Evaluation Board Report

PD -65 W_Test Report

(LD5555E+LD8526U+LD6612CGJ)

Tested by	Reviewed by	Approved by
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Total Pages	Revision	Date
92	01	2021 / 10/4

Key Feature

- **The Evaluation Board is designed to demonstrate the capabilities of LD5555E & LD8526U & LD6612**
- **LD5555: Smart stabilization system and high efficiency for USB-PD App**
- **LD8526U: Suited for low side and high side flyback synchronous rectification in CCM, DCM and QR(valley lock) mode**
- **LD6612: USB-IF PD certified (USB PD 2.0) and support PD3.0, + (under certification). Option for QC2.0, QC3.0, QC4.0, PPS**
- **Support PD 3.0**
- **Vout : 5A/3A , 9V/3A , 15V/3A ,20V/ 3.25A**
- **Efficiency Meet CoC Tier 2**
- **EMI meet EN55032 Class B**

- **LD5555E:Multi-Mode PWM Controller of Flyback with Frequency Swapping and Integrated Protection**
- VCC Ratting around 85V
- Smart stabilization system and high efficiency for
- USB-PD App
- VCC OVP (Over Voltage Protection)
- Adj. OVP (Over Voltage Protection) on FB pin.
- OPP (Over Power Protection)
- External OTP、FB OVP
- Internal OTP (Over Temperature Protection)
- SDSP (Secondary Diode Short Protection)
- Accurate LPS Protections ± 8%
- Gate Source/Sink Capability: 250mA/-500mA @ output pin with 33nF capacitor

LD8526U: Supports CCM and DCM Operation

- Suited for forward freewheeling rectification in CCM and DCM
- Self-supplying for operation with low output voltage and/or high–side rectification without an auxiliary winding.
- Suited for PD application, which output voltage range from 3V to 21V, and VCC range from 3V to 6V.
- Programmable turn-off level
- Fast turn-off total delay of 30ns
- 200μA ultra-low green mode operation current
- Gate source/sink capability: 0.5A/-3A

LD6612: Supported-PD3.0, PD2.0, PPS, QC4.0+, QC4.0, QC3.0, QC2.0,-USB PD Type C

Protection

- Programmable Over Voltage Protection (OVP)
- Programmable Under Voltage Protection (UVP)
- Programmable Over Current Protection (OCP)
- Programmable Over Temperature Protection (OTP)

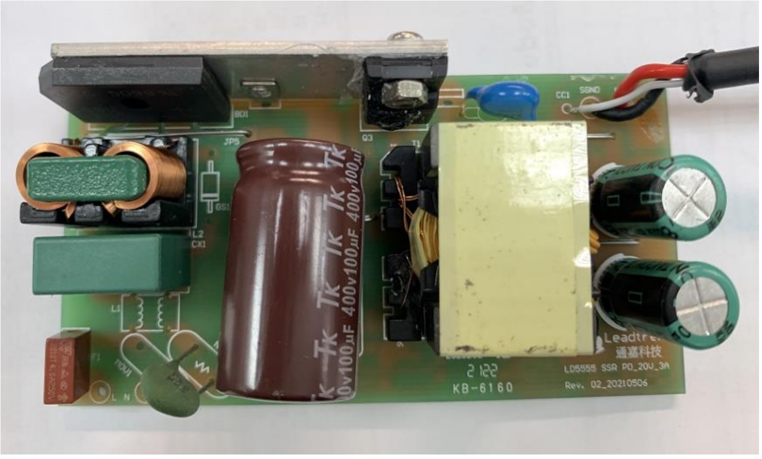
Contents Index

1. Specification

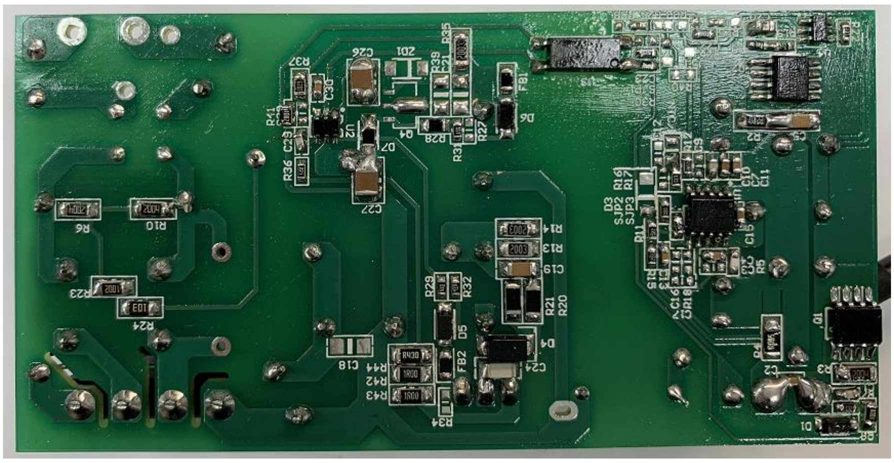
Item		Min.	Typ.		Max.	Test Result
Input Voltage		90Vac	115Vac	230Vac	264Vac	—
Input Frequency		47Hz	60Hz	50Hz	63Hz	—
Output Voltage & Current	PD 3.0 Mode	5V / 3A，9V / 3A，15V / 3A，20V / 3.25A				—
Efficiency		CoC Tier 2				Pass
Standby Power		< 75mW @ 230 V_{AC}				Pass
Output Voltage Accuracy		END of PCB 5V < ± 5% / 9V , 15V , 20V < ± 5 %				Pass
Over Current Protection		< 130 %				Pass
Over Voltage Protection		< 7.5V (for 5 V) / < 13.5V (for 9 V) / < 18.75V (for 15 V) / < 25V (for 20 V)				Pass
Ripple & Noise Voltage		< 200 mV				Pass
Dynamic Load		< ± 10% of $V_{BUS,SET}$				Pass
Turn-on Delay Time		< 3 S				Pass
Hold-up Time		> 10mS @ Typical AC Input For 115V				Pass
Rise Time		< 20 mS				Pass
Overshoot		< 10 %				Pass
Component Stress		< 95 %				Pass
AC Brown-in		< 85 Vac				Pass
AC Brown-out		>65 Vac				Pass
EMI		EN55032 Class B				Pass

2. OUTLINE

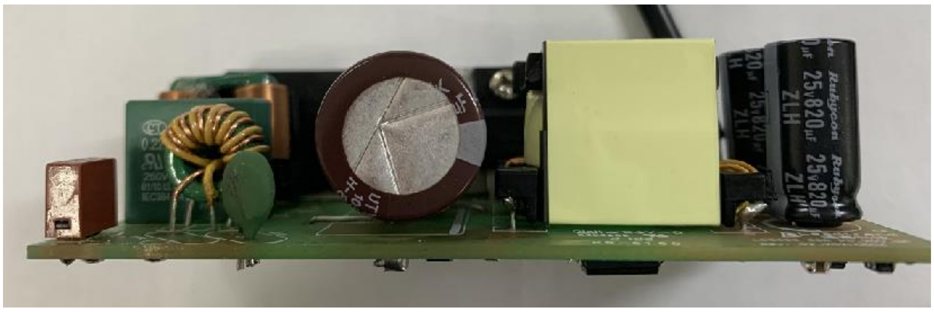
Top View



Bottom View

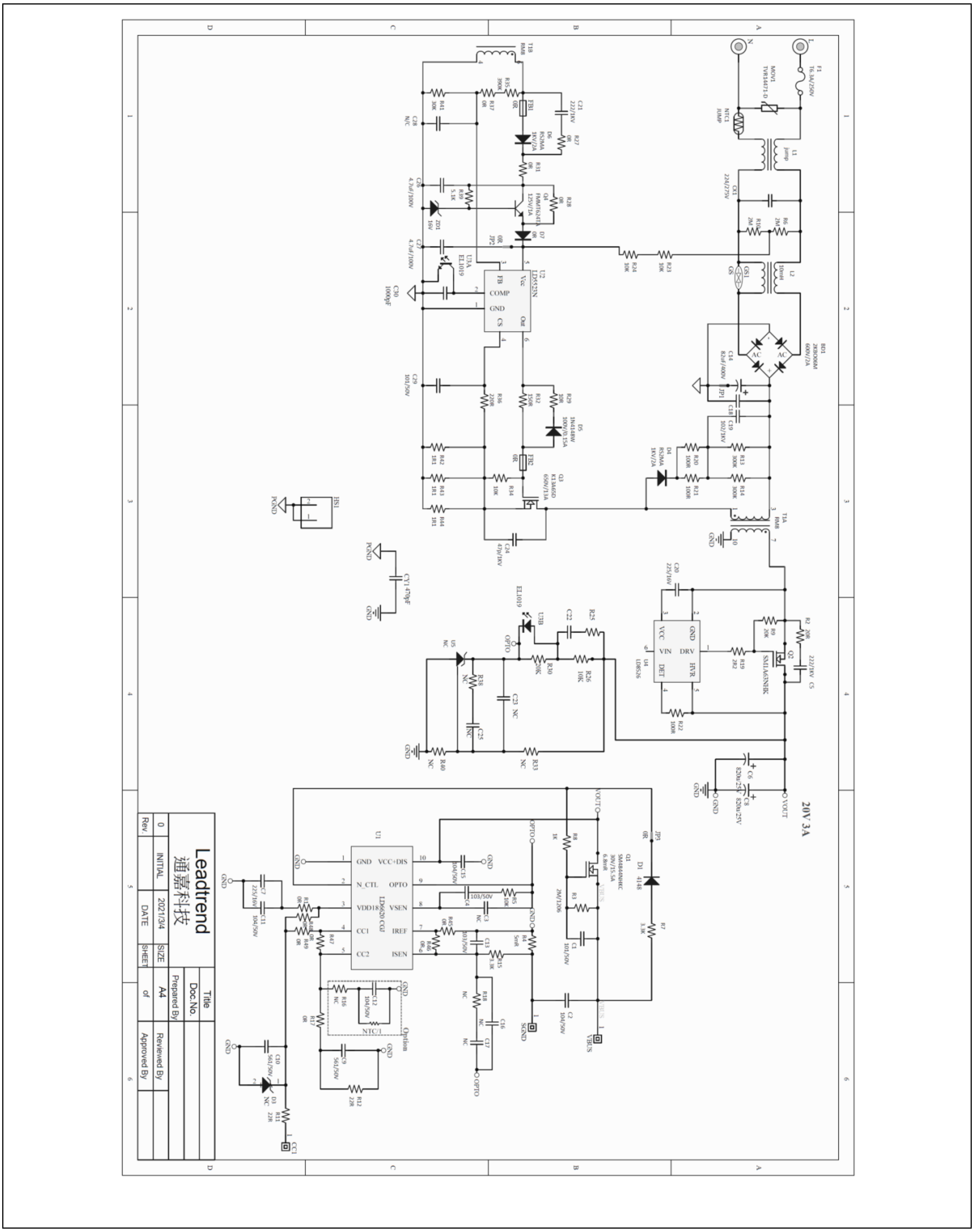


Side View



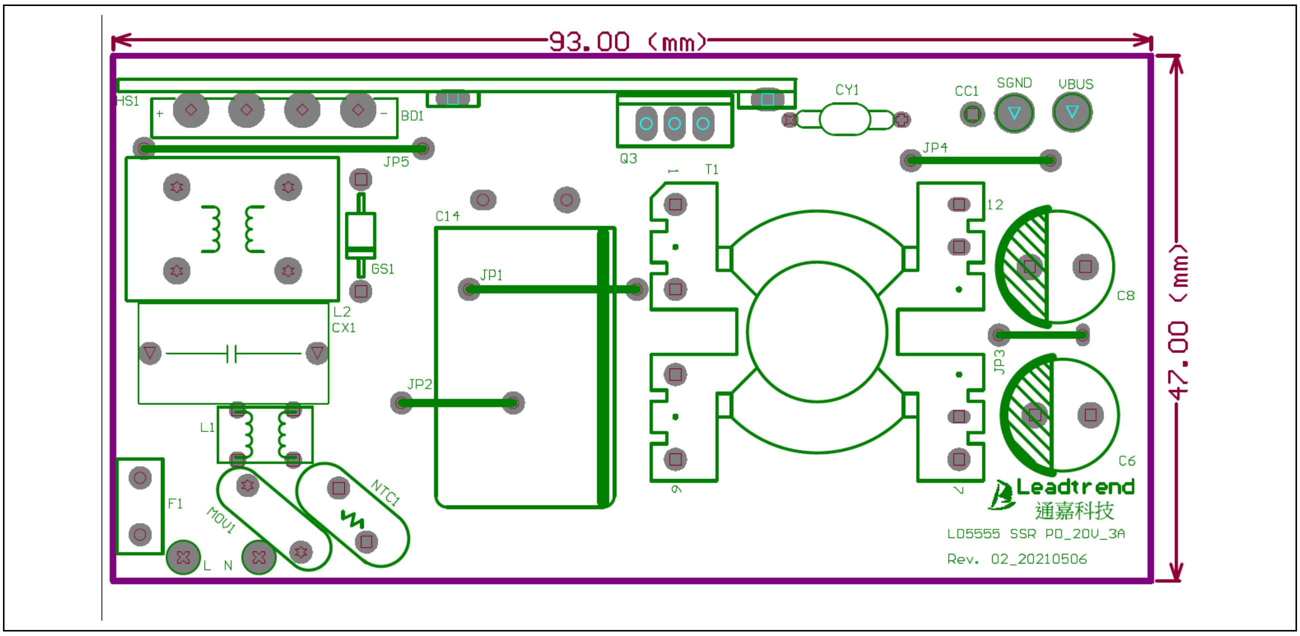
Size: 93 mm (L) x 47 mm (W) x 22mm (H)

3. SCHEMATIC

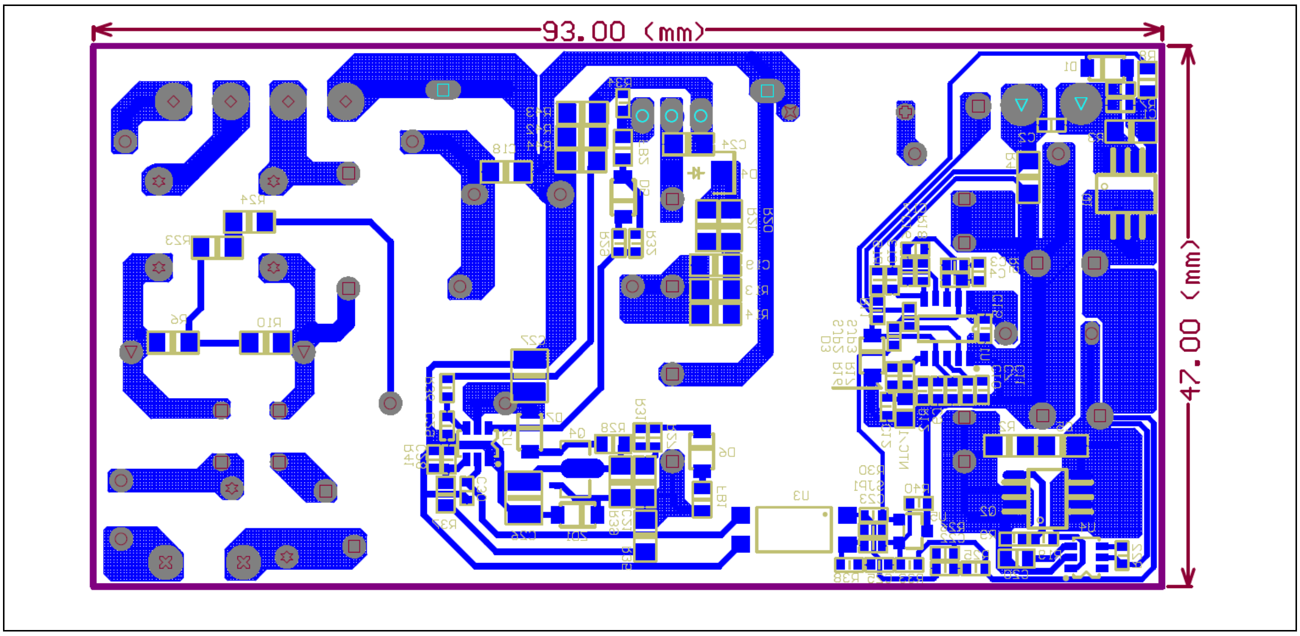


4. PCB LAYOUT

Mother Board Top side



Bottom side

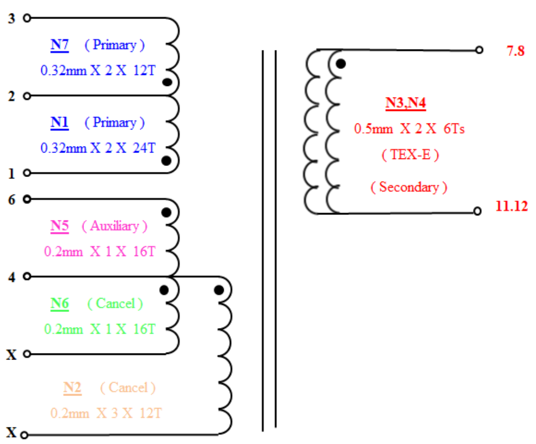
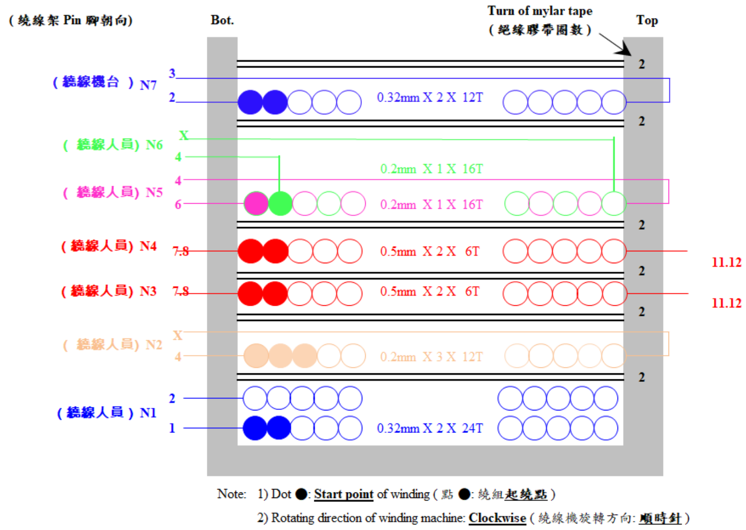


5. Bill (Mother board)

Location	Description	Q'ty
NTC1	JUMP	1
R6,R10	2 MΩ / J / 1206	2
R13,R14	200 KΩ / J / 1206	2
R20,R21	100 Ω / J / 1206	2
R23,R24	10 KΩ / J / 1206	2
FB1,R28,D7,FB2	0 Ω / J / 0805	4
R22	180 Ω / J / 0603	1
R34	10 kΩ / F / 0603	1
R29,R32	22 Ω / J / 0603	2
R2	22 Ω / J / 1206	1
R19	2.2 Ω / J / 0603	1
R35	200K / J / 1206	1
R37	62K / J / 0603	1
R26,R41	10K / J / 0603	2
R36	220 Ω / J / 0603	1
R31,SJP1	0 Ω / J / 0603	2
R30	22 kΩ / J / 0603	1
R44	0.43 Ω / J / 1206	1
R42,R43	1.0 Ω / J / 1206	2
CX1	0.33 µF (334) / 275V / HQX / X2	1
CY1	1000 pF (102) / 250V / KX / Y1	1
C14	100 µF / 400 V / 20 x 30 mm	1
C5,C19	1 nF (102) / 1 kV / X7R / 1206	2
C29	100 pF (101) / 50V / NPO / 0603	1
C30	1000 pF (102) / 50V / X7R / 0603	1
C6,C8	820 µF / 25 V / 10 x 20 mm	2
C26,C27	4.7 µF (475) / 50 V / X7R / 1210	2
BD1	GBU406 / 600 V / 4 A / DIP -4	1
PCB	92.5*46.5*2mm	1
HS1	50*20*2mm	1
D4	RS2MA / 1 kV / 2 A / SMA	1

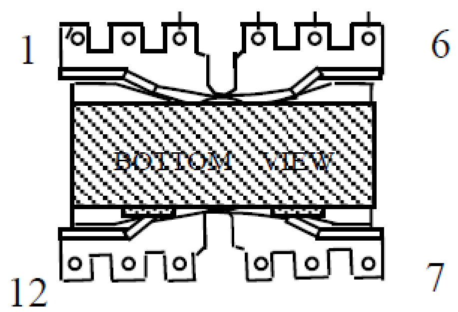
D6	**S1M / 1 kV / 1 A**	**1**
D1,D5	**1N4148**	**2**
Q2	**'HGS080N10AL / SOP-8**	**1**
U4	**LD8526U SOD -23**	**1**
Q3	**'WML13N65EM / TO-220F**	**1**
U2	**LD5555E / SOD-23**	**1**
U3	**EL1019 / 200 ~ 400 % / SOP-4**	**1**
L1	**T12*7*6C (20uH)**	**1**
L2	**ESQ1515 / 10mH**	**1**
T1	**PQ2620 / KP44A / 36 : 6 : 18 / 600 mH**	**1**
F1	**2.5 A / 250V / T / 2010**	**1**
R9	**20 kΩ / J / 0603**	**1**
C24	**22 pF (220) / 1KV / X7R / 1206**	**1**
C20	**2.2 µF (225) / 50 V / X7R / 0805**	**1**
JP1,JP2,JP3,JP4,JP5	**JUMP**	**5**
MOV1	**NC**	
Q1	**'SM4844NHKC**	**1**
Type C	**Type C Connector**	**1**
C10	**560p (561) / 50V / NPO / 0603**	**1**
R5	**10 kΩ / J / 0603**	**1**
R11,R12	**22 Ω / J / 0603**	**2**
R8	**1 kΩ / J / 0603**	**1**
R17,SJP2,SJP3	**0 Ω / J / 0603**	**3**
R7,R15	**3.3 kΩ / J / 0603**	**2**
C1	**100 pF (101) / 50V / NPO / 0603**	**1**
C2,C11,C15	**0.1 uF (104) / 50V / NPO / 0603**	**3**
C7	**2.2 µF (225) / 50 V / X7R / 0603**	**1**
R4	**5m Ω / J / 1206**	**1**
R3	**200K Ω / J / 1206**	**1**
U1	**LD6612 / SOP-10**	**1**
C4,C13	**0.01 uF (103) / 50 V / X7R / 0603**	**2**

6. Magnetic Comopnent Design

Schematic of Winding	Construction of Winding
	

Winding No.	Pin No. Start	Pin No. Finish	Winding Types	Number of Turns Winding	Number of Turns Tape	Remarks	
N1	1	2	0.32 mm X 2	24	2	N_P	Pin 朝人員
N2	4	X	0.2 mm X 3	12	2	Cancel	Pin 朝繞線
N3	7.8	11.12	0.5 mm X 2	6	2	Ns	Pin 朝人員
N4	7.8	11.12	0.5 mm X 2	6	2	Ns	Pin 朝人員
N5	6	4	0.2 mm X 1	16	2	N_A	Pin 朝人員
N6	4	X	0.2 mm X 1	16		Cancel	同層並繞
N7	2	3	0.32 mm X 2	12	2	N_P	Pin 朝人員

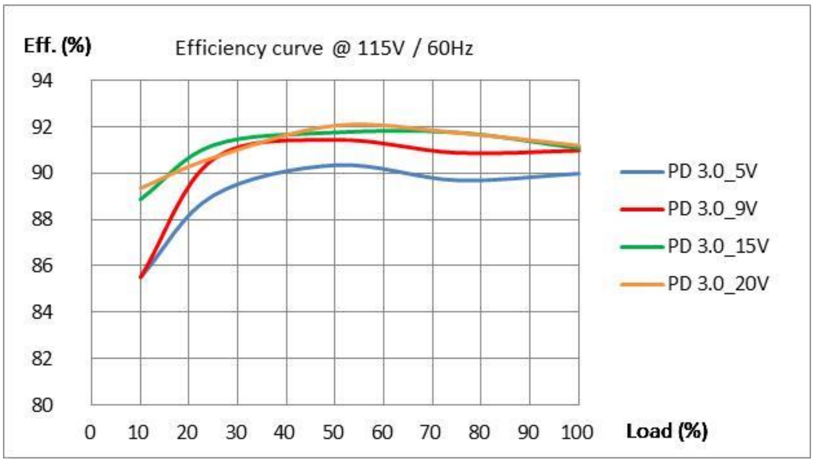
Bottom View of Bobbin



Bobbin Shape	Core Material	A_e (mm^2)	L_P (μH)
PQ-2620	KP44A	1.19	600 ± 5 % @ 65 kHz / 1 V

7. Efficiency

Input Voltage	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz
Output Current	100 %, 75 %, 50 %, 25 %, 10 % of Full Load	
Measured Point of Output Voltage	End of PCB	
Duration of Burn-in	30 Minutes	
Requirement	CoC Tier 2	



115V/60Hz

$V_{IN,AC}$ (V / Hz)	Mode	$V_{BUS,SET}$ (V)	$V_{BUS,PCB}$ (V)	I_{OUT} (A)	$P_{BUS,PCB}$ (W)	P_{IN} (W)	η (%)	$\eta_{AV,4\text{-}Points}$ (%)	Requirement (%)
115V 60Hz	PD3.0	5	5.27	3.0	15.81	17.57	89.98	89.76	> 81.84
			5.18	2.25	11.62	12.96	89.69		
			5.09	1.5	7.62	8.44	90.34		
			5.01	0.75	3.76	4.22	89.04		
			4.99	0.3	1.5	1.75	85.51	—	> 72.48
		9	9.27	3.0	27.81	30.57	90.97	90.97	> 87.30
			9.18	2.25	20.63	22.70	90.87		
			9.09	1.5	13.62	14.90	91.43		
			9.00	0.75	6.75	7.43	90.61		
			8.98	0.3	2.69	3.07	85.51	—	> 77.30
		15	15.27	3.0	45.81	50.30	91.07	91.45	> 88.85
			15.19	2.25	34.18	37.25	91.75		
			15.10	1.5	22.59	24.62	91.75		
			15.01	0.75	11.23	12.31	91.21		
			14.99	0.3	4.5	5.06	88.87	—	> 78.85
		20	20.30	3.25	65.98	72.40	91.19	91.40	> 88.85
			20.21	2.437	49.26	53.70	91.74		
			20.11	1.625	32.68	35.50	92.05		
			20.02	0.812	16.27	17.64	90.67		
			19.99	0.325	6.50	7.27	89.35	—	> 78.85

230V/50Hz

$V_{IN,AC}$ (V / Hz)	Mode	$V_{BUS,SET}$ (V)	$V_{BUS,PCB}$ (V)	I_{OUT} (A)	$P_{BUS,PCB}$ (W)	P_{IN} (W)	η (%)	$\eta_{AV,4\text{-}Points}$ (%)	Requirement (%)
230V 60Hz	PD3.0	5	5.27	3	15.81	18.03	87.69	86.99	> 81.84
			5.18	2.25	11.63	13.19	88.21		
			5.09	1.5	7.64	8.73	87.46		
			5.00	0.75	3.74	4.42	84.62		
			4.99	0.3	1.50	1.94	77.13	—	> 72.48
		9	9.27	3	27.82	30.83	90.23	89.47	> 87.30
			9.19	2.25	20.67	22.86	90.42		
			9.09	1.5	13.62	15.21	89.56		
			9.00	0.75	6.73	7.68	87.66		
			8.89	0.3	2.69	3.26	83.72	—	> 77.30
		15	15.28	3	45.70	49.70	92.23	91.65	> 88.85
			15.19	2.25	34.18	37.17	91.95		
			15.10	1.5	22.62	24.60	91.95		
			15.01	0.75	11.23	12.41	92.23		
			14.99	0.3	4.50	5.24	85.82	—	> 78.85
		20	20.30	3.25	65.98	71.20	92.66	91.95	> 88.85
			20.21	2.437	49.26	53.27	92.48		
			20.11	1.625	32.68	35.40	92.31		
			20.02	0.812	16.27	18.00	90.37		
			19.98	0.325	6.49	7.43	87.40	—	> 78.85

8. No Load Power Consumption

Input Voltage	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz
Standby Current	0 A (Disconnect USB Type-C Cable)	
Requirement	< 75 mW (CoC Tier 2)	

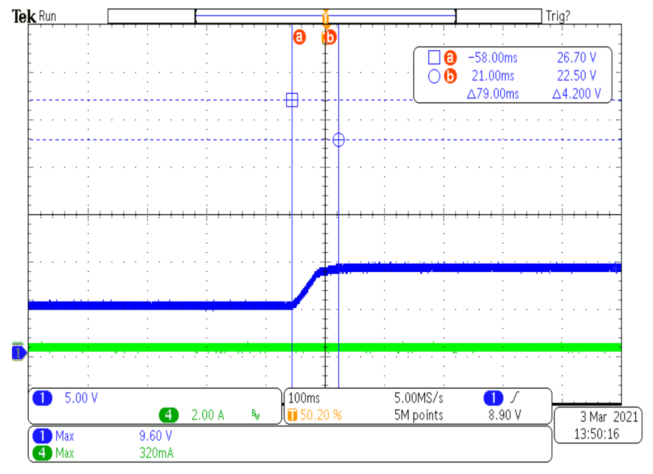
$V_{IN,AC}$ (V / Hz)	P_{IN} (mW)	Requirement (mW)
115 / 60	32	< 75 mW
230 / 50	50	

9. Output Voltage Transition

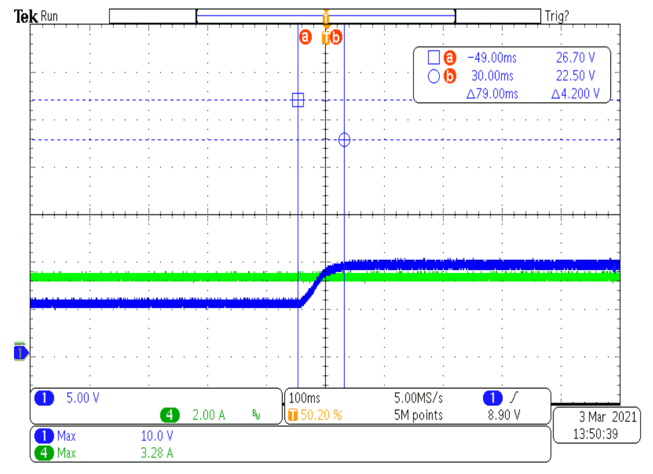
Input Voltage		115 V_{AC} / 60 Hz
Output Current		No Load & Full Load
Measured Point of Output Voltage		End of PCB
Requirement	PD 3.0 Mode	$\Delta V \geq 0.5$ V: < 275 mS

Mode	$V_{BUS,SET}$ (V)	Transition Time (mS)		Requirement (mS)
		0 A	3 A / 3.25A only 20V	
PD 3.0	5 → 9	79	79	< 275
	5 → 15	160	127	
	5 → 20	187	192	
	9 → 5	37	37	
	9 → 15	64	61	
	9 → 20	111	111	
	15 → 5	102	102	
	15 → 9	59	59	
	15 → 20	49	47	
	20 → 5	150	150	
	20 → 9	109	107	
	20 → 15	52.0	50.0	

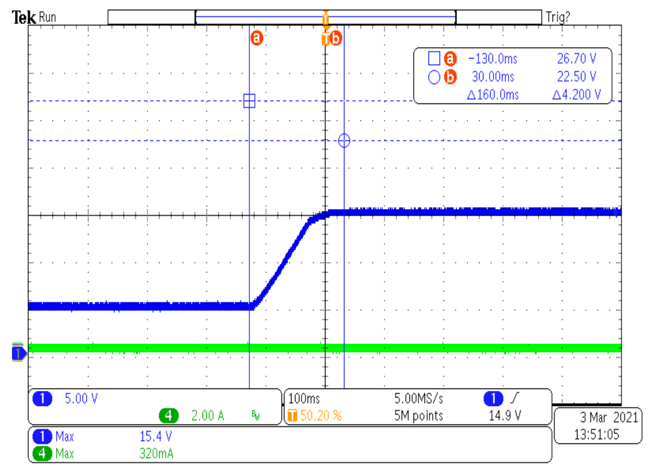
5 V → 9 V / 0 A



5 V → 9 V / 3 A



5 V → 15 V / 0 A



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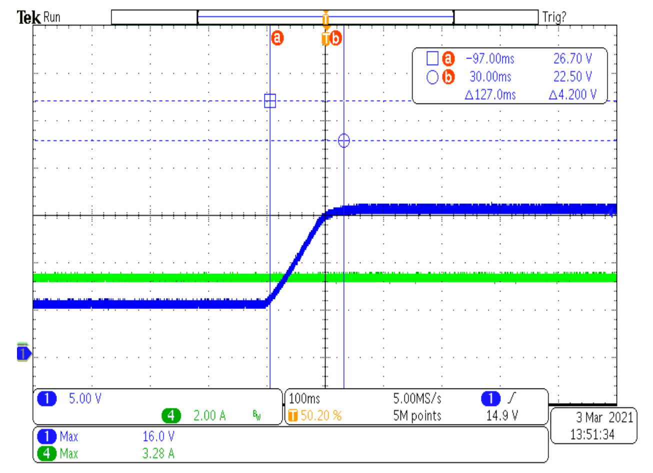
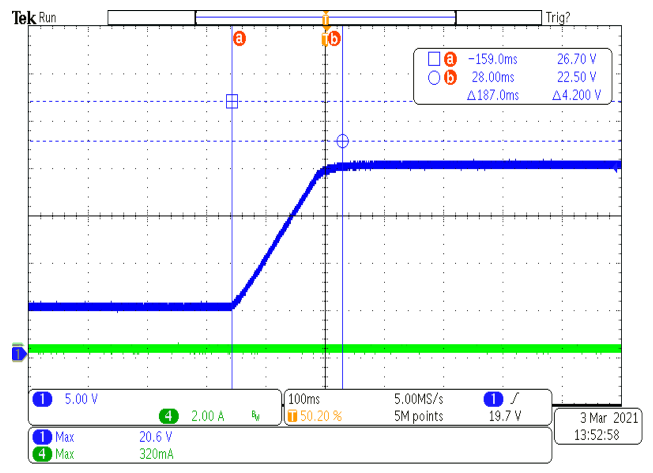


