



EMC TEST REPORT

Applicant NOKIA Shanghai Bell CO., Ltd.
FCC ID 2ADZRXS2426XA
Product ONT
Brand NOKIA
Model XS-2426X-A
Report No. R2112A1145-E1V1
Issue Date May 10, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Code CFR47 Part15B (2021)/ ANSI C63.4 (2014)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Wei Liu

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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	April 2, 2022
Rev.1	Update information.	May 10, 2022
Note: This revised report (Report No. R2112A1145-E1V1) supersedes and replaces the previously issued report (Report No. R2112A1145-E1). Please discard or destroy the previously issued report and dispose of it accordingly.		



Summary of measurement results

Number	Test Case	Clause in FCC Rules	Conclusion
1	Radiated Emission	FCC Part15.109, ANSI C63.4-2014	PASS
2	Conducted Emission	FCC Part15.107, ANSI C63.4-2014	PASS
Date of Testing: December 7, 2021 ~ March 4, 2022			
Date of Sample Received: December 6, 2021			
Note: All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
City: Shanghai
Post code: 201201
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E-mail: fanguangchang@ta-shanghai.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Nokia ShangHai Bell Co., Ltd.
Applicant address	No. 388, Ningqiao Rd. Pilot Free Trade Zone Shanghai 201206 P.R.China
Manufacturer	Nokia ShangHai Bell Co., Ltd.
Manufacturer address	No. 388, Ningqiao Rd. Pilot Free Trade Zone Shanghai 201206 P.R.China

2.2 General information

EUT Description			
Device Type	Movable Device		
Model	XS-2426X-A		
SN	ALCL00861234		
HW Version	PEM2.0		
SW Version	3FE49864T48612		
Power Rating	DC 12V from Adapter.		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Antenna Type	Internal Antenna		
Frequency	Band	Tx (MHz)	Rx (MHz)
	Wi-Fi 2.4G	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 5G(U-NII-1)	5150 ~ 5250	5150 ~ 5250
	Wi-Fi 5G(U-NII-2A)	5250 ~ 5350	5250 ~ 5350
	Wi-Fi 5G(U-NII-2C)	5470 ~ 5725	5470 ~ 5725
	Wi-Fi 5G(U-NII-3)	5725 ~ 5850	5725 ~ 5850
Auxiliary test equipment			
PC	PC Manufacturer: Microsoft Corporation Model: 1724 SN: 032324771953		
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.			

**Information of Configuration:**

No.	Name	Model/Code No.	Edition	Serial No. or Quantity
1	EMA-XS-2426X-A	3FE 49691 AAAA	PEM2.0	PEM2.0
2	Power adapter	HONOR: ADS-40FKJ-12N 12036EPCU	A/0	1PCS
3	Power adapter	FUHUA: UES36WU-120300SPA	A/0	1PCS
4	UPS	Cyber Power: DTC36U12V3-G	A/0	1PCS
5	UPS	PSI: PS36L-P7 and PS36L-EX-2	A/0	1PCS

ONT Mnemonic	Kit Code	EMA Code	Part Description	Power Adapter/UPS	
XS-2426X-A	3FE496 91AA	3FE 49691 AAAA	Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Nokia logo	ONT only	ONT only
XS-2426X-A	3FE496 90AA	3FE 49691 AAAA	Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Kit with US plug PS	HONOR: ADS-40FKJ-12N 12036EPCU	FUHUA: UES36WU-120300SPA
XS-2426X-A	3FE496 90AA	3FE 49691 AAAA	Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Kit with US plug PS	Cyber Power: DTC36U12V3-G	PSI: PS36L-P7 and PS36L-EX-2
XS-2426X-A	3FE496 90AB	3FE 49691 AAAA	Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Canada, US plug	HONOR: ADS-40FKJ-12N 12036EPCU	FUHUA: UES36WU-120300SPA
XS-2426X-A	3FE496 90AB	3FE 49691 AAAA	Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Canada, US plug	Cyber Power: DTC36U12V3-G	PSI: PS36L-P7 and PS36L-EX-2

NOTE: For KIT code 3FE49229AAAA, UPS equipment customers buy their own.

**Auxiliary equipment details**

No.	Name	Brand name	Model	ASB code	Valid Until
1	Test Center	Spirent	C1	DE48D0	No Cal. Required
2	OLT	Nokia	7360 ISAM FX-4	7661MC4L3KW965	No Cal. Required
3	PC	DELL	N/A	-	No Cal. Required

Information of Ports

No.	Port name	Number	Shielded or unshielded	Cable type (optic, twisted pair, etc.)	Max. Cable length
1	AC port	1	Unshielded	N/A	N/A
2	POTS	2	Unshielded	Twisted pair	2M
3	GE	3	Unshielded	CAT-5E or above	1.5M
4	10GE	1	shielded	CAT-7 or above	1.5M
5	USB	1	Unshielded	N/A	N/A



2.3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards

FCC Code CFR47 Part15B (2021)

ANSI C63.4 (2014)



2.4 Test Mode

Description: The XS-2426X-A is a ONT which has one 10 GE LAN port, three GE LAN ports, one XGS-PON BOB, two POTS.

The basic functional test in normal room conditions consists of the data traffic test. XS-2426X-A runs one data traffics on each line with Test Center, the each upstream is 8Gbps, and downstream is 8Gbps. Frame loss ratio less than $10e-7$.

3 Test Case Results

3.1 Radiated Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C~35°C	30%~60%	101.5kPa

Methods of Measurement

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The distance between EUT and receive antenna should be 3 meters. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated signal level.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. During the test, the EUT is worked at maximum output power.

Set the spectrum analyzer in the following:

Below 1GHz:

RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

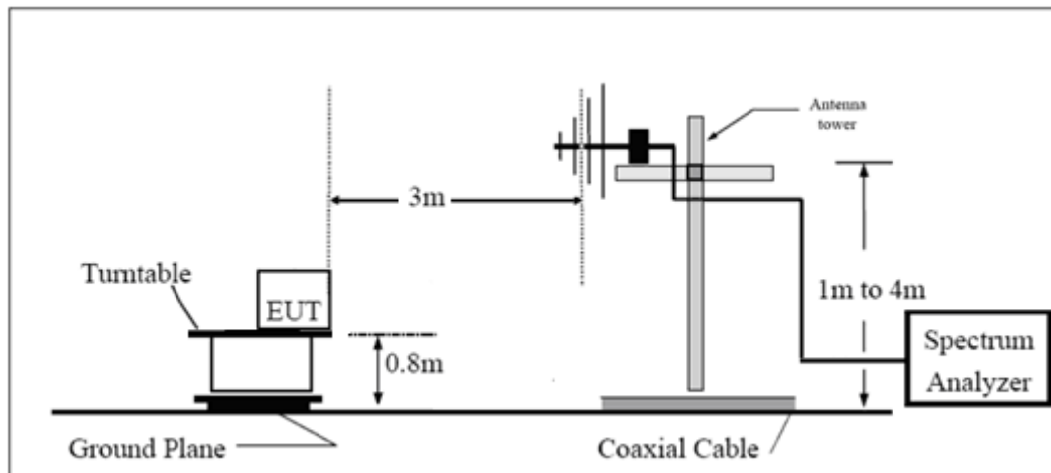
(b) AVERAGE Detector: RBW=1MHz / VBW=3MHz / Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

