

Prüfbericht-Nr.: <i>Test report no.:</i>	CN26ZHPK 001	Auftrags-Nr.: <i>Order no.:</i>	27218776	Seite 1 von 29 Page 1 of 29
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2391566	Auftragsdatum: <i>Order date:</i>	2025-12-01	
Auftraggeber: <i>Client:</i>	Jiangsu Weiheng Intelligent Technology Co., Ltd. Sheng Xiang,Yaxi Community,Luoshe Town, Huishan District, 214000,Wuxi City, Jiangsu Province,P.R. China			
Prüfgegenstand: <i>Test item:</i>	Power Conversion System			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	TAA-105kW-01, TAA-105kW-11, TAA-125kW-01, TAA-125kW-11			
Auftrags-Inhalt: <i>Order content:</i>	TUV Rheinland - EMC service			
Prüfgrundlage: <i>Test specification:</i>	EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026.01.13			
Prüfmuster-Nr.: <i>Test sample no.:</i>	SPO2511553-1			
Prüfzeitraum: <i>Testing period:</i>	Refer to test report			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
erstellt von: <i>created by:</i>	Jett Zhao		genehmigt von: <i>authorized by:</i>	Bella Xu
Datum: <i>Date:</i>	2026-02-11	Jett Zhao	Ausstellungsdatum: <i>Issue date:</i>	2026-02-11 Bella Xu
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges <i>Other:</i>				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) * Legend: P(ass) = passed a.m. test specification(s)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n) F(ail) = failed a.m. test specification(s)	N/A = nicht anwendbar N/A = not applicable	N/T = nicht getestet N/T = not tested	
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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

TEST SUMMARY

5.1.1 CONDUCTED EMISSION

RESULT: Pass

5.2.1 RADIATED EMISSION

RESULT: Pass

6.2.1 RADIO-FREQUENCY ELECTROMAGNETIC FIELD AMPLITUDE MODULATED (RS)

RESULT: Pass

6.2.2 RADIO-FREQUENCY CONTINUOUS CONDUCTED (CS)

RESULT: Pass

6.2.3 POWER-FREQUENCY MAGNETIC FIELDS

RESULT: Pass

6.3.1 FAST TRANSIENTS (EFT)

RESULT: Pass

6.3.2 SURGE

RESULT: Pass

6.3.3 ELECTROSTATIC DISCHARGES (ESD)

RESULT: Pass

6.3.4 VOLTAGE DIPS AND INTERRUPTIONS

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

Appendix 2: Measurement uncertainties

Note: Model " EPCS125-AM " in Appendix 1 stands for model " TAA-125kW-01" in this report

2. Test Sites

2.1 Test Facilities

SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Dafu Plant, No. 13 North of Aiqun Road, Shangwu community, Shiyan Street, Baoan District, Shenzhen City, China.

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment Description	Manufacturer	Type	S/N	Calibrated until
Conducted Emission				
5m Chamber	emc-united	12.1mx7.6mx6m	SAC-5m/EMCU-SAC-5M-2304	2028-09-17
Test Receiver	ROHDE & SCHWARZ	ESRP3	1316.4500K03-102315-wX	2026-07-05
Attenuator	ROHDE & SCHWARZ	ESH3-Z2	102756	2026-08-20
LISN	Schwarzbeck	NNLK 8130	05007	2026-03-30
DC-AN	Schwarzbeck	PVDC 8301	53	2026-08-25
Test Software	ROHDE & SCHWARZ	EMC 32	Ver. 10.60.20	/
Radiated Emission (30 MHz-1000 MHz)				
5m Chamber	emc-united	12.1mx7.6mx6m	SAC-5m/EMCU-SAC-5M-2304	2028-09-17
Test Receiver	ROHDE & SCHWARZ	ESRP3	1316.4500K03-102315-wX	2026-07-05
Preset Amplifier	HZEMC	HPA-003637	GPA23020	2026-06-06
Broadband Antenna	Schwarzbeck	VULB 9168	1640	2026-11-09
Test Software	ROHDE & SCHWARZ	EMC 32	Ver. 10.60.20	/
ESD				
ESD Test System	TESEQ	NSG 437	1370	2026-12-29
Radio-Frequency Electromagnetic Field Amplitude Modulated				
1m Chamber	emc-united	SAC-1m	EMCU-SAC-1m-2301	2028-04-26
Signal Generator	Agilent	N5181A	MY51060123	2026-07-05
Power Meter	Agilent	N1914A	SG50000183	2026-07-05
EMS Antenna	Schwarzbeck	STLP 9128 E	3078	/
EMS Antenna	Schwarzbeck	BBHA 9120 J	00162	/
Power Amplifier	TESEQ	CBA 1G-1200B	T2455-0219	2026-08-23
Power Amplifier	AMETEK	AS0104-200/200	1086599	2026-07-05
Power Amplifier	TESEQ	CBA 6G-080D	8294/1	2026-07-09
Testing Software	BAT	BAT-EMC	Ver. 3.19.1.20	/
EFT				
EFT/Surge Test System	emtest	UCS 500N7.2	006813	2026-01-16
	emtest	CNI 503B9.4/100A	P1737203087	2026-01-16
Surge				
EFT/Surge Test System	emtest	UCS 500N7.2	006813	2026-01-16
	emtest	CNI 503B9.4/100A	P1737203087	2026-01-16
Radio-Frequency Continuous Conducted				
Signal Generator	Rohde&Schwarz	SML01	104880	2026-07-06
Power Meter	Agilent	N1914A	SG50000183	2026-07-06

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Equipment Description	Manufacturer	Type	S/N	Calibrated until
Power Amplifier	AMETEK	SCDX150	T2455-0219	2026-07-06
CDN	TESEQ	CDN M5-100-750V	53474	2026-07-06
CDN	Schwarzbeck	CDN M2 125A 1000V	00003	2026-07-06
Testing Software	BAT	BAT-EMC	Ver. 3.19.1.20	/
Power Frequency Magnetic Field				
Magnetic Field Tester	3C TEST	MFS 1200	ES0621905	2026-07-06
Magnetic Field Test Coil	3C TEST	TCXS 113	ES0621905	2026-07-06
Voltage dip and short interruption				
Power Supply	Chroma	61860	618603800339	2026-07-06
Voltage Dip Switch	TESEQ	NSG 2200-3	A47212	2026-07-06
Test Software	Chroma	Chroma 61800 Soft Panel	Ver. 1.1.6.1	/

3. General Product Information

3.1 Product Function and Intended Use

The **EUTs** (Equipment Under Test) are Power Conversion System used for industrial environments.

According to clients' declarations the circuit design & layout are the same.

Detailed information refer to TÜV Rheinland original report CN25DXHP 001.

Model list and model difference:

Model	Rated output power(kW)	Maximum current (A)	Rated voltage(V)	DC Input voltage(V)	Rated frequency (Hz)	Wiring position
TAA-105kW-01	105	167	400	615~950	50/60	Front
TAA-105kW-11						Rear
TAA-125kW-01	125	200				Front
TAA-125kW-11						Rear

According to client's declaration, all models are identical in circuit design.

For details please refer to the Circuit Diagram & User Manual.

3.2 Ratings and System Details

Refer to the 3.1 section.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Charging Mode
 - 2. Discharge Mode
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

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3.5 Submitted Documents

- Circuit Diagram
- Rating Label
- User Manual
- PCB Layout

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure their highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipment under test (EUT) was configured to have their highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 & 6.
Pre-test in all operation modes and find out the worst case for compliance test.
According to section 3.1, full tests were applied on model TAA-125kW-01.

4.3 Special Accessories and Auxiliary Equipment

Equipment	Manufacturer	Type	S/N	Calibrated until
Multimeter	Fluke	Fluke 17B+	58220533WS	2026-03-31
Clamp ammeter	Fluke	Fluke 317	64781421WS	2026-06-10
DC power supply	Kewell	S7000-30K-2000-0040	6018888230200606	/
DC power supply	Kewell	D2000N-300K-2000-450-IV	6012401000000659	/

4.4 Countermeasures to achieve EMC Compliance

The test samples, which have been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted Emission

RESULT:

Pass

Date of testing	:	2025-01-13
Test standard	:	EN IEC 61000-6-4:2019
Frequency range	:	0.15 - 30MHz
Limits	:	Table 4 & A.1 of EN IEC 61000-6-4:2019
Kind of test site	:	5m Chamber
Tested Port	:	AC power port, DC Power Port

Test setup

Input Voltage	:	DC 800V
Mains Voltage	:	AC 400V, 50/60Hz
Operation Condition	:	Clause 4 of EN IEC 61000-6-4:2019
Operation mode	:	A
Artificial hand	:	Not applied
Earthing	:	Connected

Refer to attached Appendix 1.

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Emission

RESULT:

Pass

Date of testing	:	2025-01-13
Test standard	:	EN IEC 61000-6-4:2019
Frequency range	:	30 - 1000MHz *
Limits	:	Table 3 of EN IEC 61000-6-4:2019
Kind of test site	:	5m Semi-Anechoic Chamber
Tested Port	:	Enclosure

Test setup

Input Voltage	:	DC 800V
Mains Voltage	:	AC 400V, 50/60Hz
Operation Condition	:	Clause 4 of EN IEC 61000-6-4:2019
Operation mode	:	A
Earthing	:	Connected

* - The highest frequency generated or used in the EUT is below 108MHz, hence the upper frequency of this test is 1GHz.

Refer to attached Appendix 1.

6. Test Results IMMUNITY

6.1 Classification of apparatus

According to EN IEC 61000-6-2:2019, the EUT shall be tested in accordance with table 1, 3 & 4, and comply with following performance criterion:

Continuous Disturbance

Power-Frequency Magnetic Fields	Criterion A
Radio-Frequency Electromagnetic Field Amplitude Modulated (RS)	Criterion A
Radio-Frequency Continuous Conducted (CS)	Criterion A

Transient Disturbance

Fast Transients (EFT)	Criterion B
Surge	Criterion B
Electrostatic Discharges (ESD)	Criterion B

Power Supply Alterations

Voltage Dips and Interruptions	Criterion B & C
--------------------------------	----------------------------

The EUT does not have Signal port.