5 V → 20 V / 0 A



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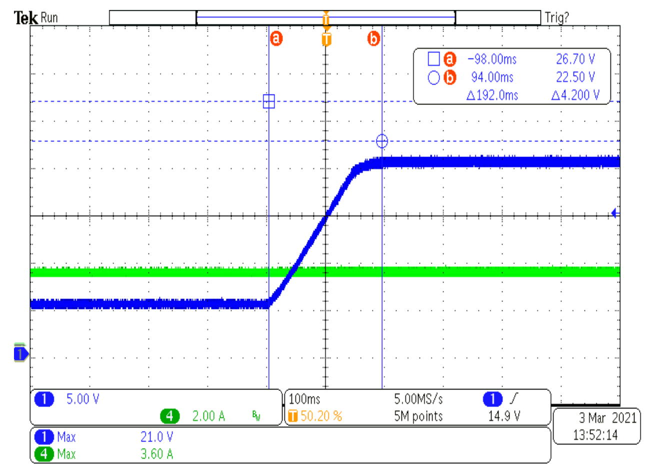
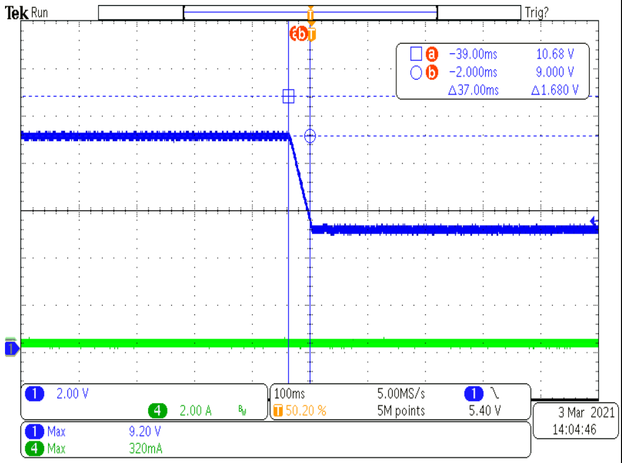
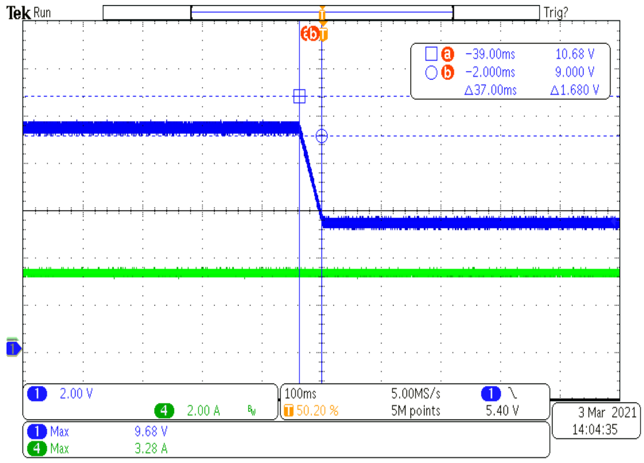
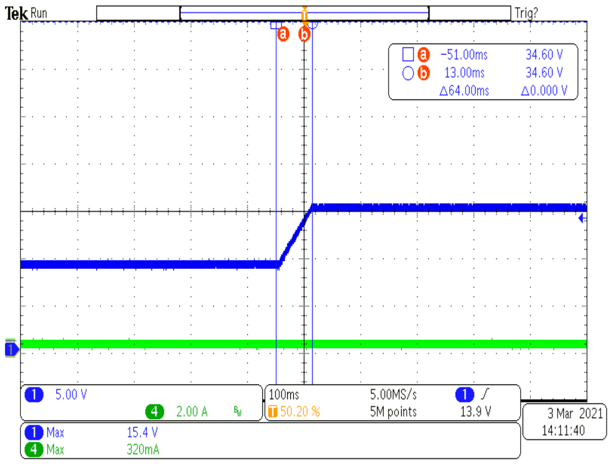
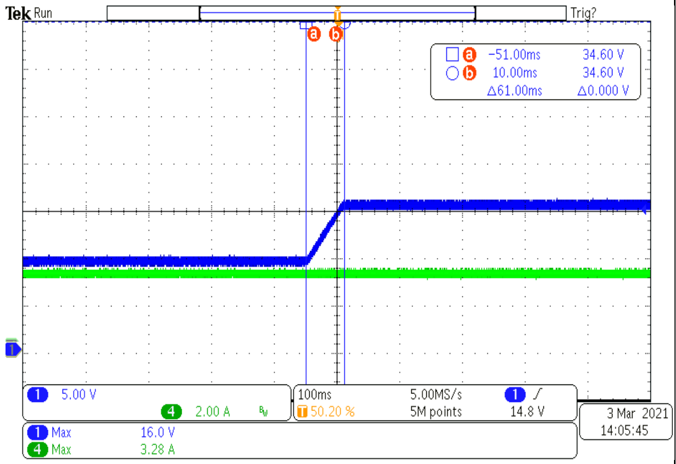


9 V → 5 V / 0 A	9 V → 5 V / 3 A
	
9 V → 15 V / 0 A	**9 V → 15 V / 3 A**
	
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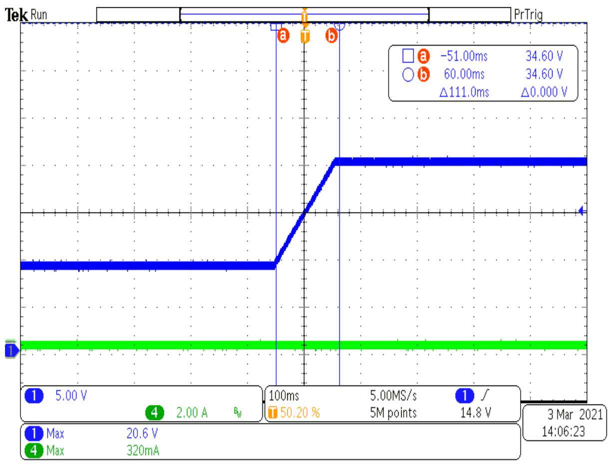
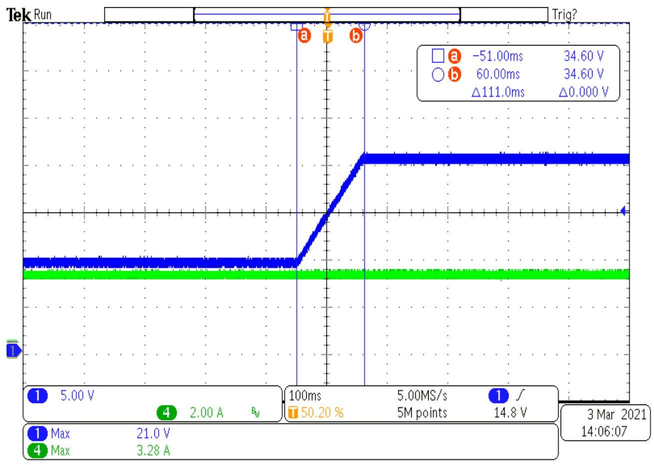
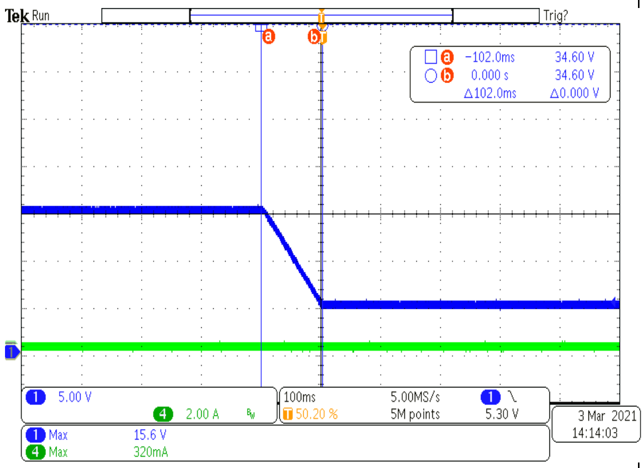
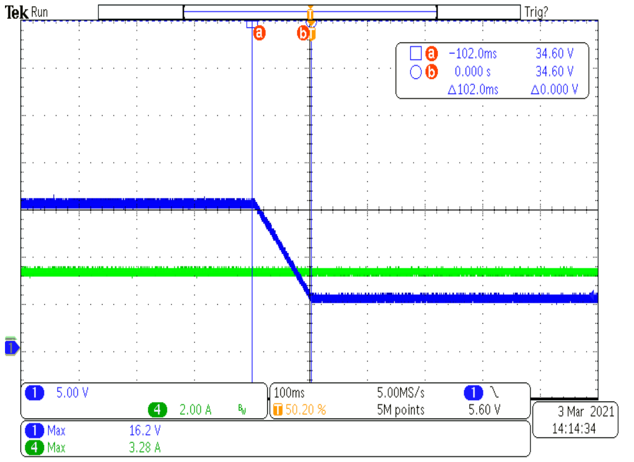
	

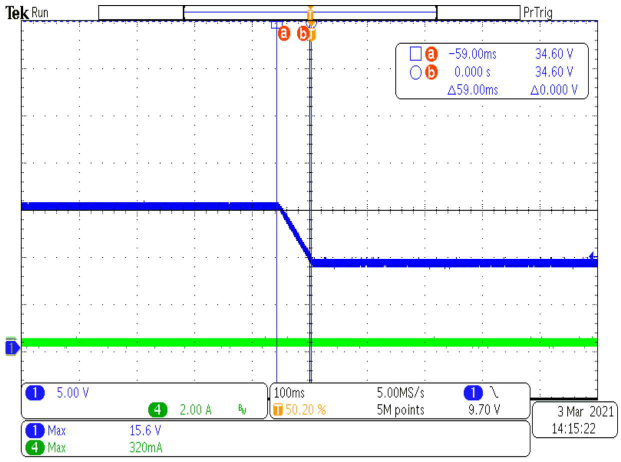
15 V → 5 V / 0 A



15 V → 5 V / 3 A



15 V → 9 V / 0 A



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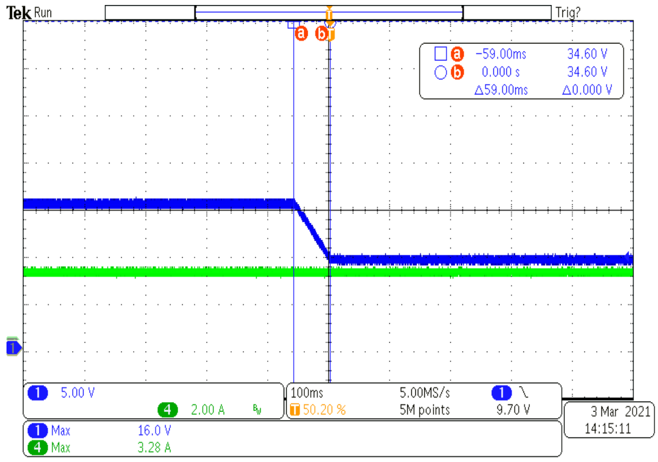
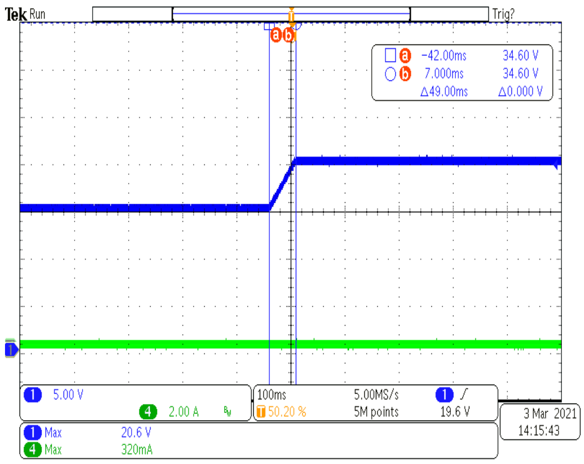


15 V → 20 V / 0 A



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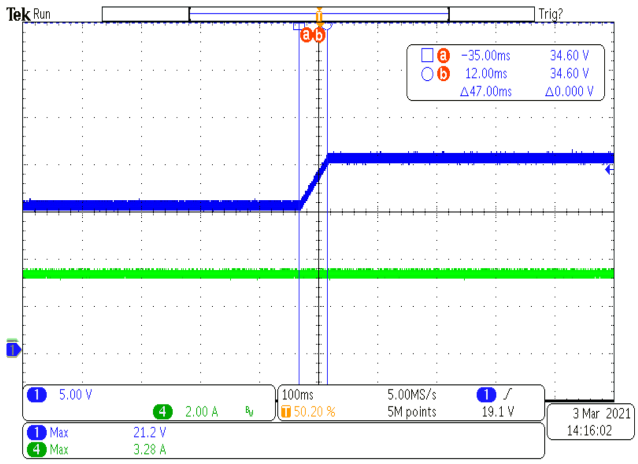

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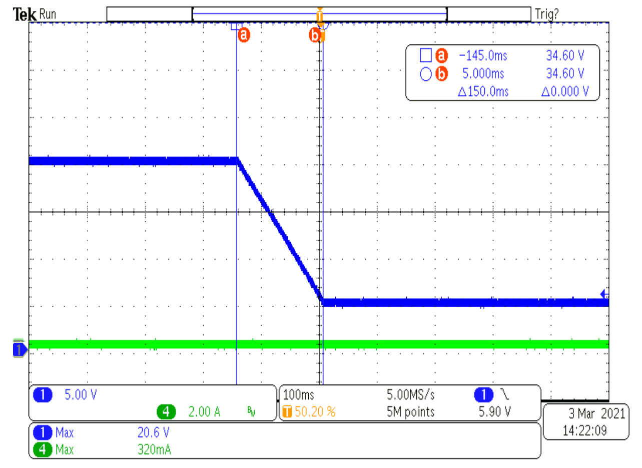

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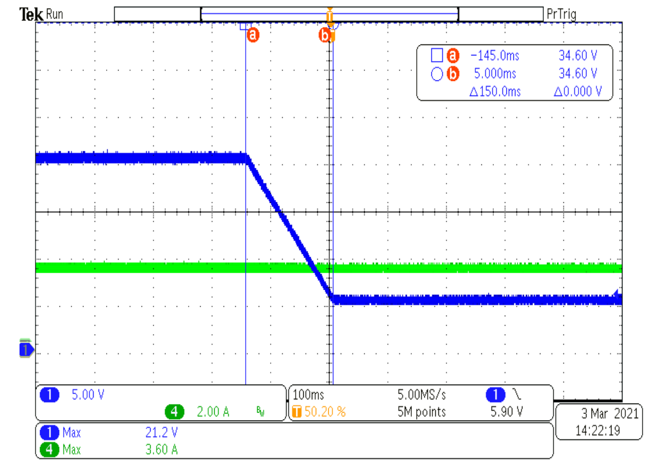

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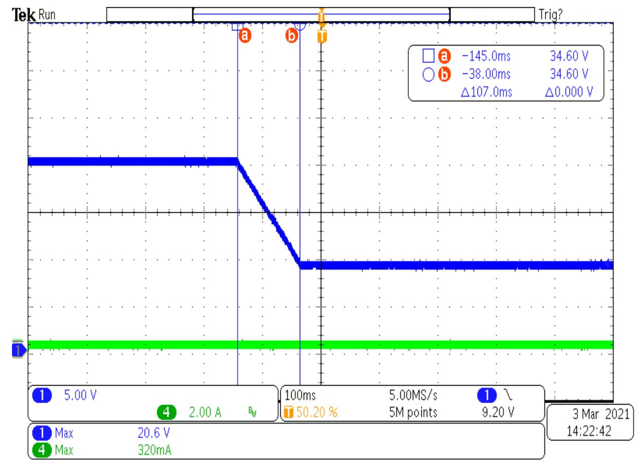

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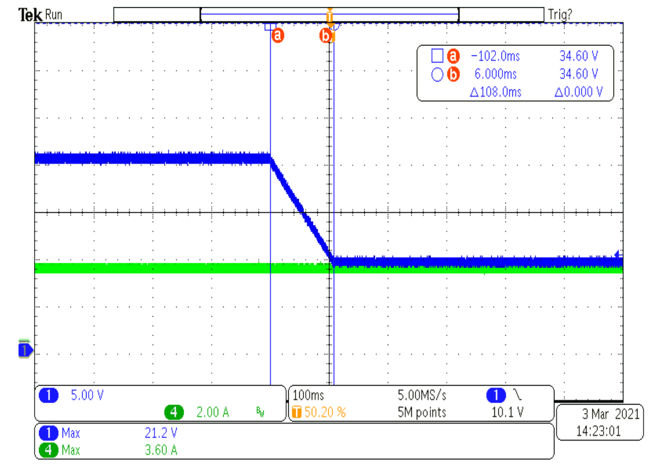
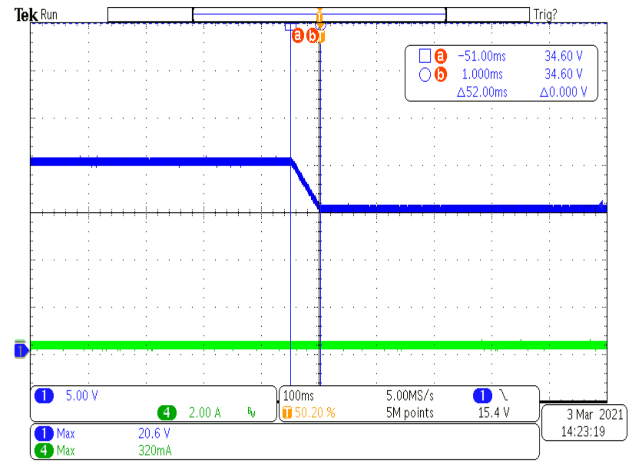
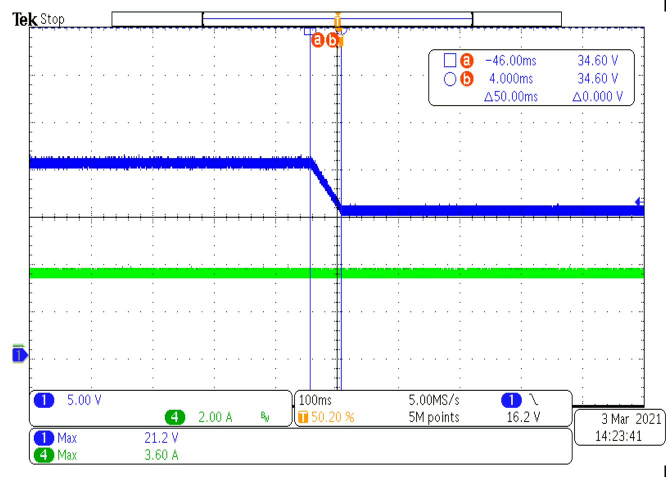


20 V → 15 V / 0 A



20 V → 15 V / 3 A



10. Line / Load / Cross Regulation

Input Voltage	90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Output Current	No Load & Full Load			
Measured Point of Output Voltage	End of PCB			
Requirement	5 % of $V_{BUS,SET}$			

Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	$V_{BUS,PCB}$ (V) 0 A	$V_{BUS,PCB}$ (V) 3 A	Requirement (V)
PD 3.0	5	90 / 47	4.99	5.25	4.75 ~ 5.25
		115 / 60	4.99	5.25	
		230 / 50	4.99	5.25	
		264 / 63	4.99	5.25	
	9	90 / 47	8.99	9.26	8.55 ~ 9.45
		115 / 60	8.99	9.26	
		230 / 50	8.99	9.27	
		264 / 63	8.99	9.27	
	15	90 / 47	14.99	15.27	14.25 ~ 15.75
		115 / 60	14.99	15.27	
		230 / 50	14.99	15.28	
		264 / 63	14.99	15.28	
	20	90 / 47	19.98	20.30	19 ~ 21
		115 / 60	19.99	20.30	
		230 / 50	19.99	20.30	
		264 / 63	19.99	20.31	

11. Over Current Protection

Input Voltage		90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Requirement	Protection Mode	Auto Recovery			
	OCP Trigger Point	< 120 % of Full Load			

Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	$V_{BUS,PCB}$	Requirement	
			0 A	Protection Mode	OCP Trigger Point (A)
PD 3.0	5	90 / 47	3.44	Auto Recovery	< 3.6
		115 / 60	3.41	Auto Recovery	
		230 / 50	3.41	Auto Recovery	
		264 / 63	3.43	Auto Recovery	
	9	90 / 47	3.42	Auto Recovery	< 3.6
		115 / 60	3.44	Auto Recovery	
		230 / 50	3.42	Auto Recovery	
		264 / 63	3.41	Auto Recovery	
	15	90 / 47	3.46	Auto Recovery	< 3.6
		115 / 60	3.42	Auto Recovery	
		230 / 50	3.43	Auto Recovery	
		264 / 63	3.44	Auto Recovery	
	20	90 / 47	3.69	Auto Recovery	< 3.9
		115 / 60	3.69	Auto Recovery	
		230 / 50	3.70	Auto Recovery	
		264 / 63	3.71	Auto Recovery	

12. Over Voltage Protection

Input Voltage	90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Output Current	No Load & Full Load (5 V & 9 V & 15V : 3 A / 20 V : 3.25 A)			
Measured Point of Output Voltage	End of PCB			
Requirement	Defined by Different Output Voltage			

Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	$V_{BUS,PCB}$ (V)		Requirement (V)
			No Load	Full Load	
PD 3.0	5	90 / 47	7.04	5.92	< 7.5
		115 / 60	7.36	6.00	
		230 / 50	7.04	7.36	
		264 / 63	7.12	6.96	
	9	90 / 47	11.6	11.0	< 13.5
		115 / 60	11.6	11.0	
		230 / 50	11.0	11.2	
		264 / 63	11.4	12.0	
	15	90 / 47	18.2	18.0	< 18.75
		115 / 60	18.4	17.8	
		230 / 50	18.4	18.0	
		264 / 63	17.4	17.8	
	20	90 / 47	23.6	22.8	< 25
		115 / 60	24.0	23.0	
		230 / 50	23.8	23.6	
		264 / 63	23.8	23.4	

PD 3.0 Mode : 5 V / 0 A

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90 V_{AC} / 47 Hz

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115 V_{AC} / 60 Hz

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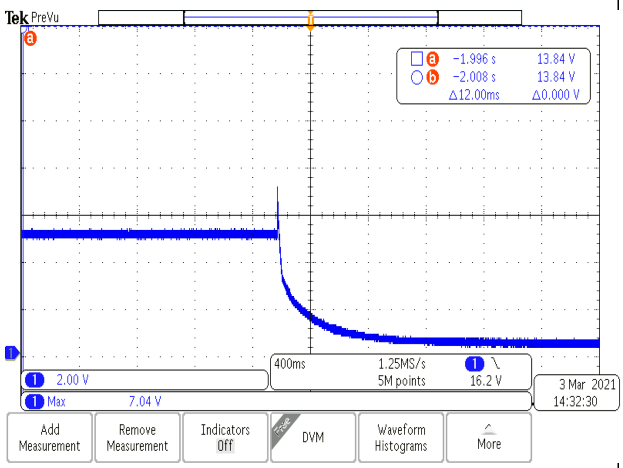

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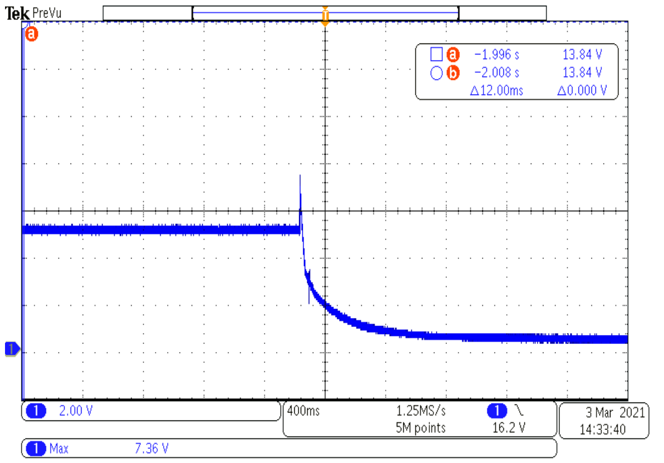

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230 V_{AC} / 50 Hz

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264 V_{AC} / 63 Hz

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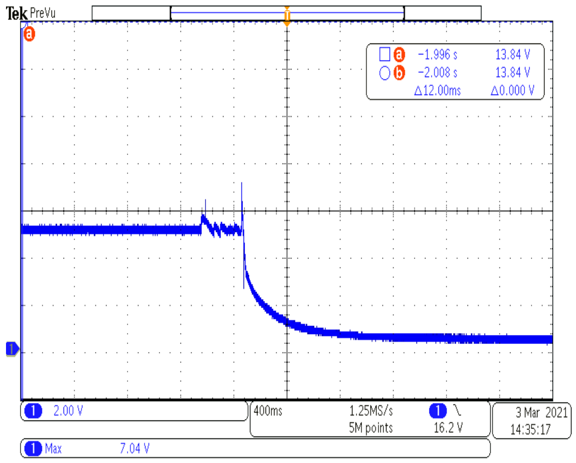

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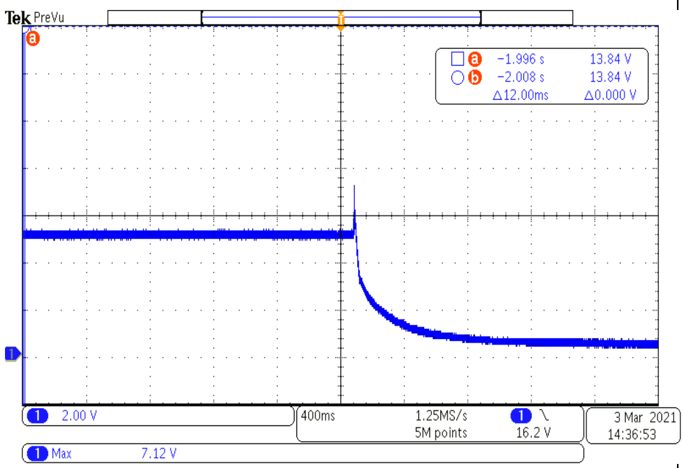

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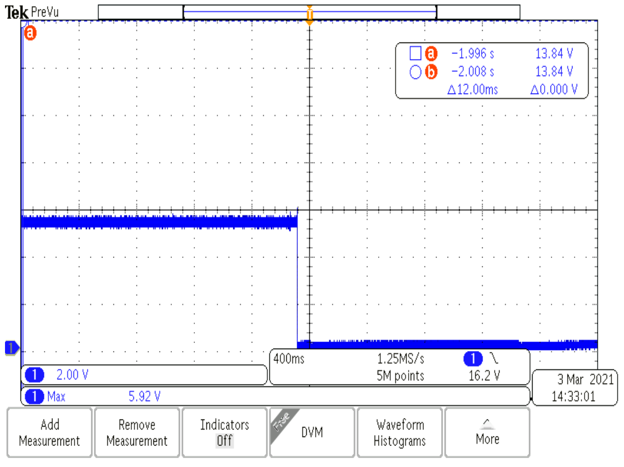
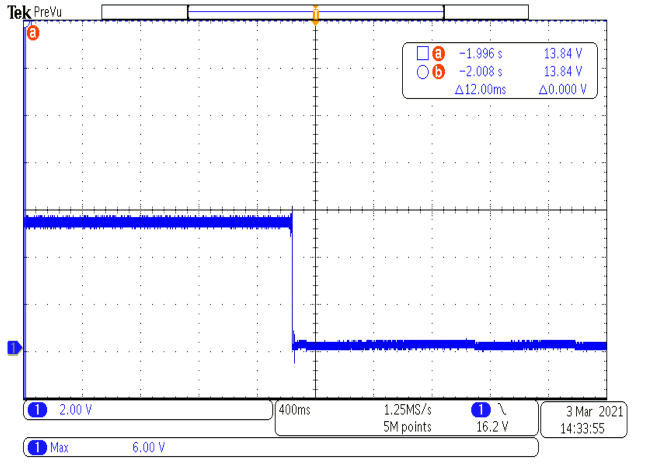
PD 3.0 Mode : 5 V / 3 A

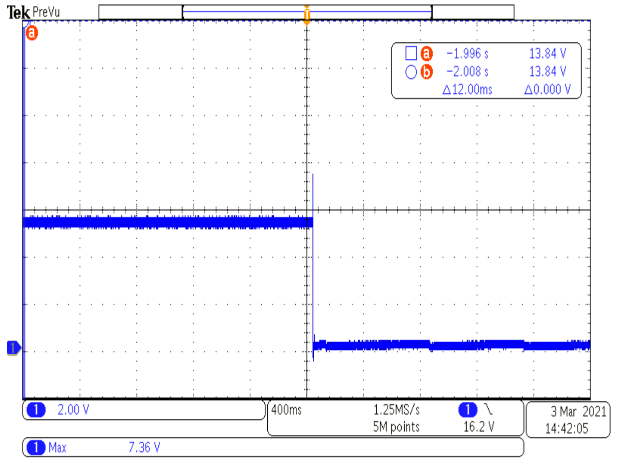
90 V_{AC} / 47 Hz



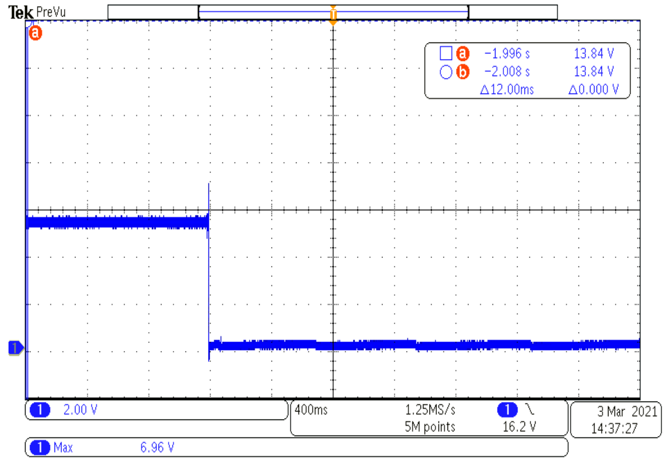
115 V_{AC} / 60 Hz



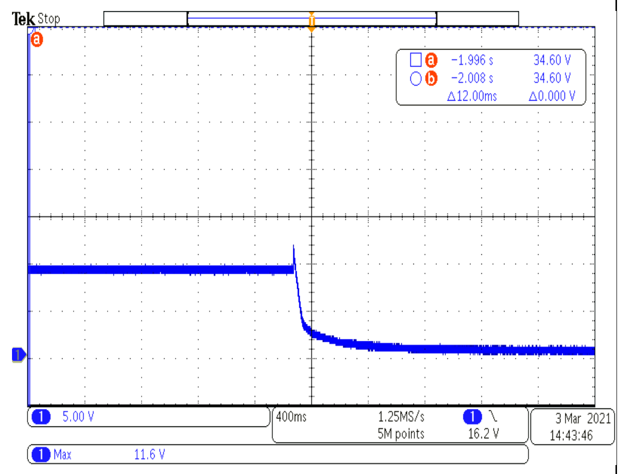
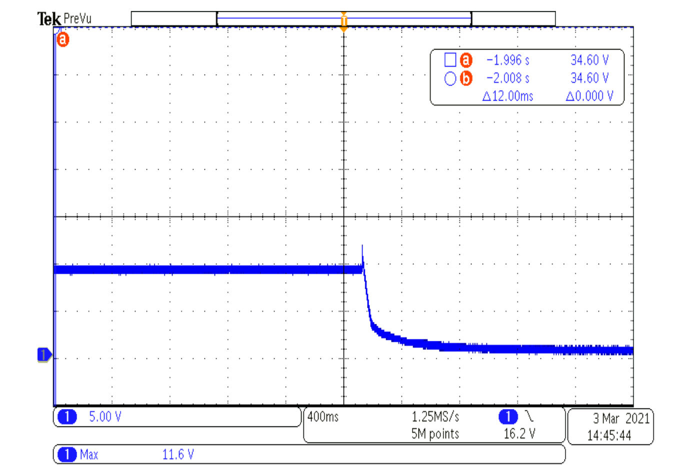
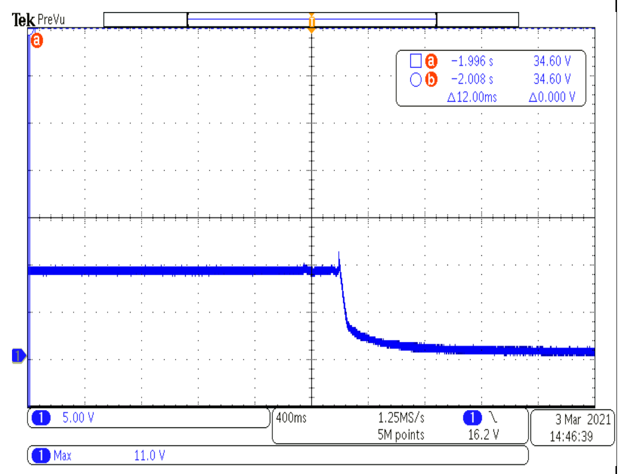
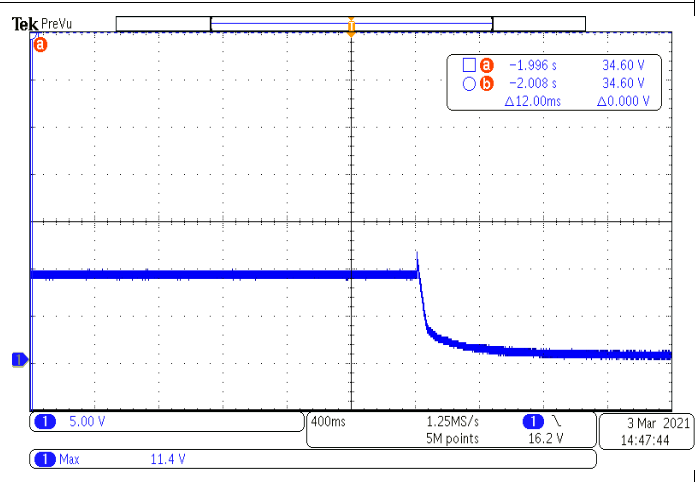
230 V_{AC} / 50 Hz