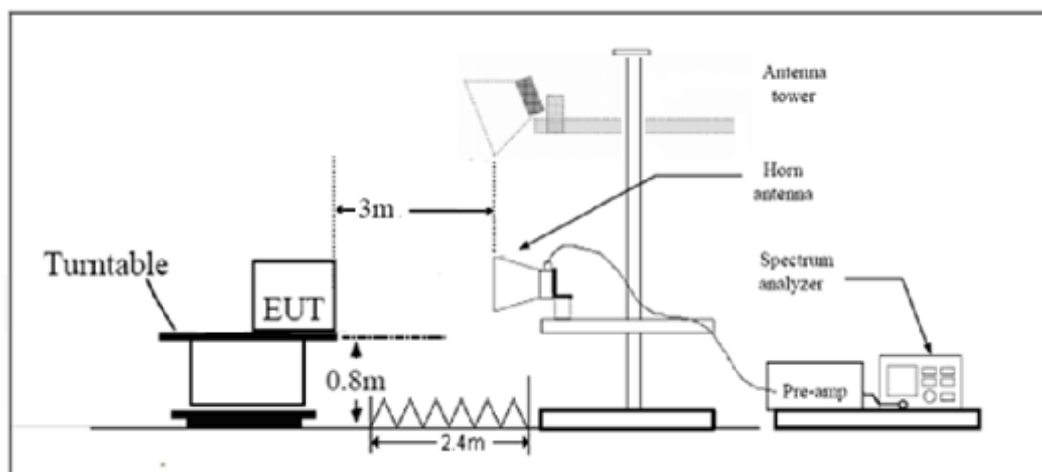
During the test, EUT is connected to a laptop via a USB cable in the case of Transfer Data mode. The EUT is used as the peripheral equipment of the PC. The data is transferred from EUT to PC;

Test Setup

Below 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m

Antenna Tower meets ANSI C63.4 requirements for measurements above 1 GHz by keeping the antenna aimed at the EUT during the antenna's ascent/ descent along the antenna mast.

Limits

Class B

Frequency (MHz)	Field Strength (dB μ V/m)	Detector
30 -88	40.0	Quasi-peak
88-216	43.5	Quasi-peak
216 – 960	46.0	Quasi-peak
960-1000	54.0	Quasi-peak
1000-5 th harmonic of the highest frequency or 40GHz, which is lower	54 74	Average Peak

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
30MHz~200MHz	4.17 dB
200MHz~1000MHz	4.84 dB
1GHz~18GHz	4.35 dB

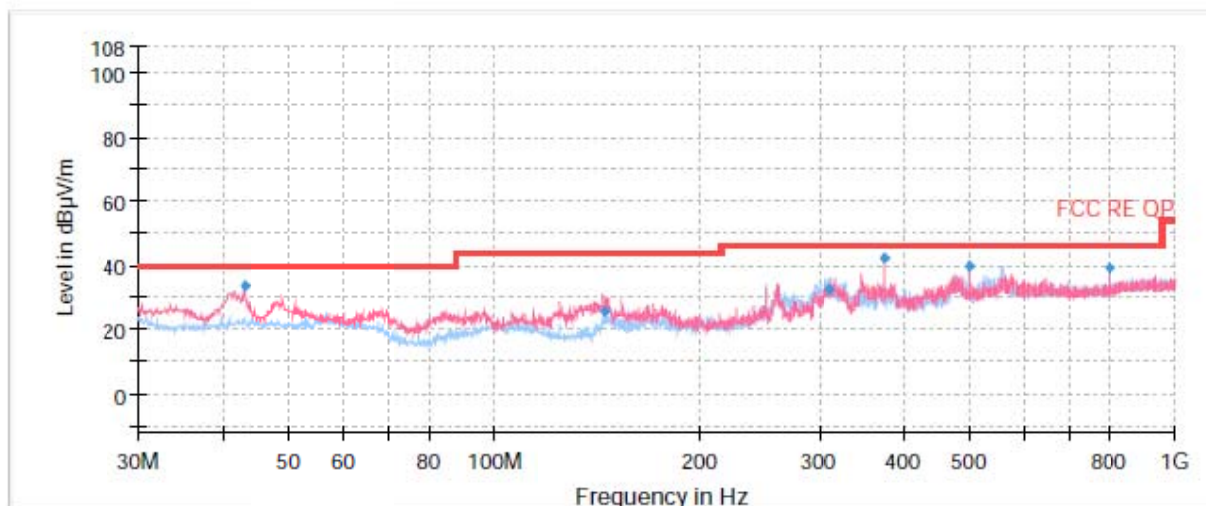
Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. The Emissions in the frequency band 18GHz – 26.5GHz is more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.

