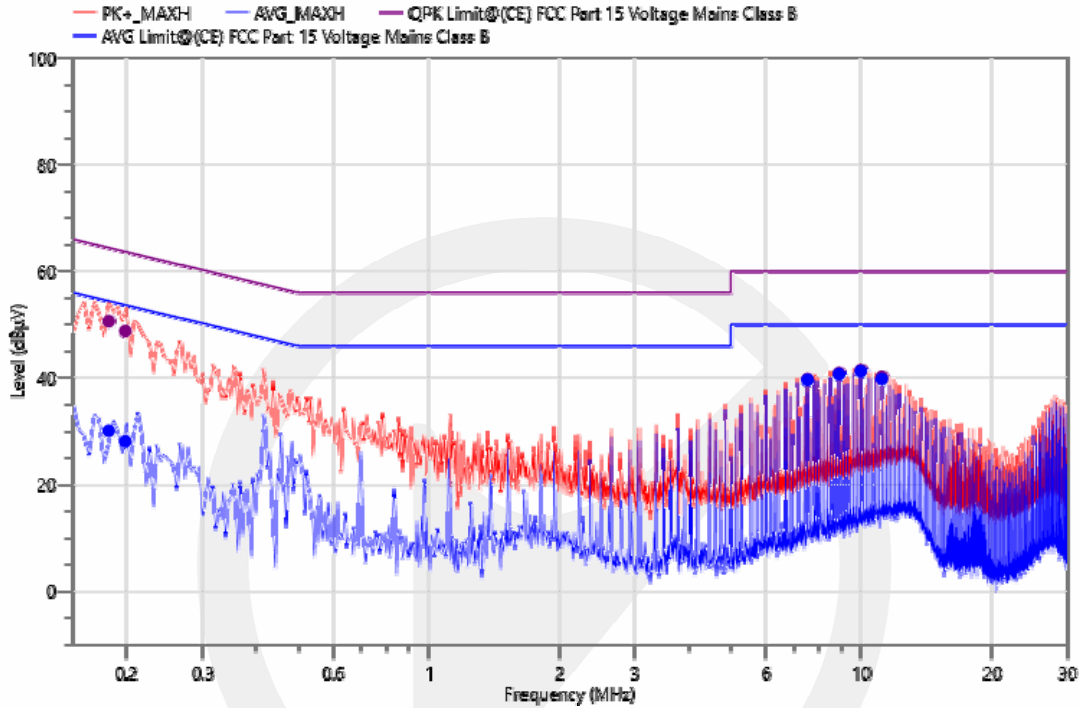
Margin (dB) = Emission Level (dB μ V) - Limit (dB μ V)

5.4. Measuring Results

Pass.

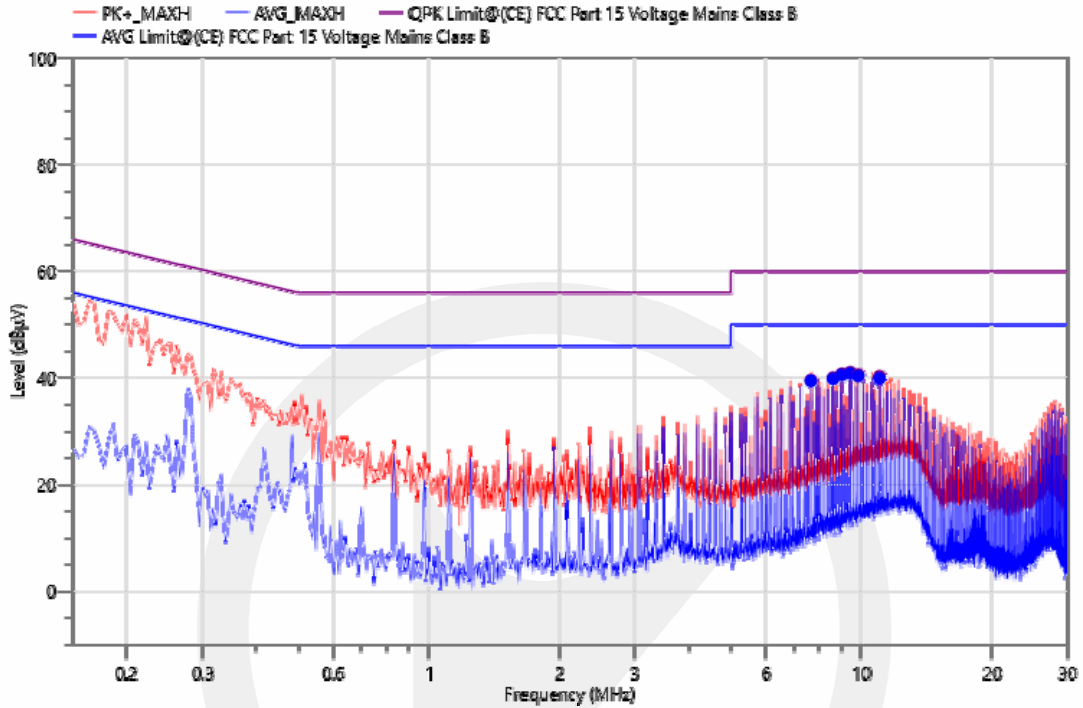


Project Information			
Mode:	0mm 100% Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



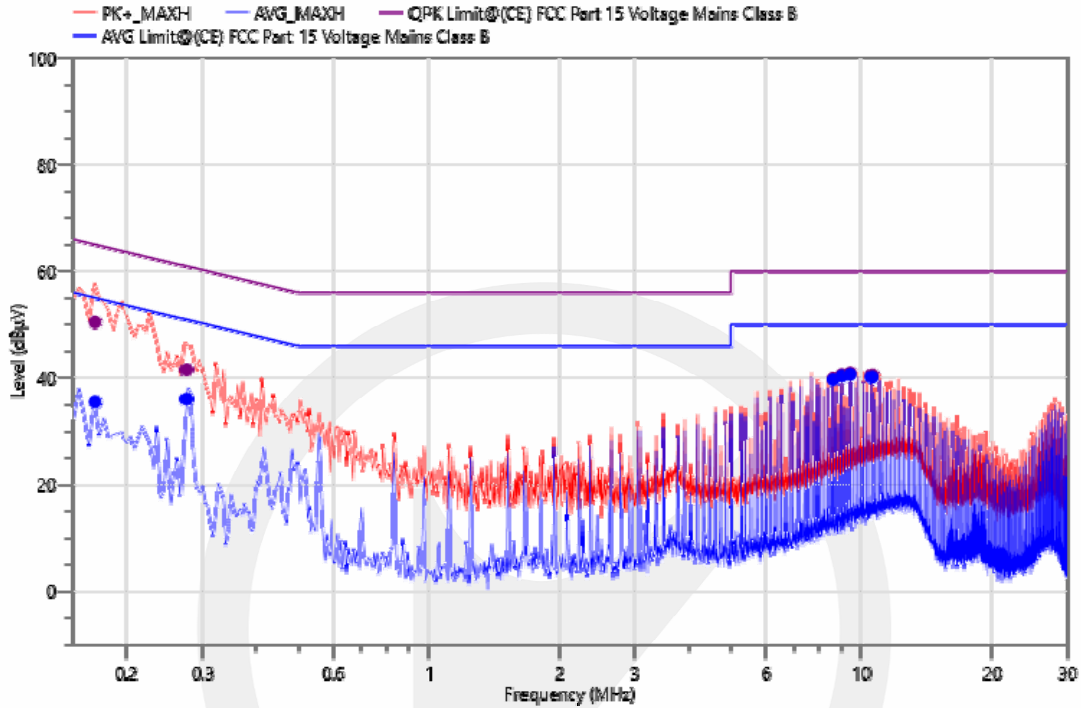
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.18	40.82	50.61	64.39	13.78	QPK	L1	9.79	PASS
0.18	20.24	30.03	54.39	24.36	AVG	L1	9.79	PASS
0.20	39.00	48.77	63.65	14.88	QPK	L1	9.77	PASS
0.20	18.27	28.04	53.65	25.61	AVG	L1	9.77	PASS
7.50	29.50	39.75	60.00	20.25	QPK	L1	10.25	PASS
7.50	29.34	39.59	50.00	10.41	AVG	L1	10.25	PASS
8.89	30.62	40.88	60.00	19.12	QPK	L1	10.26	PASS
8.89	30.39	40.65	50.00	9.35	AVG	L1	10.26	PASS
10.00	31.16	41.42	60.00	18.58	QPK	L1	10.26	PASS
10.00	30.95	41.21	50.00	8.79	AVG	L1	10.26	PASS
11.11	29.87	40.16	60.00	19.84	QPK	L1	10.29	PASS
11.11	29.45	39.74	50.00	10.26	AVG	L1	10.29	PASS

Project Information			
Mode:	0mm 100%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



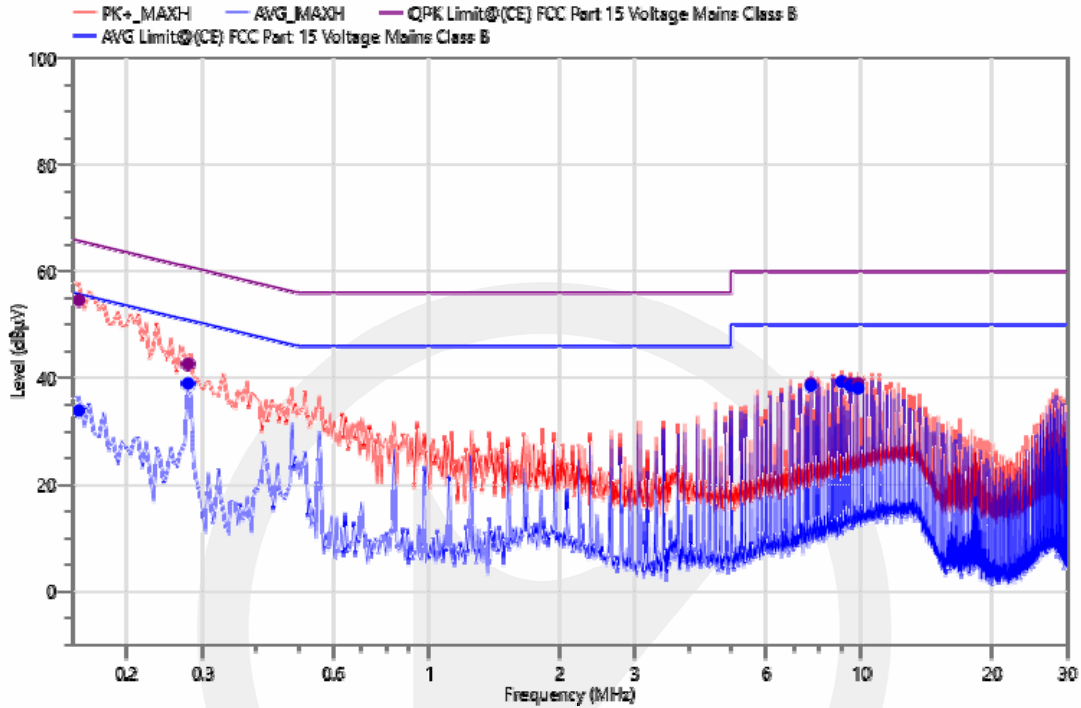
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
7.64	29.74	39.55	60.00	20.45	QPK	N	9.81	PASS
7.64	29.57	39.38	50.00	10.62	AVG	N	9.81	PASS
8.61	30.20	40.02	60.00	19.98	QPK	N	9.82	PASS
8.61	29.95	39.77	50.00	10.23	AVG	N	9.82	PASS
9.03	30.93	40.76	60.00	19.24	QPK	N	9.83	PASS
9.03	30.69	40.52	50.00	9.48	AVG	N	9.83	PASS
9.45	31.21	41.04	60.00	18.96	QPK	N	9.83	PASS
9.45	30.96	40.79	50.00	9.21	AVG	N	9.83	PASS
9.86	30.77	40.61	60.00	19.39	QPK	N	9.84	PASS
9.86	30.46	40.30	50.00	9.7	AVG	N	9.84	PASS
10.97	30.40	40.29	60.00	19.71	QPK	N	9.89	PASS
10.97	29.95	39.84	50.00	10.16	AVG	N	9.89	PASS