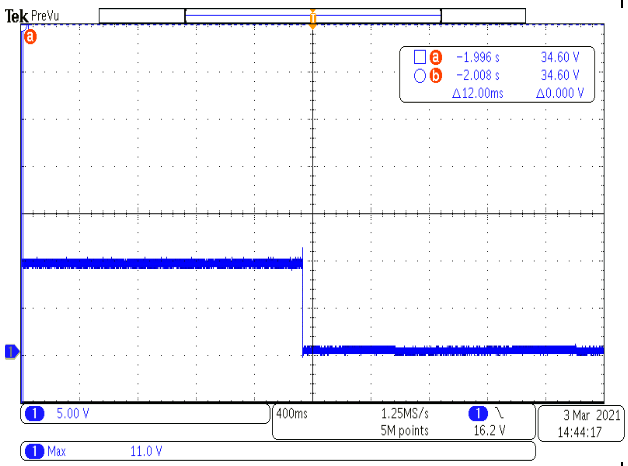
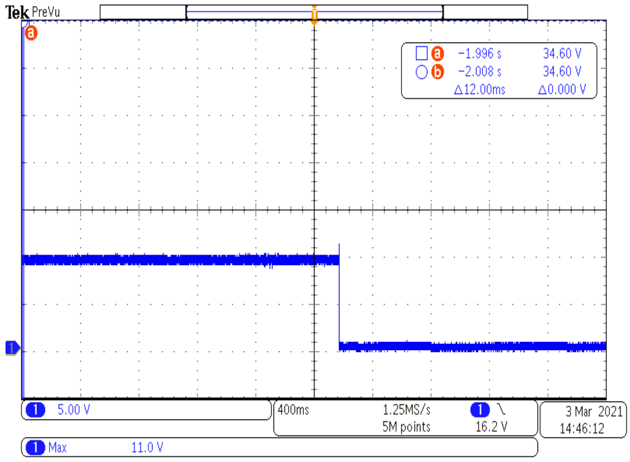
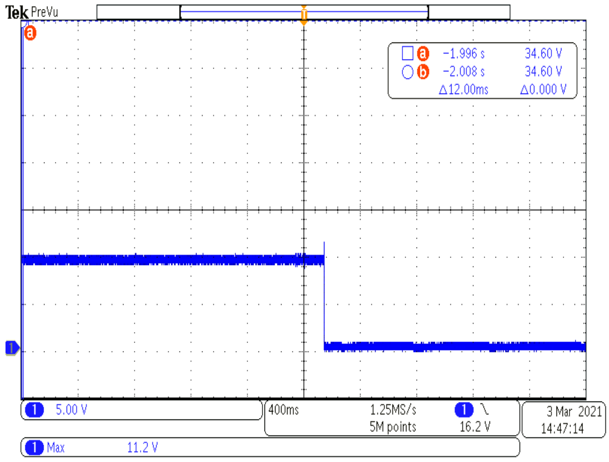
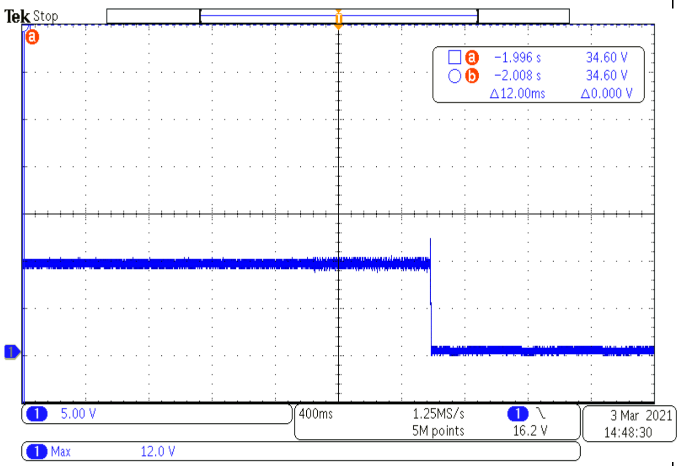
264 V_{AC} / 63 Hz



PD 3.0 Mode : 9 V / 0 A

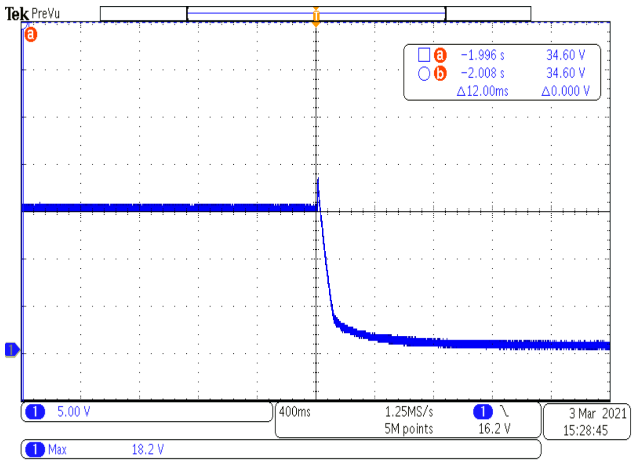
$90\ V_{AC}$ / 47 Hz	$115\ V_{AC}$ / 60 Hz
	
$230\ V_{AC}$ / 50 Hz	$264\ V_{AC}$ / 63 Hz
	

PD 3.0 Mode : 9 V / 3 A

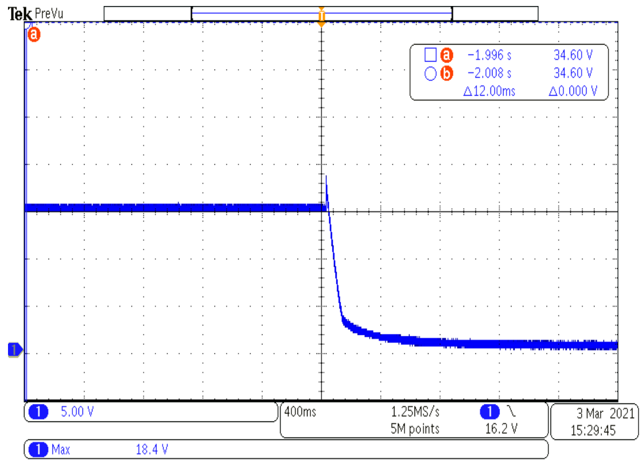
90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz
	
230 V_{AC} / 50 Hz	**264 V_{AC} / 63 Hz**
	

PD 3.0 Mode : 15 V / 0 A

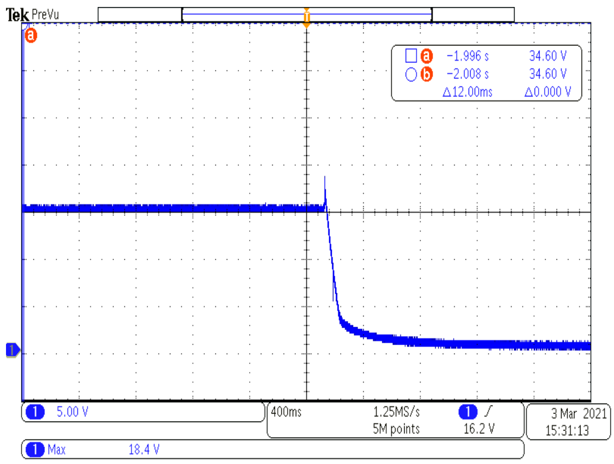
90 V_{AC} / 47 Hz



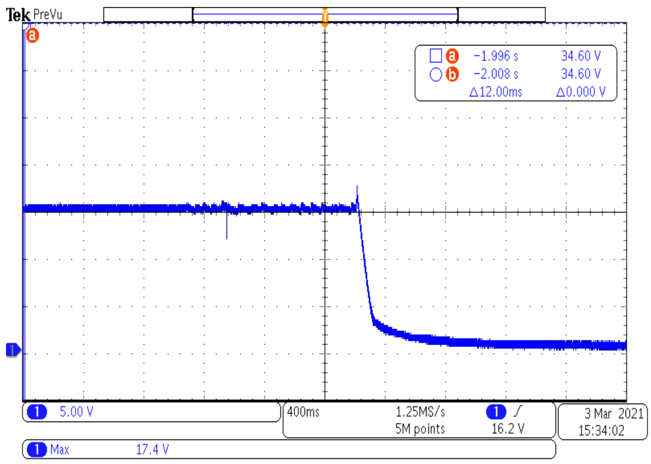
115 V_{AC} / 60 Hz



230 V_{AC} / 50 Hz

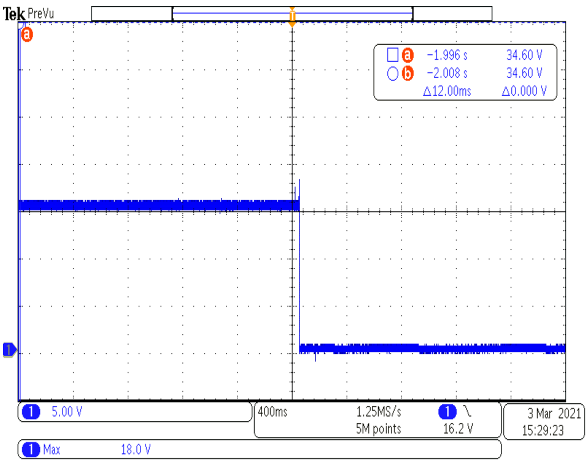


264 V_{AC} / 63 Hz

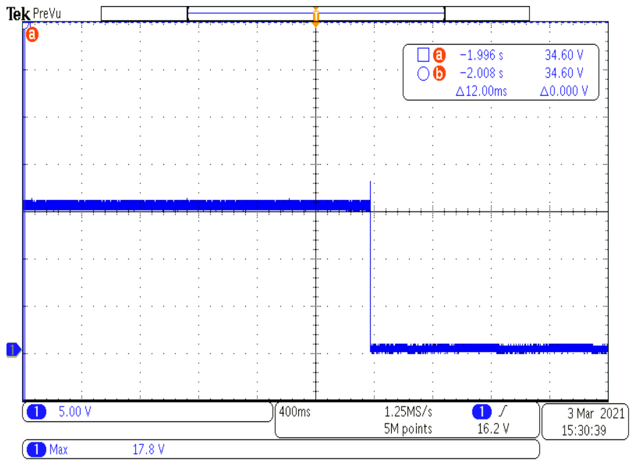


PD 3.0 Mode : 15 V / 3 A

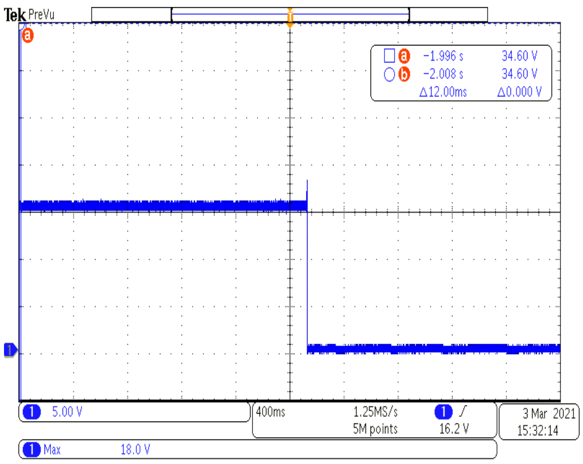
90 V_{AC} / 47 Hz



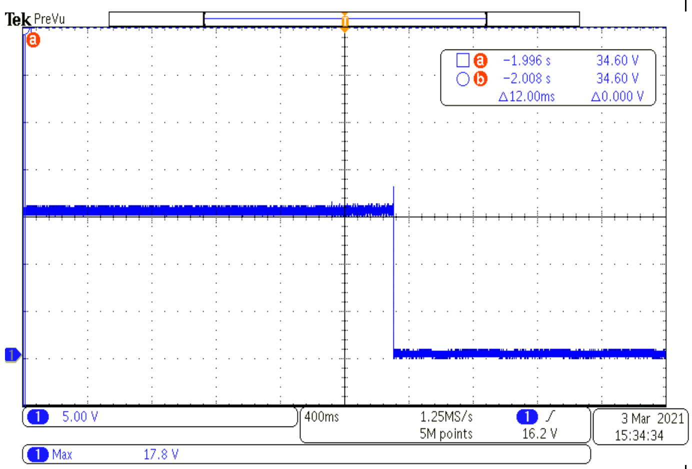
115 V_{AC} / 60 Hz



230 V_{AC} / 50 Hz



264 V_{AC} / 63 Hz



PD 3.0 Mode : 20 V / 0 A

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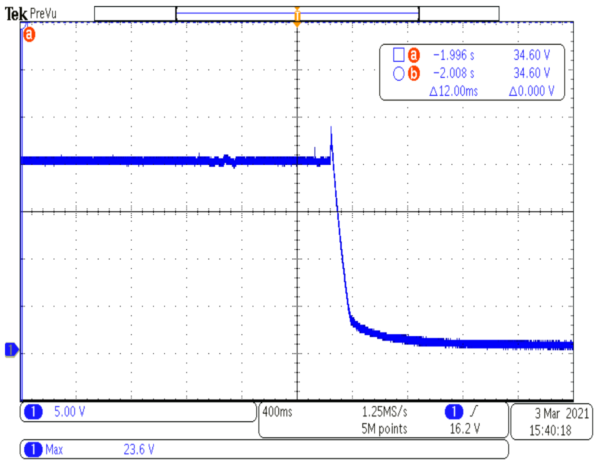
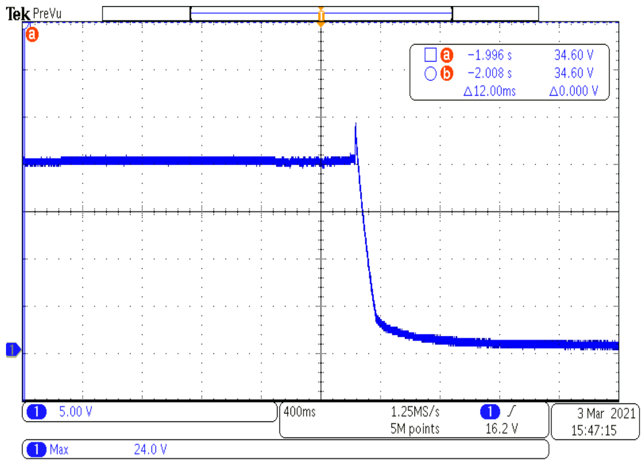
<tr><td>
</td><td>
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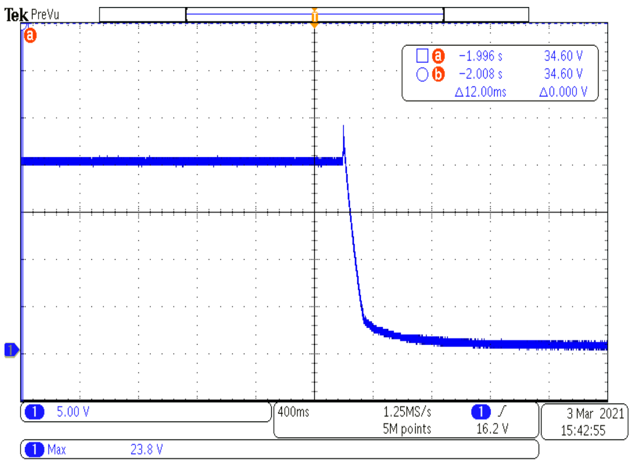
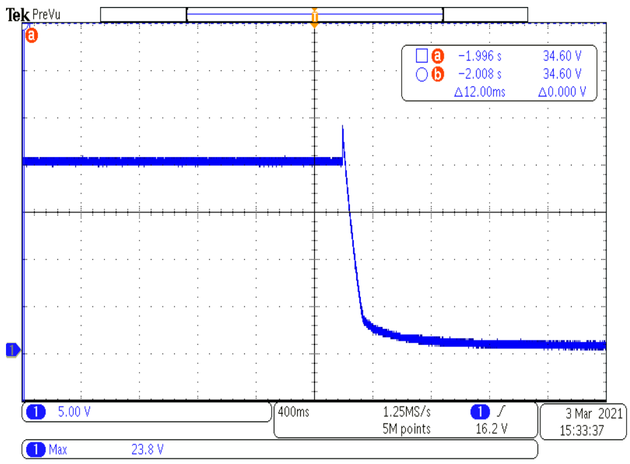
<tr><td>230 V_{AC} / 50 Hz</td><td>264 V_{AC} / 63 Hz</td></tr>
<tr><td>
</td><td>
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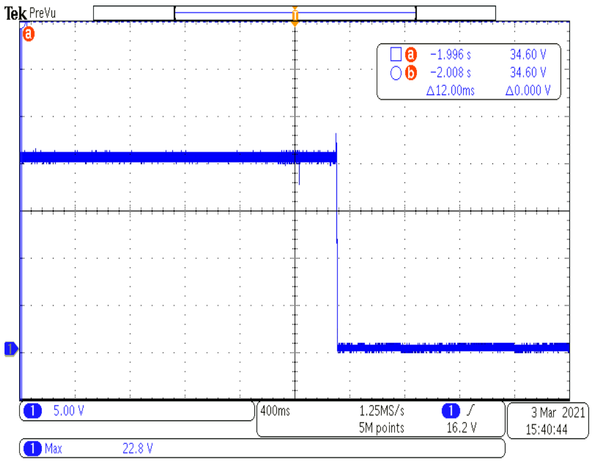
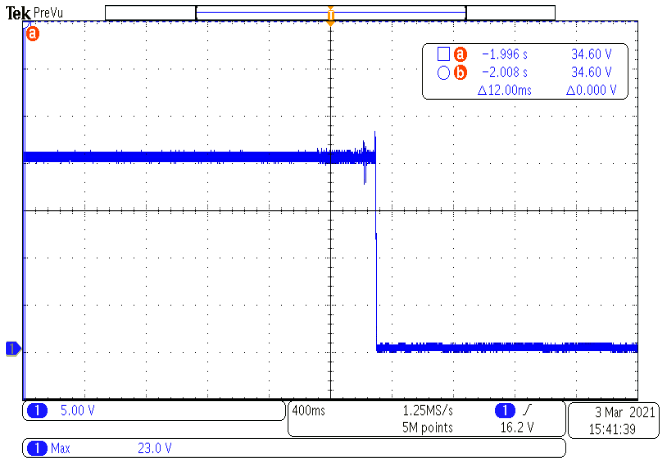
PD 3.0 Mode : 20 V / 3.25 A

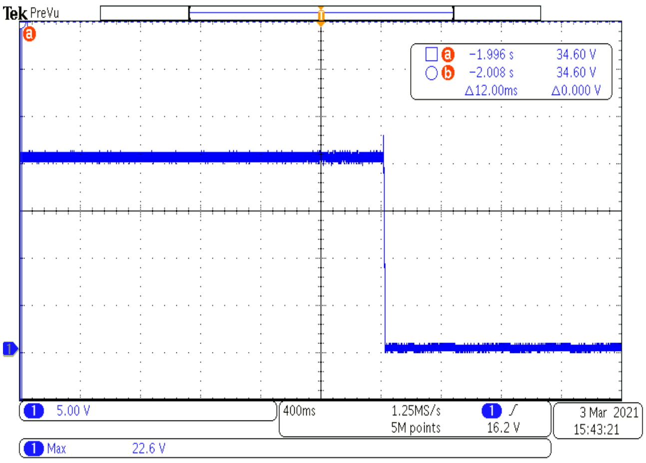
90 V_{AC} / 47 Hz



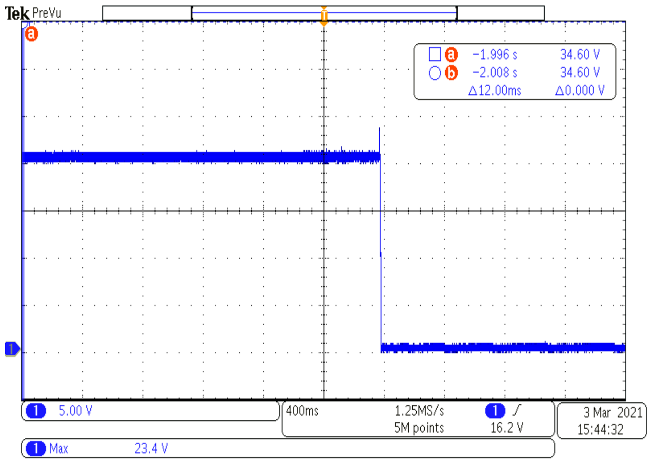
115 V_{AC} / 60 Hz



230 V_{AC} / 50 Hz



264 V_{AC} / 63 Hz



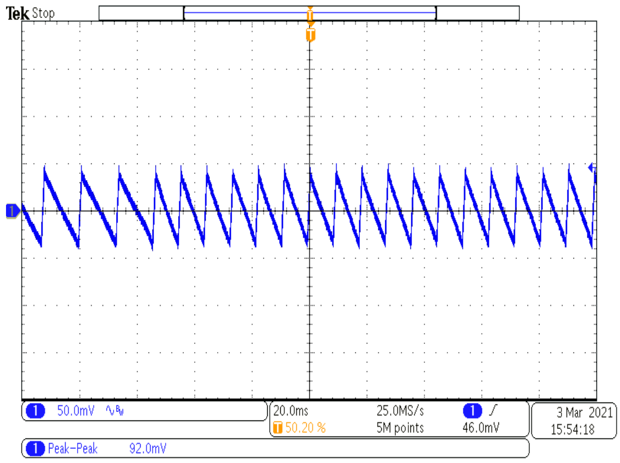
13. Ripple & Noise Voltage

Input Voltage	90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Output Current	No Load & Full Load			
Measured Point of Output Voltage	End of PCB			
Bandwidth	20 MHz (with 10 µF E-cap & 0.1 µF MLCC)			
Requirement	< 200 m V			

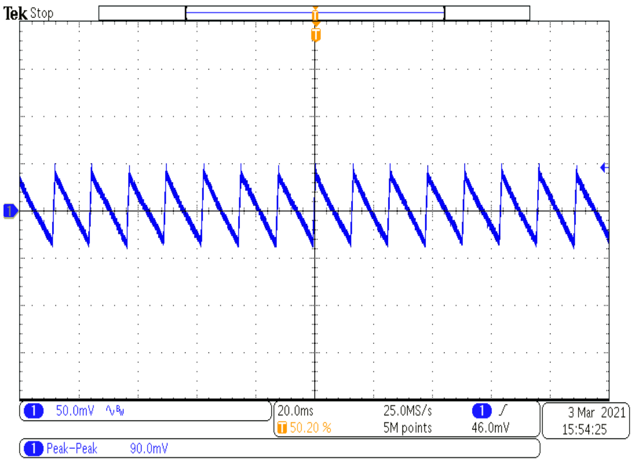
Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	$V_{BUS,PK-PK}$ (mV)		Requirement (mV)
			0 A	3 A	
PD 3.0	5	90 / 47	92	60	< 200
		115 / 60	90	58	
		230 / 50	108	60	
		264 / 63	108	60	
	9	90 / 47	92	84	< 200
		115 / 60	90	84	
		230 / 50	106	86	
		264 / 63	108	78	
	15	90 / 47	84	96	< 200
		115 / 60	52	96	
		230 / 50	62	96	
		264 / 63	66	106	
	20	90 / 47	52	160	< 200
		115 / 60	52	124	
		230 / 50	58	110	
		264 / 63	58	110	

PD 3.0 Mode : 5 V / 0 A

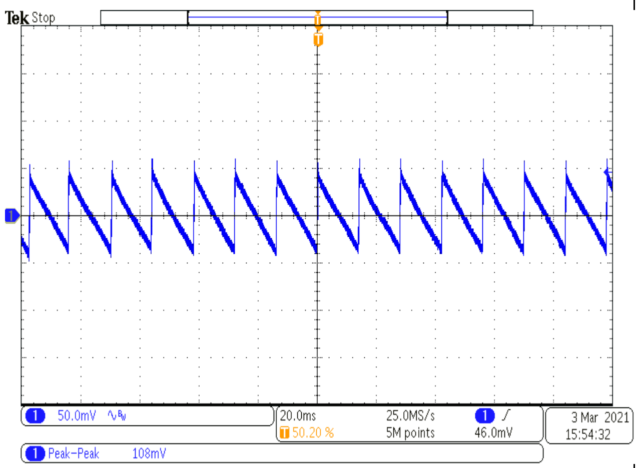
90 V_{AC} / 47 Hz



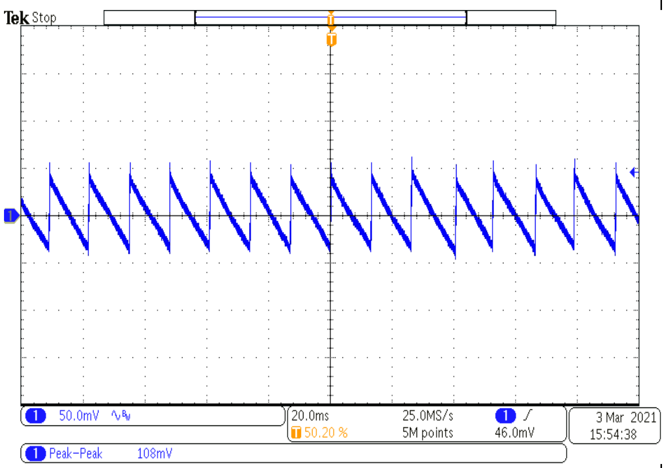
115 V_{AC} / 60 Hz



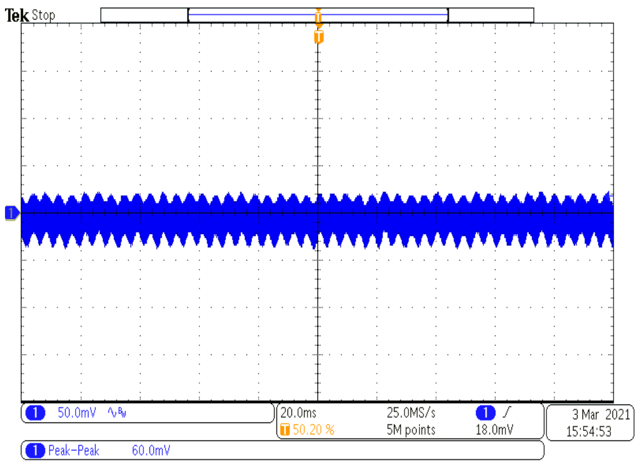
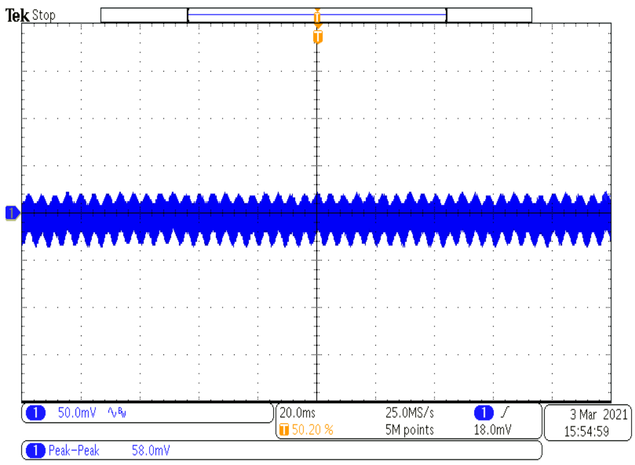
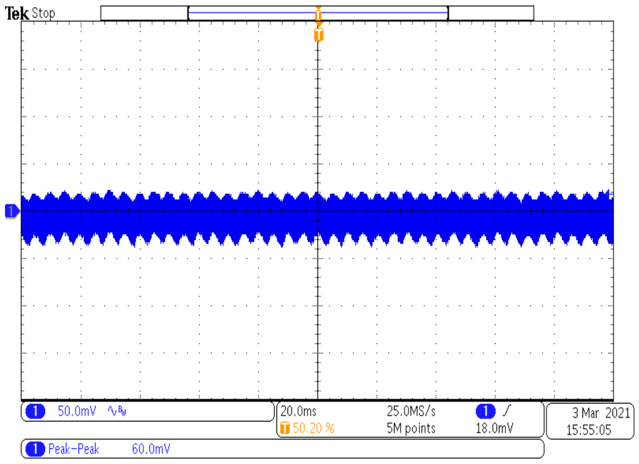
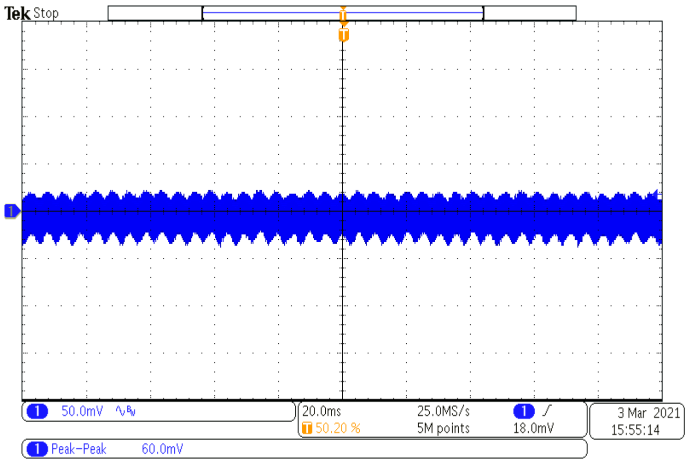
230 V_{AC} / 50 Hz



264 V_{AC} / 63 Hz

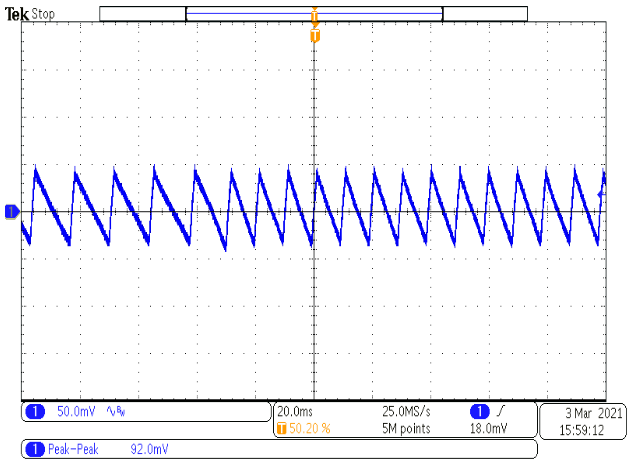


PD 3.0 Mode : 5 V / 3 A

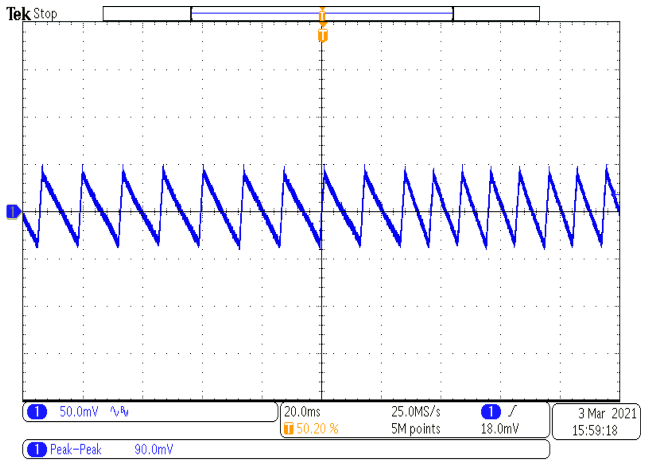
90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz
	