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Continuous Disturbances

6.1.1 Radio-Frequency Electromagnetic Field Amplitude Modulated (RS)

RESULT:

Pass

Date of Testing : 2025-01-14
Test Specification : EN IEC 61000-6-2:2019
Basic Standard : IEC 61000-4-3:2006+A1+A2
Criterion : A
Frequency Range : 80 - 1000MHz, 1.4 - 6.0GHz
Test Level : 10V/m, 80 – 1000MHz
3V/m, 1.4 – 6.0GHz
(Unmodulated, r.m.s.)
Modulation : AM 80%, 1kHz sine-wave
Tested Port : Enclosure

Test setup

Input Voltage : DC 800V
Mains Voltage : AC 400V, 50/60Hz
Operation Mode : A
Earthing : Connected
Ambient temperature : 21°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Test results:

Polarization	Frequency Range	Test Level	Criterion	Description	Conclusion
H/V	80MHz to 1000MHz	10V/m (rms)	A	Operating as intended, no failure detected	Pass
H/V	1.4GHz to 6.0GHz	3V/m (rms)	A	Operating as intended, no failure detected	Pass

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6.1.2 Radio-Frequency Continuous Conducted (CS)

RESULT:

Pass

Date of testing : 2025-01-15
Test Specification : EN IEC 61000-6-2:2019
Basic Standard : IEC 61000-4-6:2013
Criterion : A
Frequency range : 0.15 - 80 MHz
Source impedance : 150Ω
Test level : 10V (unmodulated, r.m.s.)
Modulation : AM 80%, 1kHz sine-wave
Sweep mode : automatic
Sweep rate : $<1.5 \times 10^{-3}$ decade/sec.
Tested Port : AC Power Port, DC Power Port

Test setup

Input Voltage : DC 800V
Mains Voltage : AC 400V, 50/60Hz
Operation Mode : A
Earthing : Connected
Ambient temperature : 20°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Test results:

Ports	Coupling Network	Frequency Range	Test Level	Criterion	Description	Conclusion
AC Power Port	CDN	0.15 - 80 MHz	10V (rms)	A	Operating as intended, no failure detected	Pass
DC Power Port	Current Injection Probe	0.15 - 80 MHz	10V (rms)	A	Operating as intended, no failure detected	Pass

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6.1.3 Power-frequency Magnetic Fields

RESULT:

Pass

Date of testing : 2025-01-15
 Test Specification : EN IEC 61000-6-2:2019
 Basic Standard : IEC 61000-4-8:2009
 Criterion : A
 Test Frequency : 50/60Hz
 Test level : 30A/m
 Tested Port : Enclosure

Test setup

Input Voltage : DC 800V
 Mains Voltage : AC 400V, 50/60Hz
 Operation Mode : A
 Earthing : Connected
 Ambient temperature : 20°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Test results:

Ports	Test Level	Testing Duration	Coil Orientation	Criterion	Description	Conclusion
Enclosure	30A/m	5 mins	X	A	Operating as intended, no failure detected	Pass
Enclosure	30A/m	5 mins	Y	A	Operating as intended, no failure detected	Pass
Enclosure	30A/m	5 mins	Z	A	Operating as intended, no failure detected	Pass

6.2 Transient Disturbances

6.2.1 Fast Transients (EFT)

RESULT:

Pass

Date of testing : 2025-01-14
Test Specification : EN IEC 61000-6-2:2019
Basic Standard : IEC 61000-4-4:2012
Criterion : B
Test level : $\pm 2\text{kV}$ for AC Power Port &
 $\pm 1\text{kV}$ for DC power Port
Test duration : $\geq 60\text{sec}$
Rise time : 5/50ns
Repetition frequency : 5kHz
Tested Port : AC Power Port, DC Power Port

Test setup

Input Voltage : DC 800V
Mains Voltage : AC 400V, 50/60Hz
Operation Mode : A
Earthing : Connected
Ambient temperature : 20°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Test results:

Ports	Coupling	Test Level	Criterion	Description	Conclusion
AC Power Port	CDN (L1-L2-L3-PE)	$\pm 2\text{kV}$	B	Operating as intended, no failure detected	Pass
DC Power Port	CDN	$\pm 1\text{kV}$	B		Pass

6.2.2 Surge

RESULT:

Pass

Date of testing	:	2025-01-14 & 2025-01-15
Test Specification	:	EN IEC 61000-6-2:2019
Basic Standard	:	IEC 61000-4-5:2014
Criterion	:	B
Source impedance	:	2Ω, 12Ω
Test level	:	±1kV, ±2kV for AC Power Port; ±0.5kV, ±1kV for DC Power Port
Number of surges	:	5 (for each combination of parameters)
Repetition rate	:	Max. 1/min
Tested Port	:	AC Power Port, DC Power Port

Test Setup

Input Voltage	:	DC 800V
Mains Voltage	:	AC 400V, 50/60Hz
Operation Mode	:	A
Earthing	:	Connected
Ambient temperature	:	20°C & 21.3°C
Relative humidity	:	53% & 51%
Atmospheric pressure	:	101kPa

Test result:

Ports	Test Level	Coupling Mode	Impedance (ohm)	Criterion	Description	Conclusion
AC Power Port	±1kV	L1-L2, L1-L3, L2-L3	2	B	Operating as intended, no failure detected	Pass
AC Power Port	±2kV	L1-PE, L2-PE, L3-PE	12	B		Pass
DC Power Port	±0.5kV	P-N	2	B		Pass
DC Power Port	±1kV	P-PE, N-PE	12	B		Pass

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6.2.3 Electrostatic Discharges (ESD)

RESULT:

Pass

Date of testing : 2025-01-14
Test Specification : EN IEC 61000-6-2:2019
Basic Standard : IEC 61000-4-2:2008
Criterion : B
Charge voltage : $\pm 2.0\text{kV}$, $\pm 4.0\text{kV}$, $\pm 8\text{kV}$ (air discharge)
 $\pm 2.0\text{kV}$, $\pm 4.0\text{kV}$ (contact discharge)
Number of discharges : >10
Tested Port : Enclosure

Test Setup

Input Voltage : DC 800V
Mains Voltage : AC 400V, 50/60Hz
Operation Mode : A
Earthing : Connected
Ambient temperature : 22.4°C
Relative humidity : 51%
Atmospheric pressure : 101kPa

Test Results:

Test Point	Test Mode	Test Level(kV)	Criterion	Description	Conclusion
Metallic enclosure	C	± 4	B	No failure detected	Pass
Screw	C	± 4	B	No failure detected	Pass
VCP	C	± 4	B	No failure detected	Pass
HCP	C	± 4	B	No failure detected	Pass
Terminal board	A	± 2 , ± 4 , ± 8	B	No failure detected	Pass
Indicator light	A	± 2 , ± 4 , ± 8	B	No failure detected	Pass

Note: A-Air Discharge; C-Contact Discharge; VCP-Vertical Coupling Plane

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Date of testing : 2025-01-14
Test Specification : EN IEC 61000-6-2:2019
Basic Standard : IEC 61000-4-11:2004
Criterion : B & C
Tested Port : AC Power Port, Auxiliary Power supply

Test Setup

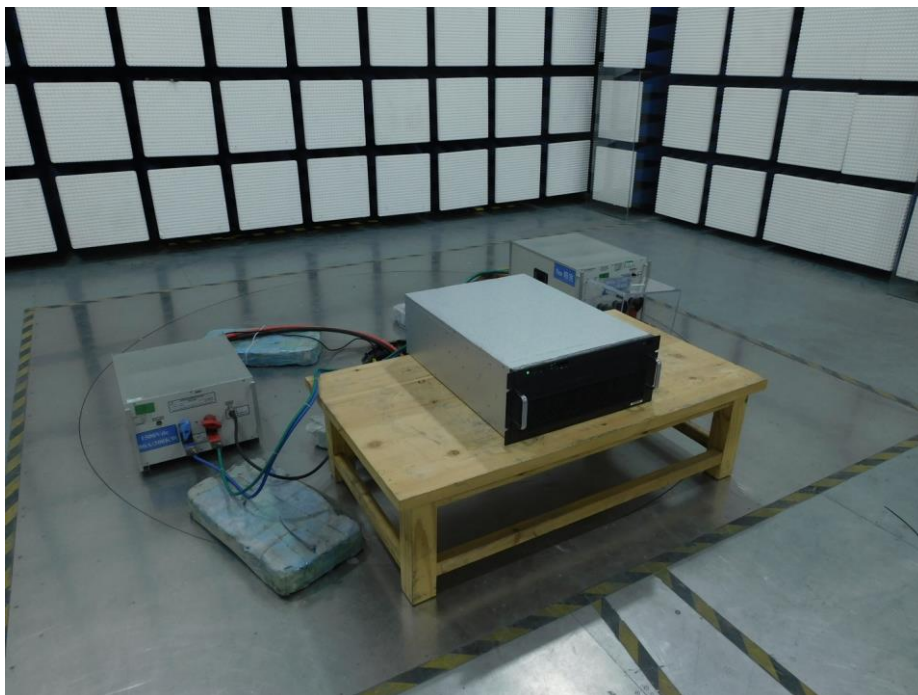
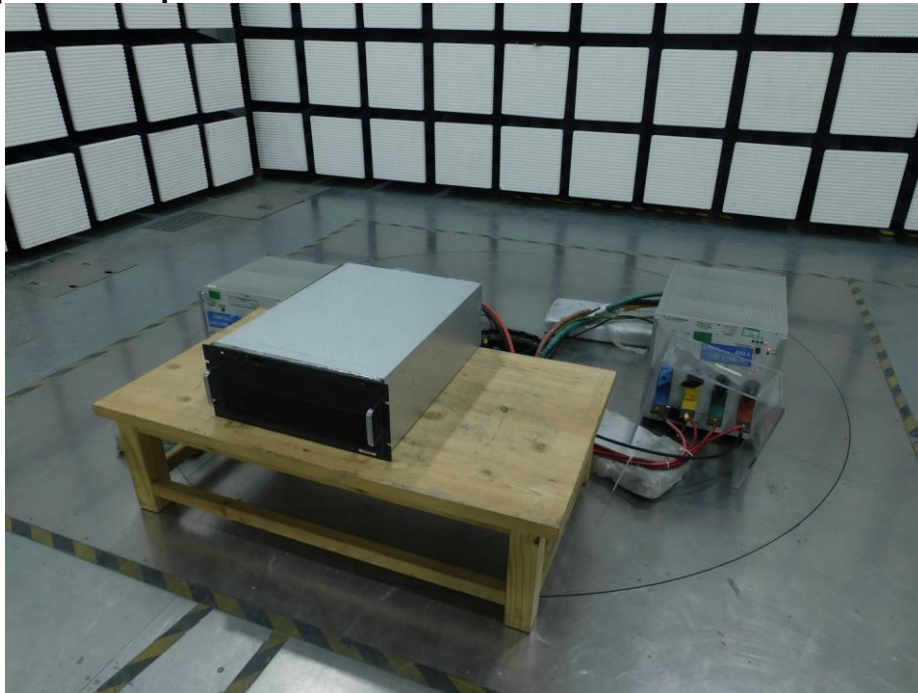
Test Voltage : AC 800V, 50-60Hz
Operation Mode : A
Earthing : Connected
Ambient temperature : 25.1°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

Test Results:

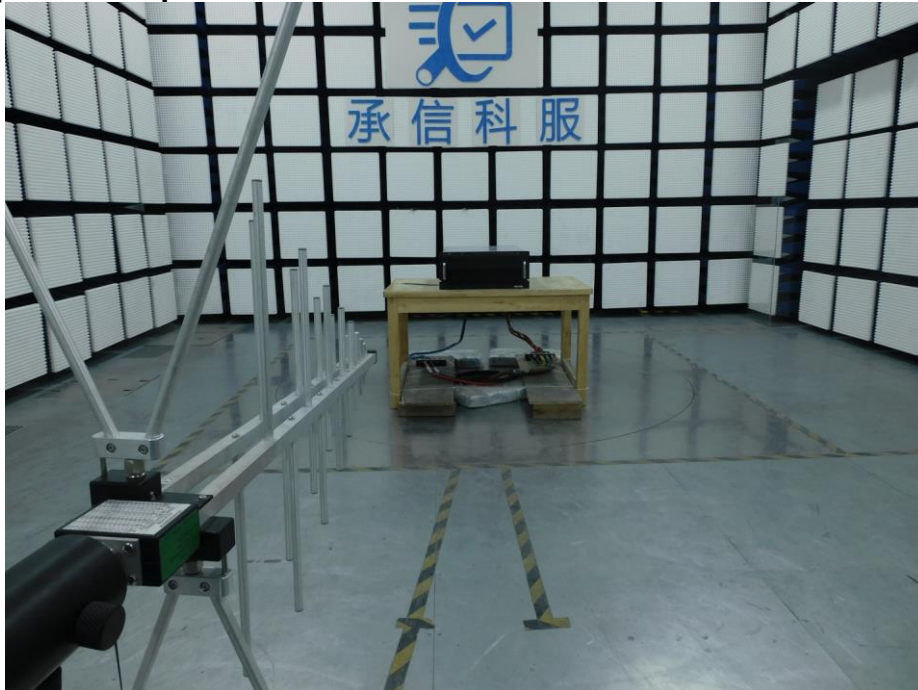
Dip to UT	Duration	Interval	Criterion	Phenomenon Description	Result
0%	1 cycle	10s	B	Operating as intended during and after testing	Pass
40%	10(50Hz)-12(60Hz) cycles	10s	B	Operating as intended during and after testing	Pass
70%	25(50Hz)-30(60Hz) cycles	10s	B	Operating as intended during and after testing	Pass
0%	250(50Hz)-300(60Hz) cycles	10s	C	The performance degradation was observed in the voltage interruption test. EUT needs to be manually restored to normal working condition.	Pass

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emission

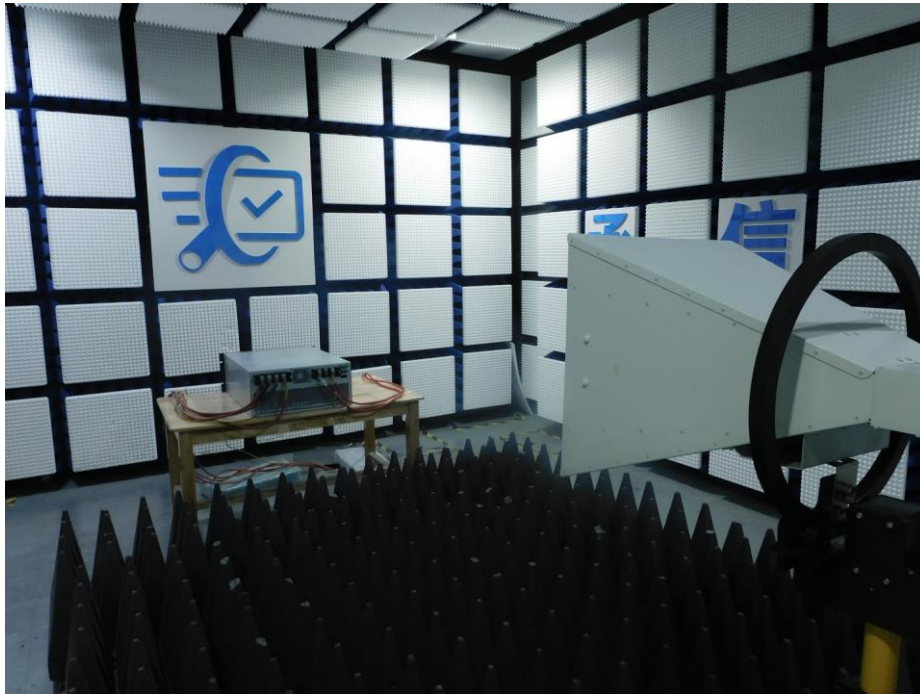


Photograph 2: Set-up for Radiated Emission



Photograph 3: Set-up for Radio Frequency Electromagnetic Field (RS)





Photograph 4: Set-up for Conducted Susceptibility (CS)



AC Power Port



DC Power Port

Photograph 5: Set-up for Power-frequency Magnetic Fields



Photograph 6: Set-up for EFT



AC Power Port



DC Power Port

Photograph 7: Set-up for Surges



AC Power Port



DC Power Port

Photograph 8: Set-up for Electrostatic Discharges (ESD)



Photograph 9: Set-up for Voltage Dips and Interruptions



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Charging

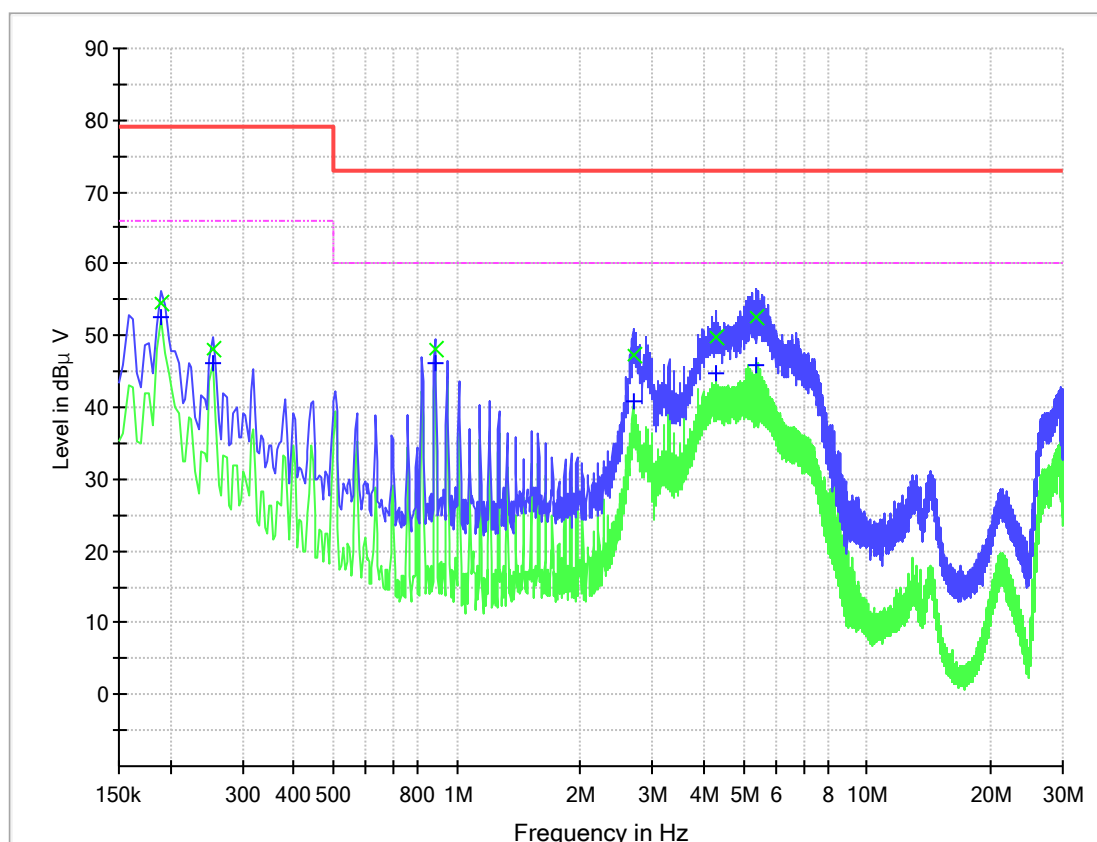
L1

Common Information

Test Description: CTS 5m Chamber Laboratory
Test Site: SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard: EN 61000-6-4
Environment Conditions: Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name: Xiao Yun
Comment: Charging Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.190000	54.39	52.44	20.0	9.000	10.0	24.61	79.0	13.56	66.0
0.254000	48.20	46.04	20.0	9.000	10.0	30.80	79.0	19.96	66.0
0.886000	48.13	46.28	20.0	9.000	10.0	24.87	73.0	13.72	60.0
2.690000	47.33	40.75	20.0	9.000	10.1	25.67	73.0	19.25	60.0
4.286000	49.86	44.67	20.0	9.000	10.2	23.14	73.0	15.33	60.0
5.378000	52.67	45.84	20.0	9.000	10.2	20.33	73.0	14.16	60.0

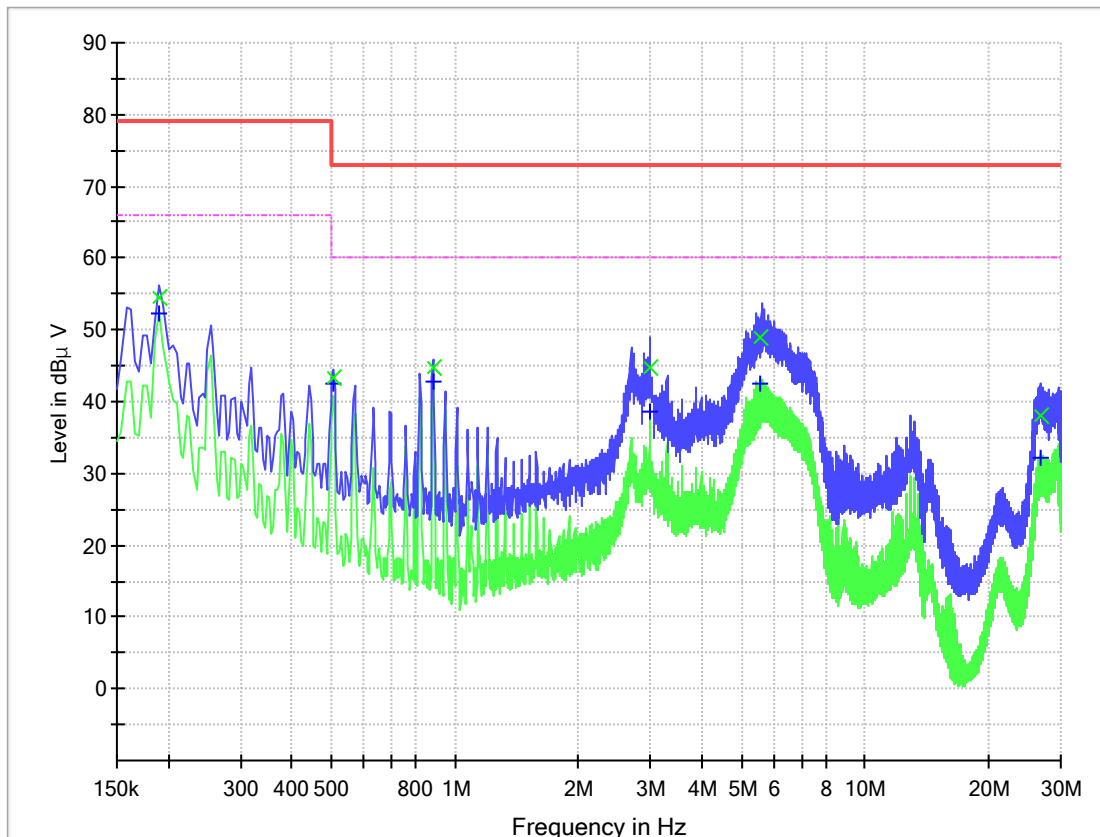


L2 Common Information

Test Description: CTS 5m Chamber Laboratory
Test Site: SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard: EN 61000-6-4
Environment Conditions: Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name: Xiao Yun
Comment: Charging Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.190000	54.56	52.39	20.0	9.000	10.0	24.44	79.0	13.61	66.0
0.506000	43.45	42.65	20.0	9.000	10.0	29.55	73.0	17.35	60.0
0.886000	44.63	42.79	20.0	9.000	10.0	28.37	73.0	17.21	60.0
2.990000	44.79	38.53	20.0	9.000	10.1	28.21	73.0	21.47	60.0
5.566000	48.95	42.42	20.0	9.000	10.2	24.05	73.0	17.58	60.0
26.674000	38.04	32.29	20.0	9.000	10.9	34.96	73.0	27.71	60.0