Project Information			
Mode:	0mm 50%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



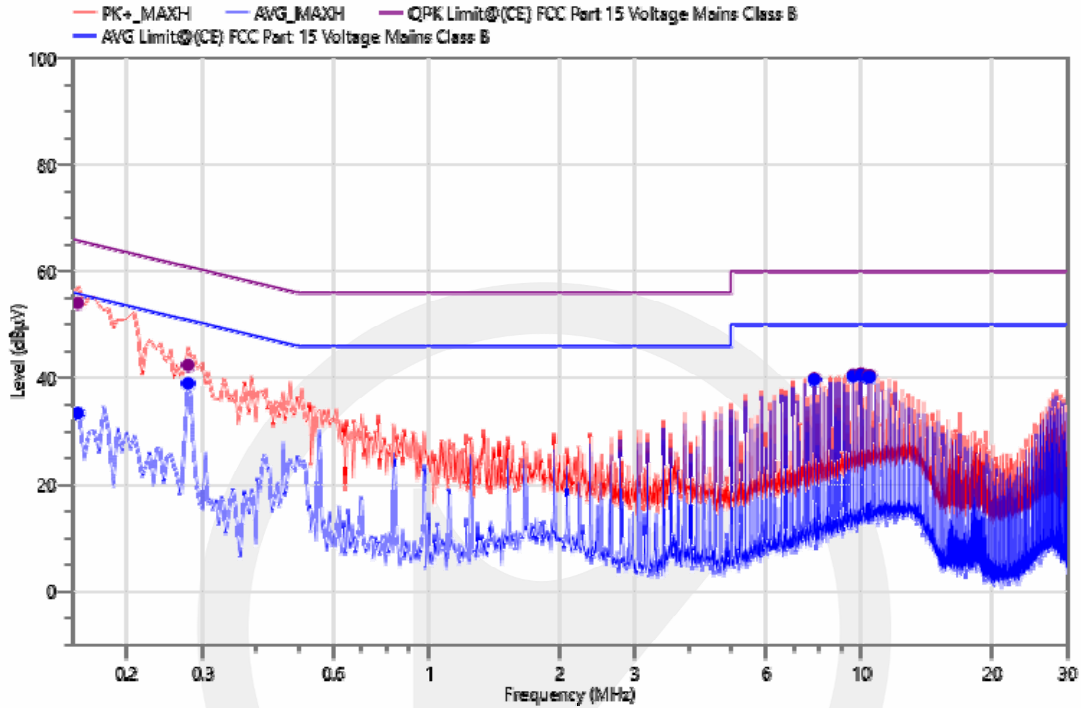
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.17	40.59	50.45	65.01	14.56	QPK	N	9.86	PASS
0.17	25.62	35.48	55.01	19.53	AVG	N	9.86	PASS
0.28	31.62	41.50	60.97	19.47	QPK	N	9.88	PASS
0.28	26.10	35.98	50.97	14.99	AVG	N	9.88	PASS
8.61	30.07	39.89	60.00	20.11	QPK	N	9.82	PASS
8.61	29.80	39.62	50.00	10.38	AVG	N	9.82	PASS
9.03	30.76	40.59	60.00	19.41	QPK	N	9.83	PASS
9.03	30.50	40.33	50.00	9.67	AVG	N	9.83	PASS
9.45	31.06	40.89	60.00	19.11	QPK	N	9.83	PASS
9.45	30.78	40.61	50.00	9.39	AVG	N	9.83	PASS
10.56	30.64	40.51	60.00	19.49	QPK	N	9.87	PASS
10.56	30.23	40.10	50.00	9.9	AVG	N	9.87	PASS

Project Information			
Mode:	0mm 50%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



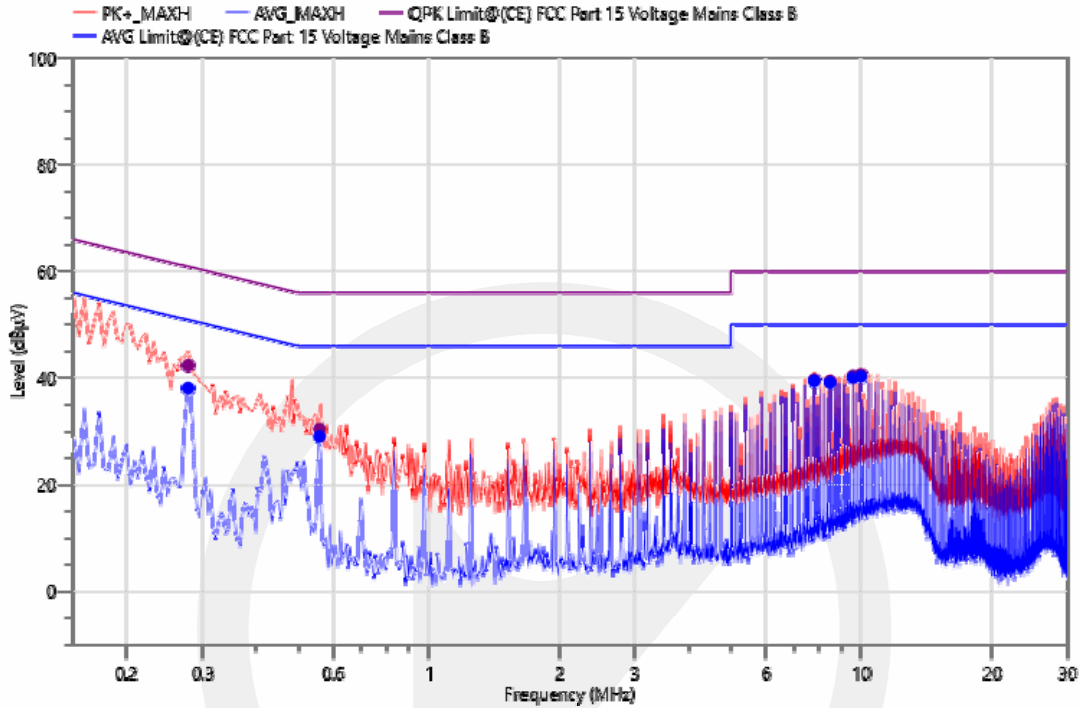
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.16	44.72	54.55	65.73	11.18	QPK	L1	9.83	PASS
0.16	24.00	33.83	55.73	21.9	AVG	L1	9.83	PASS
0.28	32.71	42.58	60.91	18.33	QPK	L1	9.87	PASS
0.28	29.05	38.92	50.91	11.99	AVG	L1	9.87	PASS
7.64	28.67	38.92	60.00	21.08	QPK	L1	10.25	PASS
7.64	28.26	38.51	50.00	11.49	AVG	L1	10.25	PASS
9.02	29.03	39.29	60.00	20.71	QPK	L1	10.26	PASS
9.02	28.95	39.21	50.00	10.79	AVG	L1	10.26	PASS
9.45	28.72	38.98	60.00	21.02	QPK	L1	10.26	PASS
9.45	28.24	38.50	50.00	11.5	AVG	L1	10.26	PASS
9.86	28.68	38.94	60.00	21.06	QPK	L1	10.26	PASS
9.86	27.75	38.01	50.00	11.99	AVG	L1	10.26	PASS

Project Information			
Mode:	0mm 10%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



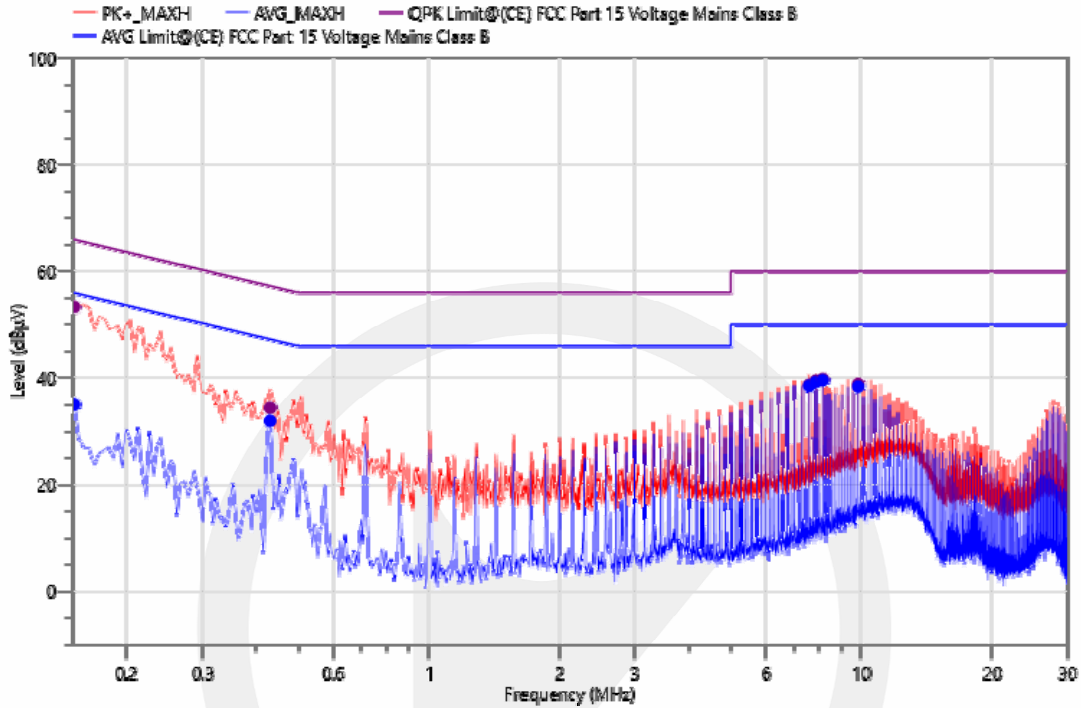
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.15	44.20	54.03	65.78	11.75	QPK	L1	9.83	PASS
0.15	23.51	33.34	55.78	22.44	AVG	L1	9.83	PASS
0.28	32.51	42.38	60.91	18.53	QPK	L1	9.87	PASS
0.28	29.06	38.93	50.91	11.98	AVG	L1	9.87	PASS
7.78	29.58	39.83	60.00	20.17	QPK	L1	10.25	PASS
7.78	29.39	39.64	50.00	10.36	AVG	L1	10.25	PASS
9.58	30.27	40.53	60.00	19.47	QPK	L1	10.26	PASS
9.58	30.00	40.26	50.00	9.74	AVG	L1	10.26	PASS
10.00	30.51	40.77	60.00	19.23	QPK	L1	10.26	PASS
10.00	30.20	40.46	50.00	9.54	AVG	L1	10.26	PASS
10.42	30.17	40.44	60.00	19.56	QPK	L1	10.27	PASS
10.42	29.82	40.09	50.00	9.91	AVG	L1	10.27	PASS