230 V_{AC} / 50 Hz	**264 V_{AC} / 63 Hz**
	

PD 3.0 Mode : 9 V / 0 A

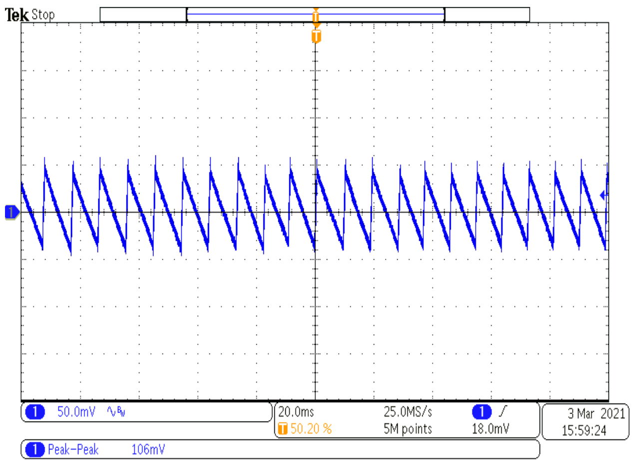
90 V_{AC} / 47 Hz



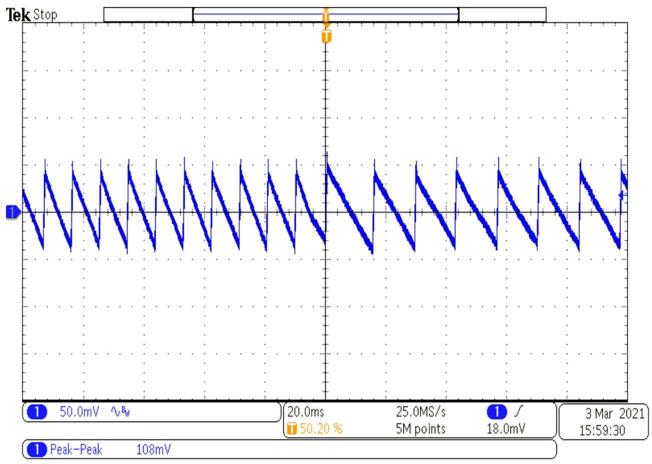
115 V_{AC} / 60 Hz



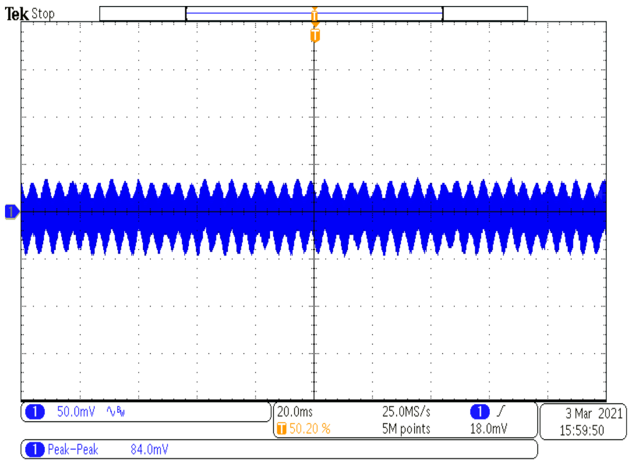
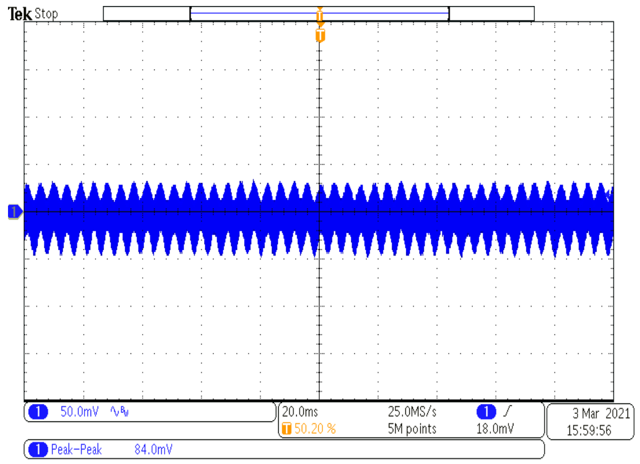
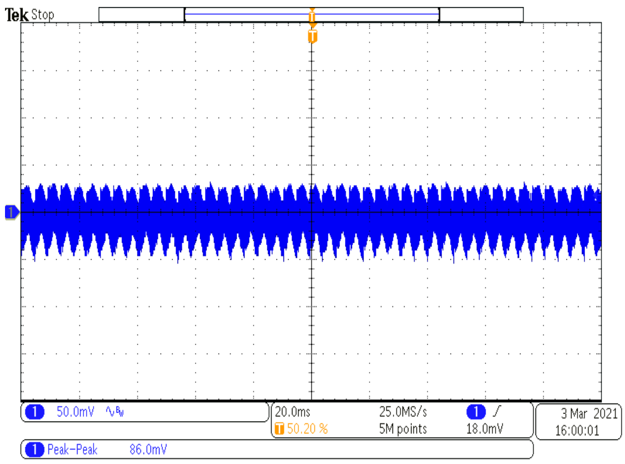
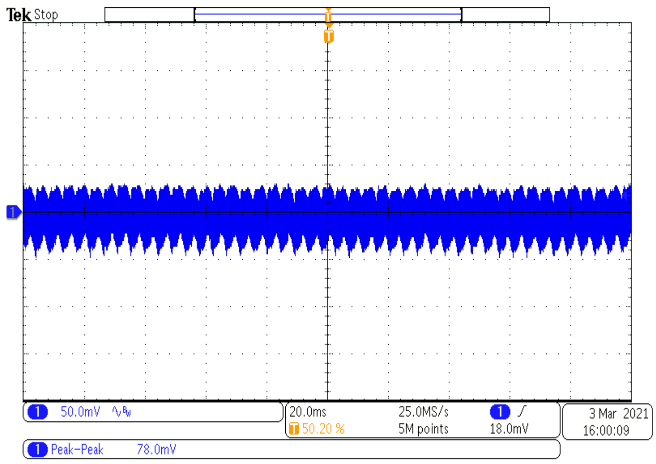
230 V_{AC} / 50 Hz



264 V_{AC} / 63 Hz

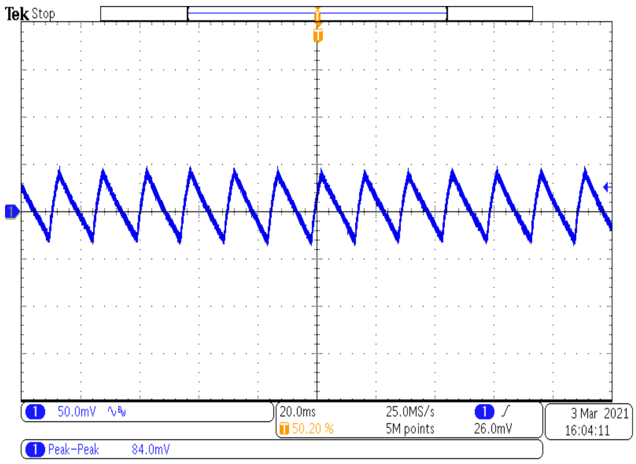


PD 3.0 Mode : 9 V / 3 A

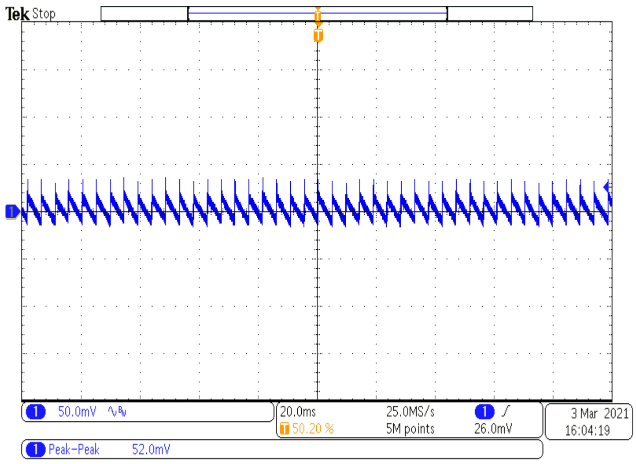
90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz
	
230 V_{AC} / 50 Hz	**264 V_{AC} / 63 Hz**
	

PD 3.0 Mode : 15 V / 0 A

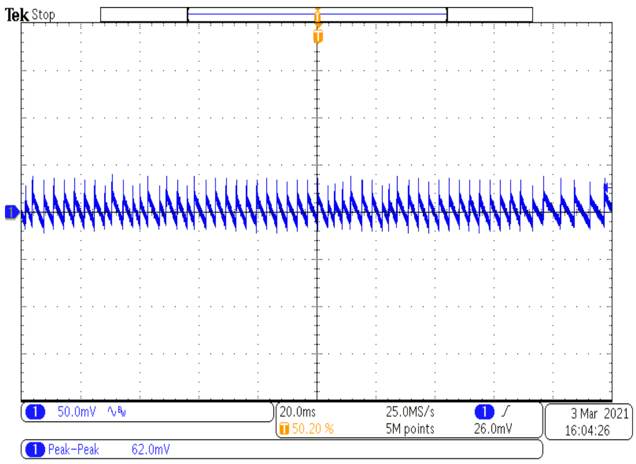
90 V_{AC} / 47 Hz



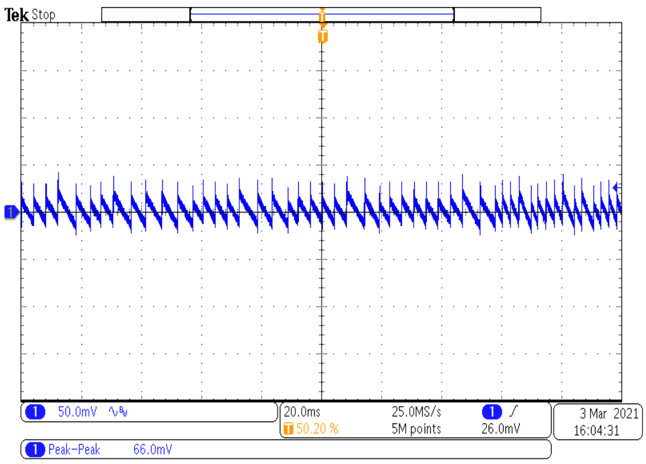
115 V_{AC} / 60 Hz



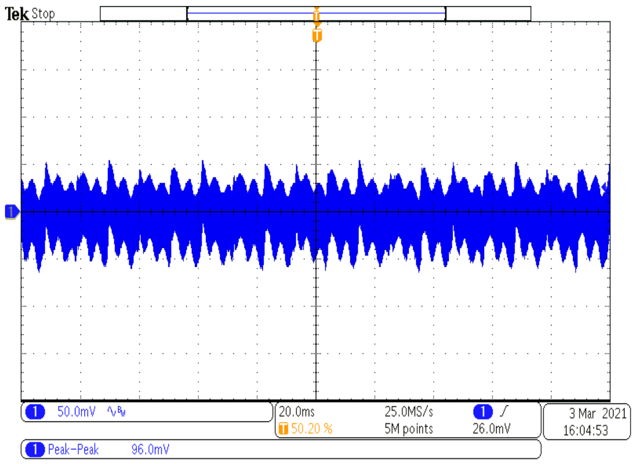
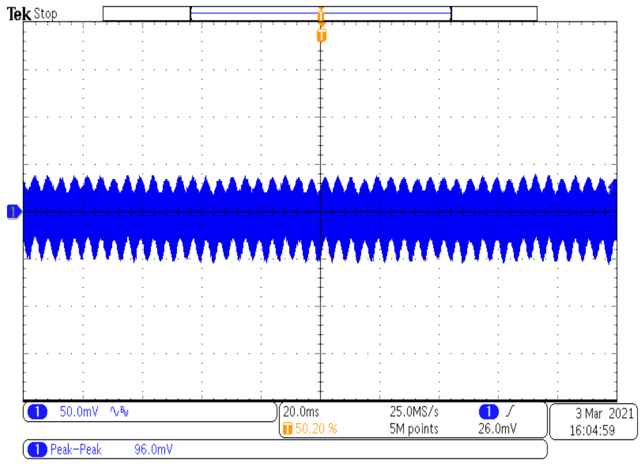
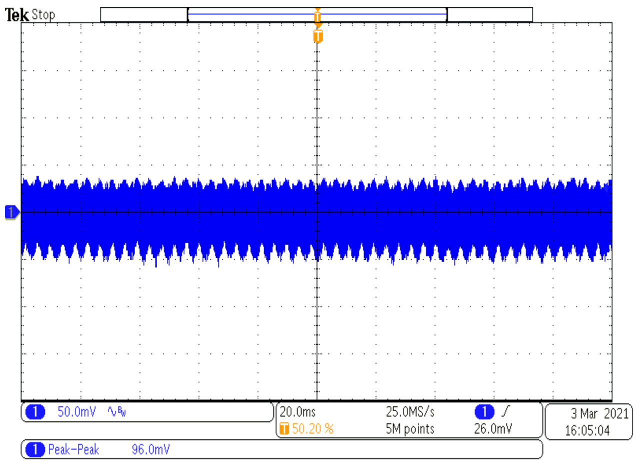
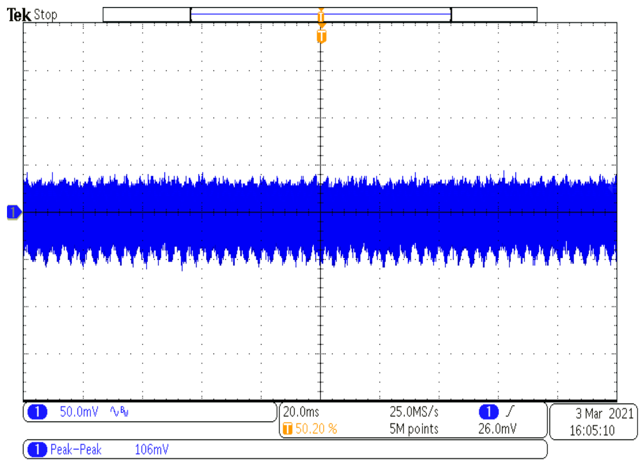
230 V_{AC} / 50 Hz



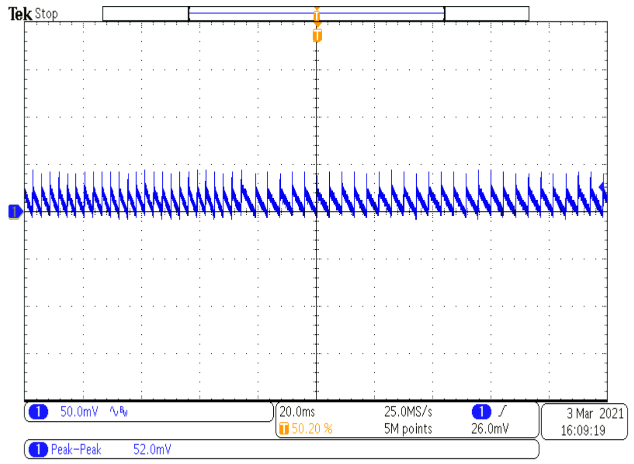
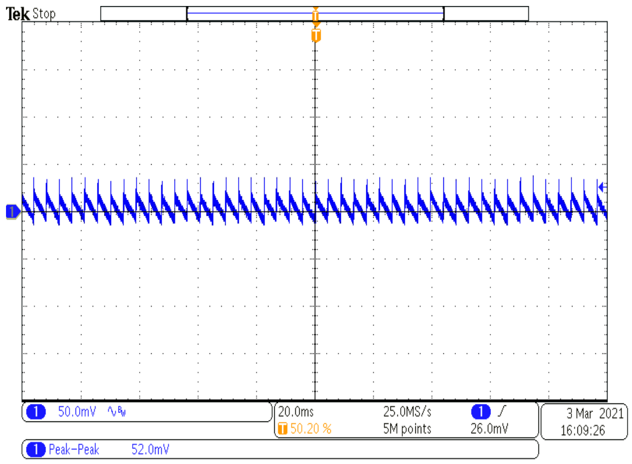
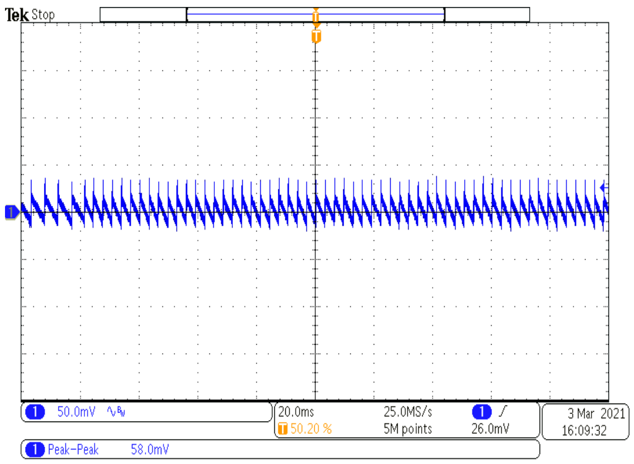
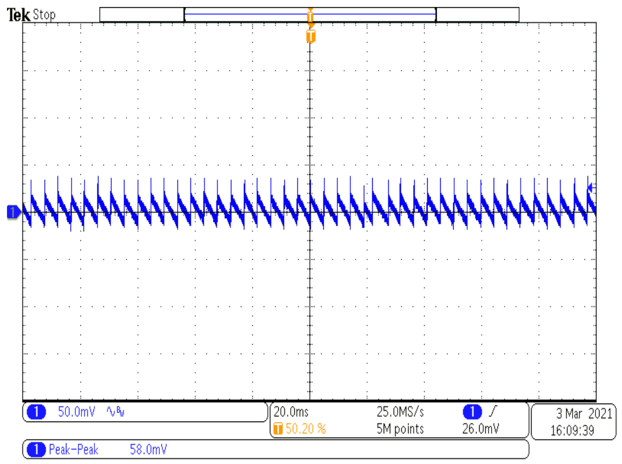
264 V_{AC} / 63 Hz



PD 3.0 Mode : 15 V / 3.0A

90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz
	
230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
	

PD 3.0 Mode : 20 V / 0A

90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz
	
230 V_{AC} / 50 Hz	**264 V_{AC} / 63 Hz**
	

PD 3.0 Mode : 20 V / 3.25A

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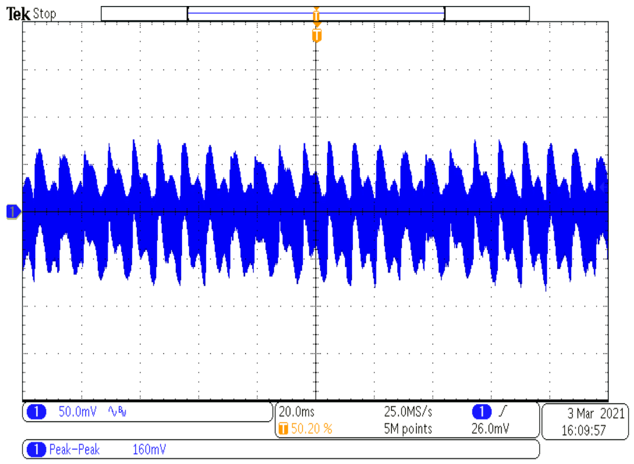
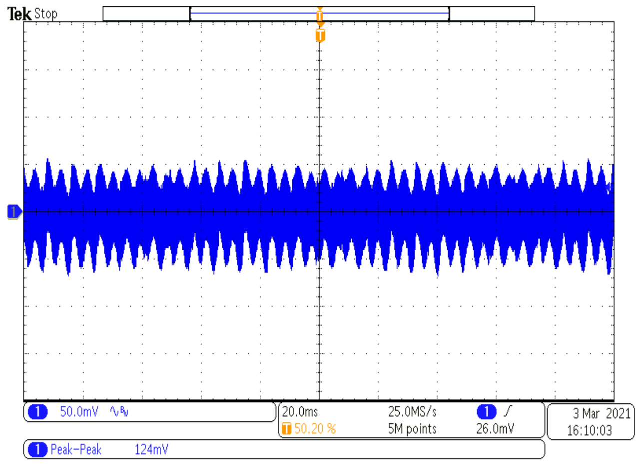
<tr><td>
</td><td>
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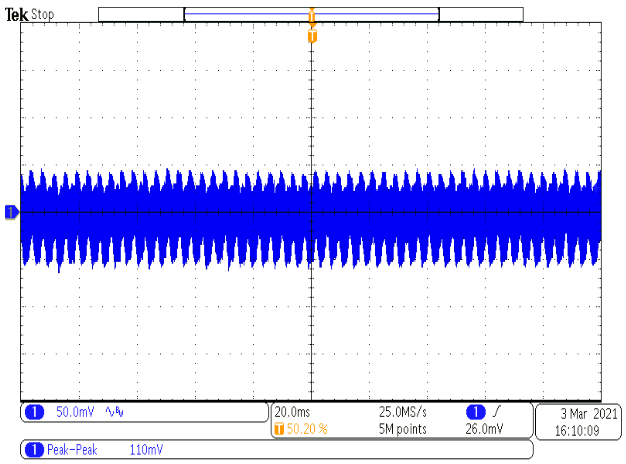
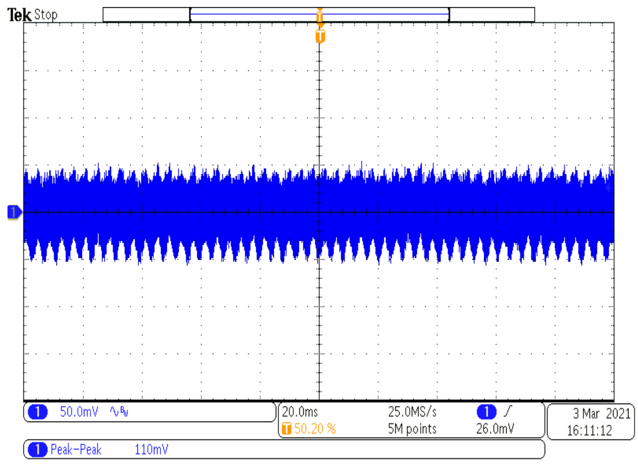
<tr><th>230 V_{AC} / 50 Hz</th><th>264 V_{AC} / 63 Hz</th></tr>
<tr><td>
</td><td>
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14. Dynamic Load

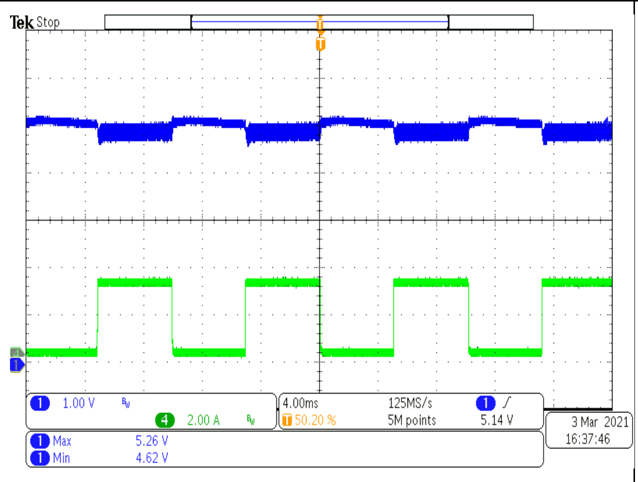
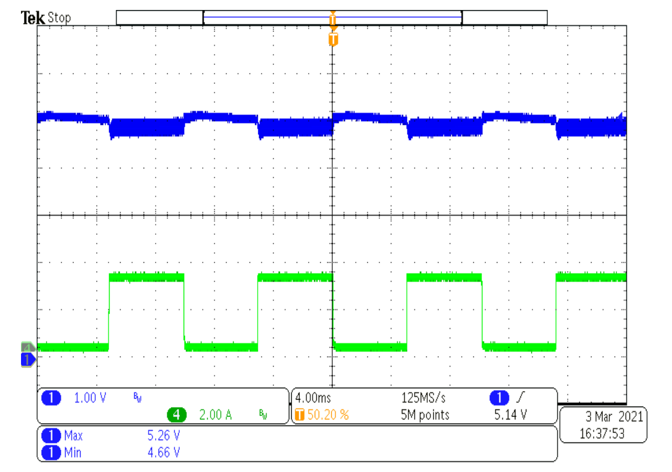
Input Voltage	90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Output Current	0 ↔ 100 % of Full Load			
Frequency of Load	100 Hz (5 mS High / 5 mS Low)			
Slew Rate of Load	2.5 A / µS			
Measured Point of Output Voltage	End of PCB			
Requirement	< ± 10 % of $V_{BUS,SET}$			

Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	$V_{BUS,PCB}$ (V)		Requirement (V)
			Min.	Max.	
PD 3.0	5	90 / 47	4.62	5.26	4.5 ~ 5.5
		115 / 60	4.66	5.26	
		230 / 50	4.62	5.30	
		264 / 63	4.62	5.34	
	9	90 / 47	8.68	9.32	8.1 ~ 9.9
		115 / 60	8.70	9.30	
		230 / 50	8.70	9.32	
		264 / 63	8.72	9.34	

Input Voltage	90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Output Current	0 ↔ 100 % of Full Load			
Frequency of Load	100 Hz (5 mS High / 5 mS Low)			
Slew Rate of Load	2.5 A / μS			
Measured Point of Output Voltage	End of PCB			
Requirement	< ± 10 % of $V_{BUS,SET}$			

Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	$V_{BUS,PCB}$ (V)		Requirement (V)
			Min.	Max.	
PD 3.0	15	90 / 47	14.7	15.4	13.5 ~ 16.5
		115 / 60	14.8	15.4	
		230 / 50	14.8	15.4	
		264 / 63	14.8	15.5	
	20	90 / 47	19.7	20.6	18 ~ 22
		115 / 60	19.8	20.6	
		230 / 50	19.8	20.6	
		264 / 63	19.8	20.6	

PD 3.0 Mode : 5 V / 0 A~ 3 A

<table>
<tr><th>90 V_{AC} / 47 Hz</th><th>115 V_{AC} / 60 Hz</th></tr>
<tr><td>
</td><td>
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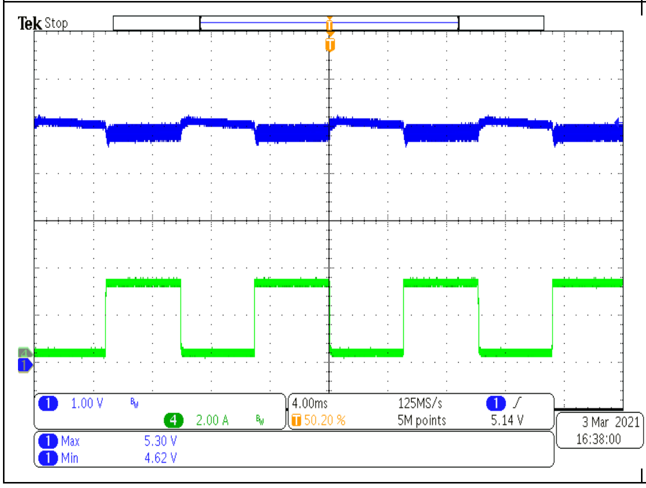
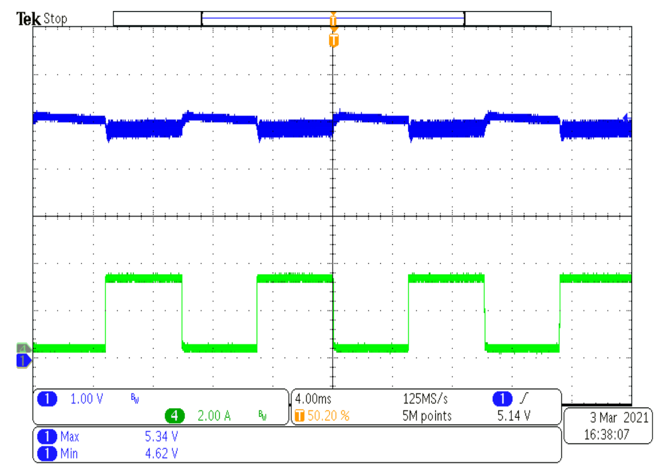
<tr><th>230 V_{AC} / 50 Hz</th><th>264 V_{AC} / 63 Hz</th></tr>
<tr><td>
</td><td>
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PD 3.0 Mode : 9 V / 0 A~ 3 A

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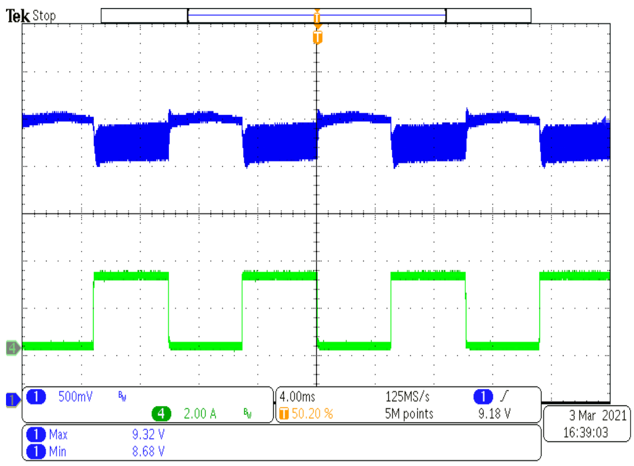
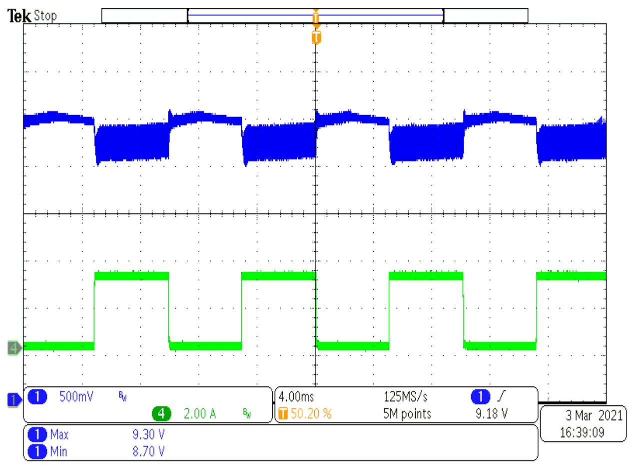
<tr><td>
</td><td>
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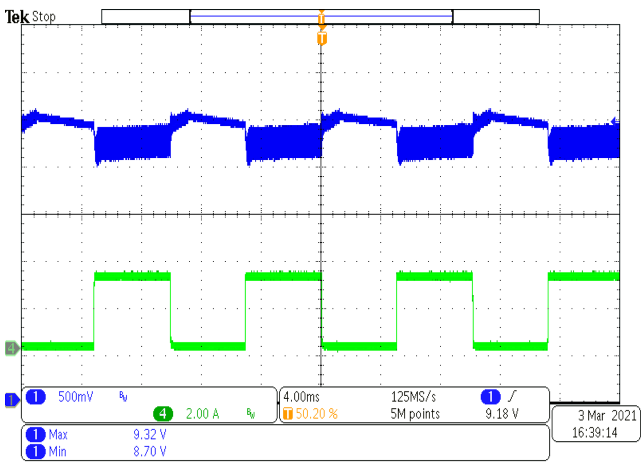
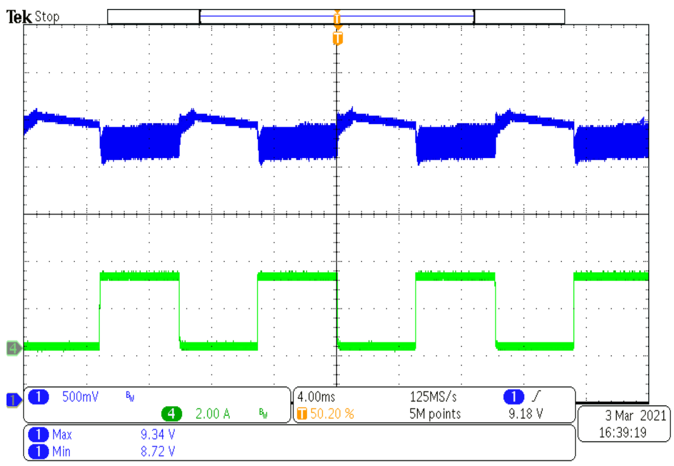
<tr><th>230 V_{AC} / 50 Hz</th><th>264 V_{AC} / 63 Hz</th></tr>
<tr><td>
</td><td>
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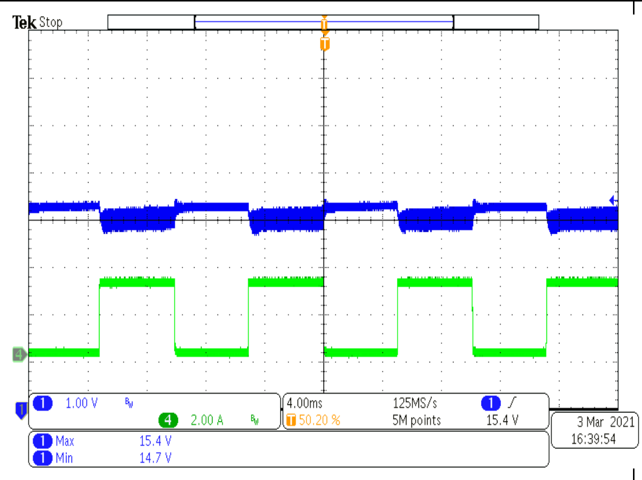
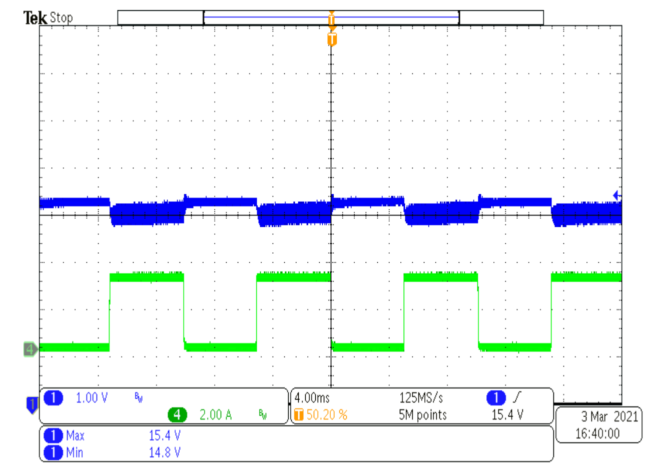
PD 3.0 Mode : 15V / 0 A~ 3 A