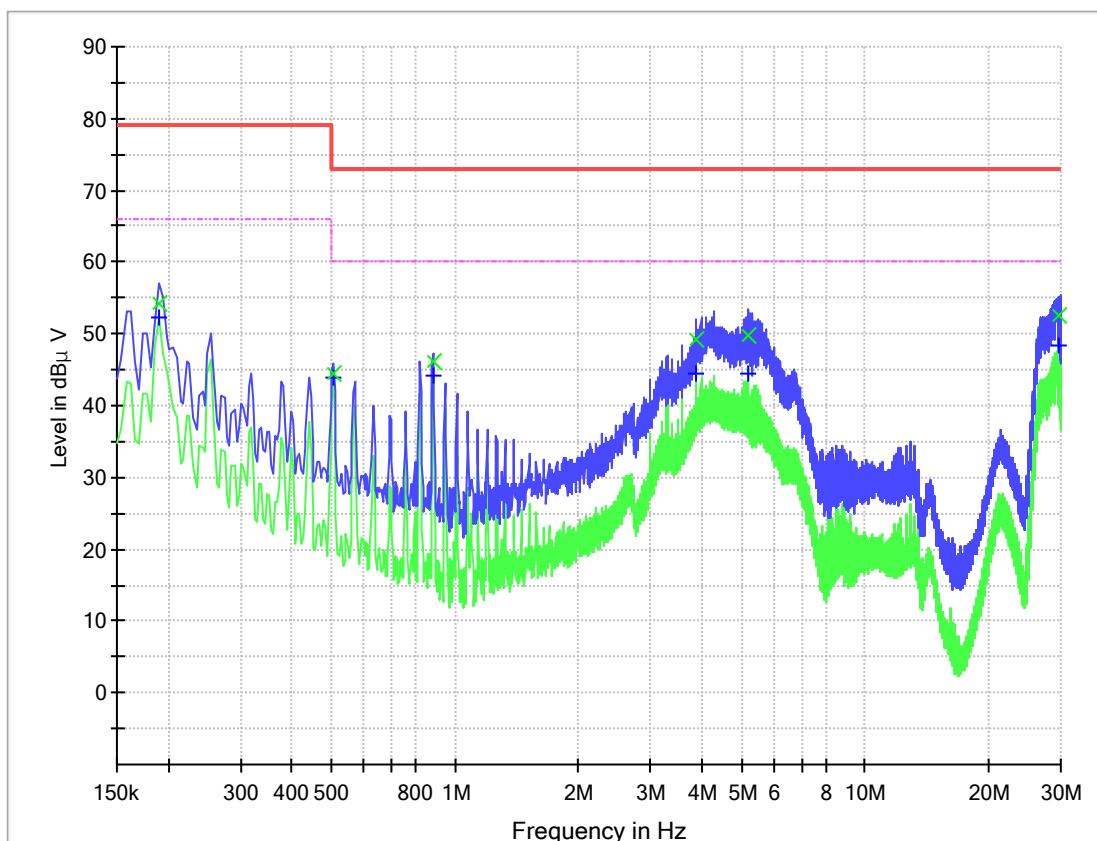
L3

Common Information

Test Description:	CTS 5m Chamber Laboratory
Test Site:	SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard:	EN 61000-6-4
Environment Conditions:	Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name:	Xiao Yun
Comment:	Charging Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.190000	54.35	52.34	20.0	9.000	10.0	24.65	79.0	13.66	66.0
0.506000	44.52	44.04	20.0	9.000	10.0	28.48	73.0	15.96	60.0
0.886000	46.06	44.08	20.0	9.000	10.0	26.94	73.0	15.92	60.0
3.886000	49.31	44.39	20.0	9.000	10.1	23.69	73.0	15.61	60.0
5.182000	49.80	44.39	20.0	9.000	10.2	23.20	73.0	15.61	60.0
29.774000	52.68	48.37	20.0	9.000	11.0	20.32	73.0	11.63	60.0



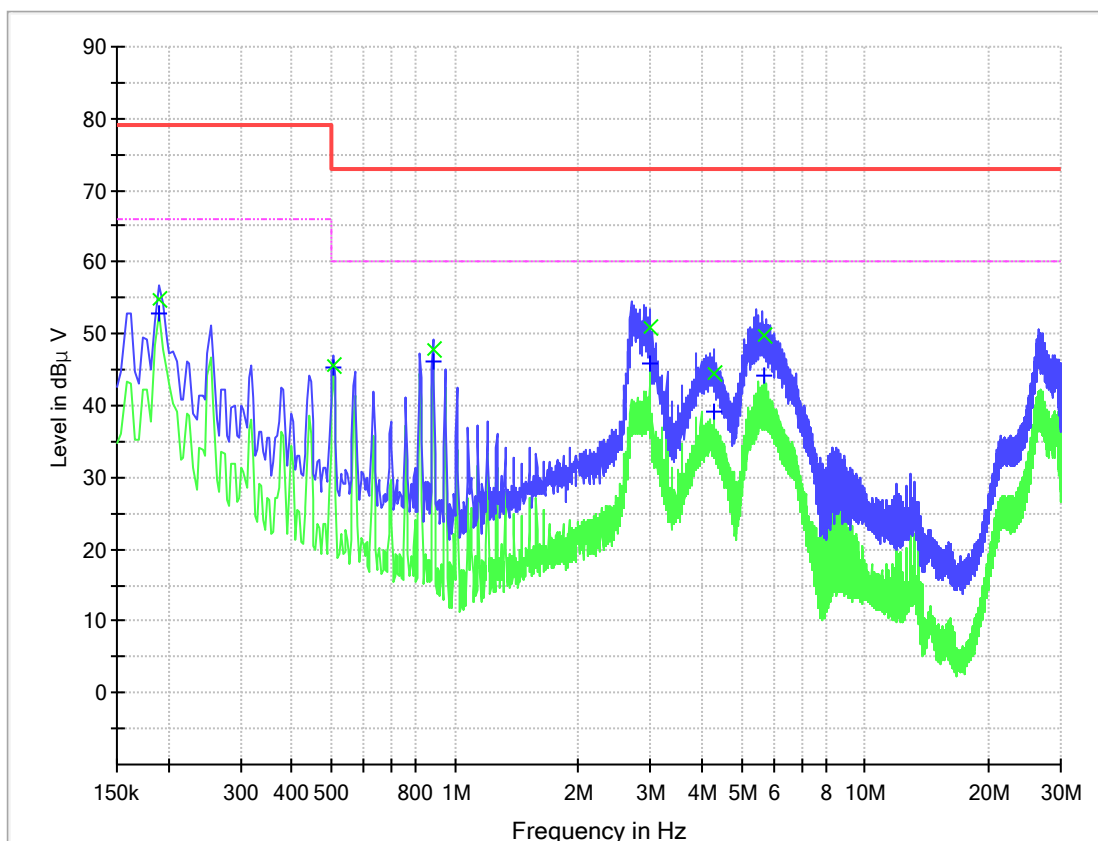
N

Common Information

Test Description:	CTS 5m Chamber Laboratory
Test Site:	SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard:	EN 61000-6-4
Environment Conditions:	Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name:	Xiao Yun
Comment:	Charging Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.190000	54.70	52.80	20.0	9.000	10.0	24.30	79.0	13.20	66.0
0.506000	45.63	45.29	20.0	9.000	10.0	27.37	73.0	14.71	60.0
0.886000	47.90	46.20	20.0	9.000	10.0	25.10	73.0	13.80	60.0
2.990000	50.92	45.96	20.0	9.000	10.1	22.08	73.0	14.04	60.0
4.286000	44.35	39.22	20.0	9.000	10.2	28.65	73.0	20.78	60.0
5.694000	49.65	44.16	20.0	9.000	10.2	23.35	73.0	15.84	60.0