Project Information			
Mode:	0mm 10%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



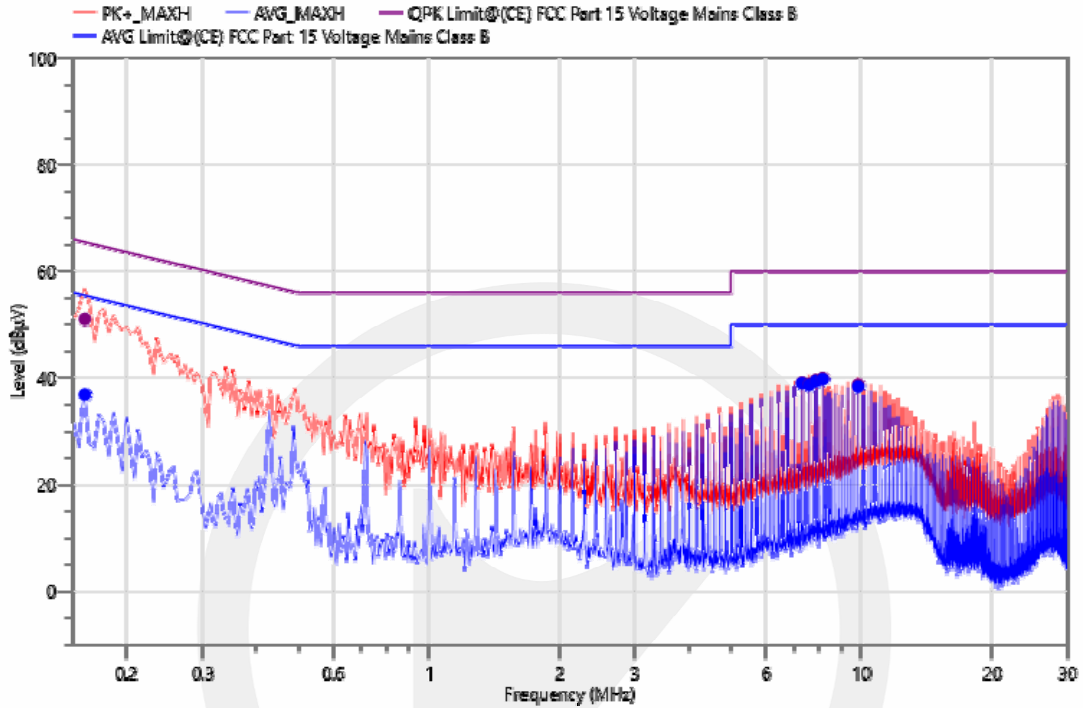
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.28	32.46	42.32	60.91	18.59	QPK	N	9.86	PASS
0.28	28.18	38.04	50.91	12.87	AVG	N	9.86	PASS
0.56	20.56	30.34	56.00	25.66	QPK	N	9.78	PASS
0.56	19.17	28.95	46.00	17.05	AVG	N	9.78	PASS
7.78	29.80	39.61	60.00	20.39	QPK	N	9.81	PASS
7.78	29.58	39.39	50.00	10.61	AVG	N	9.81	PASS
8.47	29.57	39.39	60.00	20.61	QPK	N	9.82	PASS
8.47	29.25	39.07	50.00	10.93	AVG	N	9.82	PASS
9.58	30.51	40.34	60.00	19.66	QPK	N	9.83	PASS
9.58	30.17	40.00	50.00	10	AVG	N	9.83	PASS
10.00	30.77	40.61	60.00	19.39	QPK	N	9.84	PASS
10.00	30.40	40.24	50.00	9.76	AVG	N	9.84	PASS

Project Information			
Mode:	6mm 100%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



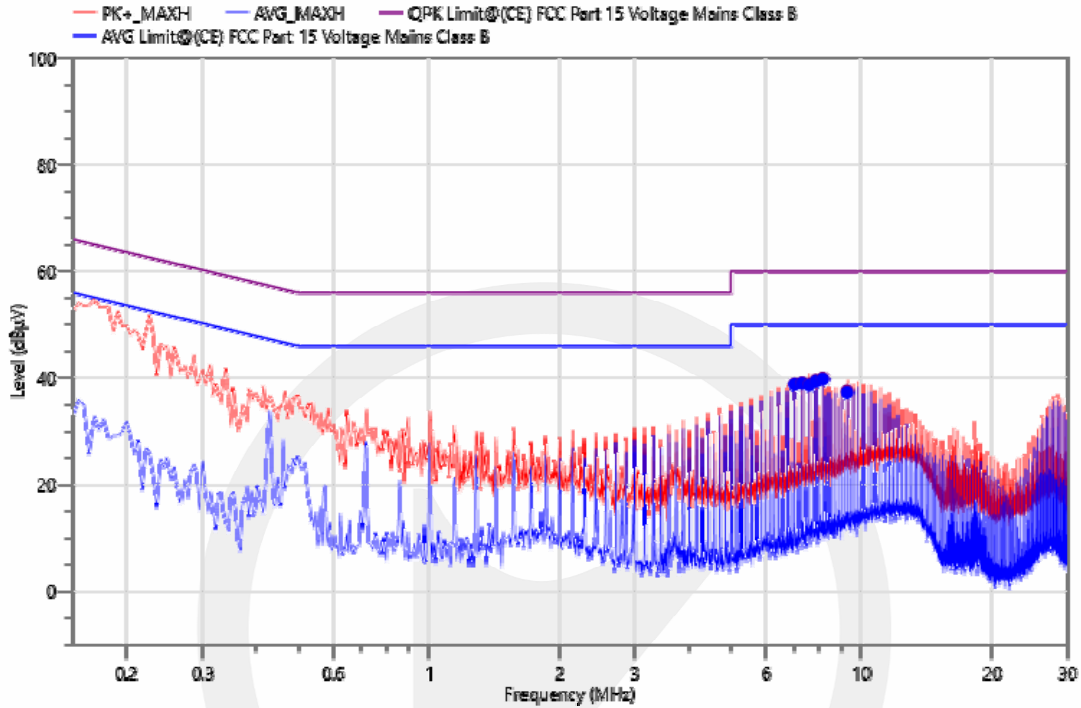
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.15	43.57	53.28	65.94	12.66	QPK	N	9.71	PASS
0.15	25.25	34.96	55.94	20.98	AVG	N	9.71	PASS
0.43	24.54	34.36	57.23	22.87	QPK	N	9.82	PASS
0.43	22.08	31.90	47.23	15.33	AVG	N	9.82	PASS
7.57	28.87	38.68	60.00	21.32	QPK	N	9.81	PASS
7.57	28.66	38.47	50.00	11.53	AVG	N	9.81	PASS
7.86	29.64	39.45	60.00	20.55	QPK	N	9.81	PASS
7.86	29.38	39.19	50.00	10.81	AVG	N	9.81	PASS
8.14	29.93	39.75	60.00	20.25	QPK	N	9.82	PASS
8.14	29.69	39.51	50.00	10.49	AVG	N	9.82	PASS
9.86	28.97	38.81	60.00	21.19	QPK	N	9.84	PASS
9.86	28.48	38.32	50.00	11.68	AVG	N	9.84	PASS

Project Information			
Mode:	6mm 100%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



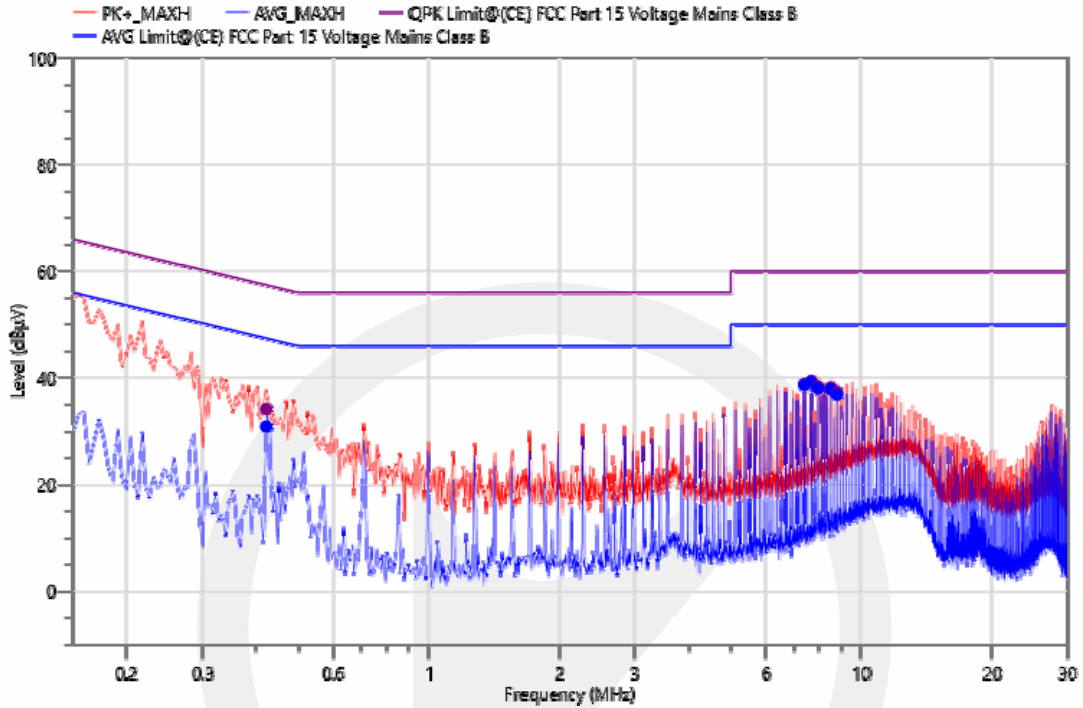
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.16	41.20	51.02	65.46	14.44	QPK	L1	9.82	PASS
0.16	27.00	36.82	55.46	18.64	AVG	L1	9.82	PASS
7.29	28.84	39.09	60.00	20.91	QPK	L1	10.25	PASS
7.29	28.70	38.95	50.00	11.05	AVG	L1	10.25	PASS
7.57	28.56	38.81	60.00	21.19	QPK	L1	10.25	PASS
7.57	28.39	38.64	50.00	11.36	AVG	L1	10.25	PASS
7.86	29.33	39.58	60.00	20.42	QPK	L1	10.25	PASS
7.86	29.11	39.36	50.00	10.64	AVG	L1	10.25	PASS
8.14	29.64	39.89	60.00	20.11	QPK	L1	10.25	PASS
8.14	29.45	39.70	50.00	10.3	AVG	L1	10.25	PASS
9.86	28.45	38.71	60.00	21.29	QPK	L1	10.26	PASS
9.86	28.06	38.32	50.00	11.68	AVG	L1	10.26	PASS