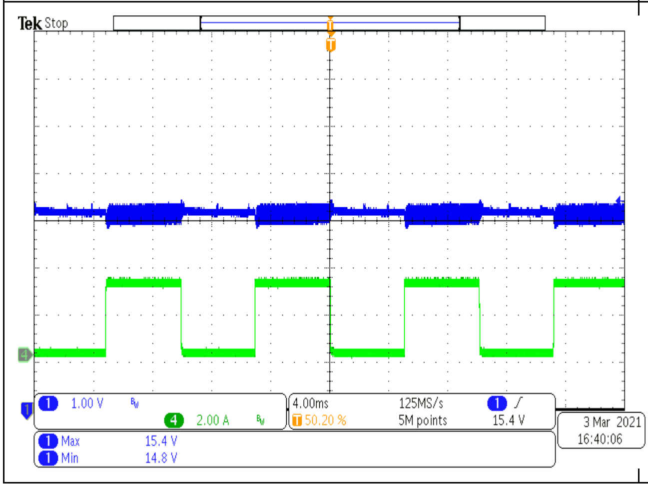
90 V_{AC} / 47 Hz



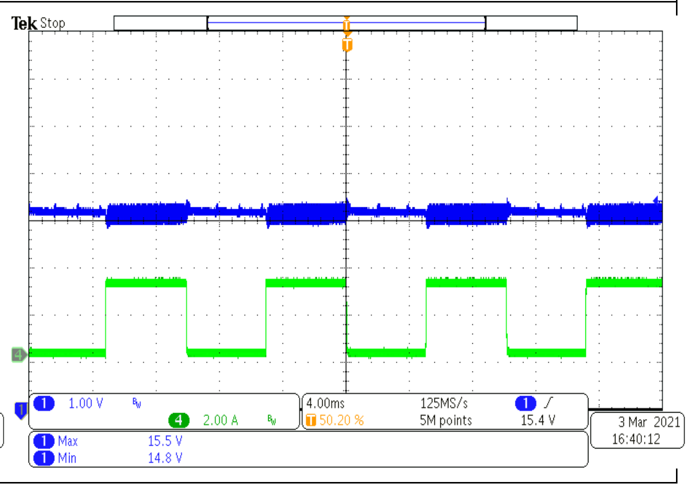
115 V_{AC} / 60 Hz



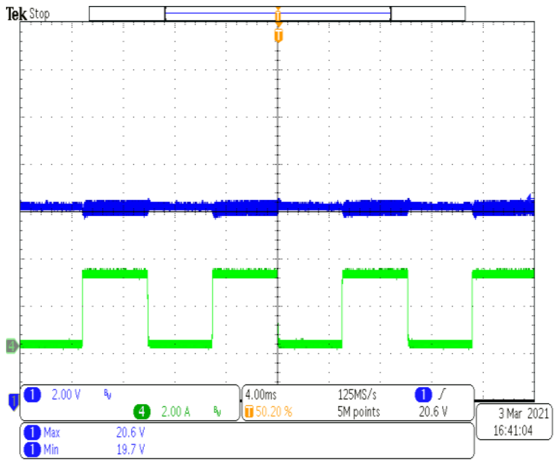
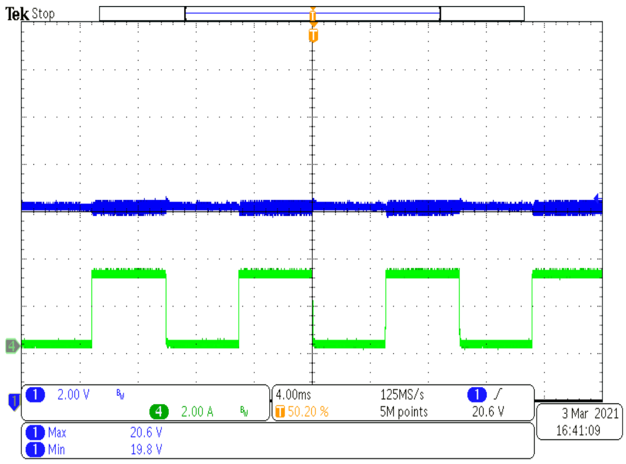
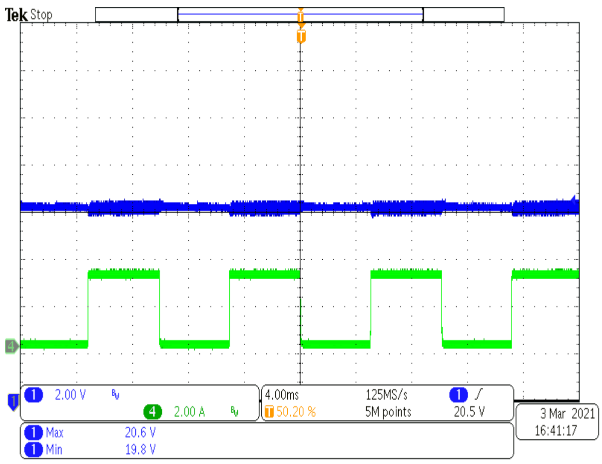
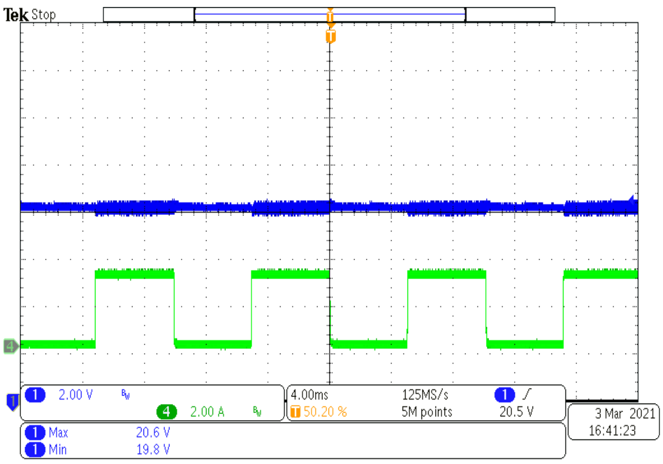
230 V_{AC} / 50 Hz



264 V_{AC} / 63 Hz



PD 3.0 Mode : 20V / 0 A~ 3.25 A

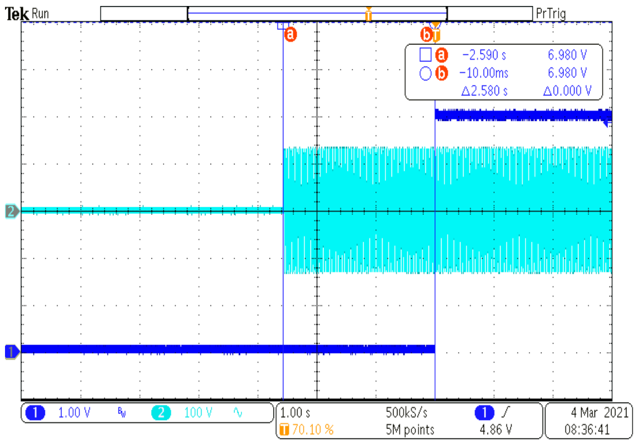
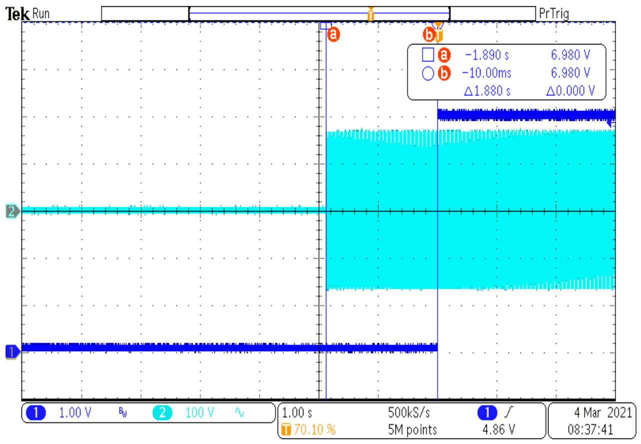
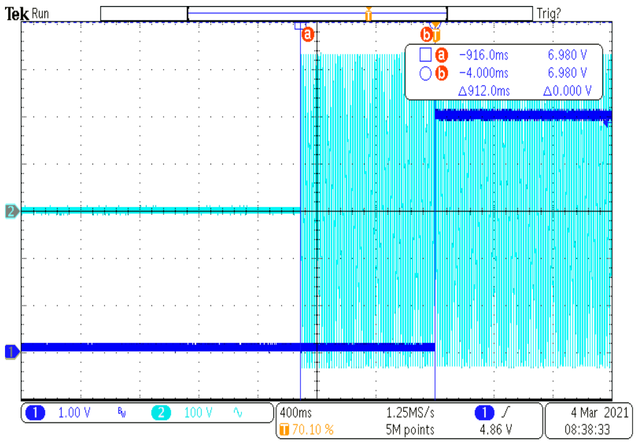
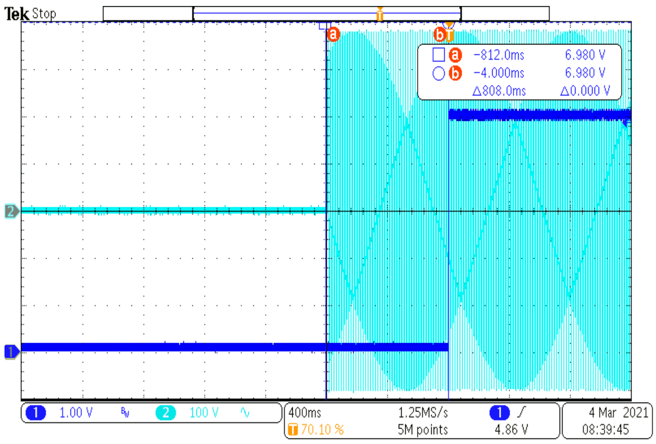
90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz
	
230 V_{AC} / 50 Hz	**264 V_{AC} / 63 Hz**
	

15. Turn-on Delay Time

Input Voltage	90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Output Current	No Load & Full Load			
Measured Point of Output Voltage	End of PCB			
Requirement	< 3 S			

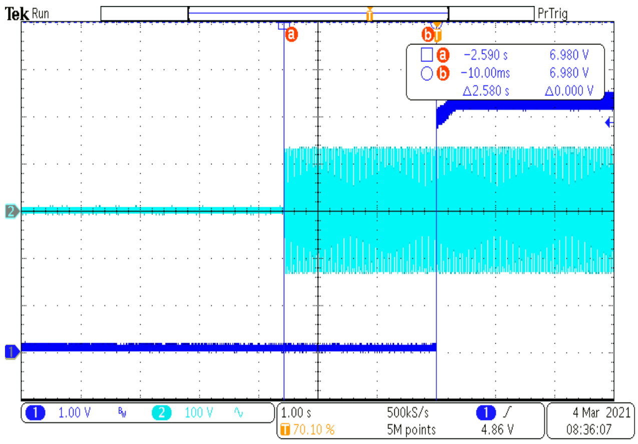
Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	T_{ON} (S)		Requirement (S)
			0 A	3 A	
PD 3.0	5	90 / 47	2.58	2.58	< 3
		115 / 60	1.88	1.83	
		230 / 50	0.912	0.740	
		264 / 63	0.808	0.808	

PD 3.0 Mode : 5 V / 0 A

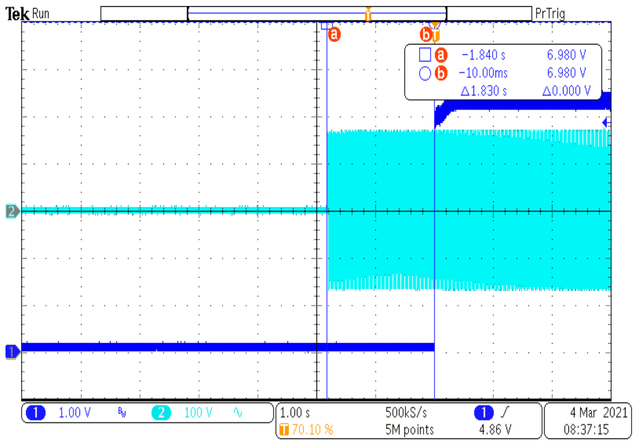
90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz
	
230 V_{AC} / 50 Hz	**264 V_{AC} / 63 Hz**
	

PD 3.0 Mode : 5 V / 3 A

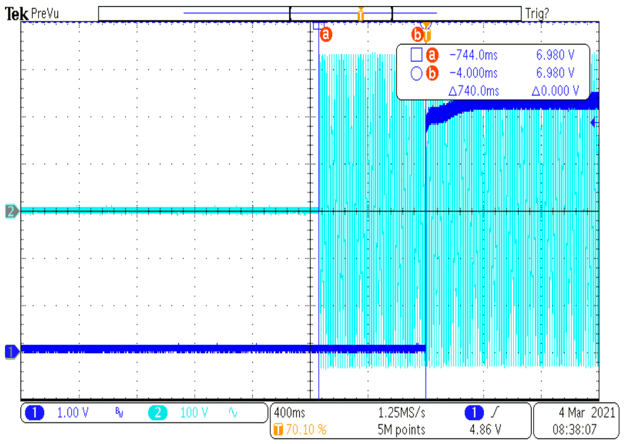
90 V_{AC} / 47 Hz



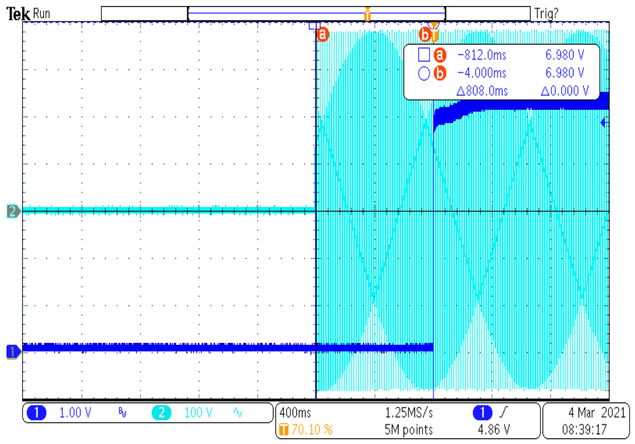
115 V_{AC} / 60 Hz



230 V_{AC} / 50 Hz



264 V_{AC} / 63 Hz



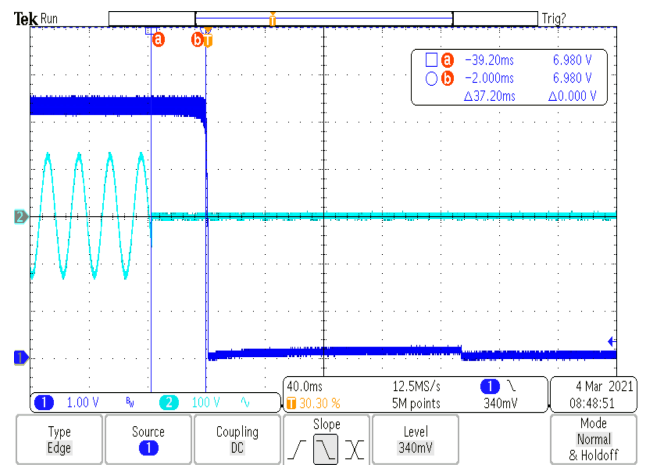
16. Hold-up Time

Input Voltage	90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Output Current	Full Load			
Measured Point of Output Voltage	End of PCB			
Angle of AC Off	0°			
Requirement	> 10 mS @ Typical AC Input for 115Vac			

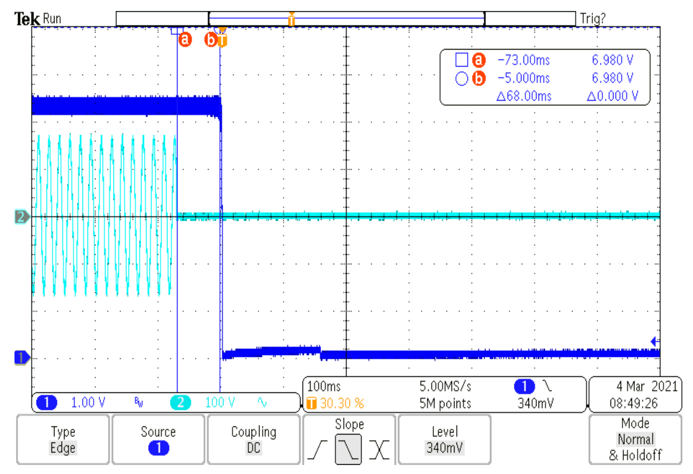
Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	$T_{HOLD-UP}$ (mS)	Requirement (mS)
PD 3.0	20	90 / 47	37.2	—
		115 / 60	68.0	> 10
		230 / 50	286	> 10
		264 / 63	394	—

PD 3.0 Mode : 20 V / 3.25 A

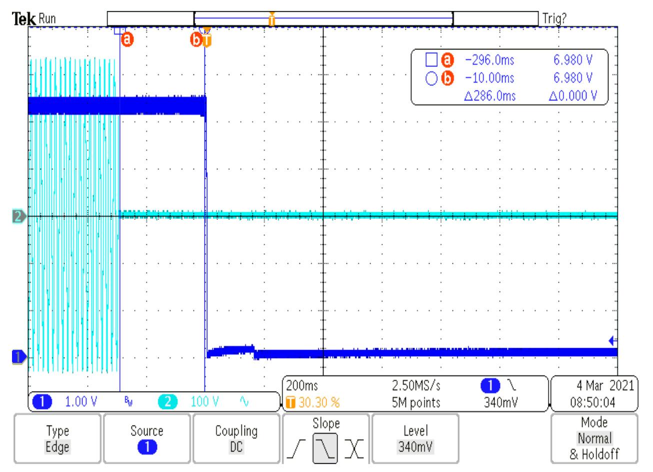
90 V_{AC} / 47 Hz



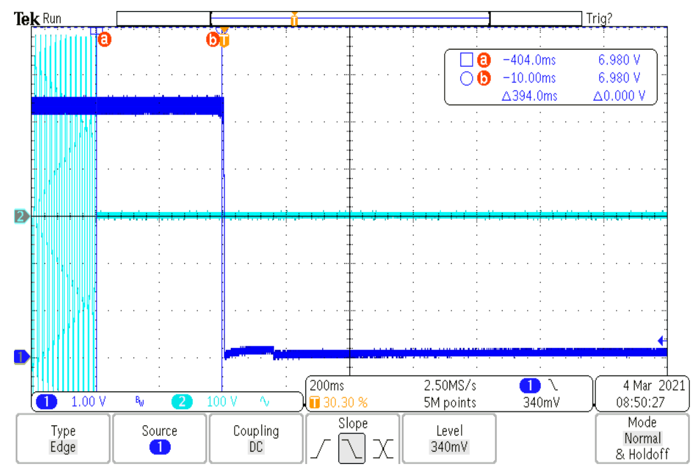
115 V_{AC} / 60 Hz



230 V_{AC} / 50 Hz



264 V_{AC} / 63 Hz



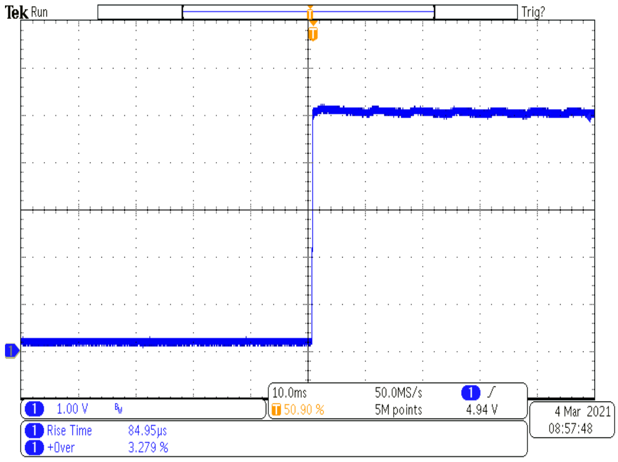
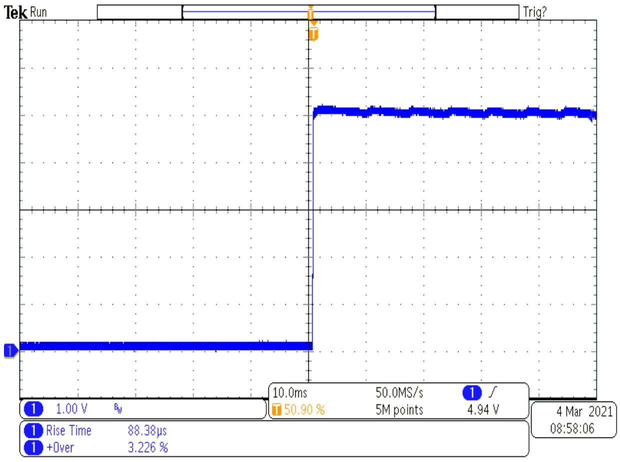
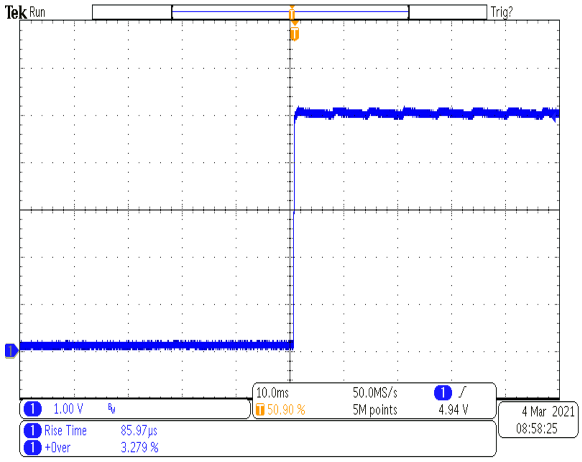
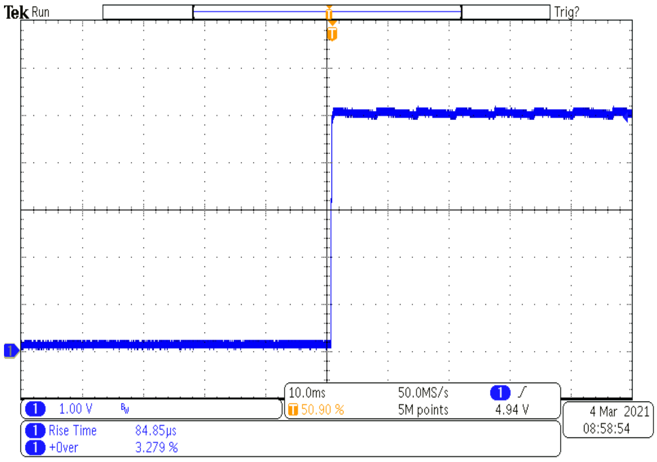
17. Rise Time & Overshoot

Input Voltage		90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Output Current		No Load			
Measured Point of Output Voltage		End of PCB			
Requirement	Rise Time	< 5 mS			
	Overshoot	< 10 %			

Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	T_{RISE} (mS)	Requirement (mS)
PD 3.0	5	90 / 47	0.08	< 5
		115 / 60	0.09	
		230 / 50	0.08	
		264 / 63	0.08	

Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	Overshoot (%)	Requirement (%)
PD 3.0	5	90 / 47	3.279	< 10
		115 / 60	3.226	
		230 / 50	3.279	
		264 / 63	3.279	

PD 3.0 Mode : 5 V / 0 A

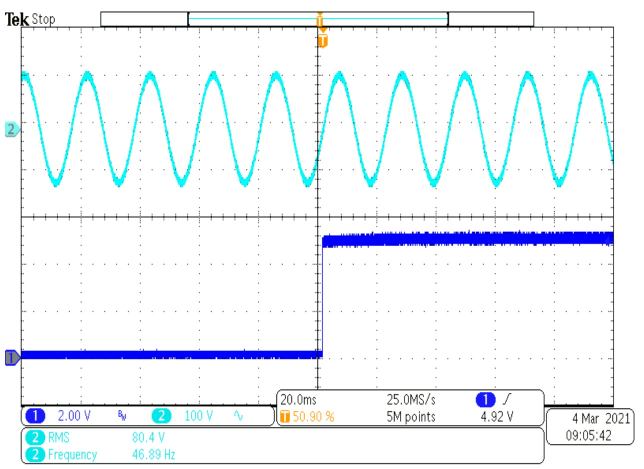
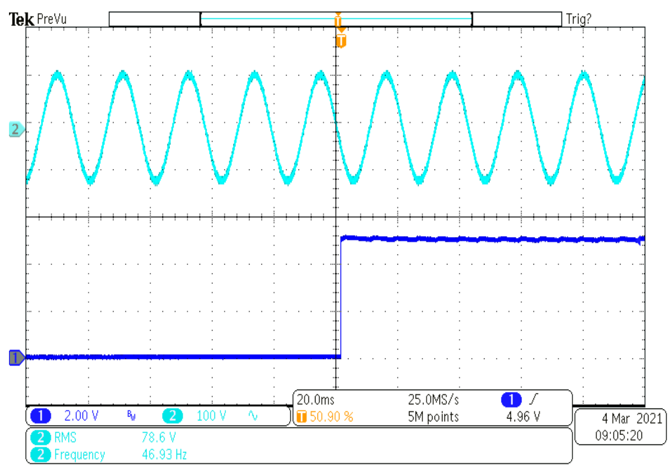
$90\ V_{AC}$ / 47 Hz	$115\ V_{AC}$ / 60 Hz
	
$230\ V_{AC}$ / 50 Hz	$264\ V_{AC}$ / 63 Hz
	

18. AC Brown-in

Output Current	No Load & Full Load
Measured Point of Output Voltage	End of PCB
Requirement	< 85 V_{AC}

Mode	$V_{BUS,SET}$ (V)	$V_{BROWN-IN}$ (V)		Requirement (V_{AC})
		0 A	3 A	
PD 3.0	5	80.4	78.6	< 85

PD 3.0 Mode : 5 V

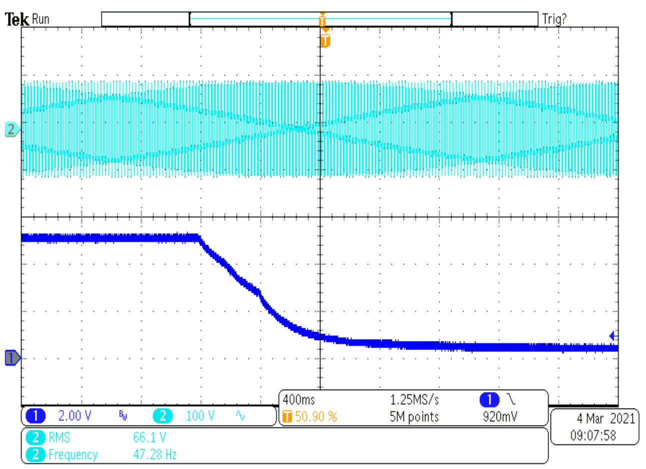
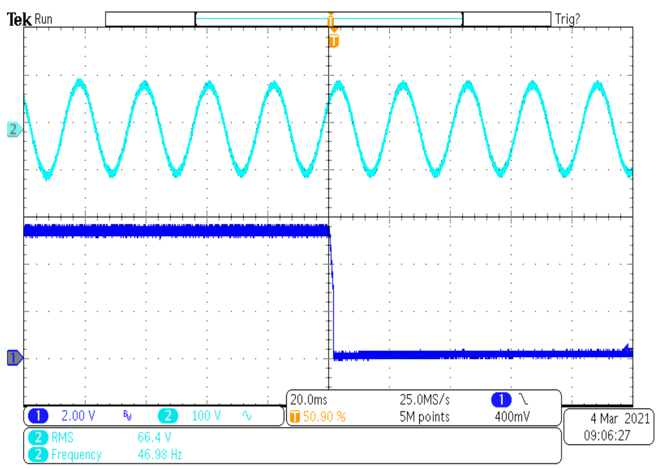
0A	3A
	

19. AC Brown-out

Output Current	No Load & Full Load
Measured Point of Output Voltage	End of PCB
Requirement	< 85 V_{AC}

Mode	$V_{BUS,SET}$ (V)	$V_{BROWN-OUT}$ (V)		Requirement (V_{AC})
		0 A	3 A	
PD 3.0	5	66.1	66.4	>65

PD 3.0 Mode : 5 V

0A	3A
	

20. Supply Voltage of IC

Input Voltage	90 V_{AC} / 47 Hz	115 V_{AC} / 60 Hz	230 V_{AC} / 50 Hz	264 V_{AC} / 63 Hz
Output Current	No Load & Full Load (5 V: 3 A / 20 V:3.25 A)			
Requirement	> V_{IN_OFF} & < V_{IN_OVP}			

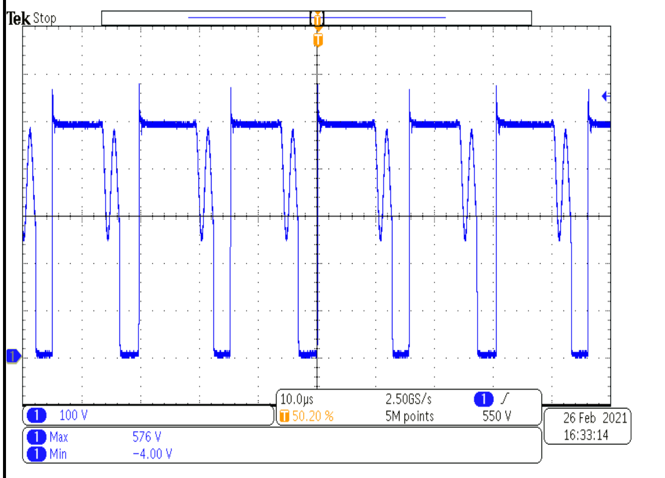
Mode	$V_{BUS,SET}$ (V)	$V_{IN,AC}$ (V / Hz)	$V_{IN,U101}$ (V)				Requirement (V)
			No Load		Full Load		
			Min.	Max.	Min.	Max.	
PD 3.0	5	90 / 47	13.3	14.9	16.1	17.3	> 8
		115 / 60	13.5	14.9	15.9	16.9	
		230 / 50	13.7	15.1	15.5	16.7	
		264 / 63	13.7	15.1	15.5	16.5	
	20	90 / 47	53.0	55.8	61.4	64.2	< 70
		115 / 60	53.0	55.8	61.0	63.4	
		230 / 50	53.0	55.8	61.0	63.4	
		264 / 63	53.4	55.8	60.6	63.0	

21. Stress on Switching Parts

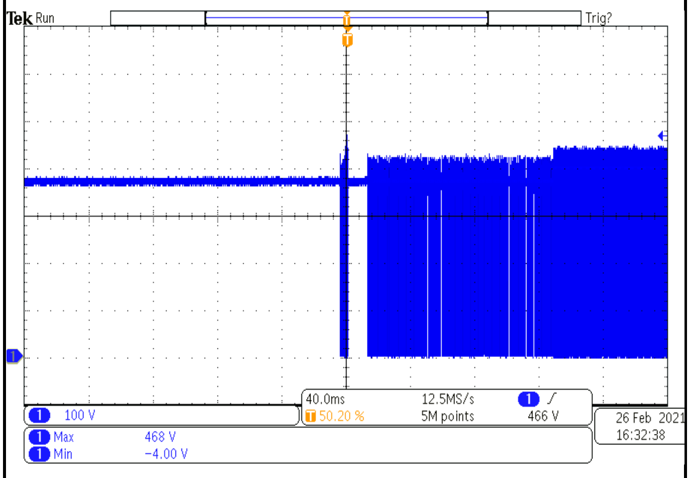
Input Voltage	**264 V_{AC} / 63 Hz**
Output Current	**Full Load (5 V: 3.0 A / 20 V: 3.25 A)**
Requirement	**Defined by Different Parts**

Location	Part No.	Mode	Condition	$V_{BUS,SET}$ (V)	I_{OUT} (A)	V_{DS} (V)	Requirement (V)
Q3	6R230P6	PD 3.0	Normal	20	3.25	576	< 615 (650 * 0.95)
			Turn-on	5	3.0	468	
			Short	20	3.25	614	
Q2	HGS080N10 AL		Normal	20	3.25	84.8	< 95 (100 * 0.95)
			Turn-on	5	3.0	70.4	
			Short	20	3.25	87	

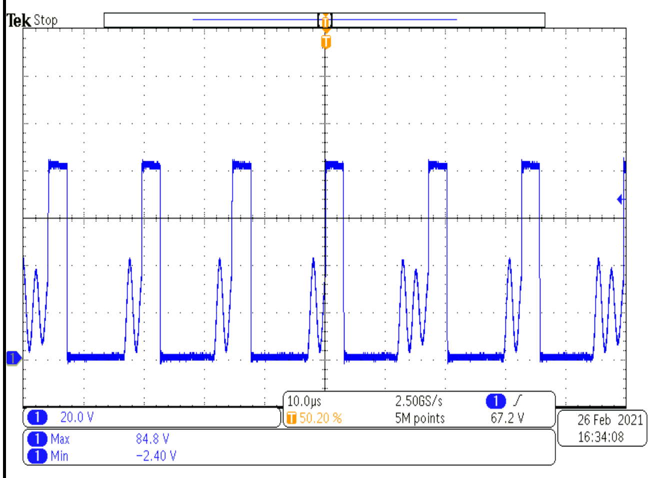
Q3_20 V / 3.25 A_ Normal



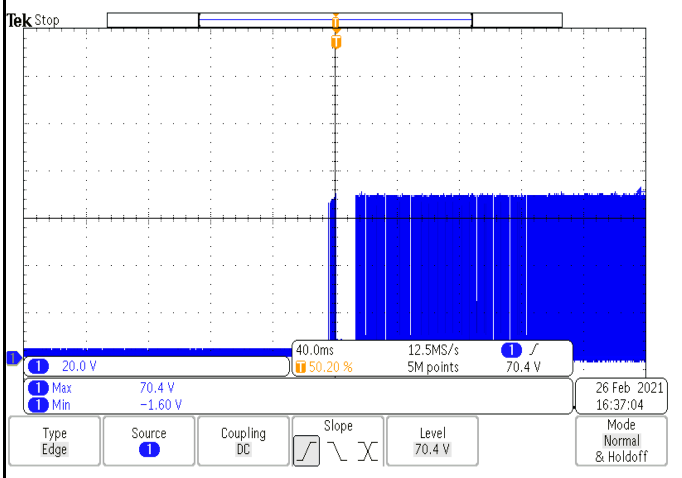
Q3_5V / 3A_Turn-on



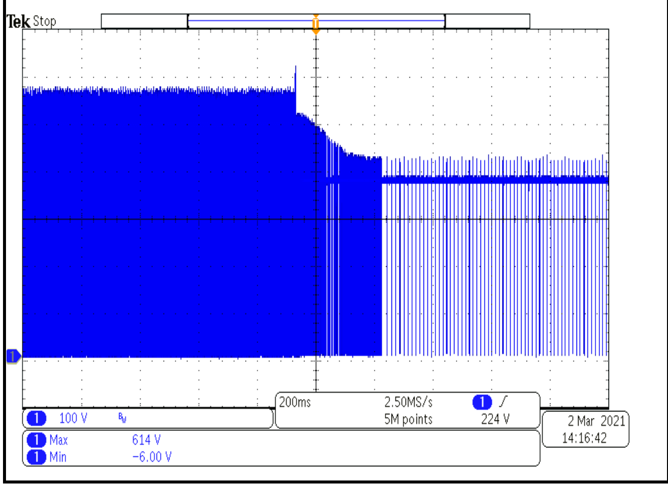
Q2_20 V / 3.25 A_ Normal



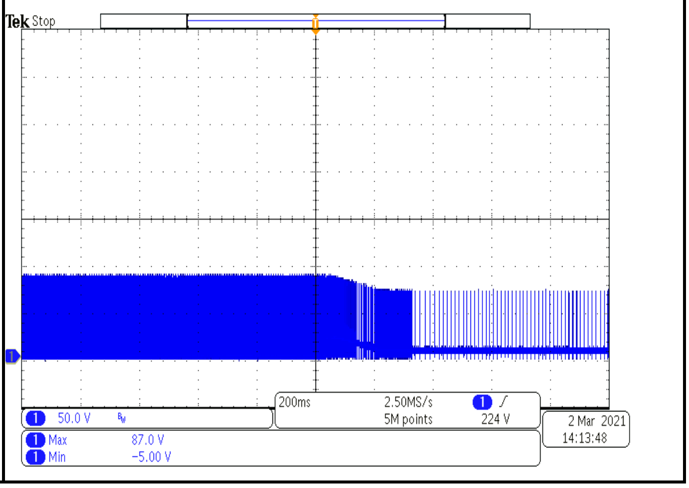
Q2_5V / 3A_Turn-on



Q3_20 V / 3.25 A_ Short



Q2_5V / 3A_Short

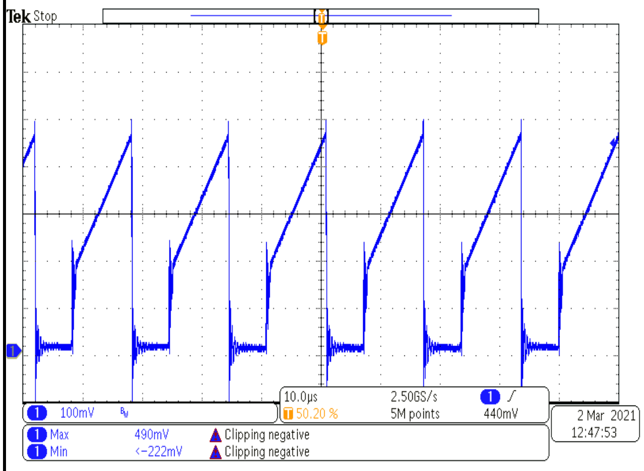


22. Flux Density on Transformer

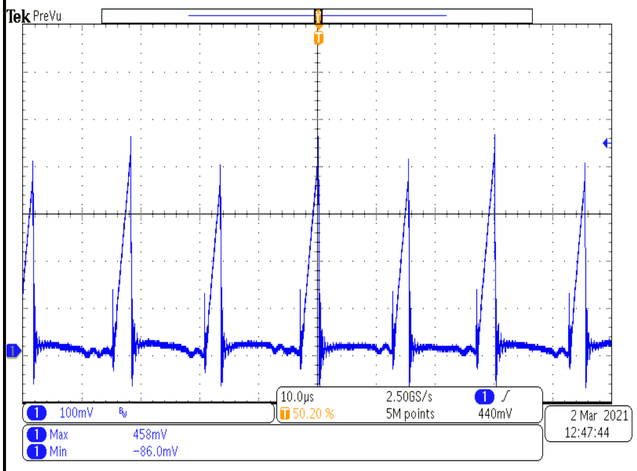
Input Voltage	90 V_{AC} / 47 Hz	264 V_{AC} / 63 Hz
Output Current	Full Load & Max	
Requirement	95 % of Rating	