For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

Cyber Power

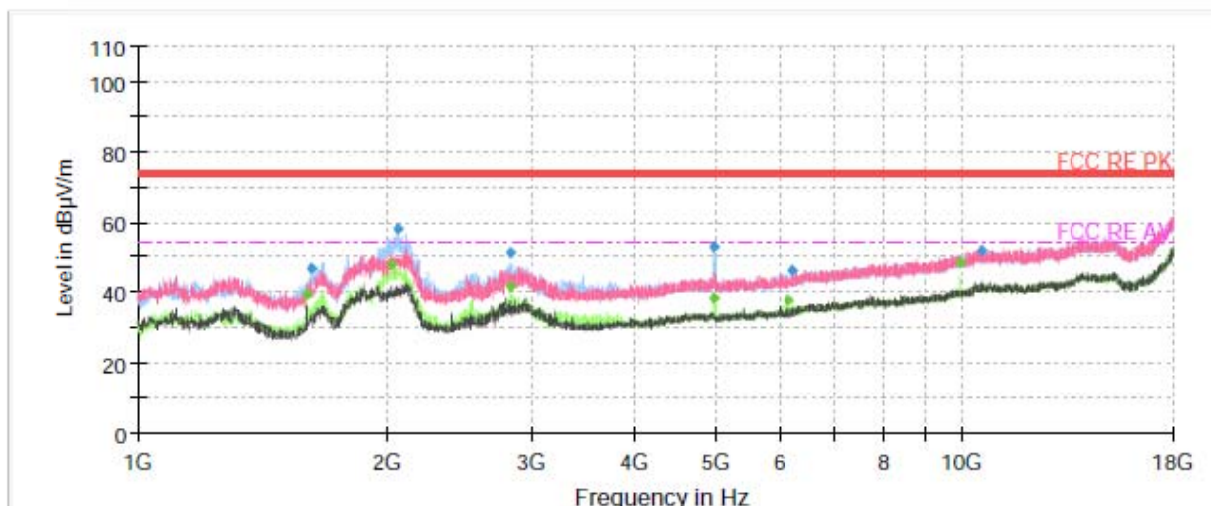


Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
42.892500	33.51	40.00	6.49	1000.0	175.0	V	290.0	14
145.097500	25.25	43.50	18.25	1000.0	100.0	V	121.0	9
311.005000	32.47	46.00	13.53	1000.0	100.0	H	244.0	15
374.996250	42.27	46.00	3.73	1000.0	118.0	V	178.0	17
500.005000	39.80	46.00	6.20	1000.0	100.0	V	135.0	20
799.978750	39.33	46.00	6.67	1000.0	100.0	V	335.0	23

Remark: 1. Correction Factor = Antenna factor + Insertion loss(cable loss+amplifier gain)

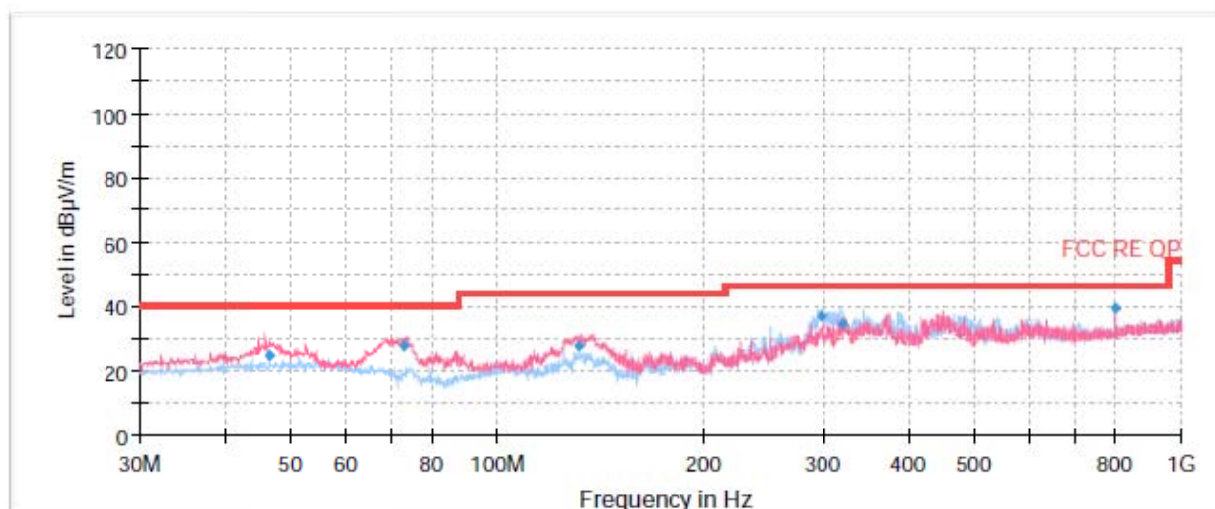
2. Margin = Limit – Quasi-Peak



Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1600.171000	---	39.46	54.00	14.54	500.0	100.0	H	14.0	-16
1623.535333	46.61	---	74.00	27.39	500.0	200.0	H	128.0	-16
2027.027333	---	48.14	54.00	5.86	500.0	100.0	H	134.0	-15
2069.282334	58.03	---	74.00	15.97	500.0	100.0	H	105.0	-15
2831.412333	---	41.74	54.00	12.26	500.0	100.0	H	204.0	-13
2831.541666	51.47	---	74.00	22.53	500.0	100.0	H	204.0	-13
4990.686666	---	38.47	54.00	15.53	500.0	100.0	H	147.0	-8
4992.429000	52.87	---	74.00	21.13	500.0	100.0	H	147.0	-8
6119.860666	---	37.69	54.00	16.31	500.0	100.0	H	204.0	-6
6210.357666	46.43	---	74.00	27.57	500.0	100.0	H	190.0	-6
9953.242000	---	48.31	54.00	5.69	500.0	100.0	H	335.0	-1
10553.520000	51.94	---	74.00	22.06	500.0	100.0	H	90.0	0

FUHUA

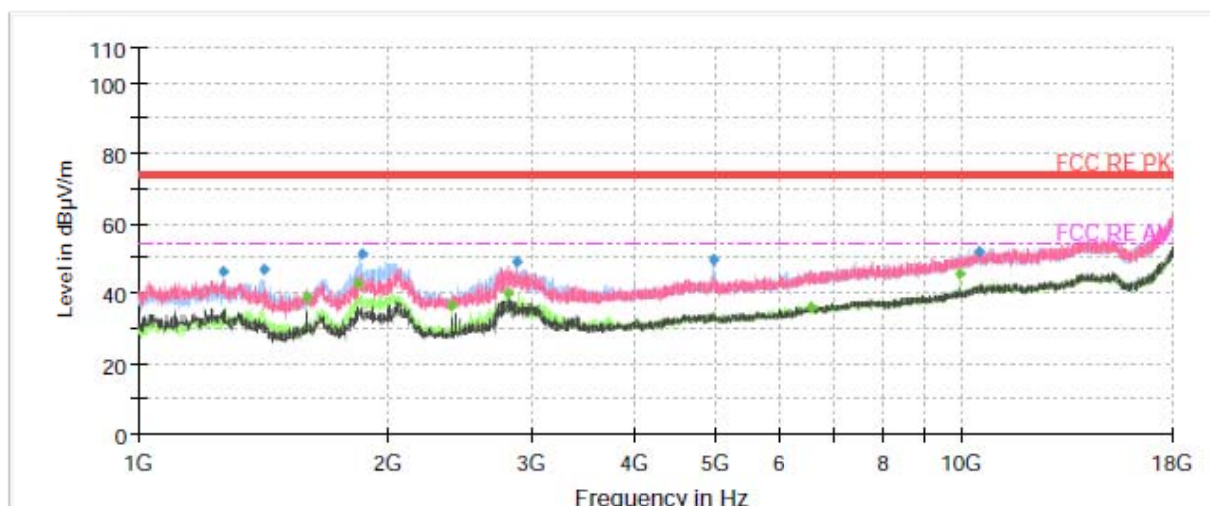


Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
46.563750	24.44	40.00	15.56	1000.0	105.0	V	276.0	14
73.252500	27.39	40.00	12.61	1000.0	100.0	V	266.0	9
131.498750	27.70	43.50	15.80	1000.0	100.0	V	296.0	10
297.083750	36.70	46.00	9.30	1000.0	100.0	H	255.0	15
319.653750	34.56	46.00	11.44	1000.0	100.0	H	272.0	15
799.978750	39.59	46.00	6.41	1000.0	100.0	H	294.0	23