Project Information			
Mode:	6mm 50%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



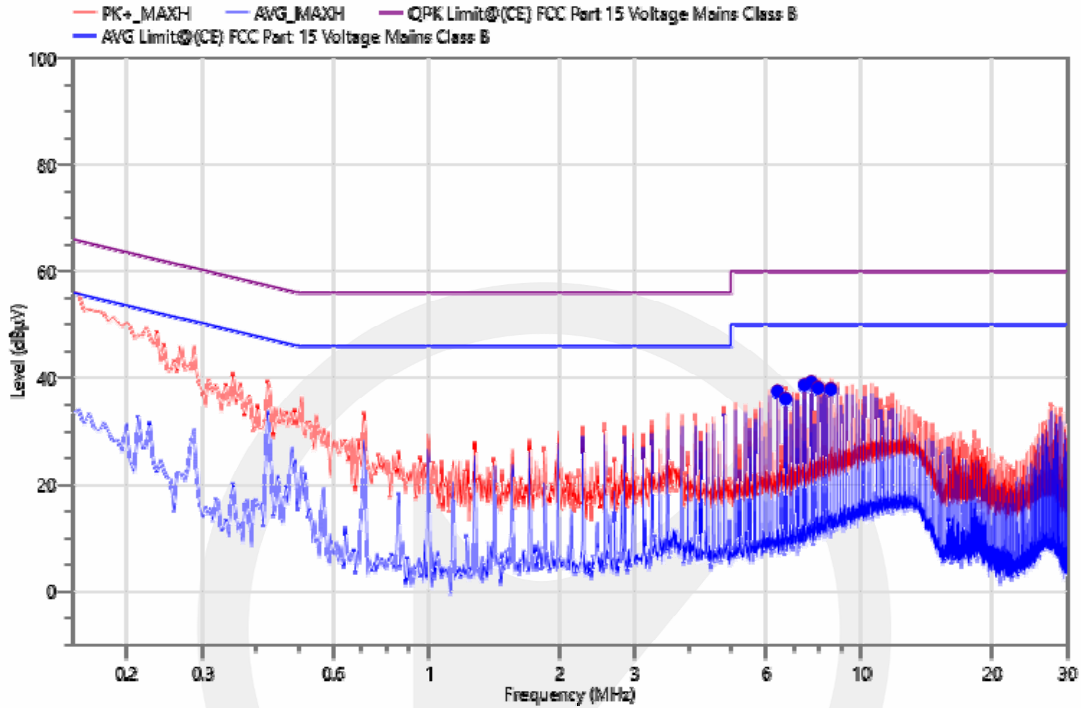
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
7.00	28.62	38.87	60.00	21.13	QPK	L1	10.25	PASS
7.00	28.50	38.75	50.00	11.25	AVG	L1	10.25	PASS
7.29	28.83	39.08	60.00	20.92	QPK	L1	10.25	PASS
7.29	28.69	38.94	50.00	11.06	AVG	L1	10.25	PASS
7.57	28.53	38.78	60.00	21.22	QPK	L1	10.25	PASS
7.57	28.36	38.61	50.00	11.39	AVG	L1	10.25	PASS
7.86	29.31	39.56	60.00	20.44	QPK	L1	10.25	PASS
7.86	29.08	39.33	50.00	10.67	AVG	L1	10.25	PASS
8.14	29.64	39.89	60.00	20.11	QPK	L1	10.25	PASS
8.14	29.44	39.69	50.00	10.31	AVG	L1	10.25	PASS
9.28	27.31	37.57	60.00	22.43	QPK	L1	10.26	PASS
9.28	26.94	37.20	50.00	12.8	AVG	L1	10.26	PASS

Project Information			
Mode:	6mm 50%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



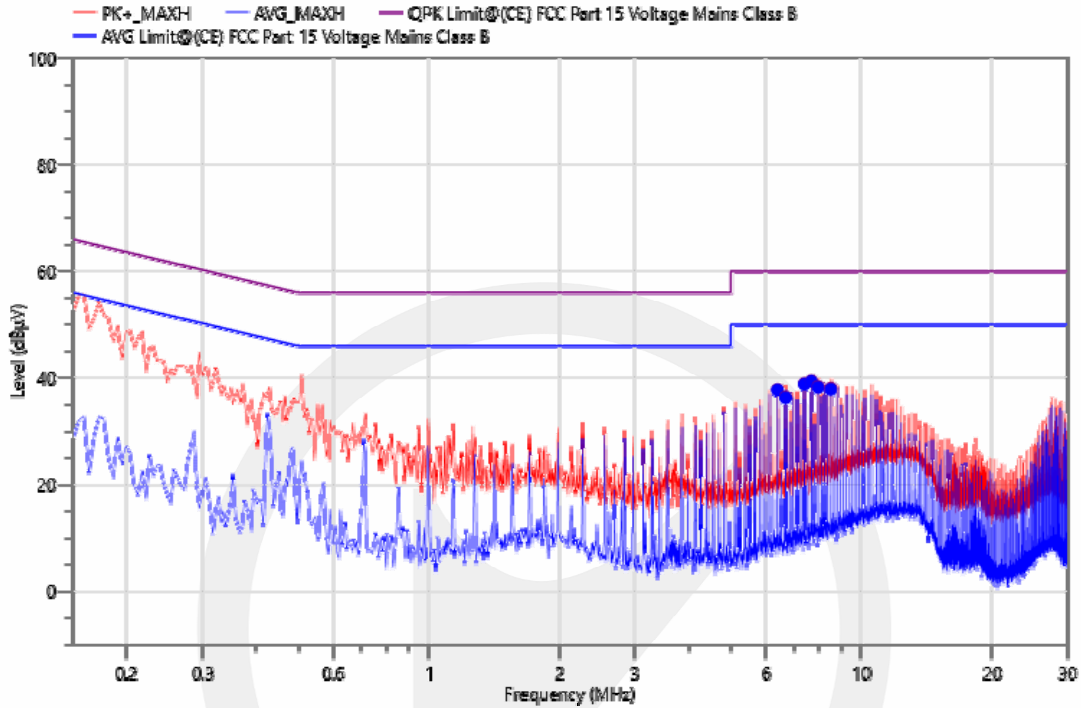
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.42	24.29	34.10	57.41	23.31	QPK	N	9.81	PASS
0.42	21.00	30.81	47.41	16.6	AVG	N	9.81	PASS
7.38	28.99	38.80	60.00	21.2	QPK	N	9.81	PASS
7.38	28.79	38.60	50.00	11.4	AVG	N	9.81	PASS
7.66	29.54	39.35	60.00	20.65	QPK	N	9.81	PASS
7.66	29.34	39.15	50.00	10.85	AVG	N	9.81	PASS
7.95	28.46	38.27	60.00	21.73	QPK	N	9.81	PASS
7.95	28.19	38.00	50.00	12	AVG	N	9.81	PASS
8.51	28.34	38.16	60.00	21.84	QPK	N	9.82	PASS
8.51	27.99	37.81	50.00	12.19	AVG	N	9.82	PASS
8.80	27.42	37.24	60.00	22.76	QPK	N	9.82	PASS
8.80	26.97	36.79	50.00	13.21	AVG	N	9.82	PASS

Project Information			
Mode:	6mm 10%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



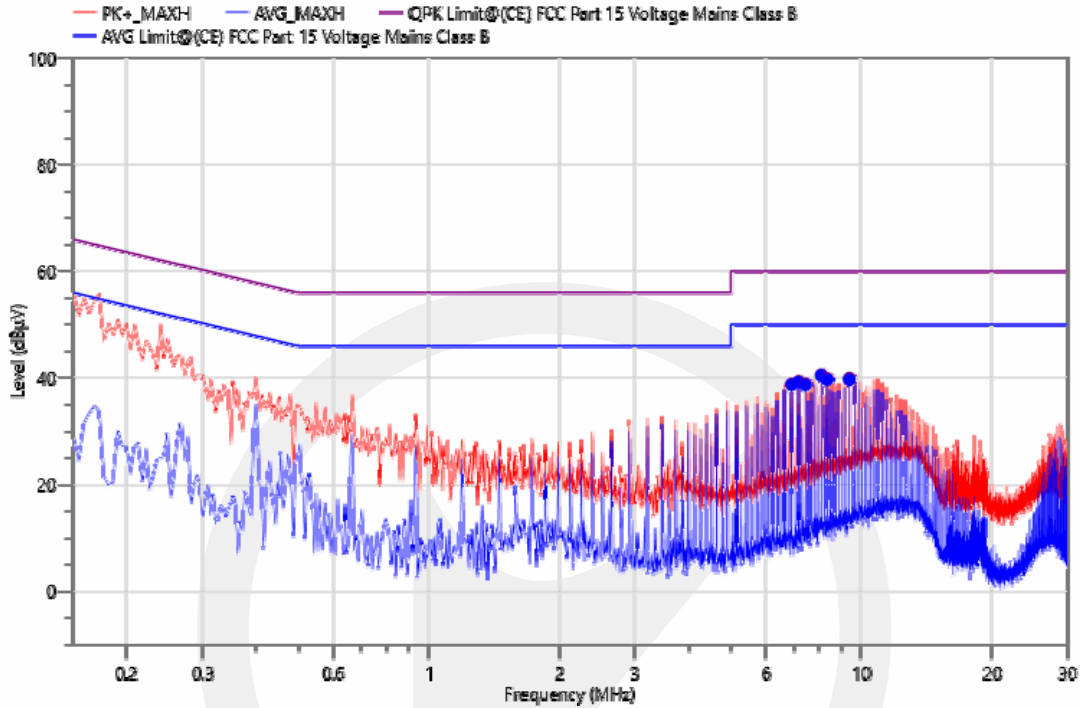
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
6.38	27.79	37.56	60.00	22.44	QPK	N	9.77	PASS
6.38	27.62	37.39	50.00	12.61	AVG	N	9.77	PASS
6.67	26.37	36.16	60.00	23.84	QPK	N	9.79	PASS
6.67	26.15	35.94	50.00	14.06	AVG	N	9.79	PASS
7.38	28.95	38.76	60.00	21.24	QPK	N	9.81	PASS
7.38	28.76	38.57	50.00	11.43	AVG	N	9.81	PASS
7.66	29.50	39.31	60.00	20.69	QPK	N	9.81	PASS
7.66	29.31	39.12	50.00	10.88	AVG	N	9.81	PASS
7.95	28.46	38.27	60.00	21.73	QPK	N	9.81	PASS
7.95	28.17	37.98	50.00	12.02	AVG	N	9.81	PASS
8.51	28.23	38.05	60.00	21.95	QPK	N	9.82	PASS
8.51	27.90	37.72	50.00	12.28	AVG	N	9.82	PASS