Mode	$V_{BUS,SET}$ (V)	I_{OUT} (A)	$V_{IN,AC}$ (V / Hz)	$I_{P,MAX}$ (A)	B_{MAX} (G)	Requirement (G)
PD 3.0	20	3.25	90 / 47	2.11	2.943	< 3,990 (4,200 * 0.95)
			264 / 63	1.98	2.751	
		3.7	90 / 47	2.61	3.616	
			264 / 63	2.13	2.967	

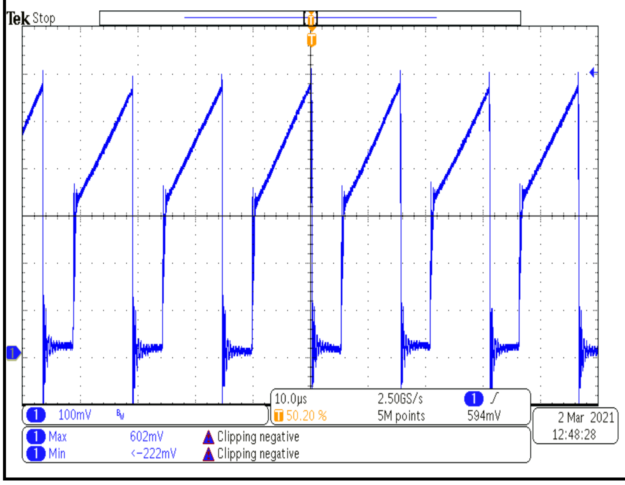
20 V / 3.25A _90 V_{AC} / 47 Hz



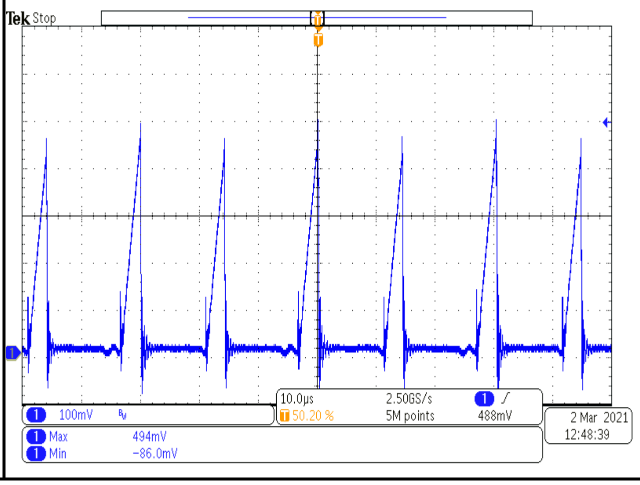
20 V / 3.25 A_264 V_{AC} / 63 Hz



20 V / 3.7 A_90 V_{AC} / 47 Hz



20 V / 3.7 A_264 V_{AC} / 63 Hz



23. EMI

Conduction

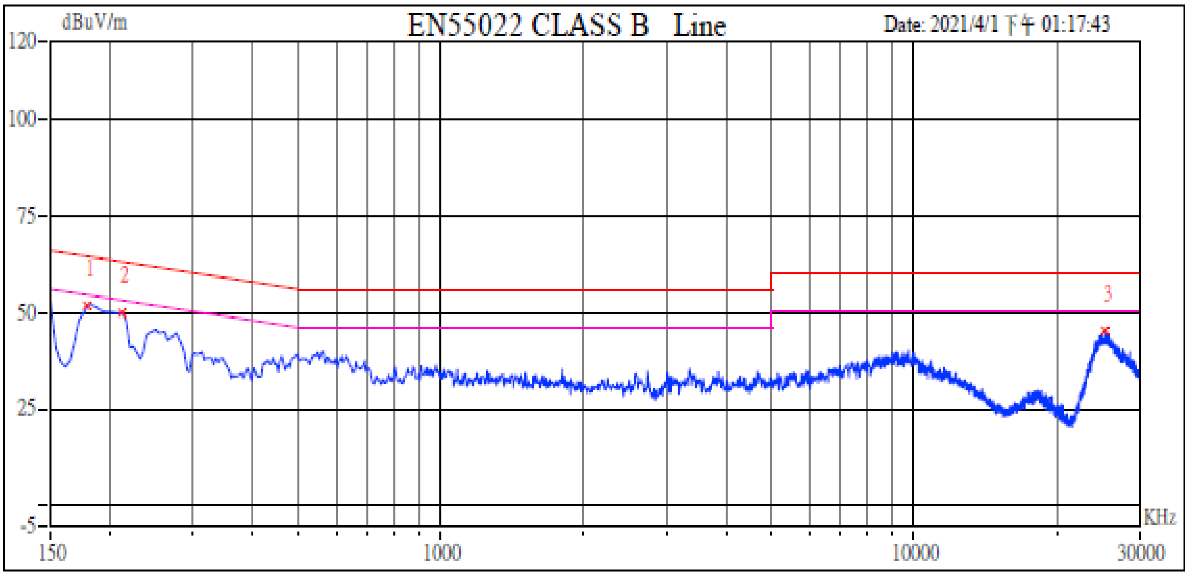
PD 3.0 Mode: 5 V / 3 A
110 V_{AC} / 60 Hz / Line

Leadtrend Technology Corp.
通嘉科技股份有限公司

Site C

Customer Name: 65W PD
Project No.: 20V 3.25A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 110V L 5V 3A

Index: 26



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	179.6593	51.89	48.23	32.77	65.15	55.15	-16.92	10.37
2	213.0261	49.86	46.07	31.24	64.20	54.20	-18.13	10.37
3	25318.6373	45.37	37.79	32.18	60.00	50.00	-17.82	12.88

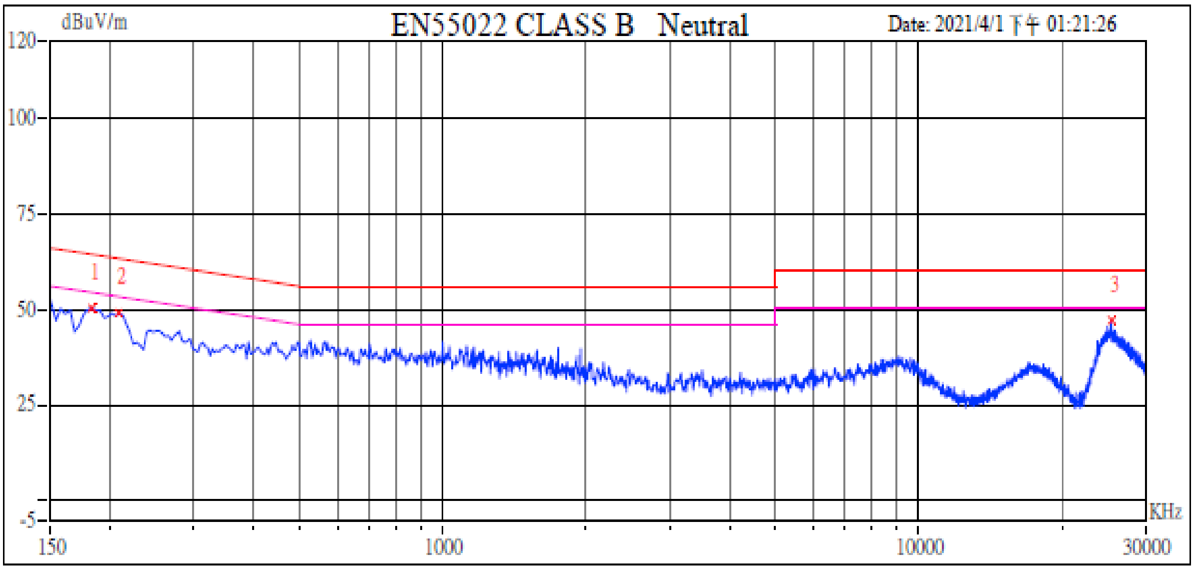
PD 3.0 Mode: 5 V / 3 A

110 V_{AC} / 60 Hz / Neutral

Leadtrend Technology Corp.
通嘉科技股份有限公司 *Site C*

Customer Name: 65W PD
Project No.: 20V 3.25A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 110V N 5V 3A

Index: 26



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	183.3667	50.43	45.66	30.57	65.05	55.05	-19.39	10.40
2	209.3186	48.93	45.02	30.95	64.31	54.31	-19.28	10.39
3	25430.8617	47.03	38.03	32.44	60.00	50.00	-17.56	13.36

PD 3.0 Mode: 5 V / 3 A

220 V_{AC} / 50 Hz / Line

Leadtrend Technology Corp.
通嘉科技股份有限公司

Site C

Customer Name: 65W PD

Project No.: 20V 3.25A

Model Name: LD5555

Engineer Name: Jason

Test Mode: 220V L 5V 3A

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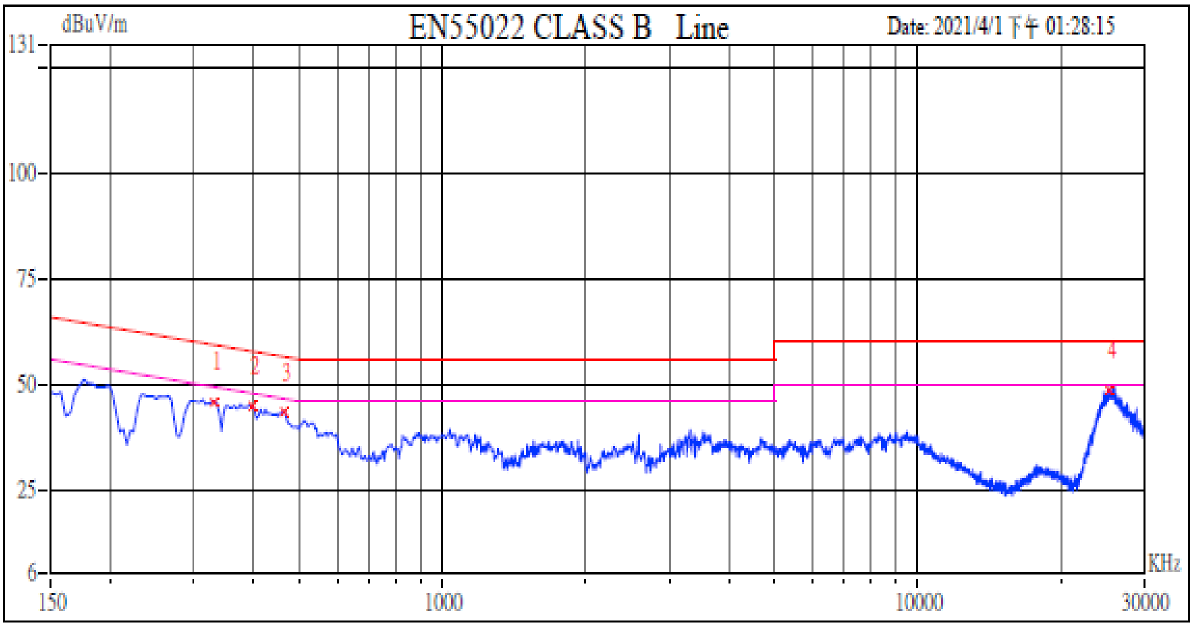


	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	331.6633	46.16	43.76	32.16	60.81	50.81	-17.05	10.40
2	398.3968	44.83	42.97	33.27	58.90	48.90	-15.63	10.41
3	465.1303	43.79	41.15	31.37	57.00	47.00	-15.62	10.40
4	25270.5411	48.57	42.55	36.91	60.00	50.00	-13.09	12.87

PD 3.0 Mode: 5 V / 3 A

220 V_{AC} / 50 Hz / Neutral

Leadtrend Technology Corp.
通嘉科技股份有限公司

Site C

Customer Name: 65W PD

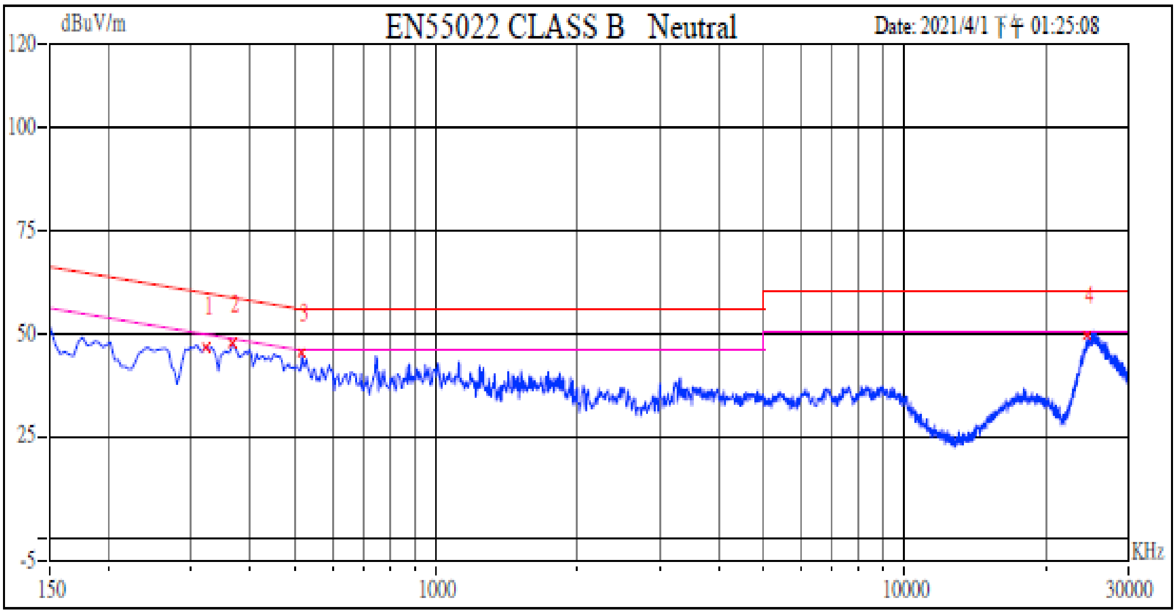
Project No.: 20V 3.25A

Model Name: LD5555

Engineer Name: Jason

Test Mode: 220V N 5V 3A

Index: 27



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	324.2485	46.68	43.48	31.56	61.02	51.02	-17.54	10.40
2	368.7375	47.44	42.57	29.58	59.75	49.75	-17.18	10.40
3	517.0341	45.16	37.79	26.26	56.00	46.00	-18.21	10.39
4	24549.0982	49.61	42.03	36.34	60.00	50.00	-13.66	13.24

PD 3.0 Mode: 9 V / 3 A

110 V_{AC} / 60 Hz / Line

Leadtrend Technology Corp.
通嘉科技股份有限公司

Site C

Customer Name: 65W PD

Project No.: 15V 3A

Model Name: LD5555

Engineer Name: Jason

Test Mode: 110V L 9V 3A

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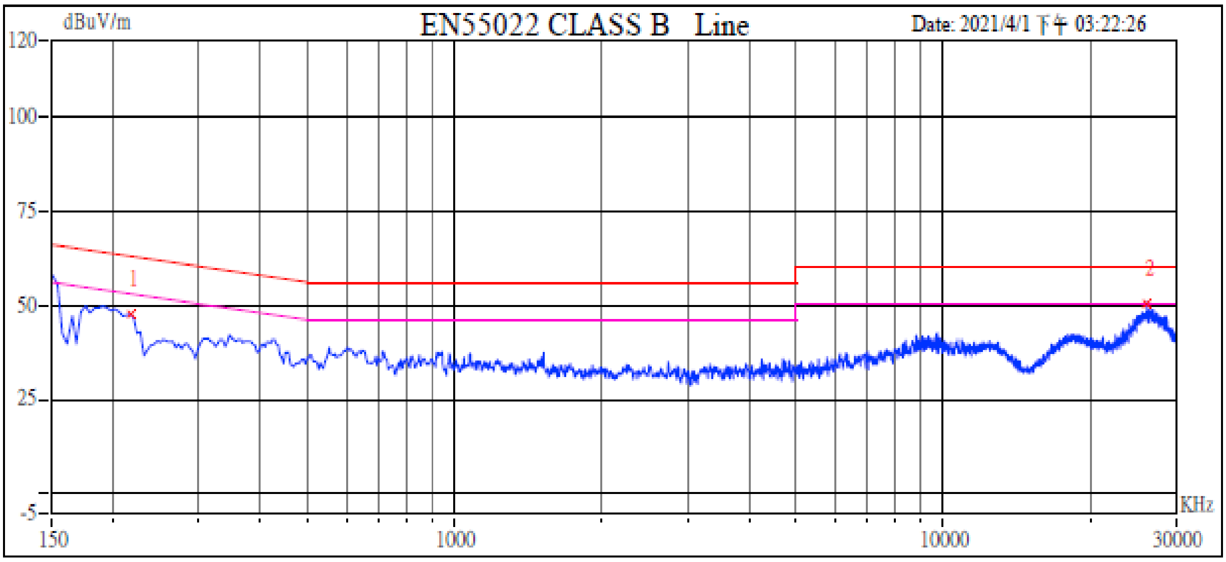


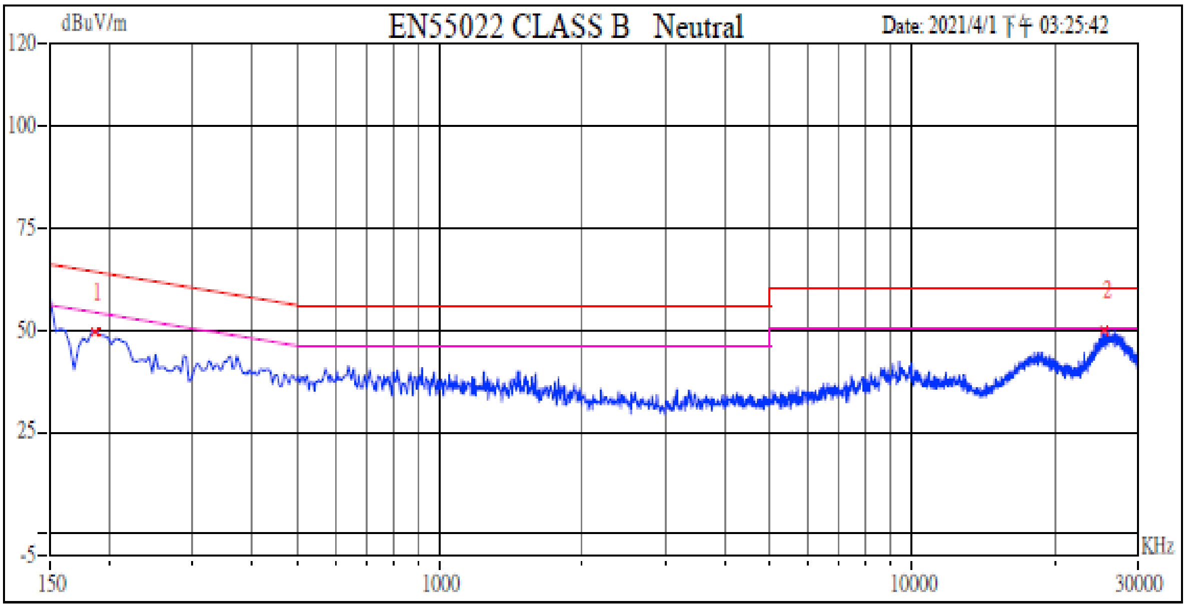
	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	216.7335	47.69	44.54	29.77	64.09	54.09	-19.56	10.37
2	26152.3046	50.59	41.82	36.42	60.00	50.00	-13.58	12.97

PD 3.0 Mode: 9 V / 3 A
110 V_{AC} / 60 Hz / Neutral

Leadtrend Technology Corp.
通嘉科技股份有限公司 *Site C*

Customer Name: 65W PD
Project No.: 15V 3A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 110V N 9V 3A

Index: 33



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	187.0741	49.46	47.02	31.71	64.94	54.94	-17.92	10.40
2	25430.8617	50.00	41.78	36.25	60.00	50.00	-13.75	13.36

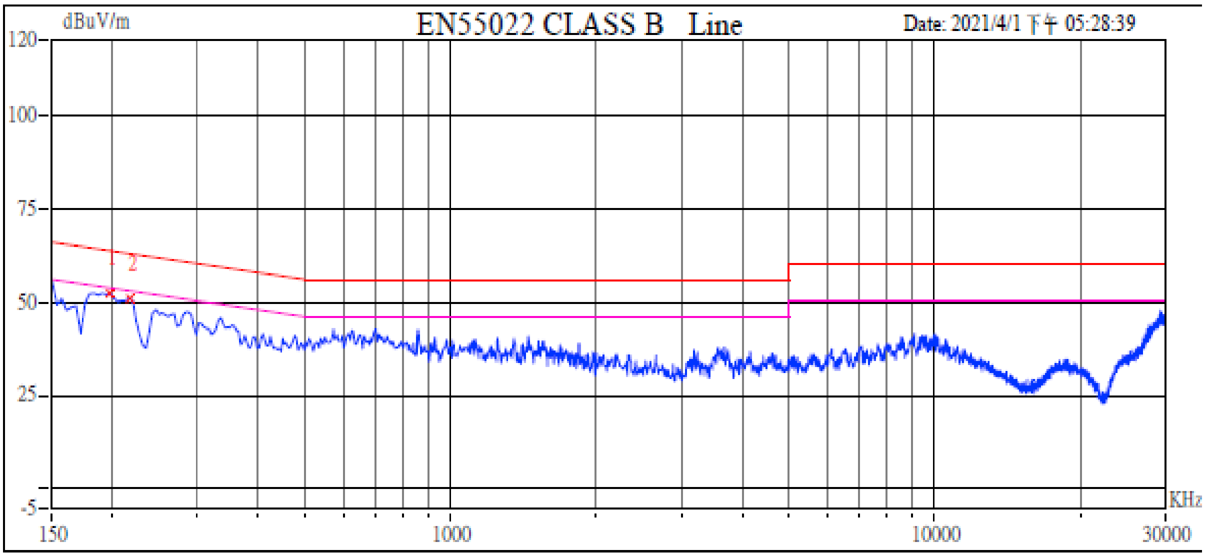
PD 3.0 Mode: 9 V / 3 A

220 V_{AC} / 60 Hz / Line

Leadtrend Technology Corp.
通嘉科技股份有限公司
Site C

Customer Name: 65W PD
Project No.: 15V 3A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 220V L 9V 3A

Index: 36



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	198.1964	52.35	46.34	30.78	64.62	54.62	-18.28	10.36
2	216.7335	50.97	37.51	26.92	64.09	54.09	-26.59	10.37

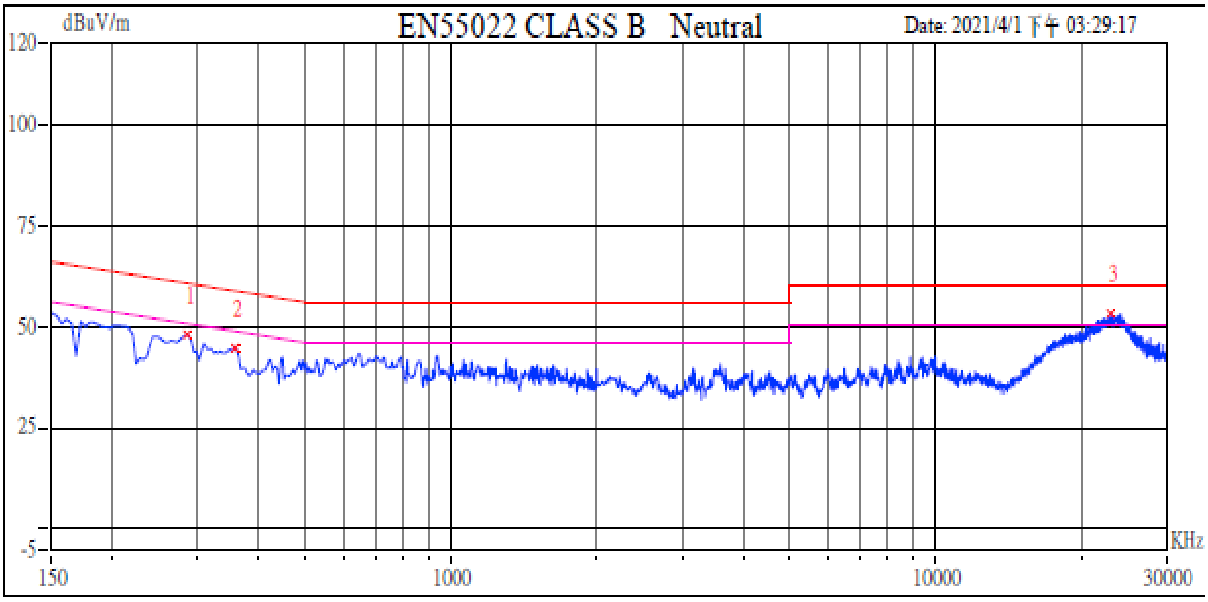
PD 3.0 Mode: 9 V / 3 A

220 V_{AC} / 60 Hz / Neutral

Leadtrend Technology Corp.
通嘉科技股份有限公司
Site C

Customer Name: 65W PD
Project No.: 15V 3A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 220V N 9V 3A

Index: 34



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	287.1743	47.98	44.56	32.84	62.08	52.08	-17.52	10.40
2	357.6152	45.03	40.98	29.52	60.07	50.07	-19.09	10.40
3	22993.9880	53.43	45.57	40.36	60.00	50.00	-9.64	13.02

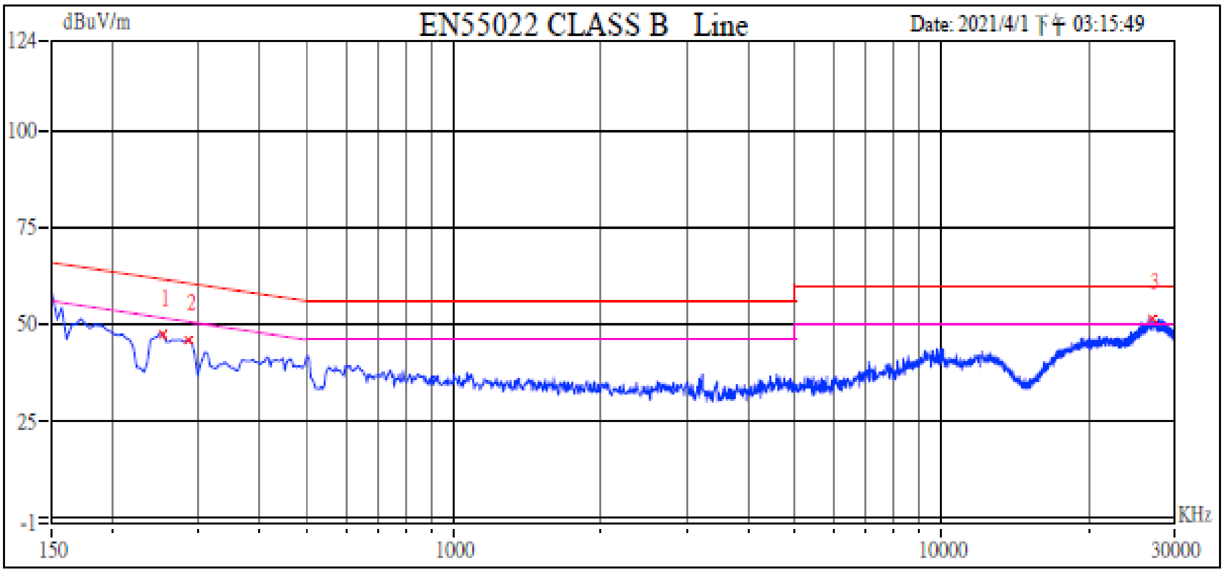
PD 3.0 Mode: 15V / 3A

110 V_{AC} / 60 Hz / Line

Leadtrend Technology Corp.
通嘉科技股份有限公司
Site C

Customer Name: 65W PD
Project No.: 15V 3A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 110V L 15V 3A

Index: 32



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	253.8076	47.55	42.94	28.68	63.03	53.03	-20.09	10.38
2	287.1743	46.01	42.74	29.19	62.08	52.08	-19.34	10.39
3	26905.8116	51.71	45.20	39.66	60.00	50.00	-10.34	13.05

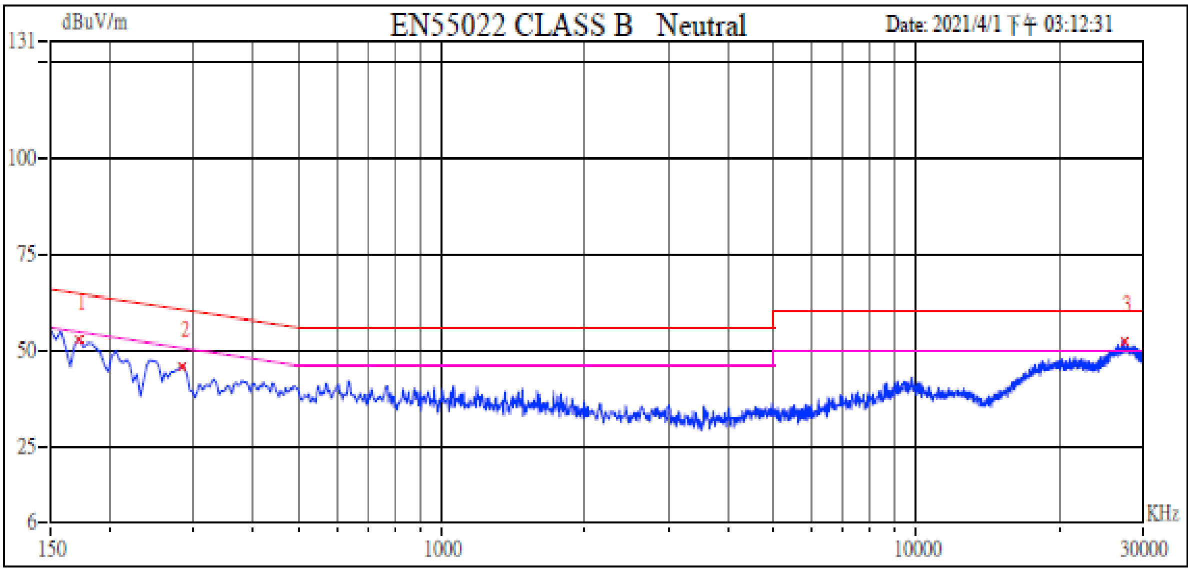
PD 3.0 Mode: 15V / 3A

110 V_{AC} / 60 Hz / Neutral

Leadtrend Technology Corp.
通嘉科技股份有限公司
Site C

Customer Name: 65W PD
Project No.: 15V 3A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 110V N 15V 3A

Index: 32



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	172.2445	53.13	40.00	26.23	65.36	55.36	-25.37	10.41
2	283.4669	46.14	42.14	31.07	62.19	52.19	-20.05	10.40
3	27482.9659	52.34	45.14	39.76	60.00	50.00	-10.24	13.65