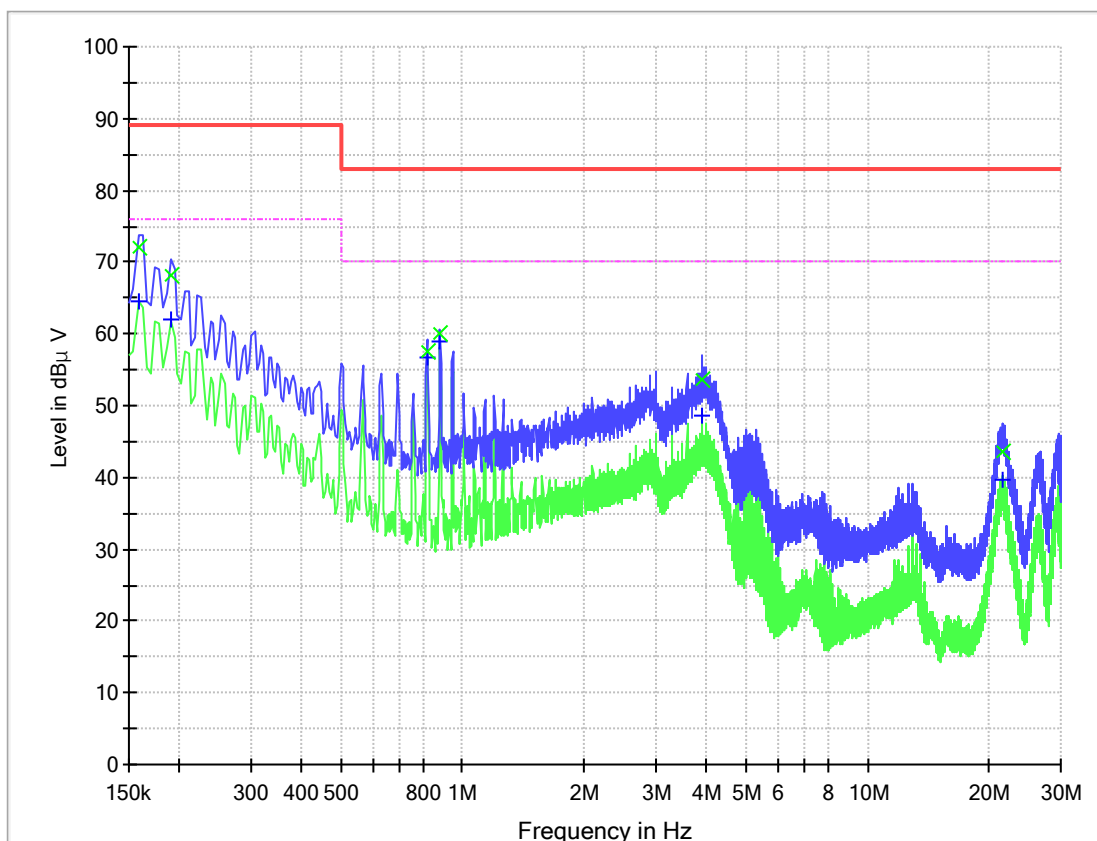


DC+ Common Information

Test Description:	CTS 5m Chamber Laboratory
Test Site:	SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard:	EN 61000-6-4
Environment Conditions:	Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name:	Xiao Yun
Comment:	Charging Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.158000	72.08	64.53	20.0	9.000	30.8	16.92	89.0	11.47	76.0
0.190000	68.15	62.01	20.0	9.000	29.6	20.85	89.0	13.99	76.0
0.818000	57.66	56.72	20.0	9.000	28.6	25.34	83.0	13.28	70.0
0.882000	59.96	58.93	20.0	9.000	28.6	23.04	83.0	11.07	70.0
3.886000	53.77	48.54	20.0	9.000	29.1	29.23	83.0	21.46	70.0
21.650000	43.71	39.57	20.0	9.000	29.9	39.29	83.0	30.43	70.0

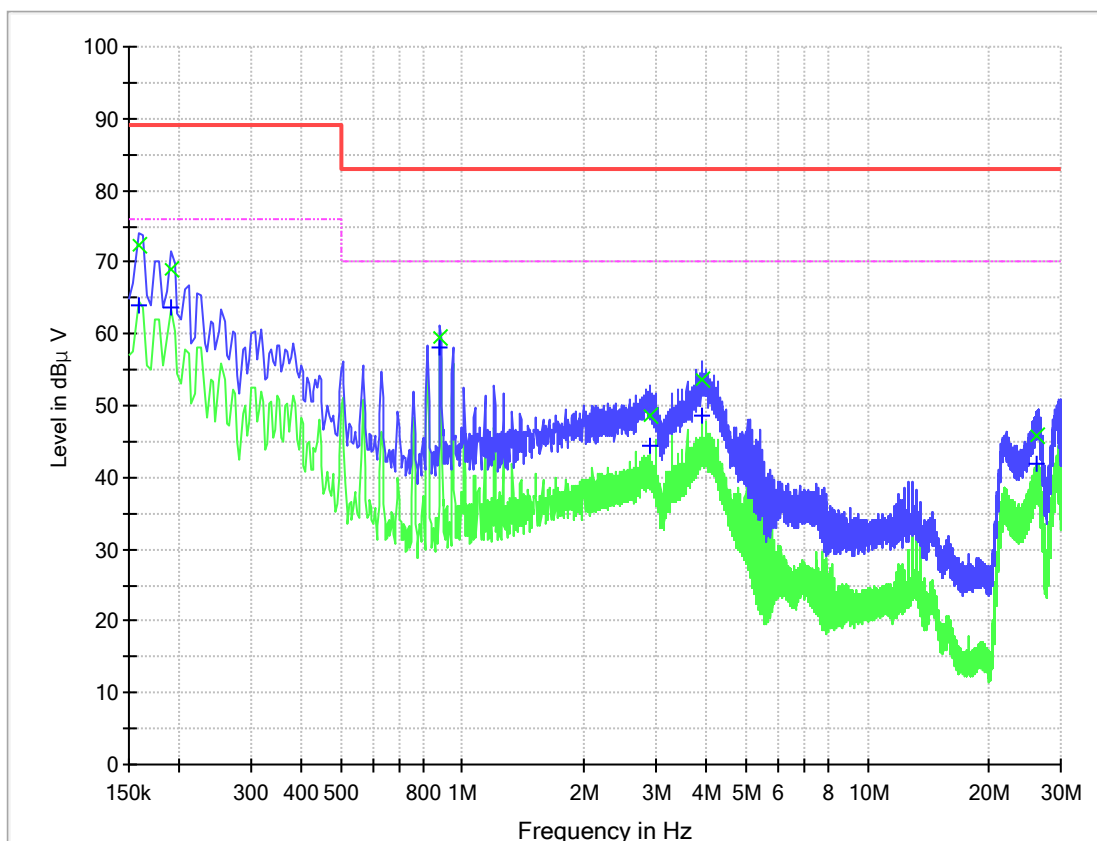


DC- Common Information

Test Description:	CTS 5m Chamber Laboratory
Test Site:	SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard:	EN 61000-6-4
Environment Conditions:	Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name:	Xiao Yun
Comment:	Charging Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.158000	72.30	64.10	20.0	9.000	30.8	16.70	89.0	11.90	76.0
0.190000	68.95	63.56	20.0	9.000	29.6	20.05	89.0	12.44	76.0
0.882000	59.38	58.10	20.0	9.000	28.6	23.62	83.0	11.90	70.0
2.890000	48.72	44.33	20.0	9.000	28.8	34.28	83.0	25.67	70.0
3.886000	53.50	48.56	20.0	9.000	29.1	29.50	83.0	21.44	70.0
26.050000	45.82	41.76	20.0	9.000	30.3	37.18	83.0	28.24	70.0



Discharge

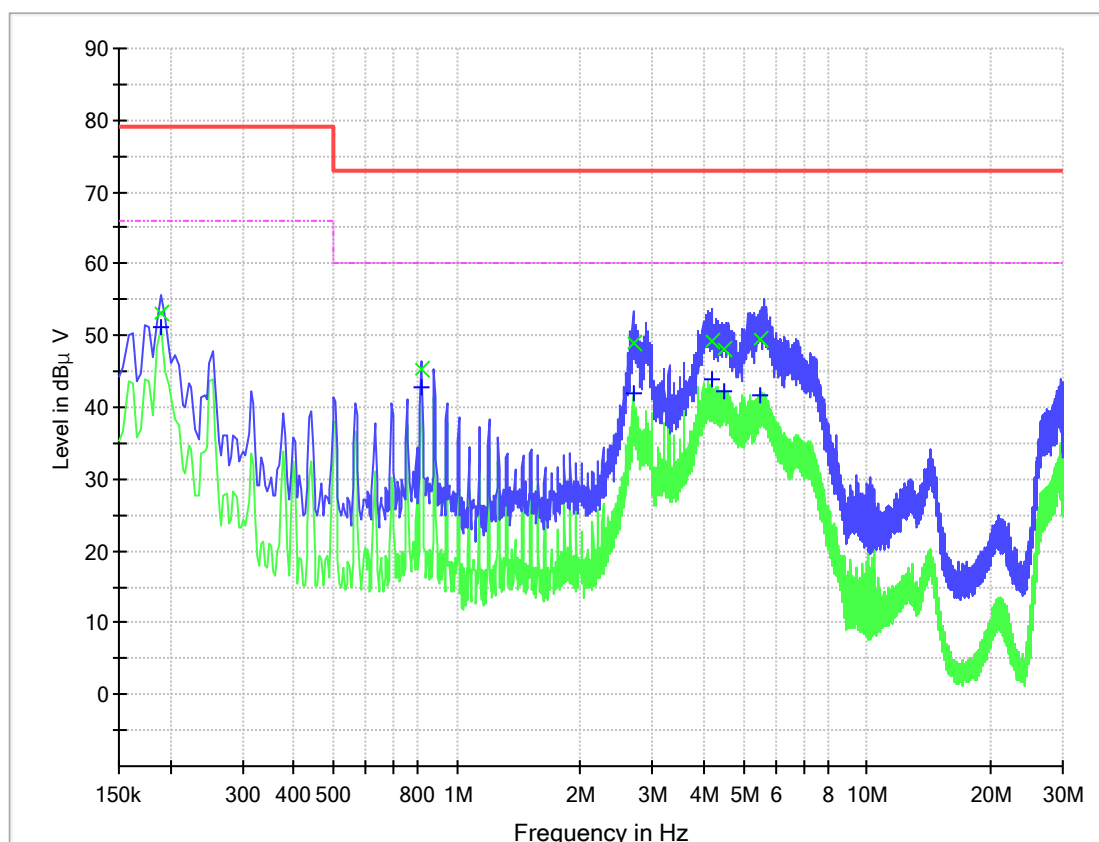
L1

Common Information

Test Description: CTS 5m Chamber Laboratory
Test Site: SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard: EN 61000-6-4
Environment Conditions: Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name: Xiao Yun
Comment: Discharge Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.190000	53.04	51.15	20.0	9.000	10.0	25.96	79.0	14.85	66.0
0.818000	45.26	42.89	20.0	9.000	10.0	27.74	73.0	17.11	60.0
2.690000	48.81	41.94	20.0	9.000	10.1	24.19	73.0	18.06	60.0
4.190000	49.27	43.78	20.0	9.000	10.2	23.73	73.0	16.22	60.0
4.478000	48.01	42.29	20.0	9.000	10.2	24.99	73.0	17.71	60.0
5.518000	49.60	41.67	20.0	9.000	10.2	23.40	73.0	18.33	60.0