Project Information			
Mode:	6mm 10%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



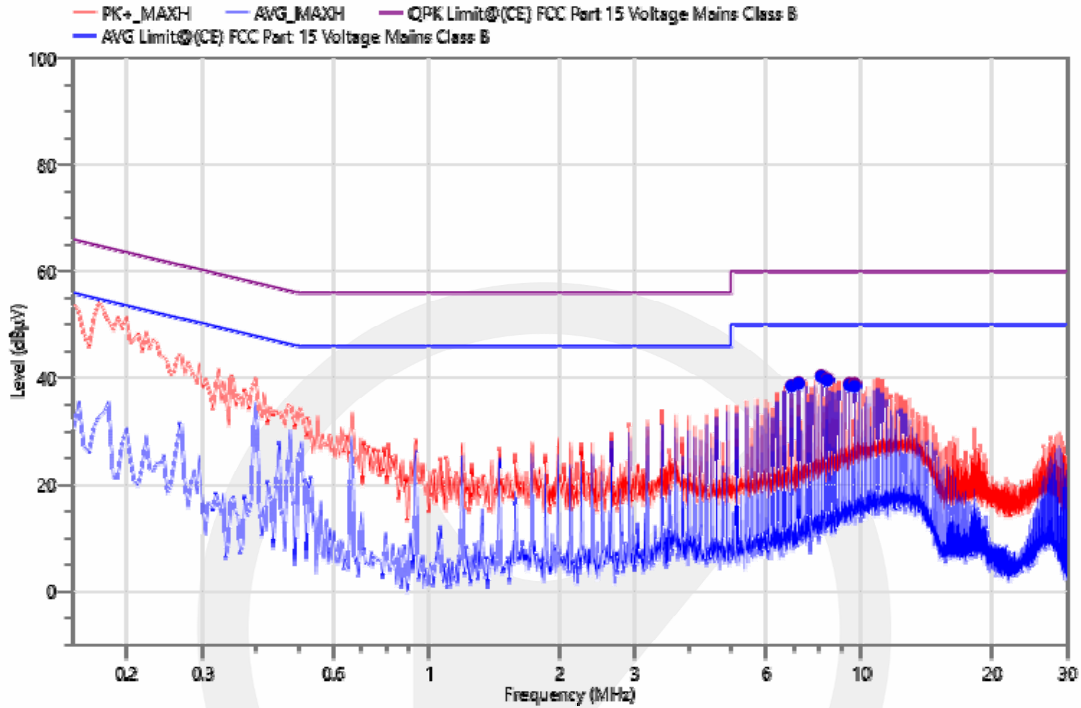
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
6.38	27.57	37.81	60.00	22.19	QPK	L1	10.24	PASS
6.38	27.43	37.67	50.00	12.33	AVG	L1	10.24	PASS
6.67	26.14	36.38	60.00	23.62	QPK	L1	10.24	PASS
6.67	25.96	36.20	50.00	13.8	AVG	L1	10.24	PASS
7.38	28.68	38.93	60.00	21.07	QPK	L1	10.25	PASS
7.38	28.51	38.76	50.00	11.24	AVG	L1	10.25	PASS
7.66	29.21	39.46	60.00	20.54	QPK	L1	10.25	PASS
7.66	29.05	39.30	50.00	10.7	AVG	L1	10.25	PASS
7.95	28.13	38.38	60.00	21.62	QPK	L1	10.25	PASS
7.95	27.90	38.15	50.00	11.85	AVG	L1	10.25	PASS
8.51	27.79	38.05	60.00	21.95	QPK	L1	10.26	PASS
8.51	27.53	37.79	50.00	12.21	AVG	L1	10.26	PASS

Project Information			
Mode:	12mm 10%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



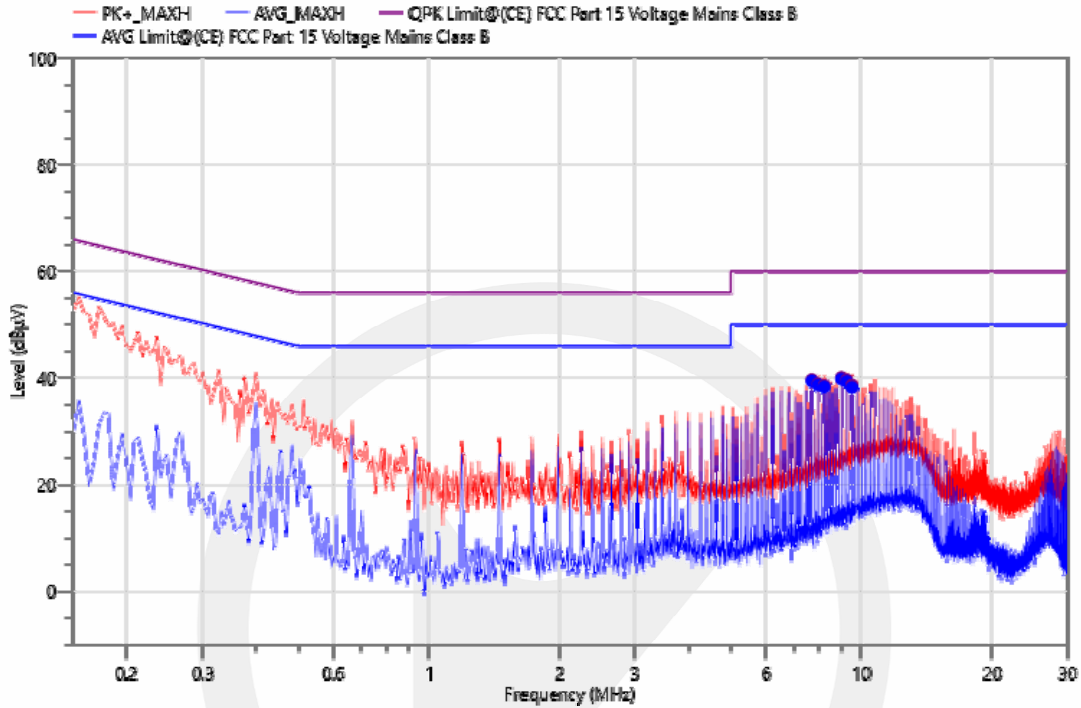
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
6.89	28.56	38.81	60.00	21.19	QPK	L1	10.25	PASS
6.89	28.42	38.67	50.00	11.33	AVG	L1	10.25	PASS
7.15	29.06	39.31	60.00	20.69	QPK	L1	10.25	PASS
7.15	28.88	39.13	50.00	10.87	AVG	L1	10.25	PASS
7.42	28.63	38.88	60.00	21.12	QPK	L1	10.25	PASS
7.42	28.40	38.65	50.00	11.35	AVG	L1	10.25	PASS
8.08	30.31	40.56	60.00	19.44	QPK	L1	10.25	PASS
8.08	30.14	40.39	50.00	9.61	AVG	L1	10.25	PASS
8.34	29.60	39.85	60.00	20.15	QPK	L1	10.25	PASS
8.34	29.36	39.61	50.00	10.39	AVG	L1	10.25	PASS
9.40	29.65	39.91	60.00	20.09	QPK	L1	10.26	PASS
9.40	29.34	39.60	50.00	10.4	AVG	L1	10.26	PASS

Project Information			
Mode:	12mm 10%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



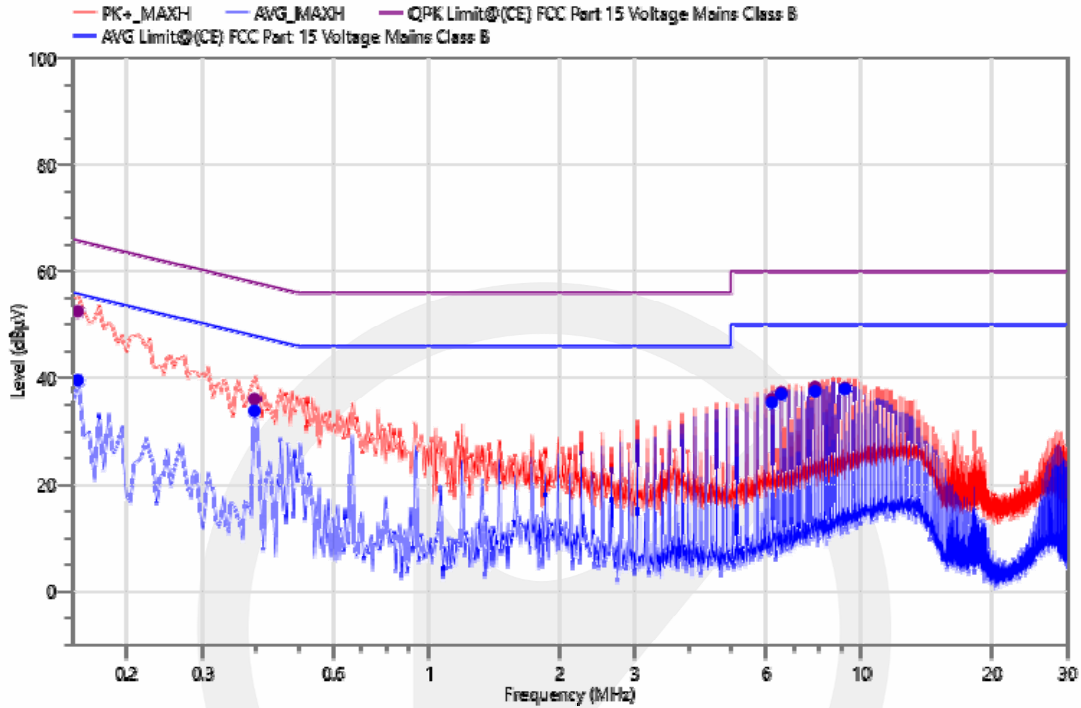
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
6.89	28.79	38.58	60.00	21.42	QPK	N	9.79	PASS
6.89	28.62	38.41	50.00	11.59	AVG	N	9.79	PASS
7.15	29.31	39.11	60.00	20.89	QPK	N	9.8	PASS
7.15	29.09	38.89	50.00	11.11	AVG	N	9.8	PASS
8.08	30.61	40.42	60.00	19.58	QPK	N	9.81	PASS
8.08	30.39	40.20	50.00	9.8	AVG	N	9.81	PASS
8.34	29.98	39.80	60.00	20.2	QPK	N	9.82	PASS
8.34	29.70	39.52	50.00	10.48	AVG	N	9.82	PASS
9.40	29.14	38.97	60.00	21.03	QPK	N	9.83	PASS
9.40	28.75	38.58	50.00	11.42	AVG	N	9.83	PASS
9.67	29.11	38.95	60.00	21.05	QPK	N	9.84	PASS
9.67	28.50	38.34	50.00	11.66	AVG	N	9.84	PASS