Remark: 1. Correction Factor = Antenna factor + Insertion loss(cable loss+amplifier gain)

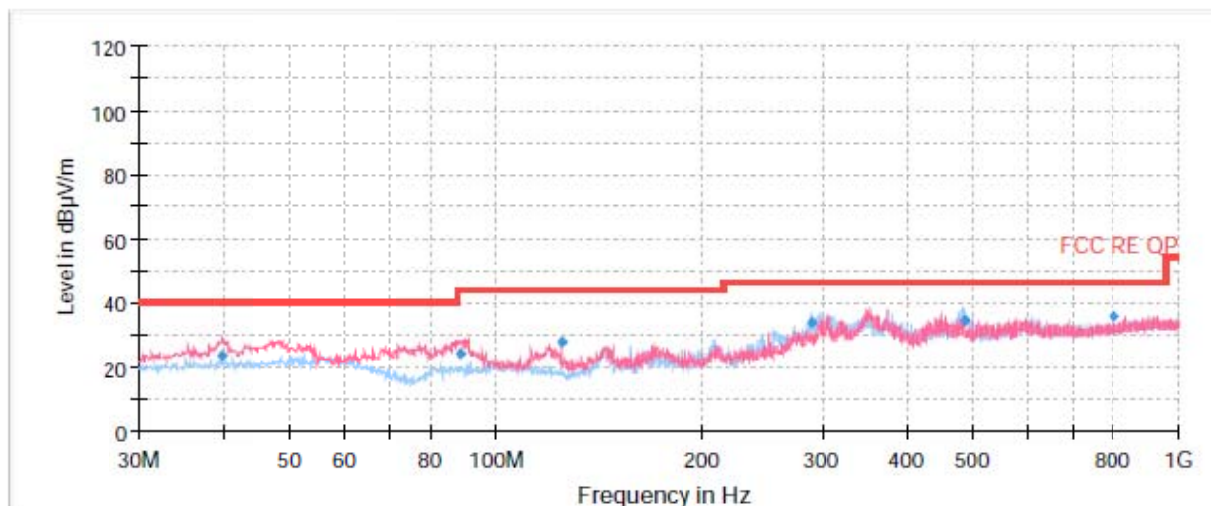
2. Margin = Limit – Quasi-Peak



Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1271.643000	46.32	---	74.00	27.68	500.0	100.0	H	14.0	-18
1416.327333	46.60	---	74.00	27.40	500.0	100.0	H	211.0	-17
1599.900666	---	39.12	54.00	14.88	500.0	100.0	H	211.0	-16
1850.029000	---	43.13	54.00	10.87	500.0	100.0	H	211.0	-15
1864.444000	51.56	---	74.00	22.44	500.0	100.0	H	14.0	-15
2402.213667	---	36.68	54.00	17.32	500.0	100.0	H	326.0	-14
2811.681334	---	40.10	54.00	13.90	500.0	100.0	V	134.0	-13
2878.175333	49.24	---	74.00	24.76	500.0	100.0	H	227.0	-13
4985.142334	49.41	---	74.00	24.59	500.0	100.0	H	211.0	-8
6535.766667	---	36.23	54.00	17.77	500.0	100.0	V	3.0	-4
9953.243333	---	45.78	54.00	8.22	500.0	200.0	H	320.0	-1
10494.418667	51.83	---	74.00	22.17	500.0	100.0	V	204.0	0

HONOR

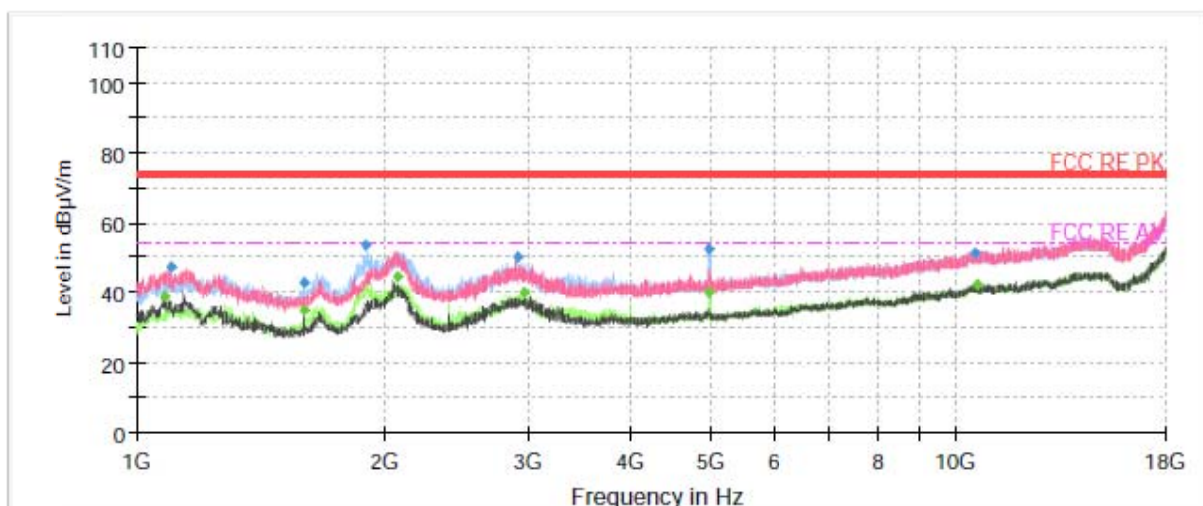


Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
39.661250	23.65	40.00	16.35	1000.0	105.0	V	100.0	14
88.437500	23.94	43.50	19.56	1000.0	125.0	V	129.0	11
124.978750	27.76	43.50	15.74	1000.0	100.0	V	66.0	10
289.146250	33.64	46.00	12.36	1000.0	105.0	H	265.0	15
483.020000	34.45	46.00	11.55	1000.0	100.0	H	313.0	19
799.978750	35.85	46.00	10.15	1000.0	100.0	H	68.0	23