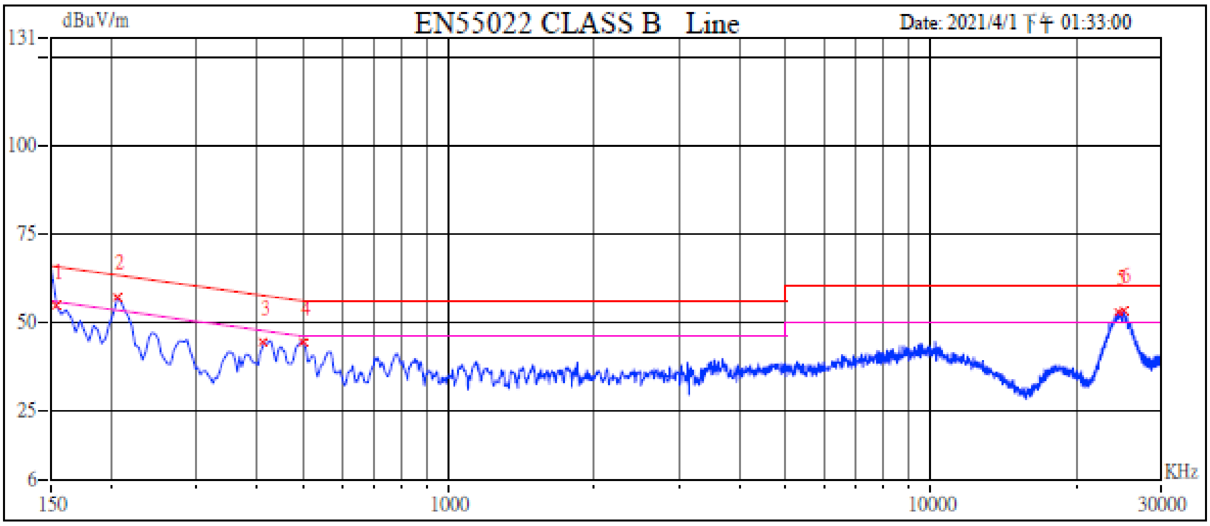
PD 3.0 Mode: 15 V / 3 A

220 V_{AC} / 60 Hz / Line

Leadtrend Technology Corp.
通嘉科技股份有限公司
Site C

Customer Name: 65W PD
Project No.: 20V 3.25A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 220V L 15V 3A

Index: 28



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	153.7074	54.64	19.82	16.10	65.89	55.89	-39.80	10.38
2	205.6112	57.02	50.24	40.62	64.41	54.41	-13.79	10.36
3	413.2265	44.30	41.94	37.08	58.48	48.48	-11.40	10.41
4	498.4970	44.57	42.15	32.48	56.04	46.04	-13.56	10.40
5	24484.9699	52.85	46.51	41.31	60.00	50.00	-8.69	12.78
6	25094.1884	53.52	46.27	40.96	60.00	50.00	-9.04	12.85

PD 3.0 Mode: 15V / 3 A

220 V_{AC} / 60 Hz / Neutral

Leadtrend Technology Corp.
通嘉科技股份有限公司

Site C

Customer Name: 65W PD

Project No.: 15V 3A

Model Name: LD5555

Engineer Name: Jason

Test Mode: 220V N 15V 3A

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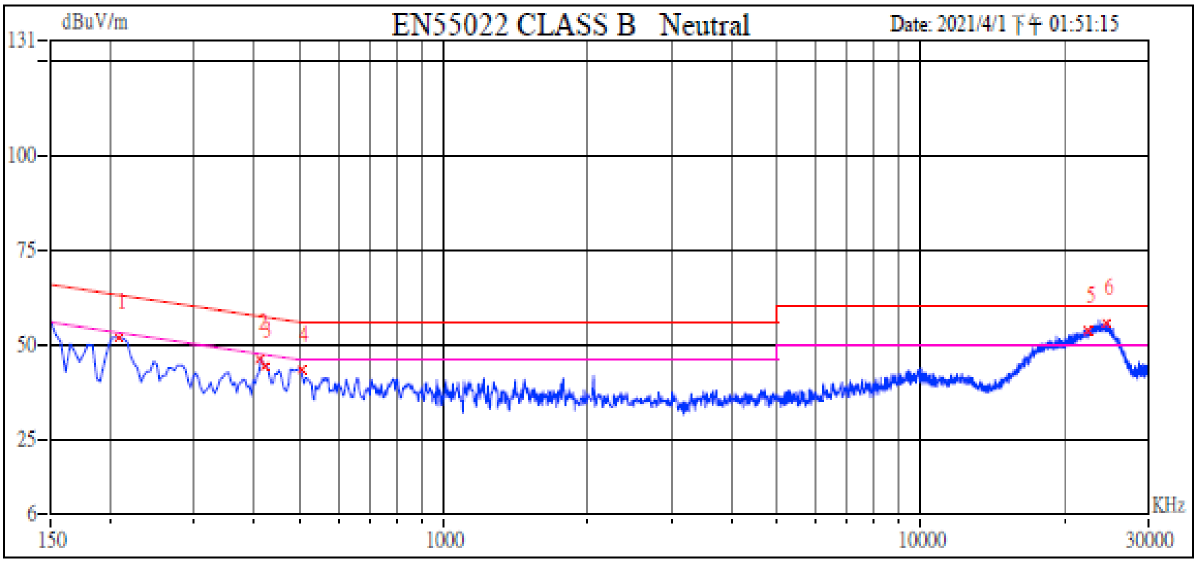


	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	209.3186	51.98	49.19	40.62	64.31	54.31	-13.68	10.39
2	413.2265	46.64	41.91	33.91	58.48	48.48	-14.57	10.40
3	420.6413	44.76	42.42	31.34	58.27	48.27	-15.85	10.40
4	502.2044	43.63	41.99	30.70	56.00	46.00	-14.01	10.39
5	22513.0261	54.13	48.49	43.23	60.00	50.00	-6.77	12.96
6	24565.1303	55.82	49.24	43.96	60.00	50.00	-6.04	13.24

PD 3.0 Mode: 20V / 3.25 A

110 V_{AC} / 60 Hz / LINE

Leadtrend Technology Corp.
通嘉科技股份有限公司
Site C

Customer Name: 65W PD

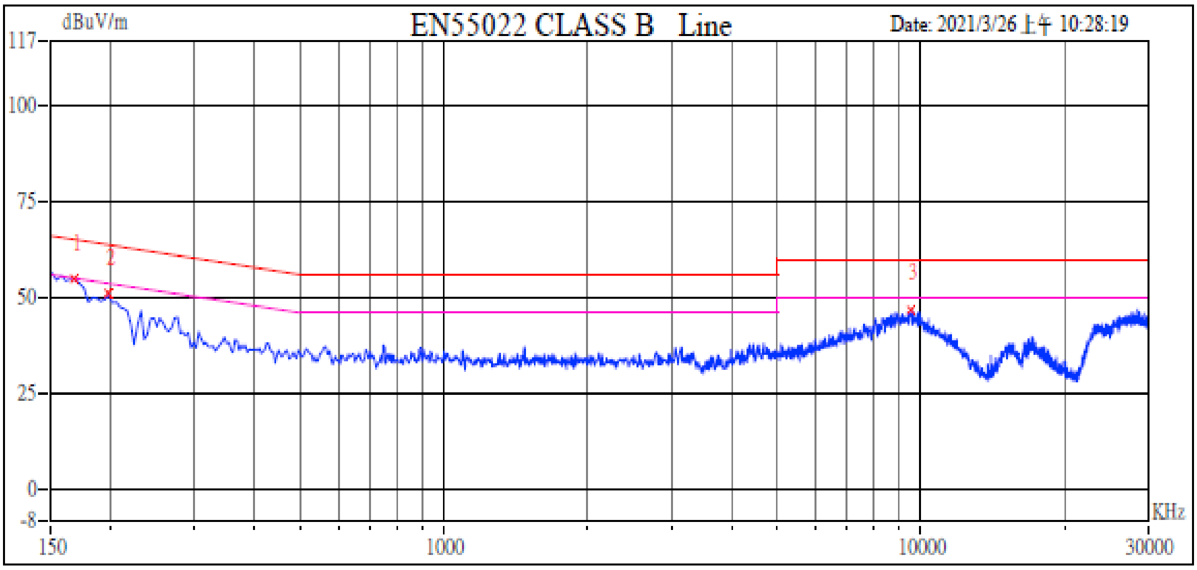
Project No.: 20V 3.25A

Model Name: LD5555

Engineer Name: Jason

Test Mode: 110V L 20V 3.25A

Index: 25



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	168.5371	54.69	40.53	26.05	65.47	55.47	-24.94	10.37
2	198.1964	50.93	43.99	28.58	64.62	54.62	-20.63	10.36
3	9543.0862	46.82	38.12	32.96	60.00	50.00	-17.04	11.16

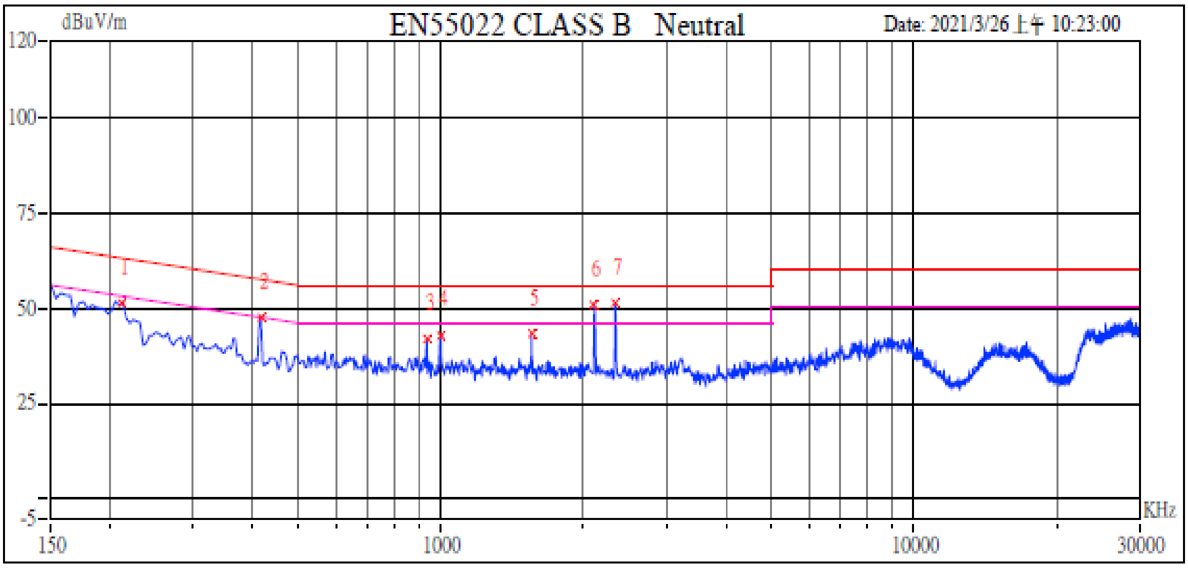
PD 3.0 Mode: 20V / 3.25 A

110 V_{AC} / 60 Hz / Neutral

Leadtrend Technology Corp.
通嘉科技股份有限公司 *Site C*

Customer Name: 65W PD
Project No.: 20V 3.25A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 110V N 20V 3.25A

Index: 25



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	213.0261	51.61	44.19	29.66	64.20	54.20	-20.01	10.39
2	416.9339	47.78	30.99	22.45	58.37	48.37	-25.93	10.40
3	935.9719	41.82	28.64	21.13	56.00	46.00	-24.87	10.42
4	998.9980	42.90	30.17	21.68	56.00	46.00	-24.32	10.42
5	1555.1102	43.25	28.36	21.08	56.00	46.00	-24.92	10.46
6	2112.2244	50.93	26.77	19.77	56.00	46.00	-26.23	10.51
7	2336.6733	51.57	27.50	19.87	56.00	46.00	-26.13	10.52

Conduction

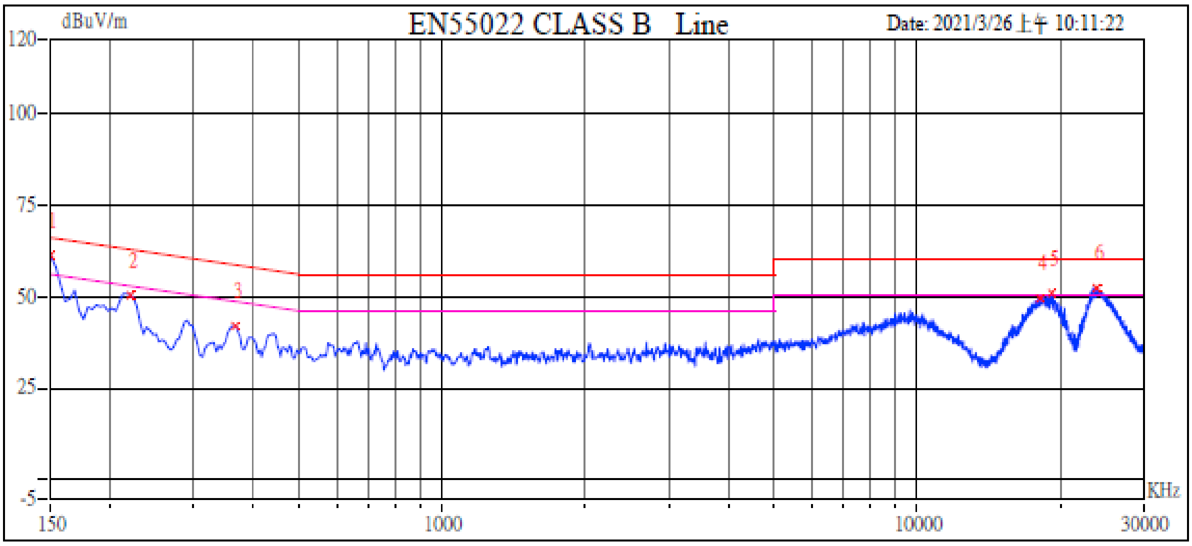
PD 3.0 Mode: 20V / 3.25 A

220 V_{AC} / 60 Hz / LINE

Leadtrend Technology Corp.
通嘉科技股份有限公司
Site C

Customer Name: 65W PD
Project No.: 20V 3.25A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 220V L 20V 3.25A

Index: 23



	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	150.0000	61.34	40.66	37.12	66.00	56.00	-18.88	10.38
2	220.4409	50.55	47.99	37.39	63.99	53.99	-16.00	10.37
3	368.7375	41.93	38.40	34.46	59.75	49.75	-15.29	10.41
4	18216.4329	49.66	42.92	36.98	60.00	50.00	-13.02	12.08
5	19162.3246	50.82	42.54	36.17	60.00	50.00	-13.83	12.18
6	24020.0401	52.10	46.30	40.78	60.00	50.00	-9.22	12.73

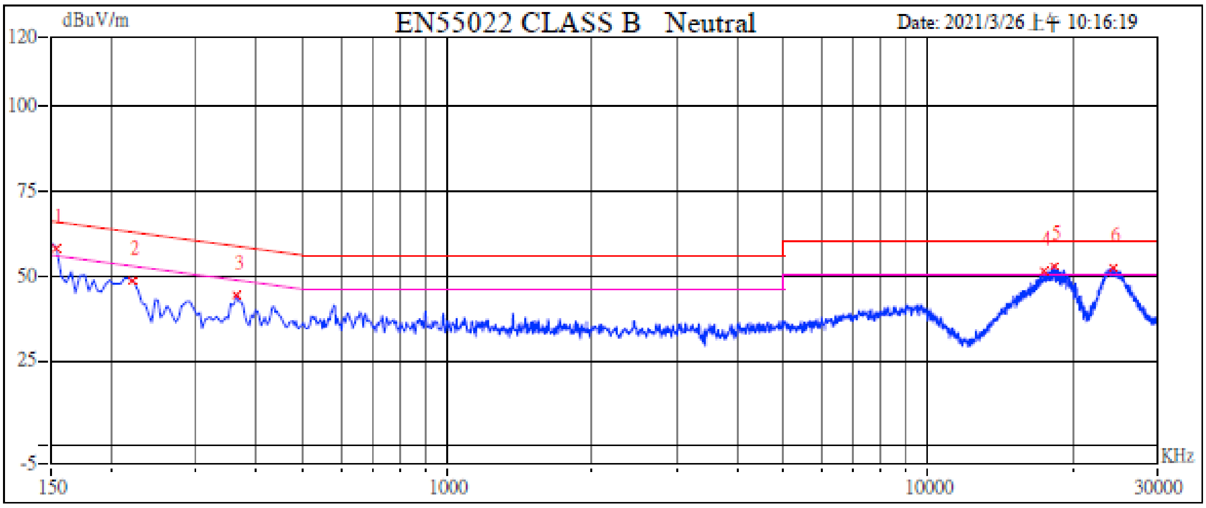
PD 3.0 Mode: 20V / 3.25 A

220 V_{AC} / 60 Hz / Neutral

Leadtrend Technology Corp.
通嘉科技股份有限公司
Site C

Customer Name: 65W PD
Project No.: 20V 3.25A
Model Name: LD5555
Engineer Name: Jason
Test Mode: 220V N 20V 3.25A

Index: 23

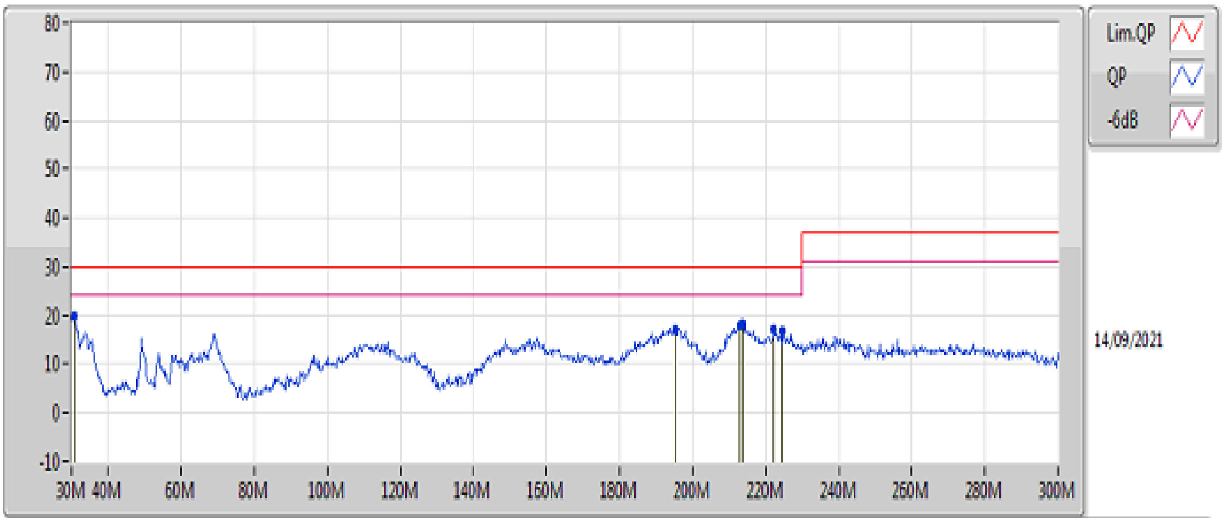


	Freq(KHz)	Peak Amptd(dBuV)	QP Amptd(dBuV)	Avg Amptd(dBuV)	QP Limit(dBuV)	Avg Limit(dBuV)	Margin(dB)	Factor(dB)
1	153.7074	57.98	38.68	35.60	65.89	55.89	-20.30	10.42
2	220.4409	48.76	46.62	36.69	63.99	53.99	-17.30	10.39
3	365.0301	44.37	38.38	32.42	59.86	49.86	-17.44	10.40
4	17430.8617	51.58	43.76	37.92	60.00	50.00	-12.08	12.28
5	18328.6573	52.93	44.36	38.18	60.00	50.00	-11.82	12.39
6	24404.8096	52.27	45.91	40.59	60.00	50.00	-9.41	13.22

Radiation:

PD 3.0 Mode: 5 V / 3 A
110 V_{AC} / 60 Hz / Vertical

Radiated Emissions below 1GHz_Mode 2



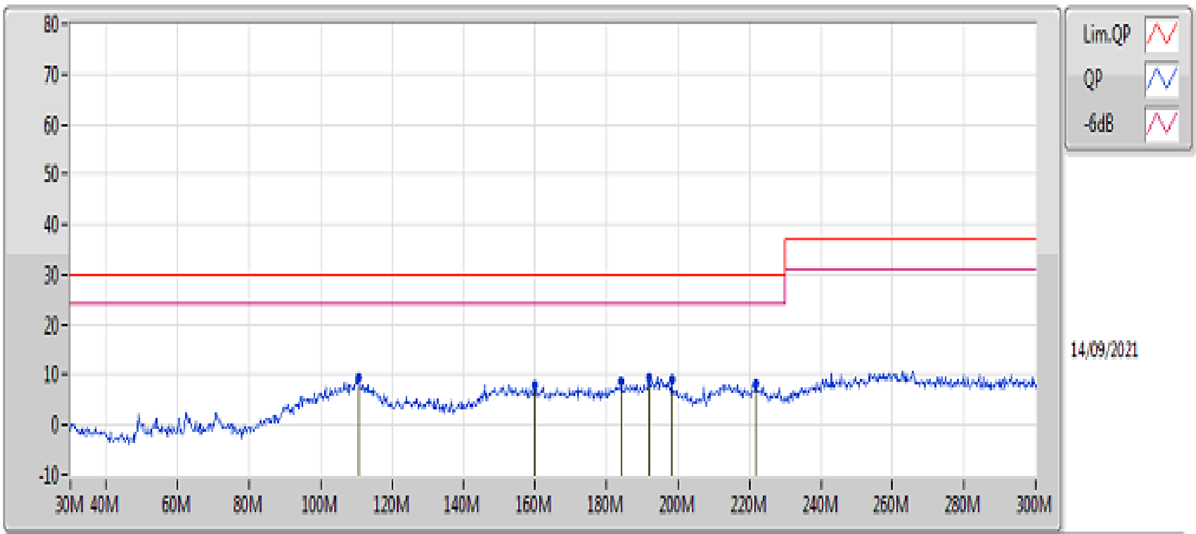
EUT Z
Power AC110V/60Hz
05-M-E-2
PD65W 5V 3A,add L1 C24!22p
22

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30.54M	20.06	30.00	-9.94	-21.91	10	Vertical	185	1.00	"Worst"	41.97	23.91	0.41	31.50
PK	195.24M	17.09	30.00	-12.91	-21.73	10	Vertical	196	1.00	-	38.82	14.89	1.65	31.98
PK	212.79M	18.06	30.00	-11.94	-19.34	10	Vertical	188	1.00	-	37.40	14.72	1.75	32.00
PK	213.6M	18.38	30.00	-11.62	-19.43	10	Vertical	172	1.00	-	37.81	14.71	1.75	32.00
PK	222.24M	16.97	30.00	-13.03	-19.46	10	Vertical	172	1.00	-	36.43	15.08	1.79	32.00
PK	224.67M	16.96	30.00	-13.04	-19.02	10	Vertical	172	1.00	-	35.98	15.27	1.80	32.00

PD 3.0 Mode: 5 V / 3 A

110 V_{AC} / 60 Hz / Horizontal

Radiated Emissions below 1GHz_Mode 2



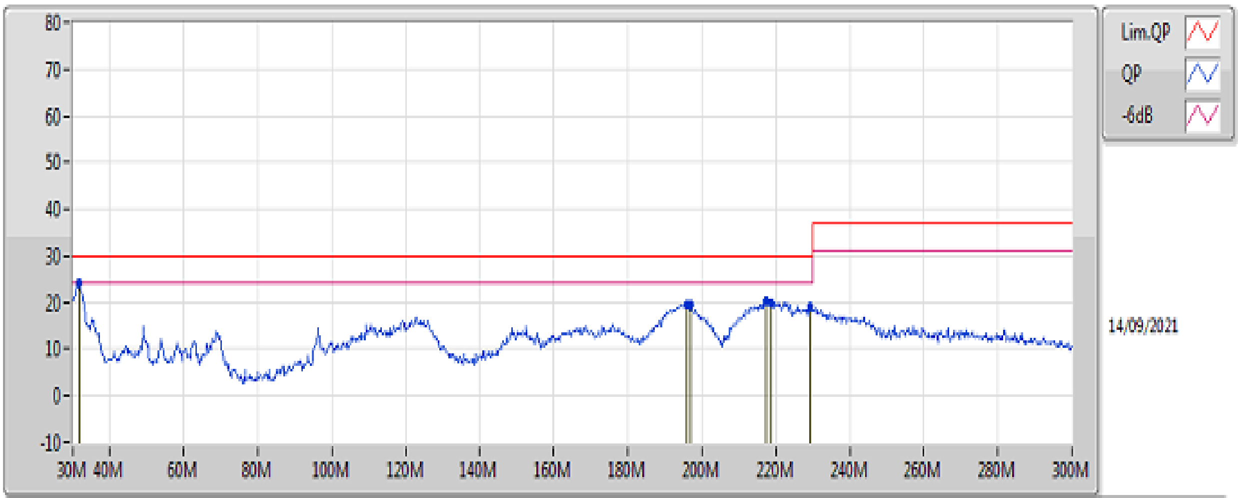
EUT Z
Power AC110V/60Hz
05-M-E-2
PD65W 5V 3A,add L1 C24!22p
23

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	110.46M	9.22	30.00	-20.78	-22.58	10	Horizontal	0	1.00	-	31.80	17.63	1.20	31.91
PK	159.87M	8.03	30.00	-21.97	-25.07	10	Horizontal	65	1.00	-	33.10	15.85	1.40	31.96
PK	184.17M	8.74	30.00	-21.26	-27.28	10	Horizontal	146	1.00	-	36.02	14.82	1.54	31.97
PK	191.73M	9.49	30.00	-20.51	-26.88	10	Horizontal	130	1.00	"Worst"	36.37	14.84	1.62	31.98
PK	198.21M	8.92	30.00	-21.08	-26.44	10	Horizontal	243	1.00	-	35.36	14.97	1.68	31.99
PK	221.7M	8.30	30.00	-21.70	-25.49	10	Horizontal	18	1.00	-	33.79	15.04	1.79	32.00

PD 3.0 Mode: 5 V / 3 A

220 V_{AC} / 50 Hz / Vertical

Radiated Emissions below 1GHz_Mode 2



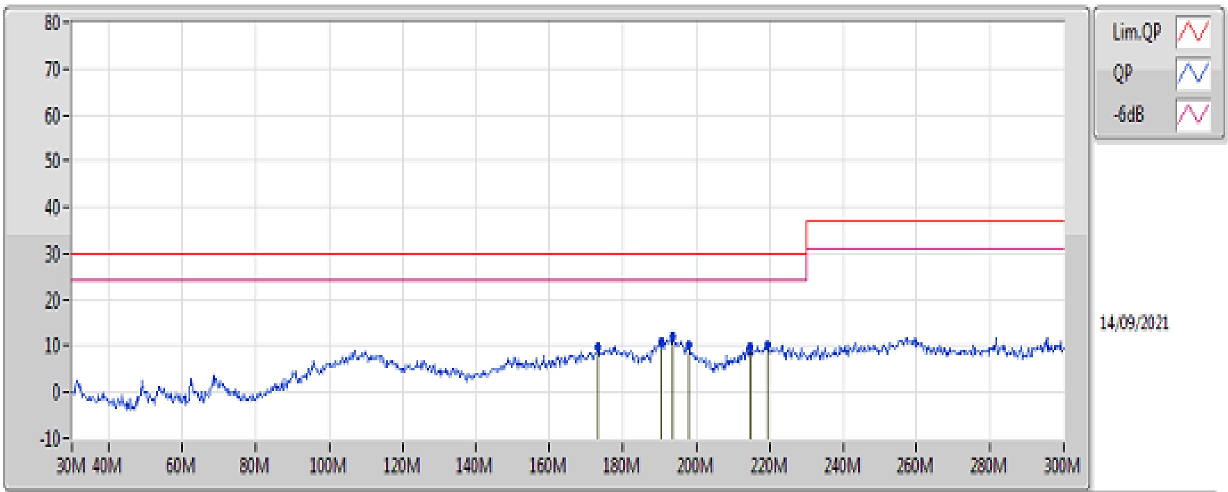
EUT Z
Power AC220V/50Hz
05-M-E-2
PD65W 5V 3A,add L1 C24!22p
24

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	31.62M	24.32	30.00	-5.68	-22.19	10	Vertical	143	1.00	"Worst"	46.51	23.23	0.43	31.52
PK	196.05M	19.44	30.00	-10.56	-21.68	10	Vertical	359	1.00	-	41.12	14.89	1.66	31.98
PK	197.13M	19.30	30.00	-10.70	-21.58	10	Vertical	181	1.00	-	40.88	14.94	1.67	31.99
PK	217.38M	20.31	30.00	-9.69	-19.72	10	Vertical	161	1.00	-	40.03	14.79	1.77	32.00
PK	218.73M	20.03	30.00	-9.97	-19.80	10	Vertical	169	1.00	-	39.83	14.85	1.77	32.00
PK	229.26M	19.19	30.00	-10.81	-18.06	10	Vertical	179	1.00	-	37.25	15.76	1.82	32.00

PD 3.0 Mode: 5 V / 3 A

220 V_{AC} / 50 Hz / Horizontal

Radiated Emissions below 1GHz_Mode 2



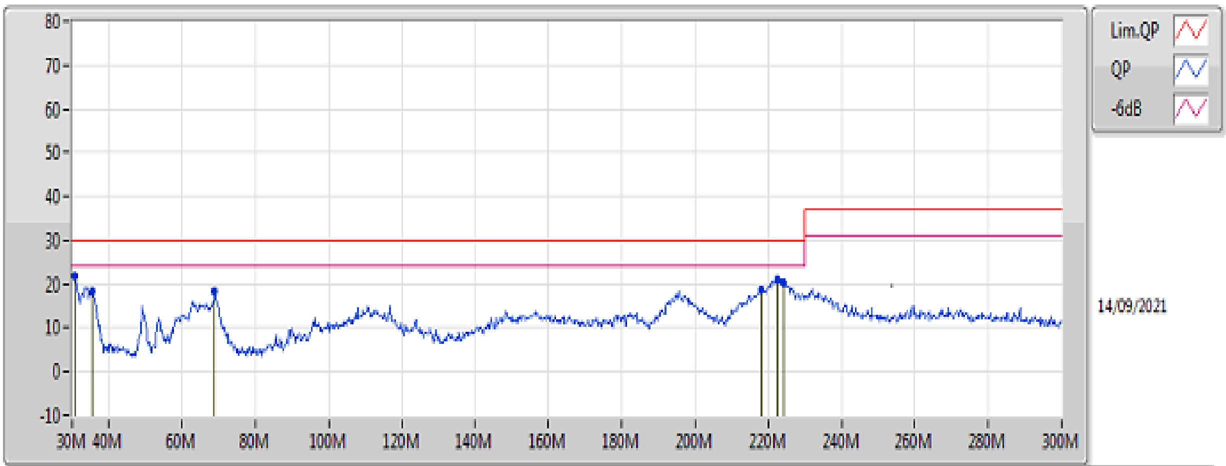
EUT Z
Power AC220V/50Hz
05-M-E-2
PD65W 5V 3A,add L1 C24!22p
25

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	173.1M	9.92	30.00	-20.08	-26.42	10	Horizontal	0	1.00	-	36.34	15.26	1.47	31.96
PK	190.65M	10.80	30.00	-19.20	-26.95	10	Horizontal	300	1.00	-	37.75	14.82	1.61	31.98
PK	193.62M	11.97	30.00	-18.03	-26.77	10	Horizontal	147	1.00	"Worst"	38.74	14.86	1.64	31.98
PK	197.94M	9.99	30.00	-20.01	-26.45	10	Horizontal	147	1.00	-	36.44	14.97	1.68	31.99
PK	214.68M	9.87	30.00	-20.13	-25.63	10	Horizontal	228	1.00	-	35.50	14.69	1.76	32.00
PK	219.54M	10.11	30.00	-19.89	-25.51	10	Horizontal	204	1.00	-	35.62	14.89	1.78	32.00

PD 3.0 Mode: 9 V / 3 A

110 V_{AC} / 60 Hz / Vertical

Radiated Emissions below 1GHz_Mode 2

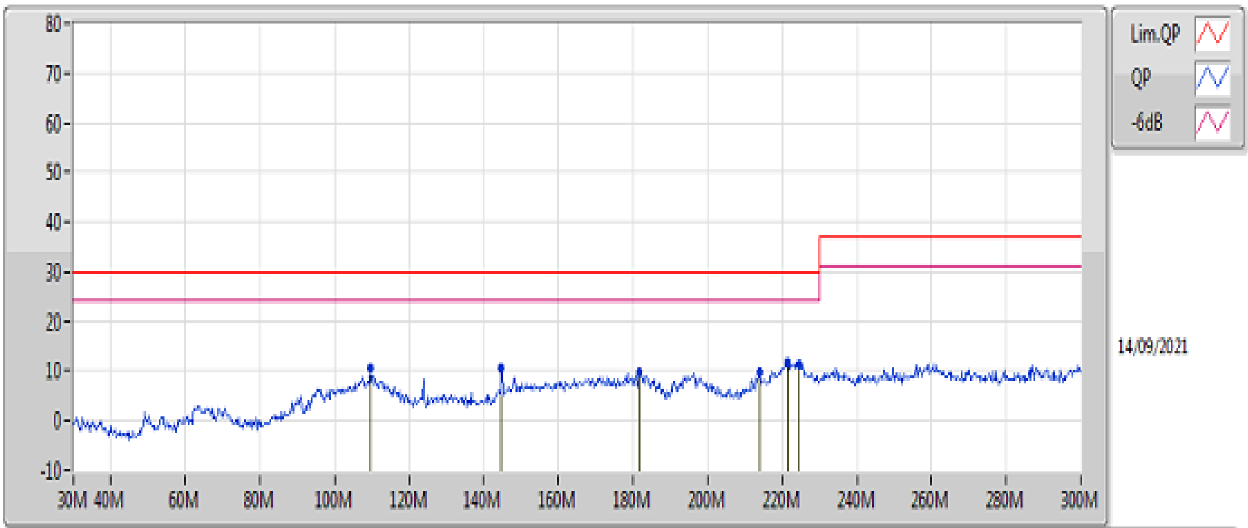


EUT Z
Power AC110V/60Hz
05-M-E-2
PD65W 9V 3A,add L1 C24!22p
18

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30.54M	21.95	30.00	-8.05	-21.91	10	Vertical	177	1.00	"Worst"	43.86	23.91	0.41	31.50
PK	35.4M	18.42	30.00	-11.58	-23.07	10	Vertical	161	1.00	-	41.49	21.21	0.51	31.60
PK	68.88M	18.38	30.00	-11.62	-25.25	10	Vertical	13	1.00	-	43.63	12.15	0.80	31.89
PK	218.19M	18.83	30.00	-11.17	-19.76	10	Vertical	195	1.00	-	38.59	14.83	1.77	32.00
PK	222.51M	21.04	30.00	-8.96	-19.40	10	Vertical	195	1.00	-	40.44	15.11	1.79	32.00
PK	224.13M	20.11	30.00	-9.89	-19.12	10	Vertical	179	1.00	-	39.23	15.23	1.80	32.00