Project Information			
Mode:	12mm 50%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



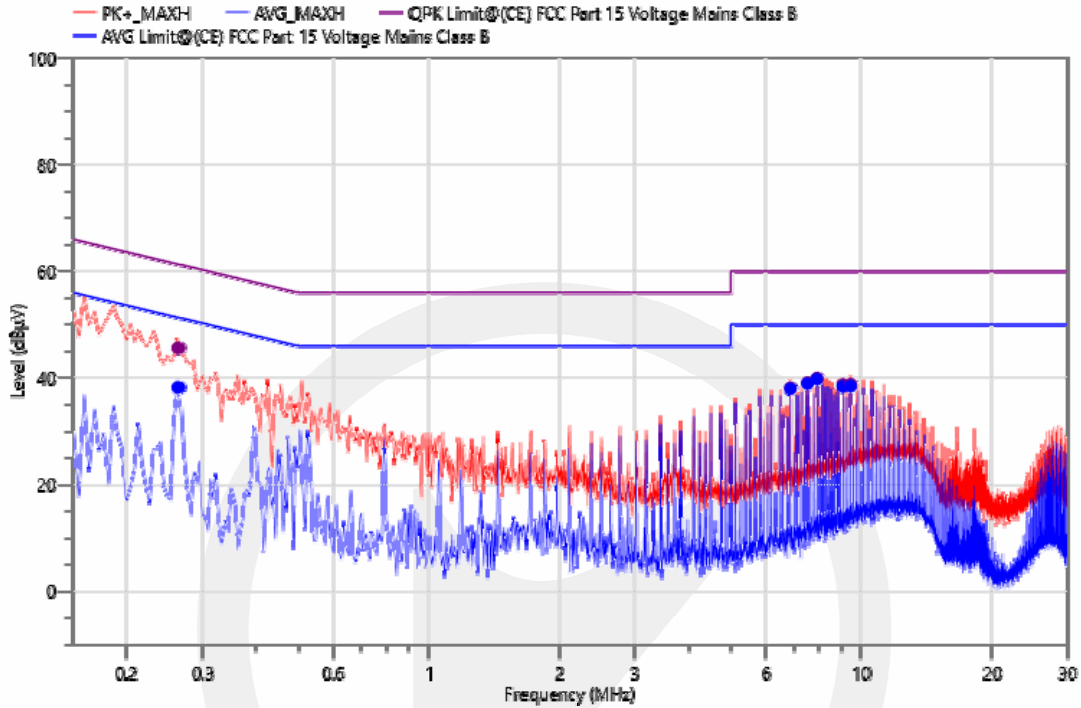
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
7.68	29.83	39.64	60.00	20.36	QPK	N	9.81	PASS
7.68	29.55	39.36	50.00	10.64	AVG	N	9.81	PASS
7.95	29.07	38.88	60.00	21.12	QPK	N	9.81	PASS
7.95	28.80	38.61	50.00	11.39	AVG	N	9.81	PASS
8.21	28.75	38.57	60.00	21.43	QPK	N	9.82	PASS
8.21	28.42	38.24	50.00	11.76	AVG	N	9.82	PASS
9.01	30.22	40.05	60.00	19.95	QPK	N	9.83	PASS
9.01	29.90	39.73	50.00	10.27	AVG	N	9.83	PASS
9.27	29.80	39.63	60.00	20.37	QPK	N	9.83	PASS
9.27	29.44	39.27	50.00	10.73	AVG	N	9.83	PASS
9.53	28.81	38.64	60.00	21.36	QPK	N	9.83	PASS
9.53	28.31	38.14	50.00	11.86	AVG	N	9.83	PASS

Project Information			
Mode:	12mm 50%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



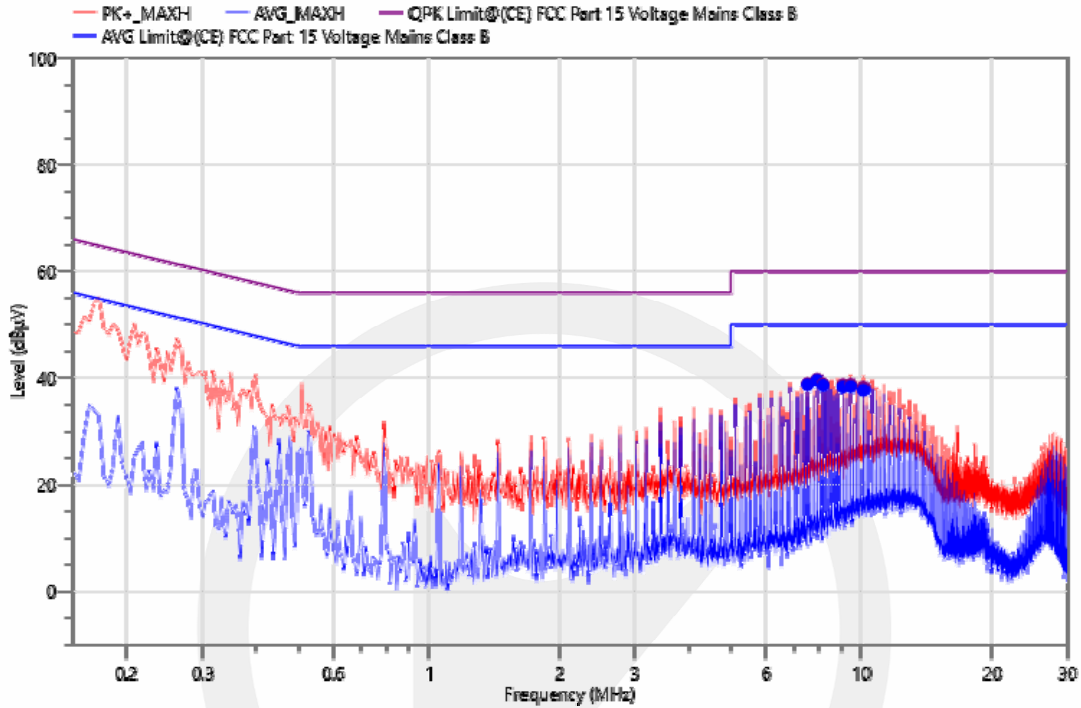
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.15	42.63	52.46	65.78	13.32	QPK	L1	9.83	PASS
0.15	29.70	39.53	55.78	16.25	AVG	L1	9.83	PASS
0.40	26.20	35.99	57.94	21.95	QPK	L1	9.79	PASS
0.40	23.97	33.76	47.94	14.18	AVG	L1	9.79	PASS
6.19	25.79	36.02	60.00	23.98	QPK	L1	10.23	PASS
6.19	25.10	35.33	50.00	14.67	AVG	L1	10.23	PASS
6.52	27.04	37.28	60.00	22.72	QPK	L1	10.24	PASS
6.52	26.66	36.90	50.00	13.1	AVG	L1	10.24	PASS
7.82	27.99	38.24	60.00	21.76	QPK	L1	10.25	PASS
7.82	27.17	37.42	50.00	12.58	AVG	L1	10.25	PASS
9.18	27.82	38.08	60.00	21.92	QPK	L1	10.26	PASS
9.18	27.59	37.85	50.00	12.15	AVG	L1	10.26	PASS

Project Information			
Mode:	12mm 100%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



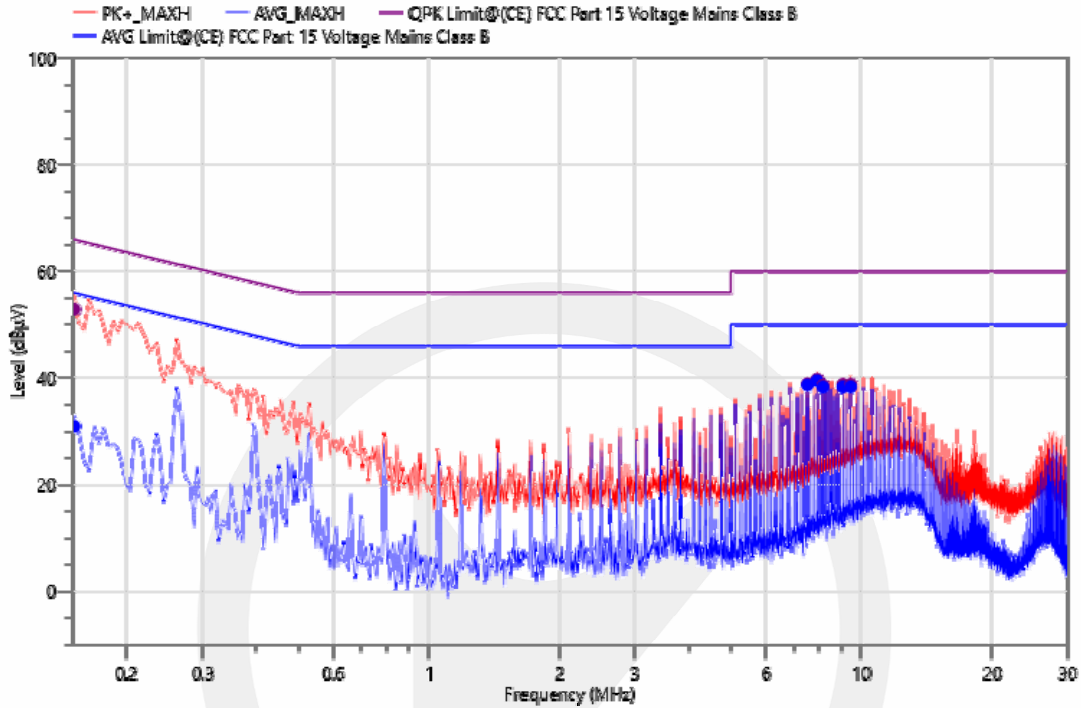
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.26	35.74	45.59	61.30	15.71	QPK	L1	9.85	PASS
0.26	28.33	38.18	51.30	13.12	AVG	L1	9.85	PASS
6.84	27.86	38.11	60.00	21.89	QPK	L1	10.25	PASS
6.84	27.67	37.92	50.00	12.08	AVG	L1	10.25	PASS
7.50	28.84	39.09	60.00	20.91	QPK	L1	10.25	PASS
7.50	28.64	38.89	50.00	11.11	AVG	L1	10.25	PASS
7.90	29.66	39.91	60.00	20.09	QPK	L1	10.25	PASS
7.90	29.48	39.73	50.00	10.27	AVG	L1	10.25	PASS
9.08	28.48	38.74	60.00	21.26	QPK	L1	10.26	PASS
9.08	28.09	38.35	50.00	11.65	AVG	L1	10.26	PASS
9.47	28.53	38.79	60.00	21.21	QPK	L1	10.26	PASS
9.47	28.15	38.41	50.00	11.59	AVG	L1	10.26	PASS