Remark: 1. Correction Factor = Antenna factor + Insertion loss(cable loss+amplifier gain)

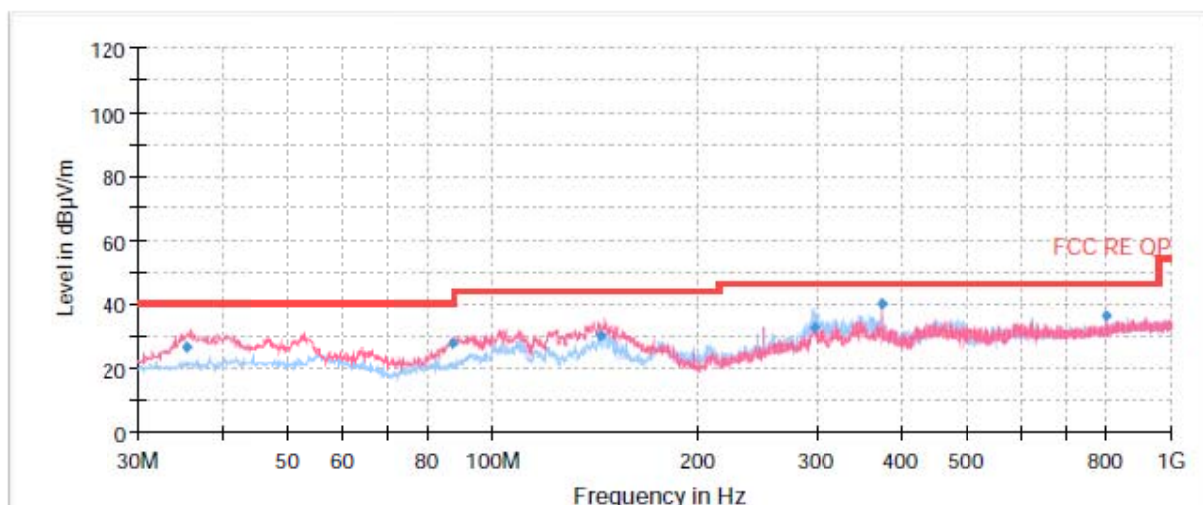
2. Margin = Limit – Quasi-Peak



Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1082.299333	---	39.11	54.00	14.89	500.0	100.0	V	148.0	-19
1096.909000	47.17	---	74.00	26.83	500.0	100.0	V	148.0	-19
1599.645000	43.04	---	74.00	30.96	500.0	100.0	H	353.0	-16
1600.062000	---	35.19	54.00	18.81	500.0	100.0	H	353.0	-16
1903.828666	53.54	---	74.00	20.46	500.0	100.0	H	26.0	-15
2073.524000	---	44.46	54.00	9.54	500.0	100.0	H	26.0	-15
2914.504000	50.17	---	74.00	23.83	500.0	100.0	H	233.0	-13
2971.654333	---	40.27	54.00	13.73	500.0	100.0	H	233.0	-13
4984.688666	52.37	---	74.00	21.63	500.0	100.0	H	218.0	-8
4986.169666	---	40.24	54.00	13.76	500.0	100.0	H	233.0	-8
10561.153000	51.46	---	74.00	22.54	500.0	400.0	H	27.0	0
10590.587666	---	42.24	54.00	11.76	500.0	100.0	H	147.0	0

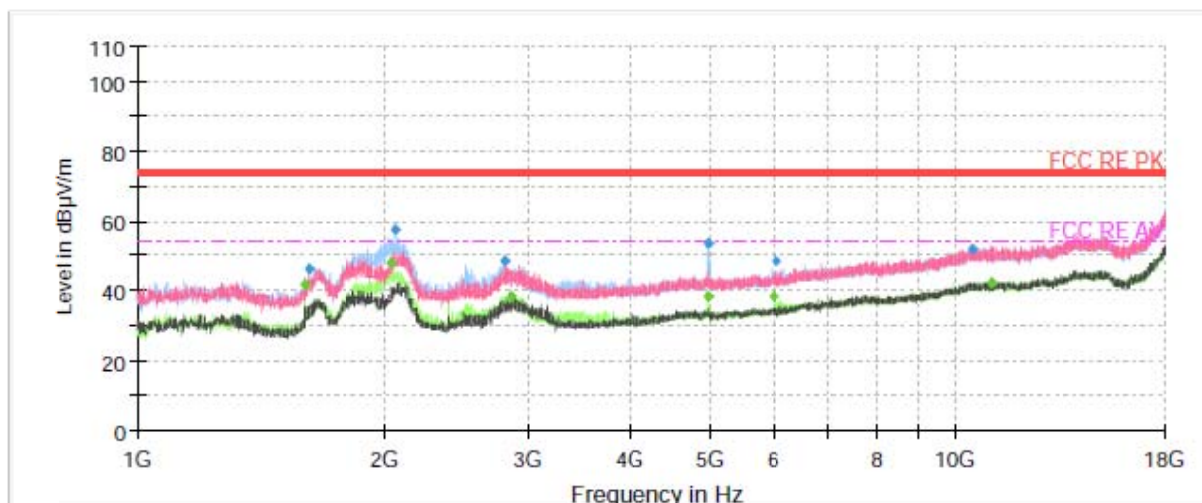
PSI



Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
35.501250	26.23	40.00	13.77	1000.0	118.0	V	292.0	13
87.502500	27.73	40.00	12.27	1000.0	125.0	V	268.0	10
143.971250	30.17	43.50	13.33	1000.0	100.0	V	204.0	9
298.273750	32.91	46.00	13.09	1000.0	100.0	H	100.0	15
374.996250	40.17	46.00	5.83	1000.0	125.0	V	161.0	17
799.978750	36.19	46.00	9.81	1000.0	100.0	H	12.0	23

Remark: 1. Correction Factor = Antenna factor + Insertion loss(cable loss+amplifier gain)
2. Margin = Limit – Quasi-Peak



Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1599.908000	---	41.47	54.00	12.53	500.0	100.0	H	139.0	-16
1619.102666	46.07	---	74.00	27.93	500.0	100.0	V	228.0	-16
2042.833333	---	48.04	54.00	5.96	500.0	100.0	H	139.0	-15
2065.331334	57.52	---	74.00	16.48	500.0	100.0	H	139.0	-15
2819.032334	48.27	---	74.00	25.73	500.0	100.0	V	33.0	-13
2872.093666	---	38.30	54.00	15.70	500.0	100.0	V	228.0	-13
4981.938334	---	38.13	54.00	15.87	500.0	100.0	H	139.0	-8
4991.546000	53.55	---	74.00	20.45	500.0	100.0	H	227.0	-8
6005.341334	---	38.18	54.00	15.82	500.0	100.0	H	198.0	-5
6008.701000	48.66	---	74.00	25.34	500.0	100.0	H	198.0	-5
10446.882334	51.63	---	74.00	22.37	500.0	300.0	H	313.0	-1
11062.137333	---	42.22	54.00	11.78	500.0	100.0	V	185.0	1

3.2 Conducted Emission

Ambient condition

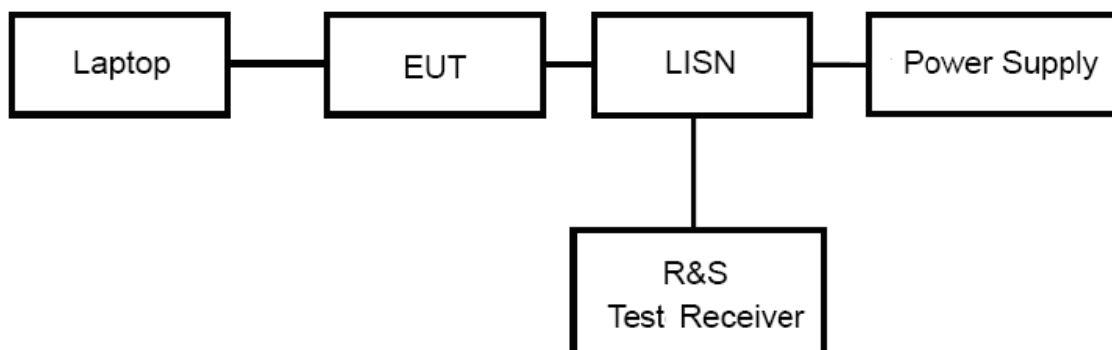
Temperature	Relative humidity	Pressure
15°C~35°C	30%~60%	101.5kPa

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

During the test, EUT is connected to a laptop via a USB cable in the case of Transfer Data mode. The EUT is used as the peripheral equipment of the PC. The data is transferred from EUT to PC;

Test Setup



Note: Power Supply is AC Power source and it is used to change the voltage 120V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

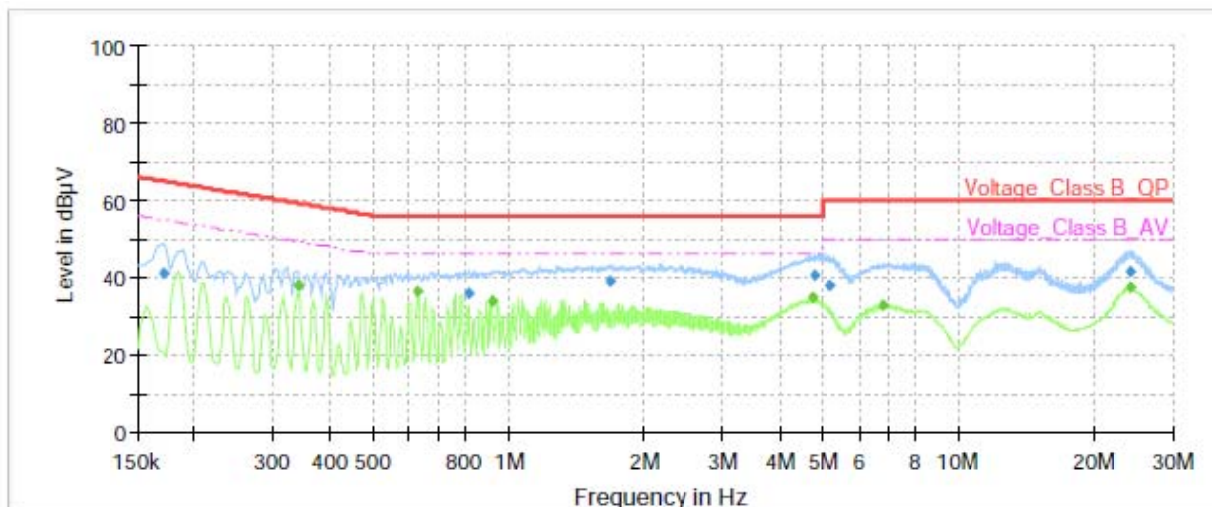
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$. $U = 2.57$ dB.

Test Results

Following plots, Blue trace uses the peak detection; Green trace uses the average detection.