PD 3.0 Mode: 9 V / 3 A
110 V_{AC} / 60 Hz / Horizontal

Radiated Emissions below 1GHz_Mode 2



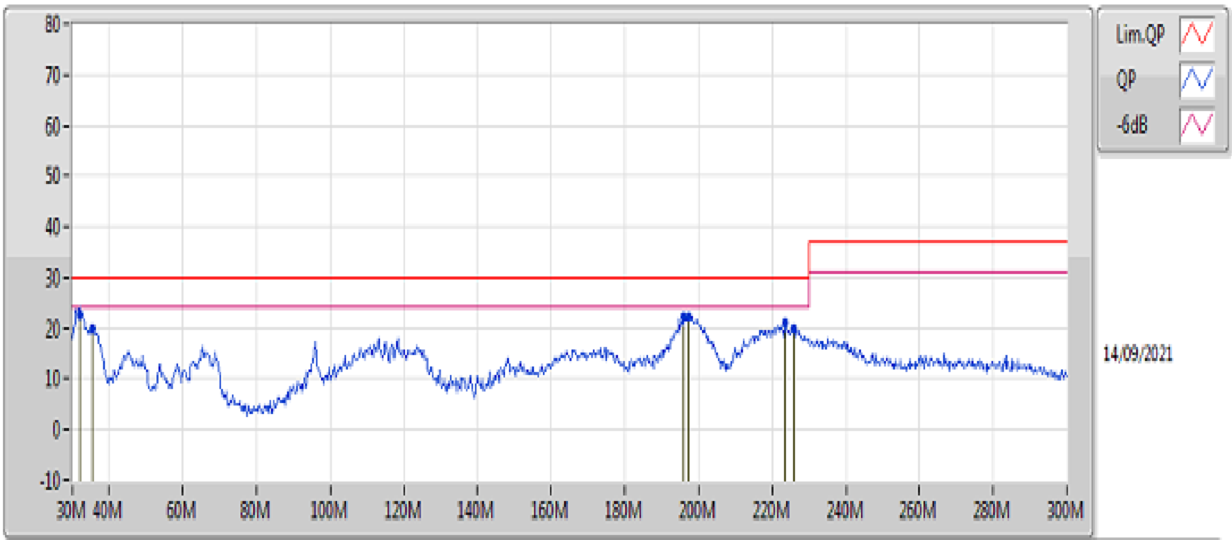
EUT Z
Power AC110V/60Hz
05-M-E-2
PD65W 9V 3A,add L1 C24!22p
19

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	109.65M	10.68	30.00	-19.32	-22.45	10	Horizontal	80	1.00	-	33.13	17.57	1.20	31.90
PK	144.75M	10.54	30.00	-19.46	-25.56	10	Horizontal	2	1.00	-	36.10	16.54	1.32	31.96
PK	181.74M	9.83	30.00	-20.17	-27.32	10	Horizontal	138	1.00	-	37.15	14.89	1.52	31.96
PK	213.87M	9.82	30.00	-20.18	-25.60	10	Horizontal	236	1.00	-	35.42	14.70	1.76	32.00
PK	221.43M	11.71	30.00	-18.29	-25.49	10	Horizontal	67	1.00	"Worst"	37.20	15.02	1.79	32.00
PK	224.4M	11.29	30.00	-18.71	-25.48	10	Horizontal	196	1.00	-	36.77	15.25	1.80	32.00

PD 3.0 Mode: 9 V / 3 A

220 V_{AC} / 50 Hz / Vertical

Radiated Emissions below 1GHz_Mode 2



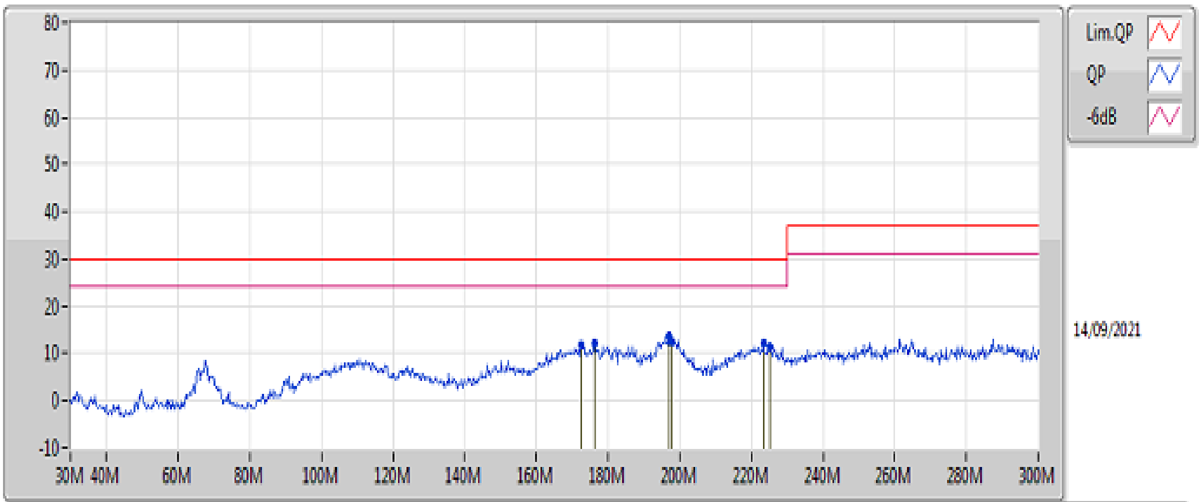
EUT Z
Power AC220V/50Hz
05-M-E-2
PD65W 9V 3A,add L1 C24!22p
20

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	31.89M	22.72	30.00	-7.28	-22.28	10	Vertical	282	1.00	"Worst"	45.00	23.04	0.44	31.53
PK	35.4M	19.98	30.00	-10.02	-23.07	10	Vertical	177	1.00	-	43.05	21.21	0.51	31.60
PK	196.05M	22.22	30.00	-7.78	-21.68	10	Vertical	349	1.00	-	43.90	14.89	1.66	31.98
PK	197.4M	22.30	30.00	-7.70	-21.56	10	Vertical	188	1.00	-	43.86	14.95	1.67	31.99
PK	223.32M	21.20	30.00	-8.80	-19.26	10	Vertical	187	1.00	-	40.46	15.17	1.79	32.00
PK	225.75M	19.73	30.00	-10.27	-18.81	10	Vertical	179	1.00	-	38.54	15.38	1.80	32.00

PD 3.0 Mode: 9 V / 3 A

220 V_{AC} / 50 Hz / Horizontal

Radiated Emissions below 1GHz_Mode 2



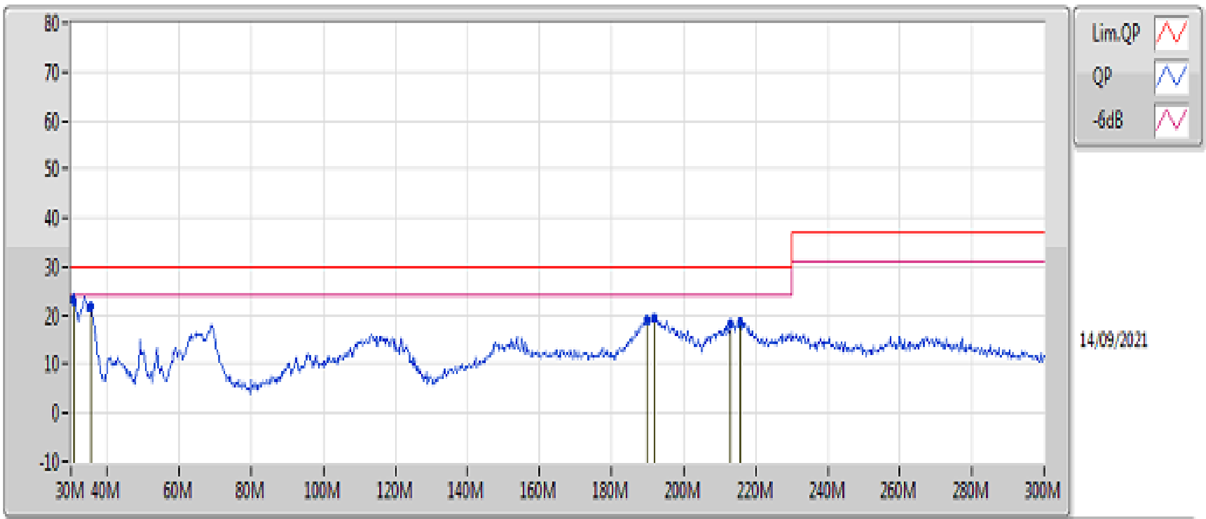
EUT Z
Power AC220V/50Hz
05-M-E-2
PD65W 9V 3A,add L1 C24!22p
21

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	172.56M	11.66	30.00	-18.34	-26.34	10	Horizontal	0	1.00	-	38.00	15.30	1.46	31.96
PK	176.34M	11.93	30.00	-18.07	-26.87	10	Horizontal	331	1.00	-	38.80	15.11	1.48	31.96
PK	196.86M	13.83	30.00	-16.17	-26.56	10	Horizontal	292	1.00	"Worst"	40.39	14.92	1.67	31.99
PK	197.67M	12.66	30.00	-17.34	-26.47	10	Horizontal	323	1.00	-	39.13	14.96	1.68	31.99
PK	223.32M	12.01	30.00	-17.99	-25.49	10	Horizontal	203	1.00	-	37.50	15.17	1.79	32.00
PK	225.21M	11.50	30.00	-18.50	-25.47	10	Horizontal	203	1.00	-	36.97	15.32	1.80	32.00

PD 3.0 Mode: 15 V / 3 A

110 V_{AC} / 60 Hz / Vertical

Radiated Emissions below 1GHz_Mode 2



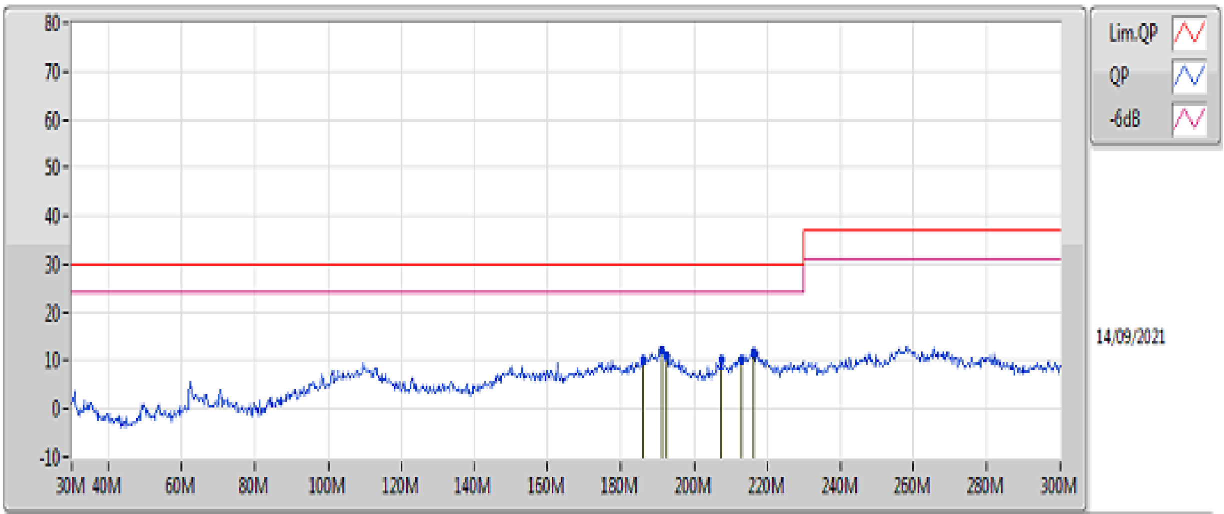
EUT Z
Power AC110V/50Hz
05-M-E-2
PD65W 15V 3A,add L1 C24!22p
14

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	30.54M	23.09	30.00	-6.91	-21.91	10	Vertical	217	1.00	"Worst"	45.00	23.91	0.41	31.50
PK	35.4M	21.80	30.00	-8.20	-23.07	10	Vertical	241	1.00	-	44.87	21.21	0.51	31.60
PK	189.84M	19.01	30.00	-10.99	-22.15	10	Vertical	213	1.00	-	41.16	14.79	1.60	31.97
PK	191.73M	19.46	30.00	-10.54	-21.97	10	Vertical	358	1.00	-	41.43	14.84	1.62	31.98
PK	213.06M	18.35	30.00	-11.65	-19.37	10	Vertical	204	1.00	-	37.72	14.72	1.75	32.00
PK	215.76M	18.65	30.00	-11.35	-19.64	10	Vertical	196	1.00	-	38.29	14.71	1.76	32.00

PD 3.0 Mode: 15 V / 3 A

110 V_{AC} / 60 Hz / Horizontal

Radiated Emissions below 1GHz_Mode 2



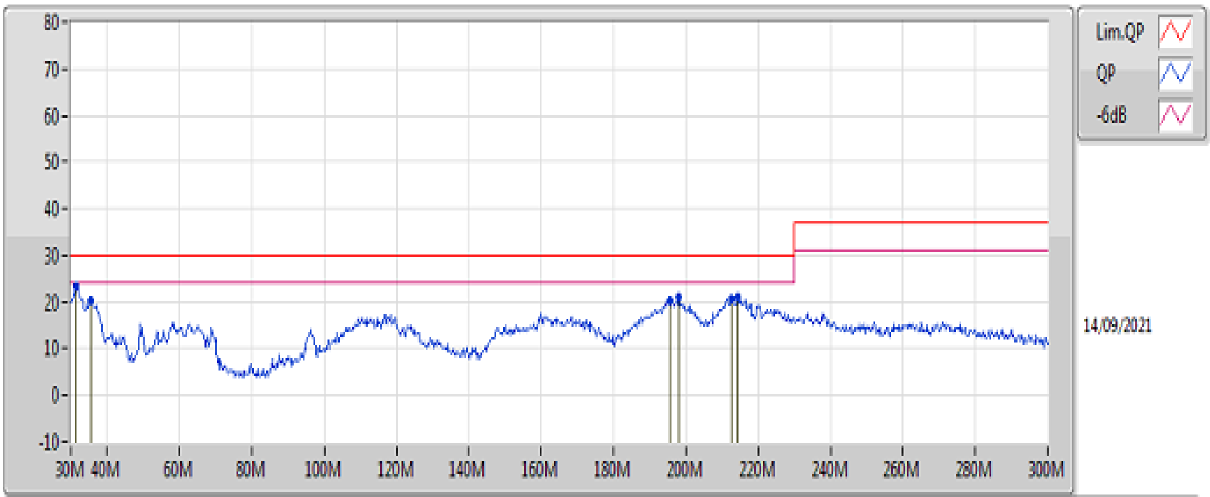
EUT Z
Power AC110V/50Hz
05-M-E-2
PD65W 15V 3A,add L1 C24!22p
15

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	186.06M	10.20	30.00	-19.80	-27.21	10	Horizontal	130	1.00	-	37.41	14.79	1.56	31.97
PK	191.19M	12.14	30.00	-17.86	-26.92	10	Horizontal	138	1.00	"Worst"	39.06	14.83	1.61	31.98
PK	192.54M	11.01	30.00	-18.99	-26.84	10	Horizontal	130	1.00	-	37.85	14.84	1.63	31.98
PK	207.39M	10.15	30.00	-19.85	-25.57	10	Horizontal	235	1.00	-	35.72	14.94	1.73	31.99
PK	213.06M	10.27	30.00	-19.73	-25.57	10	Horizontal	90	1.00	-	35.84	14.72	1.75	32.00
PK	216.3M	11.63	30.00	-18.37	-25.60	10	Horizontal	90	1.00	-	37.23	14.74	1.77	32.00

PD 3.0 Mode: 15 V / 3 A

220 V_{AC} / 50 Hz / Vertical

Radiated Emissions below 1GHz_Mode 2



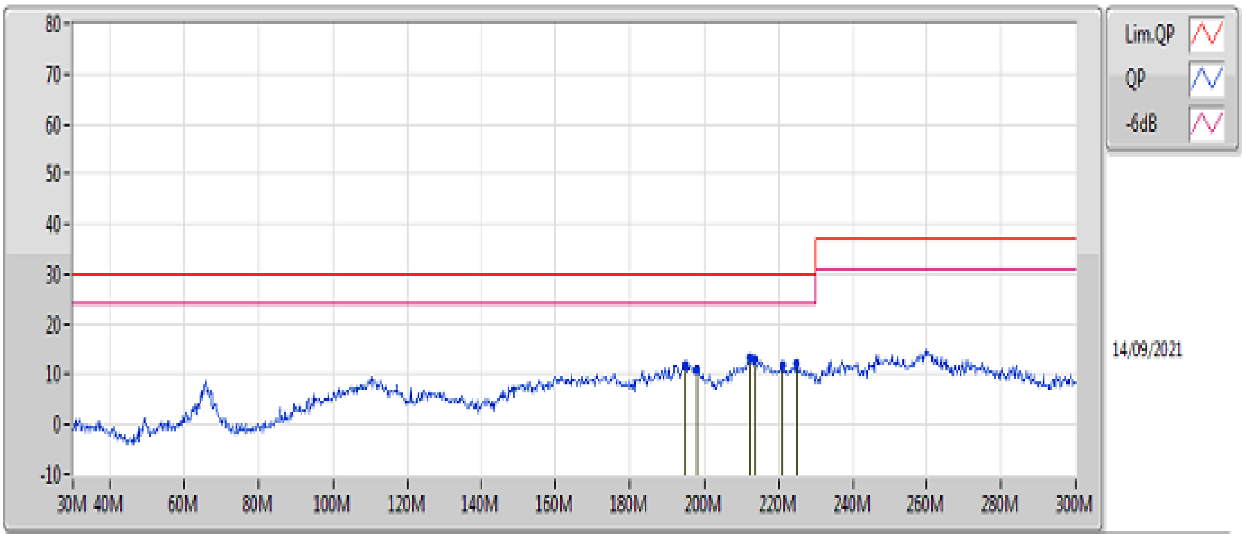
EUT Z
Power AC220V/60Hz
05-M-E-2
PD65W 15V 3A,add L1 C24!22p
16

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	31.35M	23.41	30.00	-6.59	-22.11	10	Vertical	169	1.00	"Worst"	45.52	23.41	0.43	31.52
PK	35.4M	20.26	30.00	-9.74	-23.07	10	Vertical	145	1.00	-	43.33	21.21	0.51	31.60
PK	195.51M	20.43	30.00	-9.57	-21.71	10	Vertical	189	1.00	-	42.14	14.89	1.66	31.98
PK	197.94M	21.07	30.00	-8.93	-21.50	10	Vertical	180	1.00	-	42.57	14.97	1.68	31.99
PK	212.52M	20.69	30.00	-9.31	-19.30	10	Vertical	188	1.00	-	39.99	14.73	1.75	32.00
PK	214.14M	20.98	30.00	-9.02	-19.49	10	Vertical	188	1.00	-	40.47	14.70	1.76	32.00

PD 3.0 Mode: 15 V / 3 A

220 V_{AC} / 50 Hz / Horizontal

Radiated Emissions below 1GHz_Mode 2



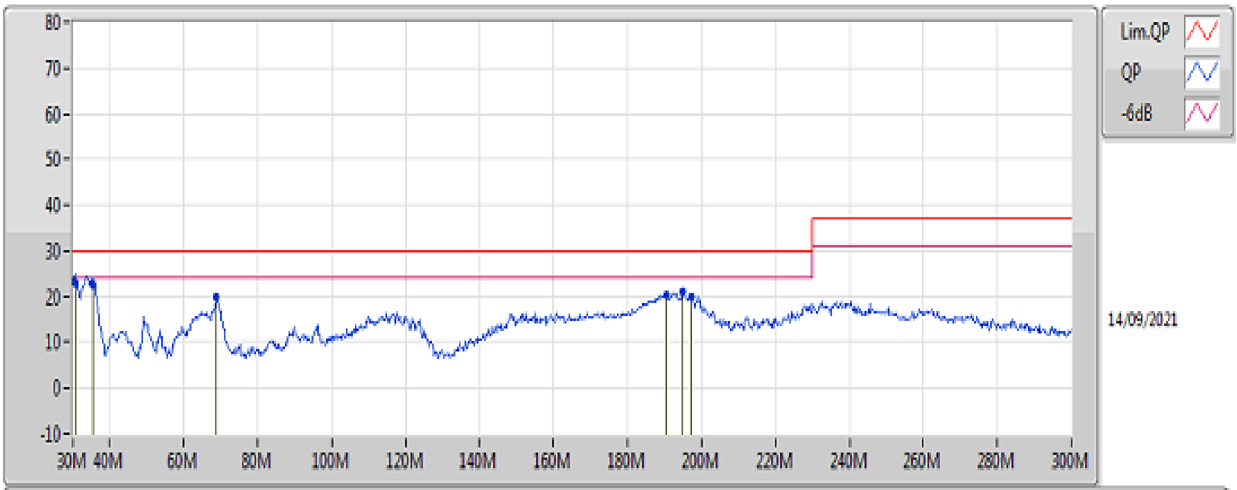
EUT Z
Power AC220V/60Hz
05-M-E-2
PD65W 15V 3A,add L1 C24!22p
17

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	194.97M	11.85	30.00	-18.15	-26.67	10	Horizontal	147	1.00	-	38.52	14.89	1.65	31.98
PK	197.94M	10.98	30.00	-19.02	-26.45	10	Horizontal	66	1.00	-	37.43	14.97	1.68	31.99
PK	212.25M	13.18	30.00	-16.82	-25.53	10	Horizontal	227	1.00	"Worst"	38.71	14.74	1.75	31.99
PK	213.6M	13.08	30.00	-16.92	-25.60	10	Horizontal	67	1.00	-	38.68	14.71	1.75	32.00
PK	221.16M	11.69	30.00	-18.31	-25.50	10	Horizontal	99	1.00	-	37.19	15.00	1.78	32.00
PK	224.94M	12.00	30.00	-18.00	-25.47	10	Horizontal	67	1.00	-	37.47	15.30	1.80	32.00

PD 3.0 Mode: 20 V / 3.25 A

110 V_{AC} / 60 Hz / Vertical

Radiated Emissions below 1GHz_Mode 2



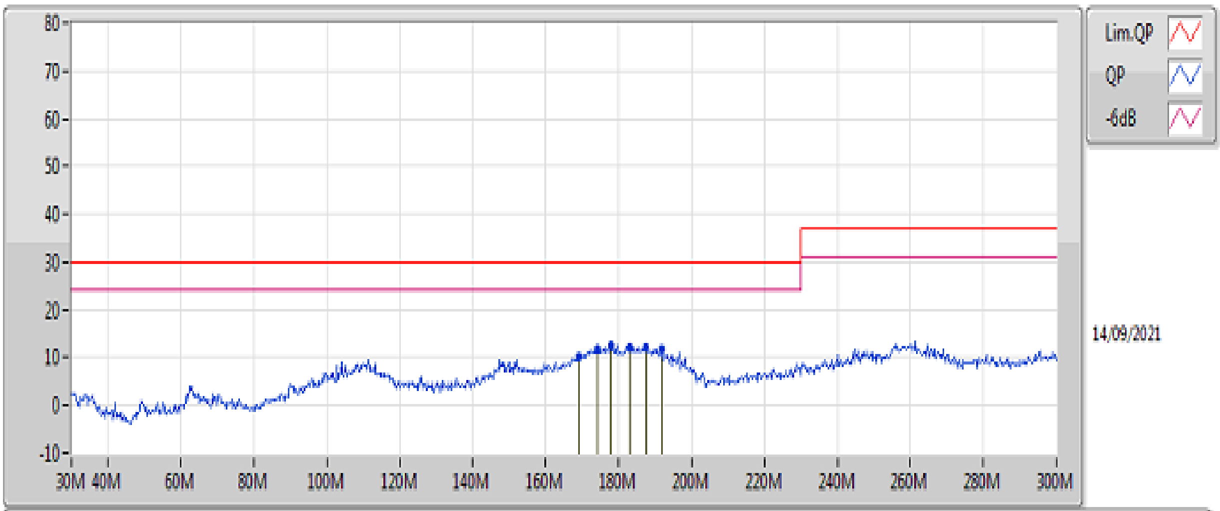
EUT Z
Power AC110V/60Hz
05-M-E-2
PD65W 20V 3.25A,add L1 C24!22p
10

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	30.54M	23.09	30.00	-6.91	-21.91	10	Vertical	186	1.00	"Worst"	45.00	23.91	0.41	31.50
QP	35.4M	22.43	30.00	-7.57	-23.07	10	Vertical	169	1.00	-	45.50	21.21	0.51	31.60
PK	68.88M	19.76	30.00	-10.24	-25.25	10	Vertical	168	1.00	-	45.01	12.15	0.80	31.89
PK	190.65M	20.14	30.00	-9.86	-22.05	10	Vertical	197	1.00	-	42.19	14.82	1.61	31.98
PK	194.97M	20.98	30.00	-9.02	-21.74	10	Vertical	189	1.00	-	42.72	14.89	1.65	31.98
PK	197.4M	19.80	30.00	-10.20	-21.56	10	Vertical	172	1.00	-	41.36	14.95	1.67	31.99

PD 3.0 Mode: 20 V / 3.25 A

110 V_{AC} / 60 Hz / Horizontal

Radiated Emissions below 1GHz_Mode 2



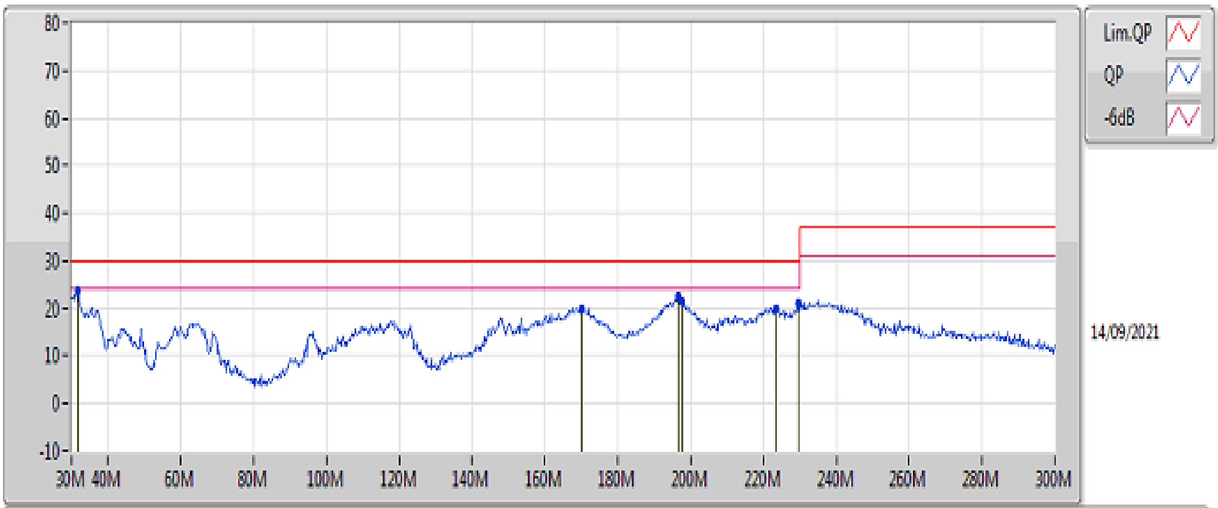
EUT Z
Power AC110V/60Hz
05-M-E-2
PD65W 20V 3.25A,add L1 C24!22p
11

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	169.05M	10.22	30.00	-19.78	-25.95	10	Horizontal	162	1.00	-	36.17	15.41	1.45	31.96
PK	174.18M	11.69	30.00	-18.31	-26.58	10	Horizontal	154	1.00	-	38.27	15.20	1.47	31.96
PK	177.96M	12.61	30.00	-17.39	-27.02	10	Horizontal	154	1.00	"Worst"	39.63	15.10	1.49	31.96
PK	183.09M	12.15	30.00	-17.85	-27.26	10	Horizontal	138	1.00	-	39.41	14.88	1.53	31.96
PK	187.41M	12.28	30.00	-17.72	-27.17	10	Horizontal	138	1.00	-	39.45	14.77	1.57	31.97
PK	191.73M	11.58	30.00	-18.42	-26.88	10	Horizontal	114	1.00	-	38.46	14.84	1.62	31.98

PD 3.0 Mode: 20 V / 3.25 A

220 V_{AC} / 50 Hz / Vertical

Radiated Emissions below 1GHz_Mode 2



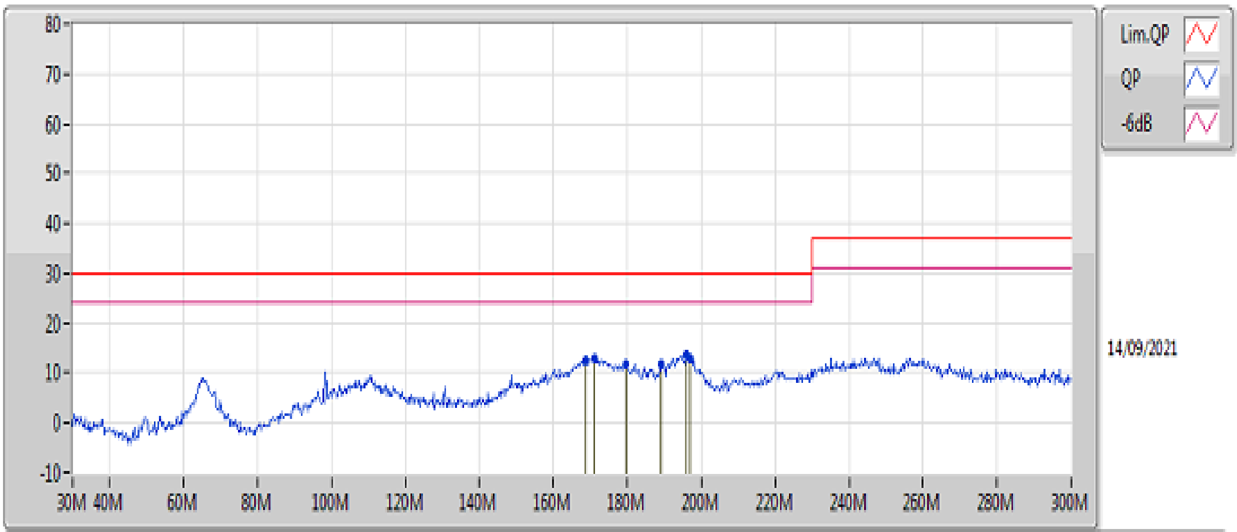
EUT Z
Power AC220V/50Hz
05-M-E-2
PD65W 20V 3.25A,add L1 C24!22p
12

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	31.62M	23.57	30.00	-6.43	-22.19	10	Vertical	209	1.00	"Worst"	45.76	23.23	0.43	31.52
PK	170.13M	19.90	30.00	-10.10	-23.45	10	Vertical	181	1.00	-	43.35	15.41	1.45	31.96
PK	196.59M	22.69	30.00	-7.31	-21.63	10	Vertical	180	1.00	-	44.32	14.91	1.67	31.98
PK	197.67M	21.61	30.00	-8.39	-21.53	10	Vertical	188	1.00	-	43.14	14.96	1.68	31.99
PK	223.32M	19.95	30.00	-10.05	-19.26	10	Vertical	172	1.00	-	39.21	15.17	1.79	32.00
PK	229.53M	20.88	30.00	-9.12	-18.01	10	Vertical	188	1.00	-	38.89	15.79	1.82	32.00

PD 3.0 Mode: 20 V / 3.25 A

220 V_{AC} / 50 Hz / Horizontal

Radiated Emissions below 1GHz_Mode 2



EUT Z
Power AC220V/50Hz
05-M-E-2
PD65W 20V 3.25A,add L1 C24!22p
13

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	168.78M	12.45	30.00	-17.55	-25.93	10	Horizontal	347	1.00	-	38.38	15.43	1.44	31.96
PK	171.21M	12.96	30.00	-17.04	-26.12	10	Horizontal	347	1.00	-	39.08	15.39	1.46	31.96
PK	179.58M	11.89	30.00	-18.11	-27.25	10	Horizontal	332	1.00	-	39.14	15.01	1.50	31.96
PK	189.3M	11.78	30.00	-18.22	-27.07	10	Horizontal	131	1.00	-	38.85	14.77	1.59	31.97
PK	196.05M	13.52	30.00	-16.48	-26.62	10	Horizontal	124	1.00	"Worst"	40.14	14.89	1.66	31.98
PK	197.13M	12.84	30.00	-17.16	-26.52	10	Horizontal	131	1.00	-	39.36	14.94	1.67	31.99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AC-DC Mid & High Power
Application Total Solution

THANK YOU