Project Information			
Mode:	12mm 100%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



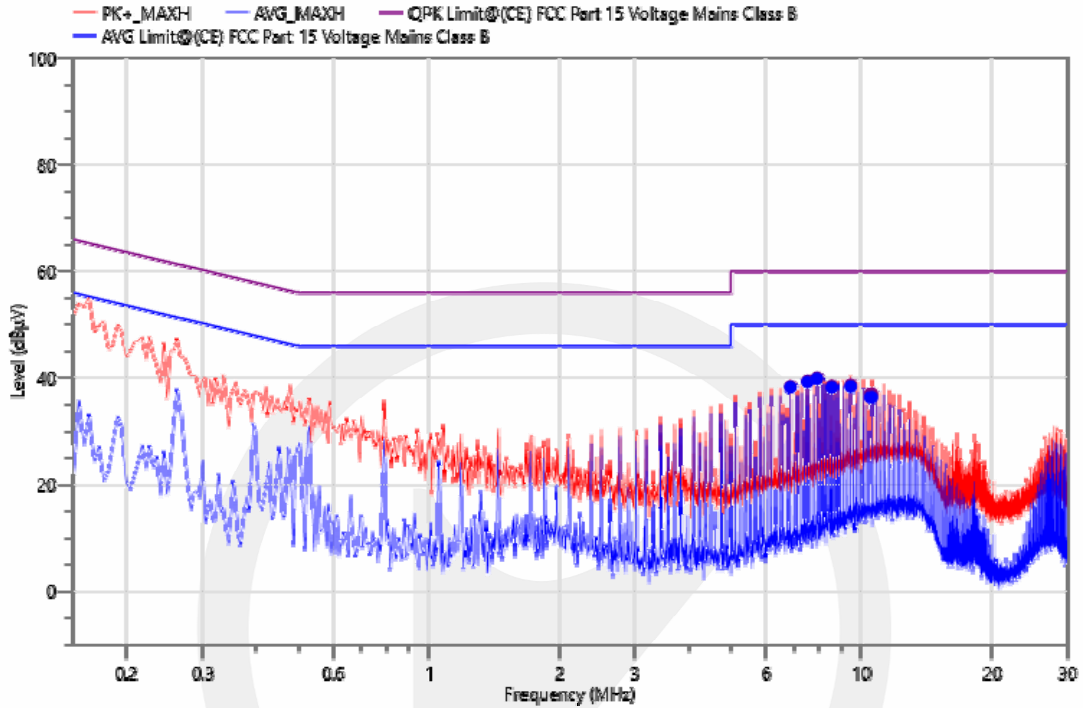
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
7.50	29.09	38.90	60.00	21.1	QPK	N	9.81	PASS
7.50	28.85	38.66	50.00	11.34	AVG	N	9.81	PASS
7.90	29.92	39.73	60.00	20.27	QPK	N	9.81	PASS
7.90	29.69	39.50	50.00	10.5	AVG	N	9.81	PASS
8.16	29.02	38.84	60.00	21.16	QPK	N	9.82	PASS
8.16	28.72	38.54	50.00	11.46	AVG	N	9.82	PASS
9.08	28.88	38.71	60.00	21.29	QPK	N	9.83	PASS
9.08	28.43	38.26	50.00	11.74	AVG	N	9.83	PASS
9.47	28.94	38.77	60.00	21.23	QPK	N	9.83	PASS
9.47	28.48	38.31	50.00	11.69	AVG	N	9.83	PASS
10.13	28.39	38.24	60.00	21.76	QPK	N	9.85	PASS
10.13	27.75	37.60	50.00	12.4	AVG	N	9.85	PASS

Project Information			
Mode:	18mm 100%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



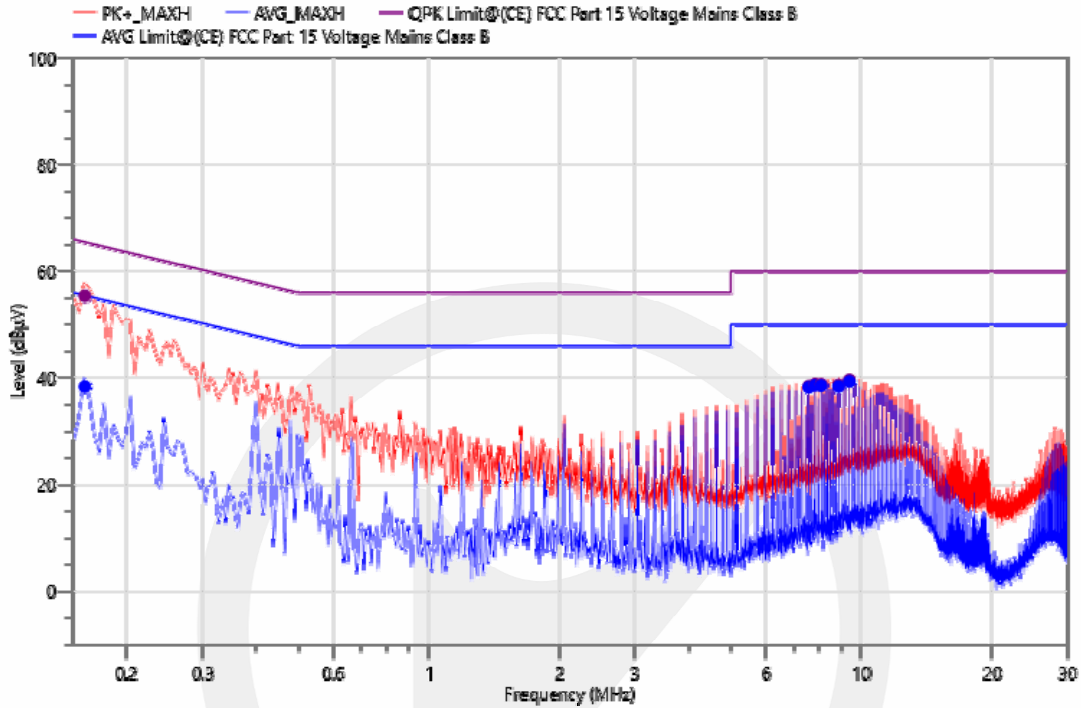
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.15	43.13	52.84	65.94	13.1	QPK	N	9.71	PASS
0.15	21.14	30.85	55.94	25.09	AVG	N	9.71	PASS
7.50	29.05	38.86	60.00	21.14	QPK	N	9.81	PASS
7.50	28.83	38.64	50.00	11.36	AVG	N	9.81	PASS
7.90	29.91	39.72	60.00	20.28	QPK	N	9.81	PASS
7.90	29.64	39.45	50.00	10.55	AVG	N	9.81	PASS
8.16	28.75	38.57	60.00	21.43	QPK	N	9.82	PASS
8.16	28.42	38.24	50.00	11.76	AVG	N	9.82	PASS
9.08	28.93	38.76	60.00	21.24	QPK	N	9.83	PASS
9.08	28.43	38.26	50.00	11.74	AVG	N	9.83	PASS
9.47	28.94	38.77	60.00	21.23	QPK	N	9.83	PASS
9.47	28.45	38.28	50.00	11.72	AVG	N	9.83	PASS

Project Information			
Mode:	18mm 100%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



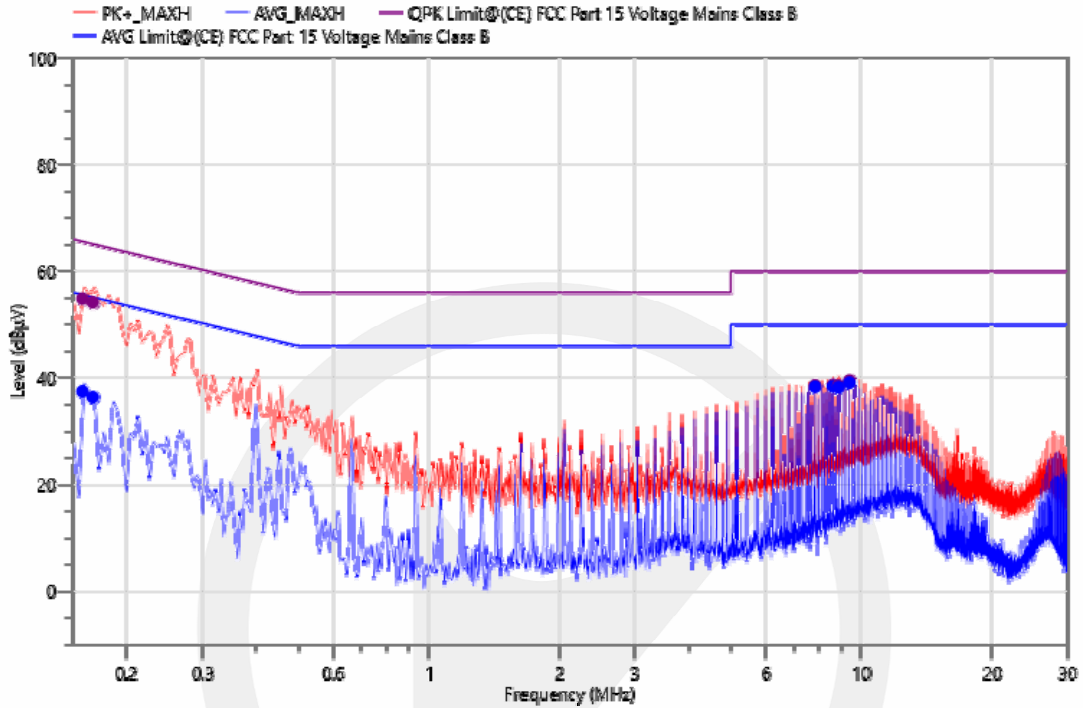
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
6.84	28.13	38.38	60.00	21.62	QPK	L1	10.25	PASS
6.84	27.96	38.21	50.00	11.79	AVG	L1	10.25	PASS
7.50	29.15	39.40	60.00	20.6	QPK	L1	10.25	PASS
7.50	28.95	39.20	50.00	10.8	AVG	L1	10.25	PASS
7.90	29.73	39.98	60.00	20.02	QPK	L1	10.25	PASS
7.90	29.54	39.79	50.00	10.21	AVG	L1	10.25	PASS
8.55	28.21	38.47	60.00	21.53	QPK	L1	10.26	PASS
8.55	27.91	38.17	50.00	11.83	AVG	L1	10.26	PASS
9.47	28.44	38.70	60.00	21.3	QPK	L1	10.26	PASS
9.47	28.06	38.32	50.00	11.68	AVG	L1	10.26	PASS
10.53	26.73	37.00	60.00	23	QPK	L1	10.27	PASS
10.53	26.04	36.31	50.00	13.69	AVG	L1	10.27	PASS