Cyber Power

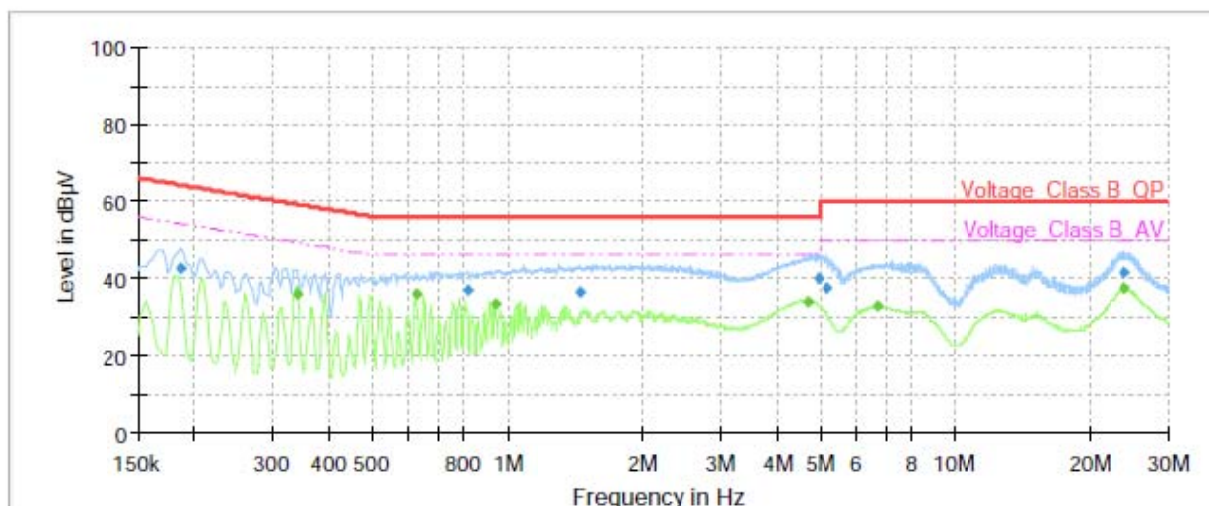


Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.17	40.91	---	64.95	24.04	70.0	9.000	L1	ON	21
0.34	---	37.82	49.17	11.35	70.0	9.000	L1	ON	21
0.63	---	36.41	46.00	9.59	70.0	9.000	L1	ON	20
0.82	35.73	---	56.00	20.27	70.0	9.000	L1	ON	20
0.92	---	33.68	46.00	12.32	70.0	9.000	L1	ON	20
1.67	38.80	---	56.00	17.20	70.0	9.000	L1	ON	20
4.75	---	34.63	46.00	11.37	70.0	9.000	L1	ON	19
4.81	40.35	---	56.00	15.65	70.0	9.000	L1	ON	19
5.17	37.98	---	60.00	22.02	70.0	9.000	L1	ON	19
6.80	---	32.67	50.00	17.33	70.0	9.000	L1	ON	20
24.01	41.53	---	60.00	18.47	70.0	9.000	L1	ON	20
24.04	---	37.27	50.00	12.73	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 KHz to 30 MHz



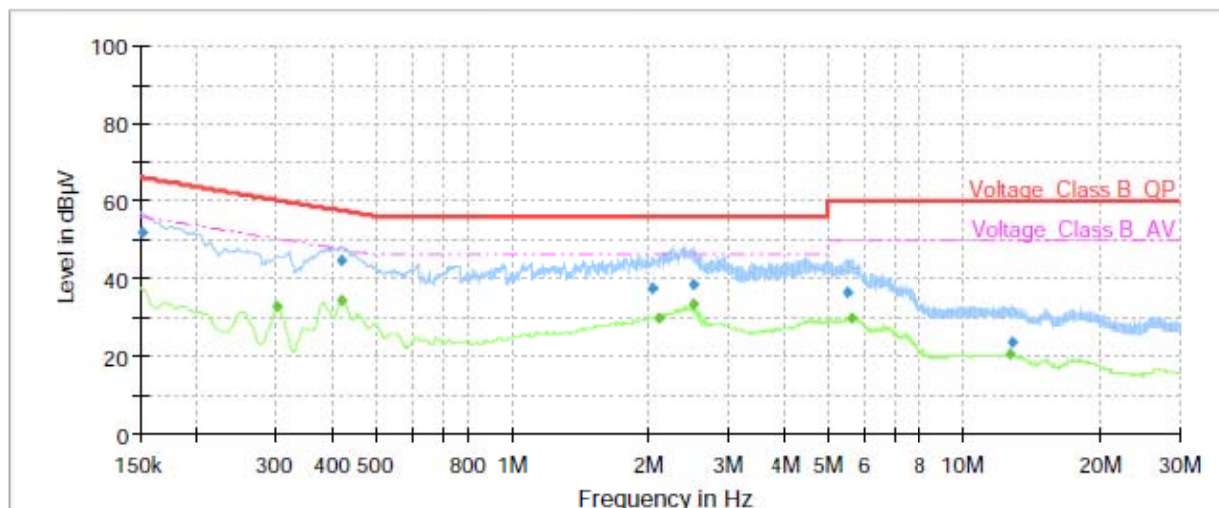
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.19	42.80	---	64.21	21.41	70.0	9.000	N	ON	21
0.34	---	36.15	49.23	13.08	70.0	9.000	N	ON	21
0.62	---	36.02	46.00	9.98	70.0	9.000	N	ON	20
0.82	36.67	---	56.00	19.33	70.0	9.000	N	ON	20
0.94	---	33.43	46.00	12.57	70.0	9.000	N	ON	20
1.45	36.34	---	56.00	19.66	70.0	9.000	N	ON	20
4.66	---	34.00	46.00	12.00	70.0	9.000	N	ON	19
4.93	40.18	---	56.00	15.82	70.0	9.000	N	ON	19
5.19	37.63	---	60.00	22.37	70.0	9.000	N	ON	19
6.71	---	32.73	50.00	17.27	70.0	9.000	N	ON	20
23.91	41.69	---	60.00	18.31	70.0	9.000	N	ON	20
23.97	---	37.53	50.00	12.47	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 KHz to 30 MHz

FUHUA

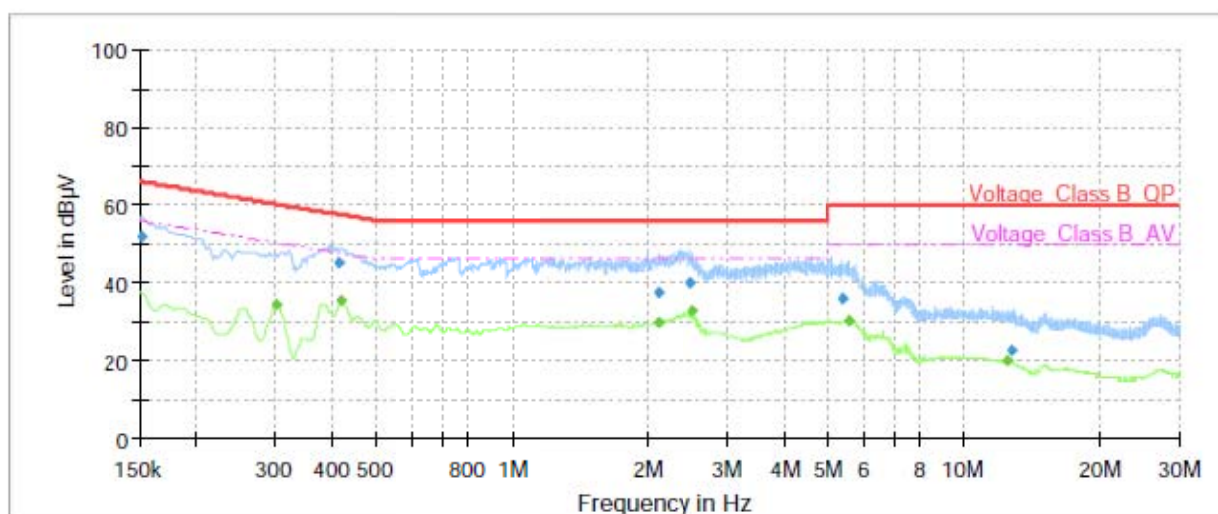


Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	51.79	---	65.88	14.09	70.0	9.000	L1	ON	21
0.30	---	32.74	50.16	17.42	70.0	9.000	L1	ON	21
0.42	44.38	---	57.45	13.07	70.0	9.000	L1	ON	20
0.42	---	34.47	47.45	12.98	70.0	9.000	L1	ON	20
2.04	37.39	---	56.00	18.61	70.0	9.000	L1	ON	20
2.12	---	30.00	46.00	16.00	70.0	9.000	L1	ON	20
2.51	---	33.12	46.00	12.88	70.0	9.000	L1	ON	19
2.51	38.43	---	56.00	17.57	70.0	9.000	L1	ON	19
5.53	36.16	---	60.00	23.84	70.0	9.000	L1	ON	19
5.63	---	29.75	50.00	20.25	70.0	9.000	L1	ON	19
12.61	---	20.35	50.00	29.65	70.0	9.000	L1	ON	20
12.78	23.84	---	60.00	36.16	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 KHz to 30 MHz