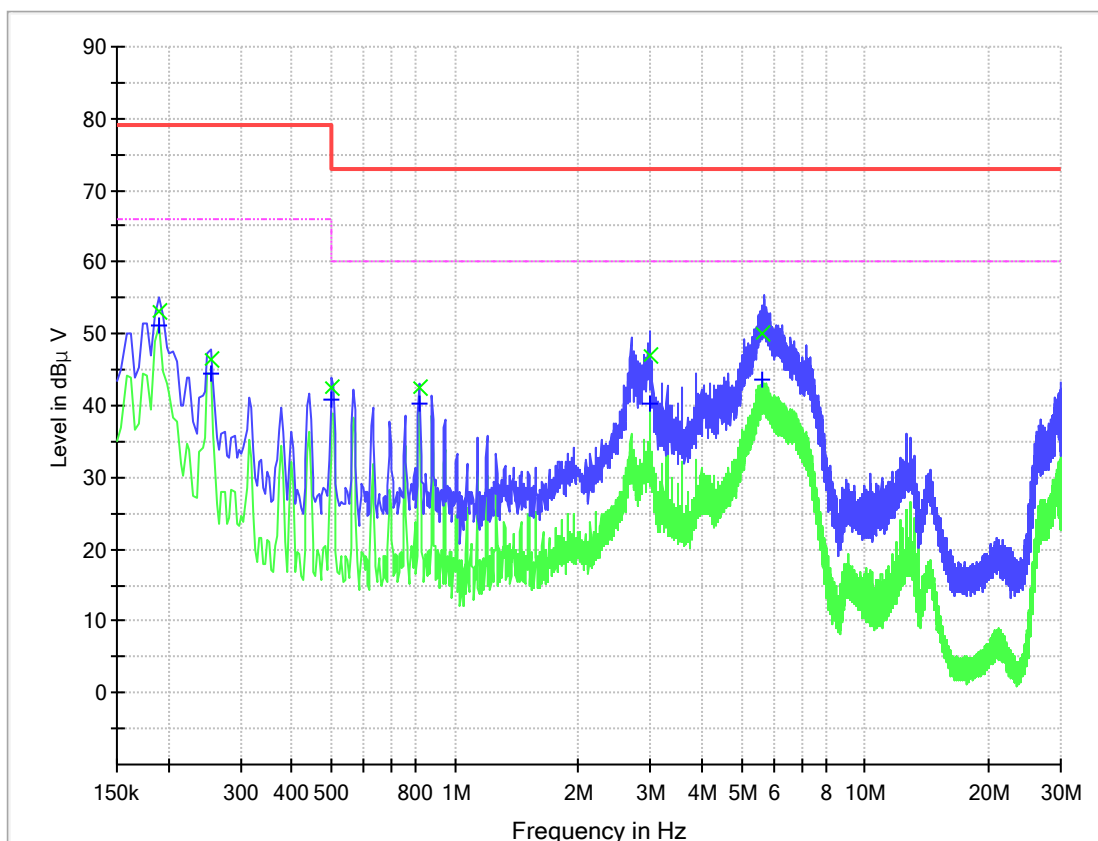
L2

Common Information

Test Description:	CTS 5m Chamber Laboratory
Test Site:	SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard:	EN 61000-6-4
Environment Conditions:	Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name:	Xiao Yun
Comment:	Discharge Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.190000	53.14	51.31	20.0	9.000	10.0	25.86	79.0	14.69	66.0
0.254000	46.32	44.55	20.0	9.000	10.0	32.68	79.0	21.45	66.0
0.502000	42.43	40.71	20.0	9.000	10.0	30.57	73.0	19.29	60.0
0.818000	42.52	40.40	20.0	9.000	10.0	30.48	73.0	19.60	60.0
2.990000	47.04	40.15	20.0	9.000	10.1	25.96	73.0	19.85	60.0
5.582000	50.08	43.70	20.0	9.000	10.2	22.92	73.0	16.30	60.0



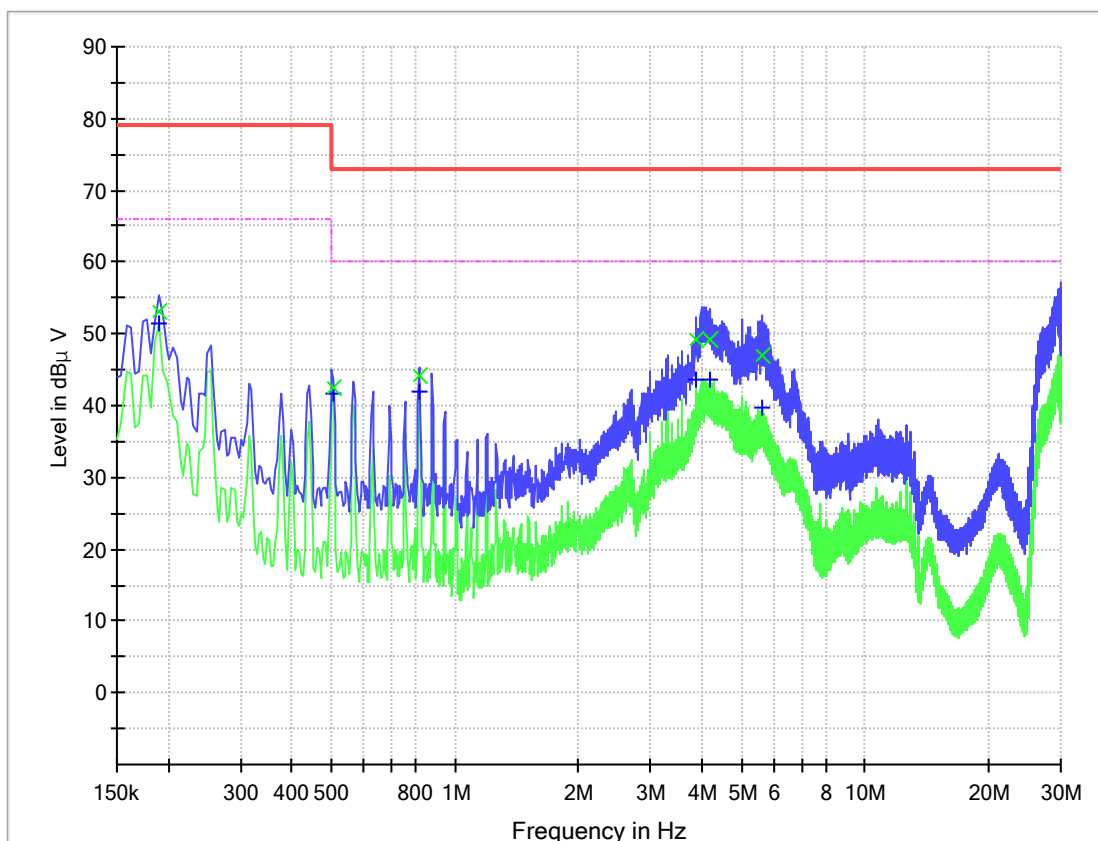
L3

Common Information

Test Description:	CTS 5m Chamber Laboratory
Test Site:	SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard:	EN 61000-6-4
Environment Conditions:	Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name:	Xiao Yun
Comment:	Discharge Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.190000	53.24	51.35	20.0	9.000	10.0	25.76	79.0	14.65	66.0
0.506000	42.53	41.68	20.0	9.000	10.0	30.47	73.0	18.32	60.0
0.818000	44.06	42.00	20.0	9.000	10.0	28.94	73.0	18.00	60.0
3.886000	49.25	43.67	20.0	9.000	10.1	23.75	73.0	16.33	60.0
4.174000	49.09	43.54	20.0	9.000	10.2	23.91	73.0	16.46	60.0
5.582000	46.90	39.67	20.0	9.000	10.2	26.10	73.0	20.33	60.0



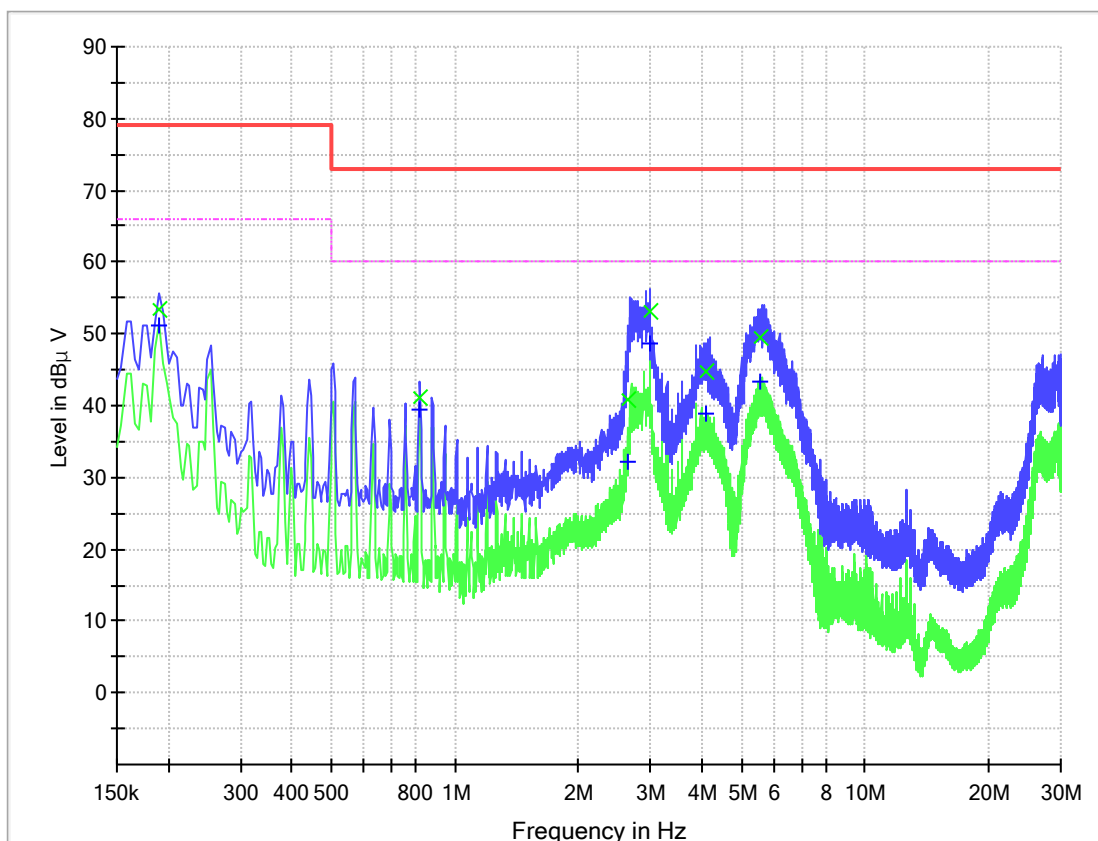
N

Common Information

Test Description:	CTS 5m Chamber Laboratory
Test Site:	SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard:	EN 61000-6-4
Environment Conditions:	Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name:	Xiao Yun
Comment:	Discharge Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.190000	53.34	51.23	20.0	9.000	10.0	25.66	79.0	14.77	66.0
0.822000	41.18	39.45	20.0	9.000	10.0	31.82	73.0	20.55	60.0
2.646000	40.92	32.28	20.0	9.000	10.1	32.08	73.0	27.72	60.0
2.990000	53.19	48.60	20.0	9.000	10.1	19.81	73.0	11.40	60.0
4.094000	44.87	38.89	20.0	9.000	10.2	28.13	73.0	21.11	60.0
5.554000	49.36	43.35	20.0	9.000	10.2	23.64	73.0	16.65	60.0