Project Information			
Mode:	18mm 50%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



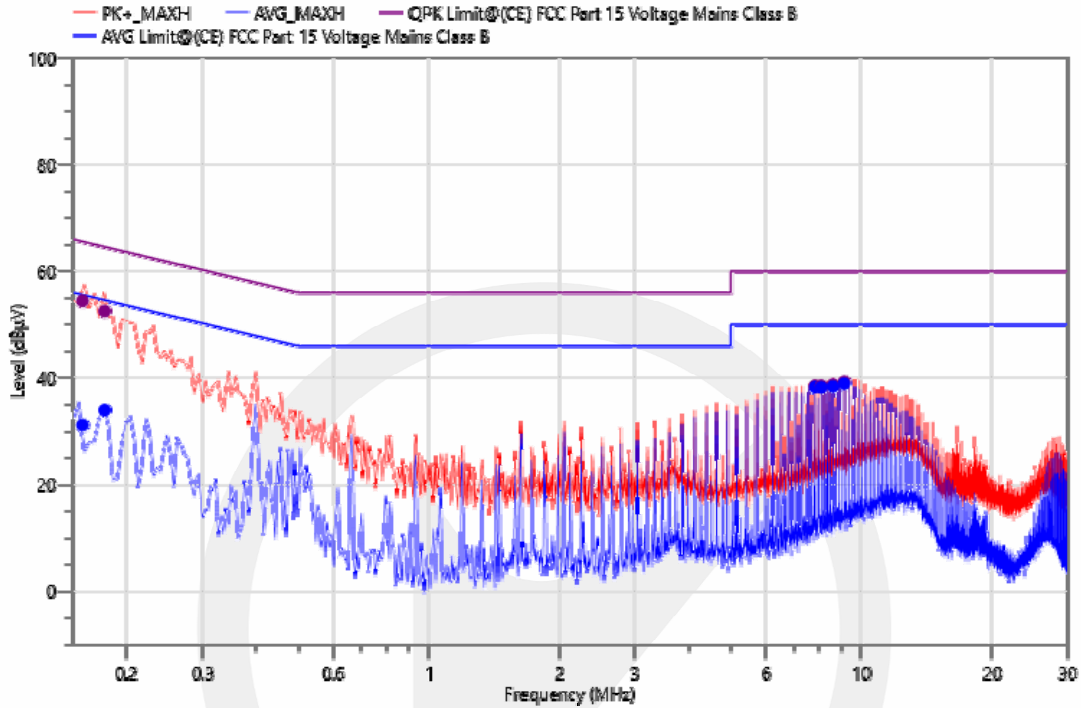
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.16	45.55	55.37	65.46	10.09	QPK	L1	9.82	PASS
0.16	28.50	38.32	55.46	17.14	AVG	L1	9.82	PASS
7.55	28.16	38.41	60.00	21.59	QPK	L1	10.25	PASS
7.55	27.95	38.20	50.00	11.8	AVG	L1	10.25	PASS
7.82	28.56	38.81	60.00	21.19	QPK	L1	10.25	PASS
7.82	28.33	38.58	50.00	11.42	AVG	L1	10.25	PASS
8.08	28.52	38.77	60.00	21.23	QPK	L1	10.25	PASS
8.08	28.25	38.50	50.00	11.5	AVG	L1	10.25	PASS
8.87	28.40	38.66	60.00	21.34	QPK	L1	10.26	PASS
8.87	28.09	38.35	50.00	11.65	AVG	L1	10.26	PASS
9.40	29.33	39.59	60.00	20.41	QPK	L1	10.26	PASS
9.40	29.01	39.27	50.00	10.73	AVG	L1	10.26	PASS

Project Information			
Mode:	18mm 50%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



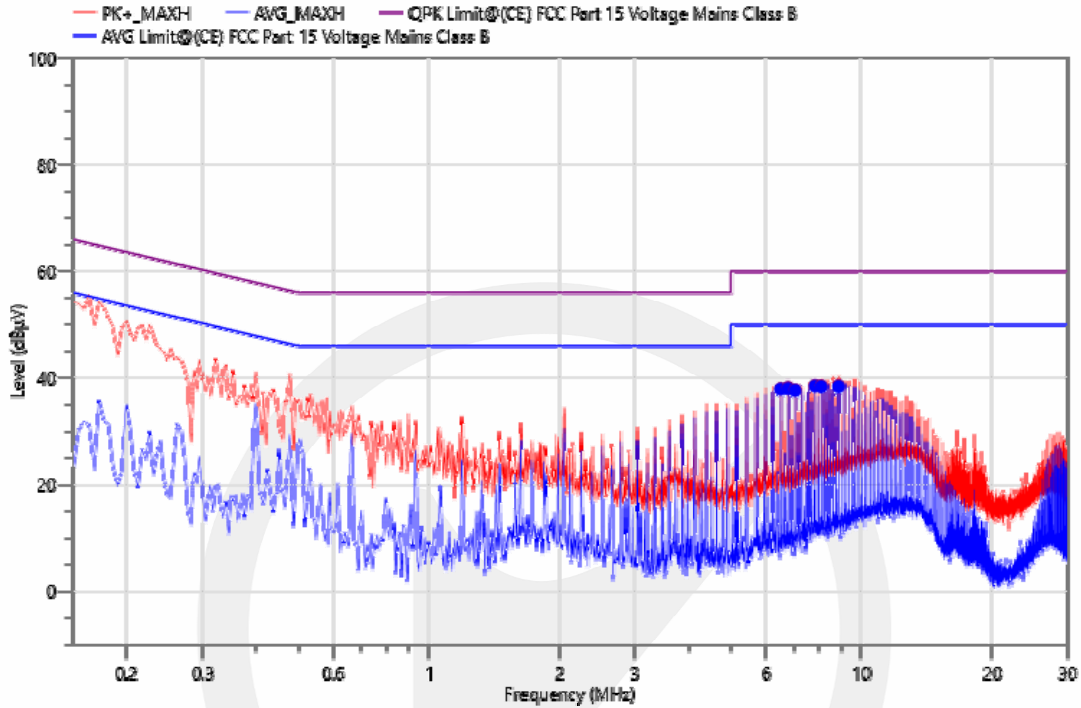
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.16	45.07	54.84	65.57	10.73	QPK	N	9.77	PASS
0.16	27.67	37.44	55.57	18.13	AVG	N	9.77	PASS
0.17	44.33	54.17	65.11	10.94	QPK	N	9.84	PASS
0.17	26.51	36.35	55.11	18.76	AVG	N	9.84	PASS
7.82	28.76	38.57	60.00	21.43	QPK	N	9.81	PASS
7.82	28.48	38.29	50.00	11.71	AVG	N	9.81	PASS
8.61	28.87	38.69	60.00	21.31	QPK	N	9.82	PASS
8.61	28.55	38.37	50.00	11.63	AVG	N	9.82	PASS
8.87	28.73	38.55	60.00	21.45	QPK	N	9.82	PASS
8.87	28.38	38.20	50.00	11.8	AVG	N	9.82	PASS
9.40	29.66	39.49	60.00	20.51	QPK	N	9.83	PASS
9.40	29.22	39.05	50.00	10.95	AVG	N	9.83	PASS

Project Information			
Mode:	18mm 10%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
0.16	44.65	54.42	65.57	11.15	QPK	N	9.77	PASS
0.16	21.34	31.11	55.57	24.46	AVG	N	9.77	PASS
0.18	42.61	52.49	64.58	12.09	QPK	N	9.88	PASS
0.18	24.02	33.90	54.58	20.68	AVG	N	9.88	PASS
7.82	28.70	38.51	60.00	21.49	QPK	N	9.81	PASS
7.82	28.44	38.25	50.00	11.75	AVG	N	9.81	PASS
8.08	28.70	38.51	60.00	21.49	QPK	N	9.81	PASS
8.08	28.37	38.18	50.00	11.82	AVG	N	9.81	PASS
8.61	28.91	38.73	60.00	21.27	QPK	N	9.82	PASS
8.61	28.55	38.37	50.00	11.63	AVG	N	9.82	PASS
9.14	29.41	39.24	60.00	20.76	QPK	N	9.83	PASS
9.14	29.05	38.88	50.00	11.12	AVG	N	9.83	PASS

Project Information			
Mode:	18mm 10%Load	Voltage:	AC 120V/60Hz
Environment:	Temp: 24°C; Humi:52%	Engineer:	Allen Tang



Freq. (MHz)	Reading (dBµV)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	Corr. (dB)	Verdict
6.49	27.73	37.97	60.00	22.03	QPK	L1	10.24	PASS
6.49	27.59	37.83	50.00	12.17	AVG	L1	10.24	PASS
6.75	27.96	38.21	60.00	21.79	QPK	L1	10.25	PASS
6.75	27.65	37.90	50.00	12.1	AVG	L1	10.25	PASS
7.02	27.52	37.77	60.00	22.23	QPK	L1	10.25	PASS
7.02	27.33	37.58	50.00	12.42	AVG	L1	10.25	PASS
7.82	28.37	38.62	60.00	21.38	QPK	L1	10.25	PASS
7.82	28.14	38.39	50.00	11.61	AVG	L1	10.25	PASS
8.08	28.30	38.55	60.00	21.45	QPK	L1	10.25	PASS
8.08	28.03	38.28	50.00	11.72	AVG	L1	10.25	PASS
8.87	28.31	38.57	60.00	21.43	QPK	L1	10.26	PASS
8.87	28.03	38.29	50.00	11.71	AVG	L1	10.26	PASS