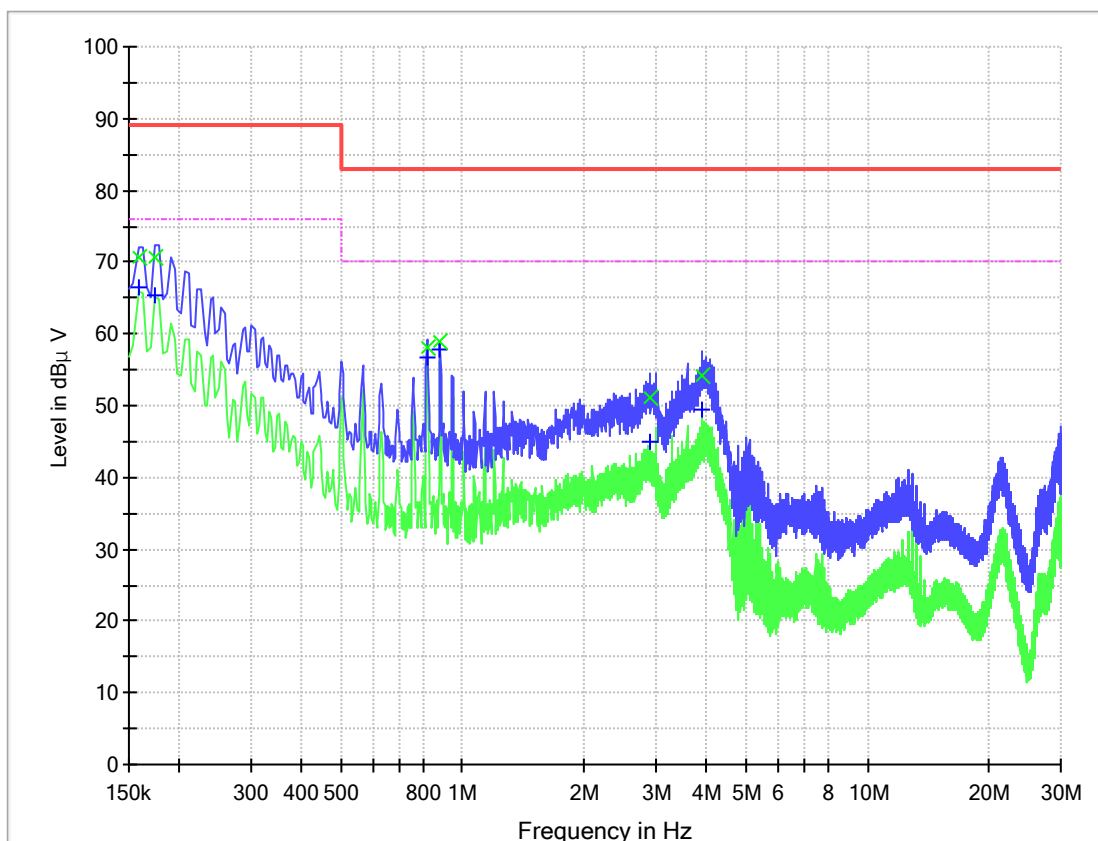


DC+ Common Information

Test Description:	CTS 5m Chamber Laboratory
Test Site:	SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard:	EN 61000-6-4
Environment Conditions:	Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name:	Xiao Yun
Comment:	Discharge Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.158000	70.65	66.35	20.0	9.000	30.8	18.35	89.0	9.65	76.0
0.174000	70.80	65.24	20.0	9.000	30.2	18.20	89.0	10.76	76.0
0.818000	58.17	56.65	20.0	9.000	28.6	24.83	83.0	13.35	70.0
0.882000	59.03	57.88	20.0	9.000	28.6	23.97	83.0	12.12	70.0
2.894000	50.98	45.07	20.0	9.000	28.8	32.02	83.0	24.93	70.0
3.886000	54.11	49.54	20.0	9.000	29.1	28.89	83.0	20.46	70.0

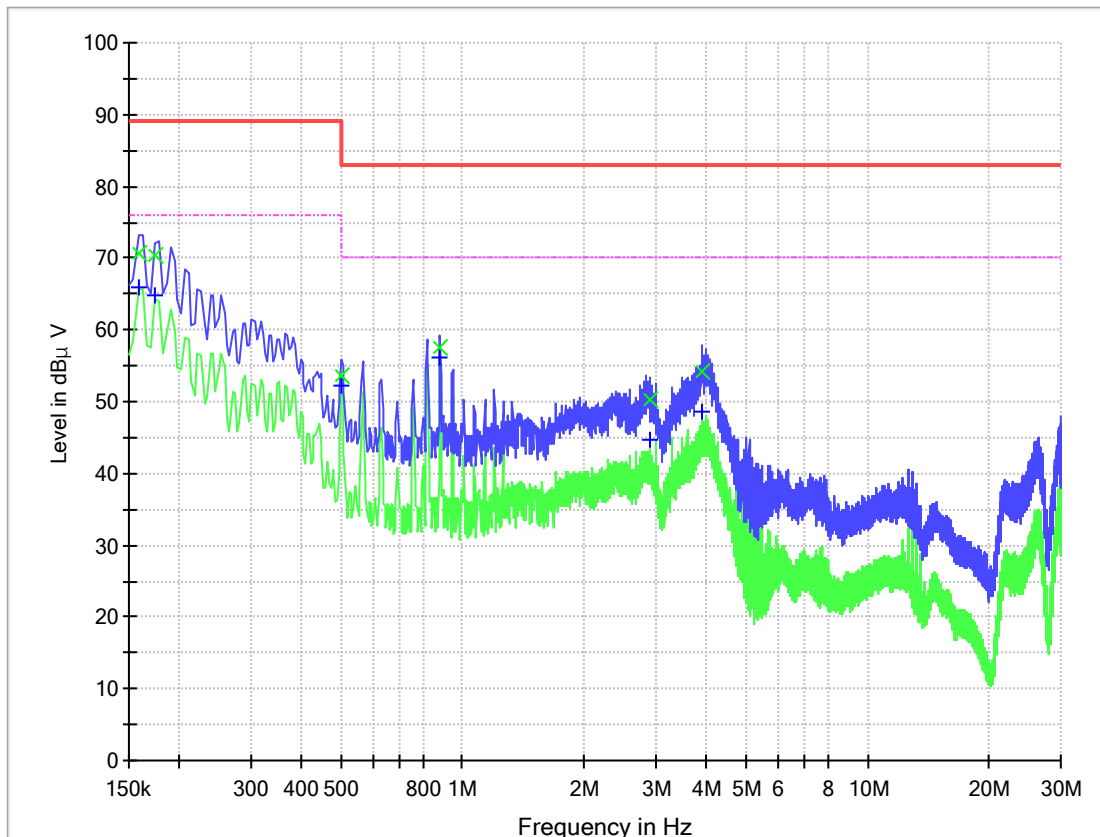


DC- Common Information

Test Description: CTS 5m Chamber Laboratory
Test Site: SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard: EN 61000-6-4
Environment Conditions: Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name: Xiao Yun
Comment: Discharge Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)
0.158000	70.60	65.82	20.0	9.000	30.8	18.40	89.0	10.18	76.0
0.174000	70.36	64.88	20.0	9.000	30.2	18.64	89.0	11.12	76.0
0.502000	53.57	52.17	20.0	9.000	28.6	29.43	83.0	17.83	70.0
0.882000	57.66	56.28	20.0	9.000	28.6	25.34	83.0	13.72	70.0
2.894000	50.29	44.59	20.0	9.000	28.8	32.71	83.0	25.41	70.0
3.886000	54.16	48.64	20.0	9.000	29.1	28.84	83.0	21.36	70.0



Charging

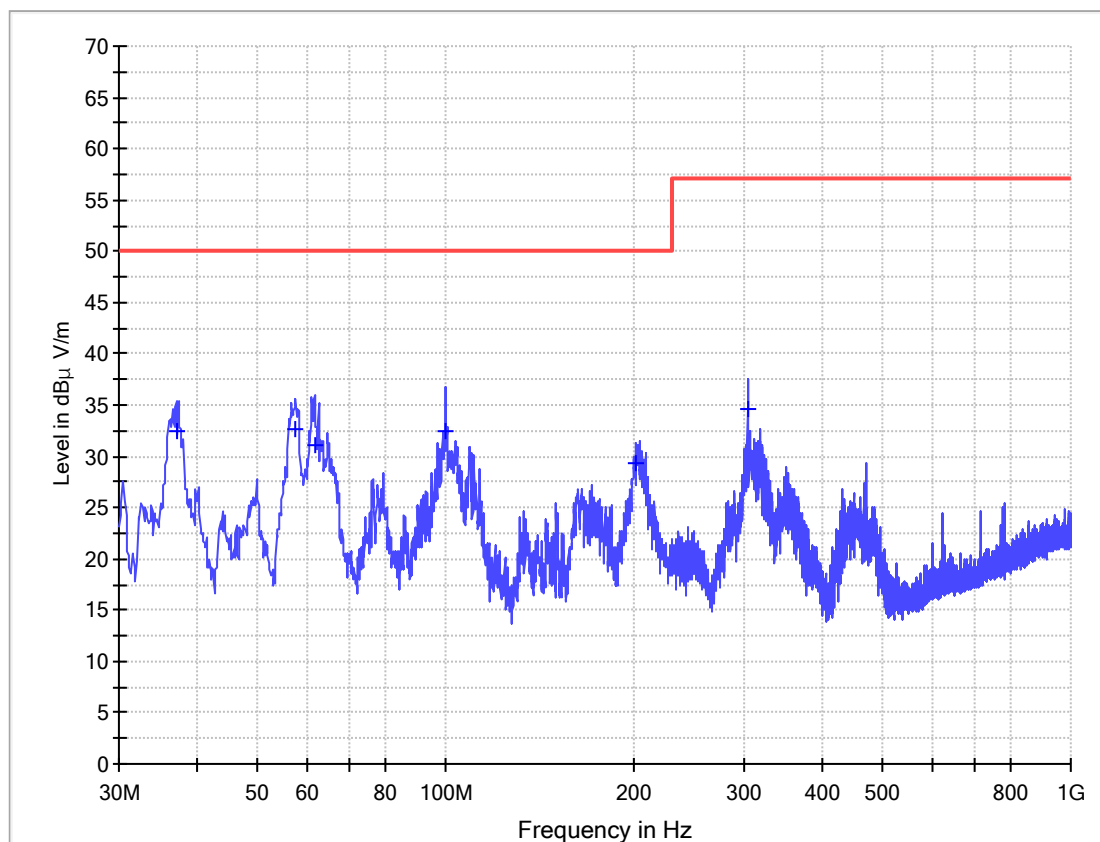
H

Common Information

Test Description: CTS 5m Chamber Laboratory
Test Site: SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard: EN 61000-6-4
Environment Conditions: Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name: Xiao Yun
Comment: Charging Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
37.040000	32.41	20.0	120.000	260	H	26.4	-15.0	17.59	50.0
57.400000	32.56	20.0	120.000	293	H	18.8	-15.5	17.44	50.0
61.640000	31.04	20.0	120.000	212	H	46.7	-16.0	18.96	50.0
99.960000	32.55	20.0	120.000	326	H	307.3	-17.9	17.45	50.0
201.680000	29.27	20.0	120.000	296	H	207.4	-17.4	20.73	50.0
303.800000	34.56	20.0	120.000	312	H	108.6	-13.9	22.44	57.0



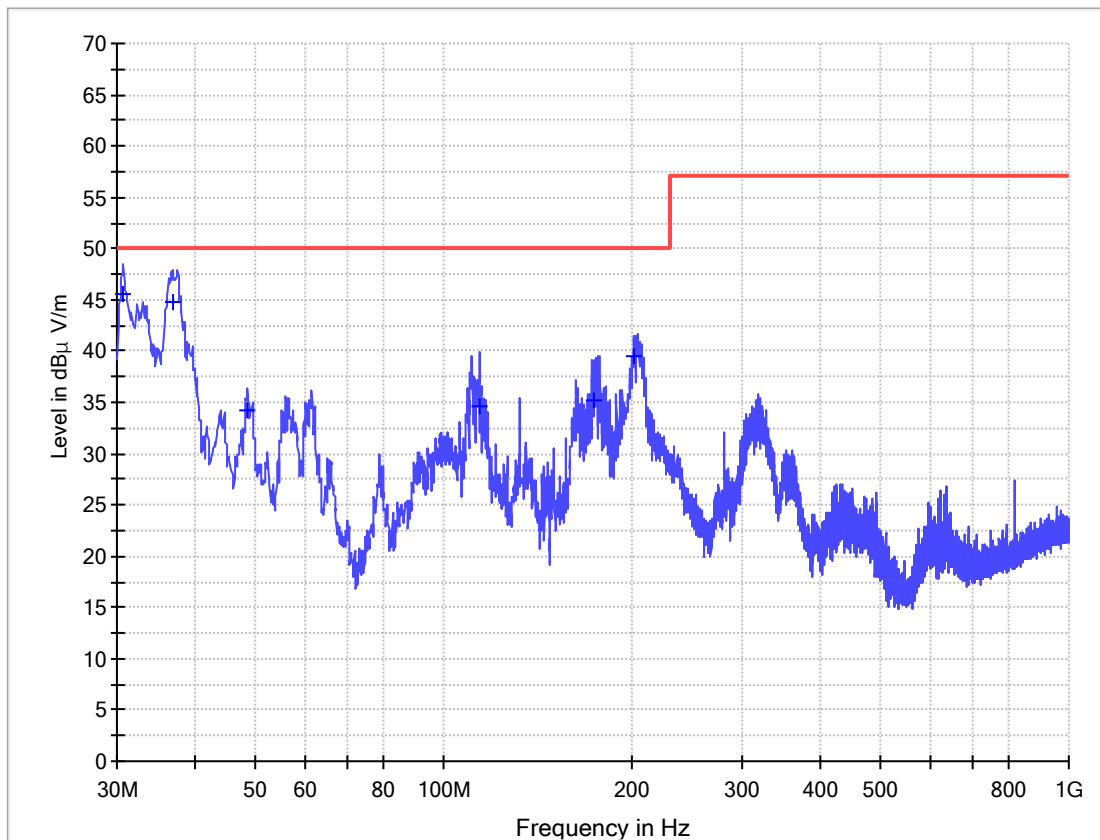
V

Common Information

Test Description:	CTS 5m Chamber Laboratory
Test Site:	SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard:	EN 61000-6-4
Environment Conditions:	Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name:	Xiao Yun
Comment:	Charging Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.600000	45.47	20.0	120.000	105	V	208.3	-15.5	4.53	50.0
36.800000	44.69	20.0	120.000	197	V	178.3	-15.0	5.31	50.0
48.560000	34.21	20.0	120.000	182	V	317.6	-14.9	15.79	50.0
113.920000	34.58	20.0	120.000	130	V	273.7	-16.4	15.42	50.0
174.400000	35.17	20.0	120.000	141	V	277.4	-15.0	14.83	50.0
201.920000	39.55	20.0	120.000	104	V	140.6	-17.4	10.45	50.0



Discharge

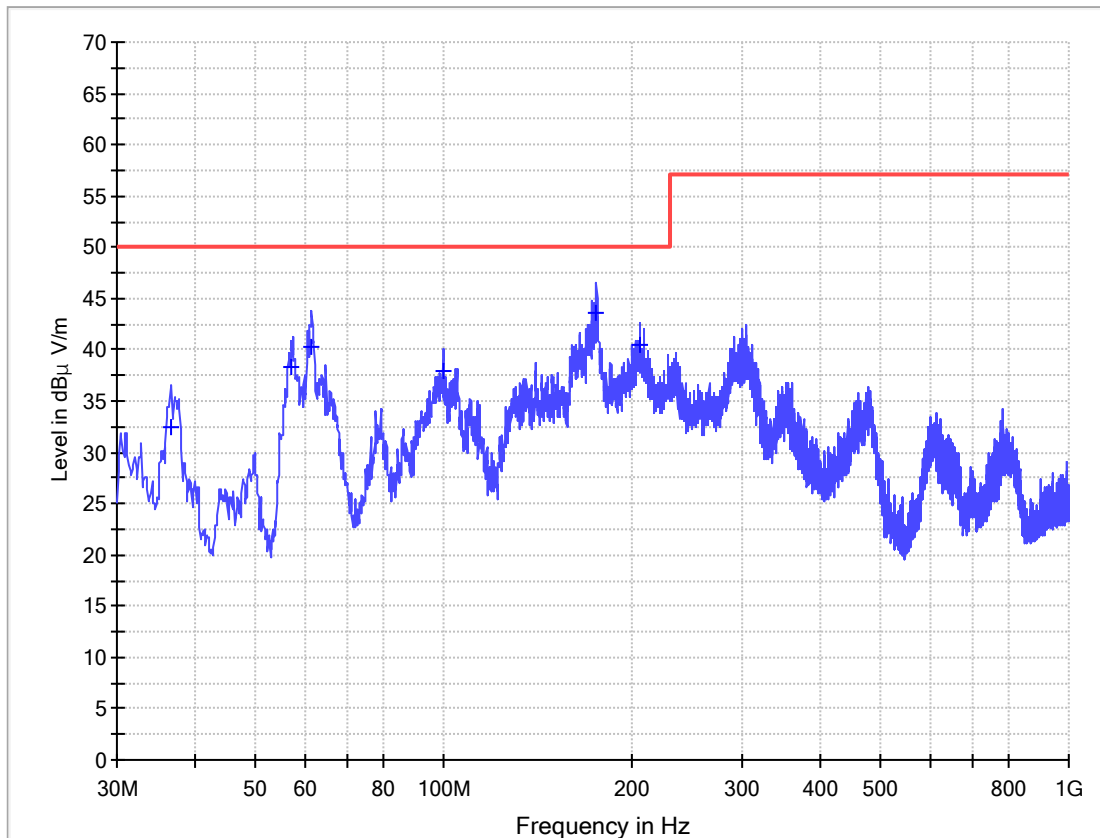
H

Common Information

Test Description: CTS 5m Chamber Laboratory
Test Site: SHENZHEN CHENGXIN TECHNOLOGY SERVICE CO., LTD.
Test Standard: EN 61000-6-4
Environment Conditions: Temperature: 20°C, Humidity: 52%RH, 101kPa
Operator Name: Xiao Yun
Comment: Discharge Mode, 800Vdc, 100% Load

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
36.680000	32.54	20.0	120.000	271	H	214.2	-15.0	17.46	50.0
57.040000	38.32	20.0	120.000	262	H	227.4	-15.5	11.68	50.0
61.520000	40.21	20.0	120.000	280	H	309.8	-15.9	9.79	50.0
99.720000	38.01	20.0	120.000	269	H	153.7	-17.9	11.99	50.0
175.760000	43.51	20.0	120.000	380	H	264.5	-15.2	6.49	50.0
206.280000	40.55	20.0	120.000	284	H	202.2	-17.3	9.45	50.0



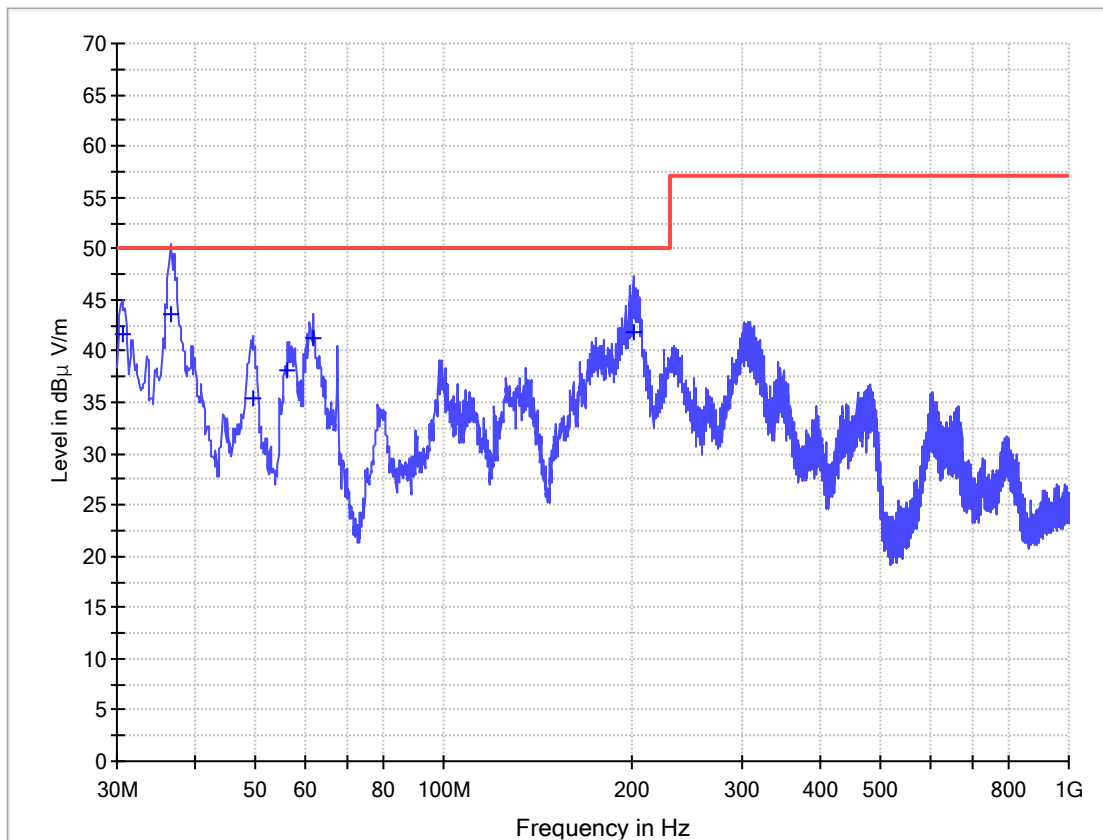
V

Common Information

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30.600000	41.70	20.0	120.000	178	V	240.1	-15.5	8.30	50.0
36.560000	43.69	20.0	120.000	174	V	248.5	-15.1	6.31	50.0
49.520000	35.48	20.0	120.000	138	V	144.0	-15.0	14.52	50.0
56.320000	38.11	20.0	120.000	120	V	65.8	-15.4	11.89	50.0
61.880000	41.24	20.0	120.000	147	V	284.4	-16.0	8.76	50.0
200.840000	41.86	20.0	120.000	200	V	44.6	-17.4	8.14	50.0



Measurement Uncertainties

Table 1: Measurement Uncertainty levels

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cispr})
Conducted Emission	Level accuracy (150kHz to 30MHz)	± 2.76 dB	± 3.4 dB
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 4.34 dB	± 6.3 dB