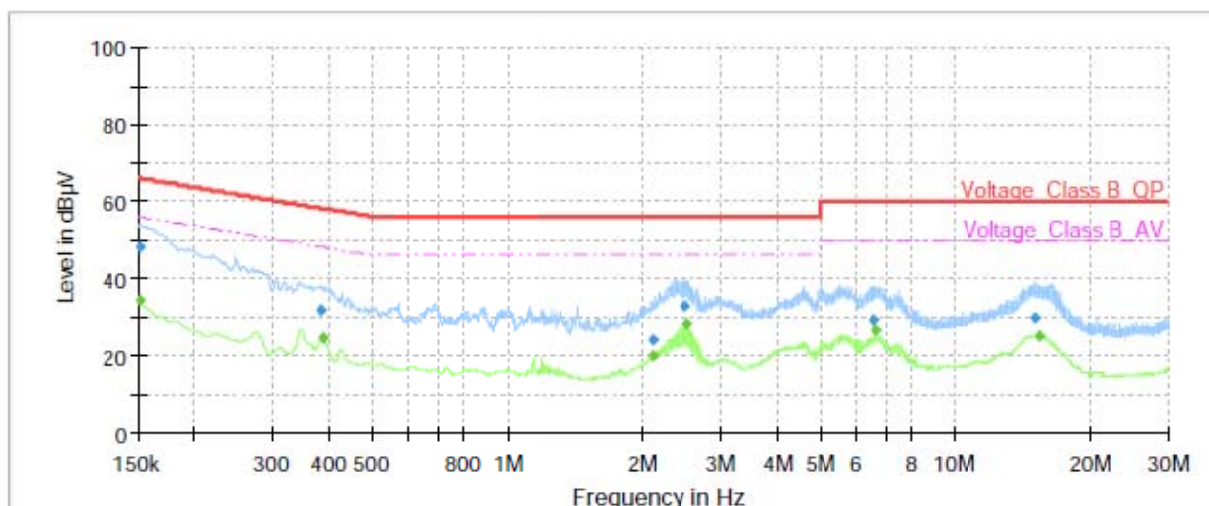
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	51.93	---	65.88	13.95	70.0	9.000	N	ON	21
0.30	---	34.36	50.16	15.80	70.0	9.000	N	ON	21
0.42	45.23	---	57.54	12.31	70.0	9.000	N	ON	20
0.42	---	35.36	47.45	12.09	70.0	9.000	N	ON	20
2.12	37.32	---	56.00	18.68	70.0	9.000	N	ON	20
2.12	---	29.50	46.00	16.50	70.0	9.000	N	ON	20
2.47	39.78	---	56.00	16.22	70.0	9.000	N	ON	19
2.51	---	32.97	46.00	13.03	70.0	9.000	N	ON	19
5.41	35.66	---	60.00	24.34	70.0	9.000	N	ON	19
5.55	---	30.11	50.00	19.89	70.0	9.000	N	ON	19
12.50	---	19.85	50.00	30.15	70.0	9.000	N	ON	20
12.79	22.44	---	60.00	37.56	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 KHz to 30 MHz

HONOR

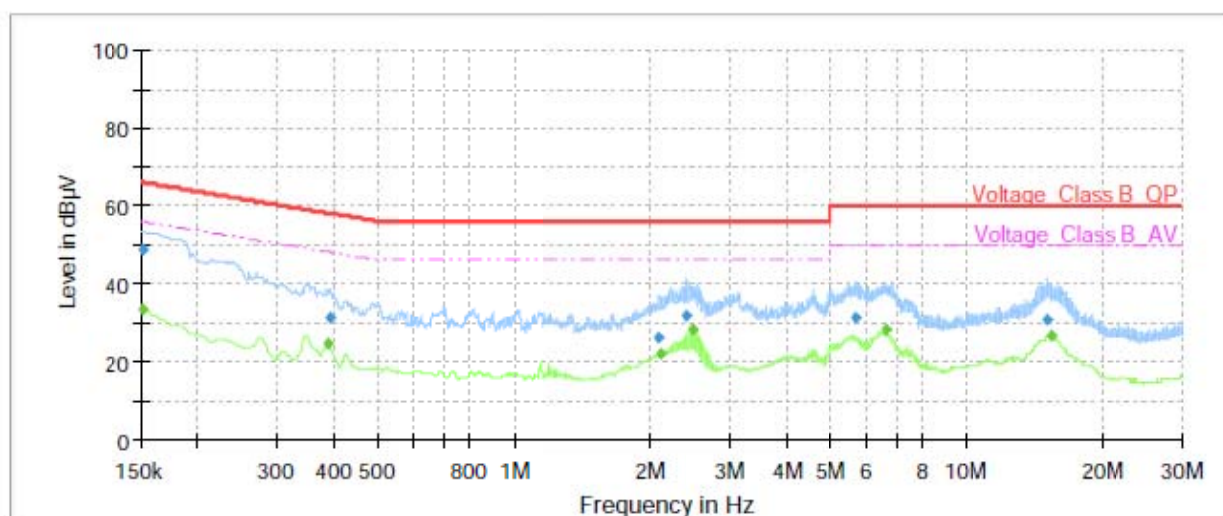


Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	48.34	---	65.88	17.54	70.0	9.000	L1	ON	21
0.15	---	34.24	55.88	21.64	70.0	9.000	L1	ON	21
0.38	31.88	---	58.19	26.31	70.0	9.000	L1	ON	20
0.39	---	24.60	48.14	23.54	70.0	9.000	L1	ON	20
2.10	24.13	---	56.00	31.87	70.0	9.000	L1	ON	20
2.12	---	19.78	46.00	26.22	70.0	9.000	L1	ON	20
2.49	33.07	---	56.00	22.93	70.0	9.000	L1	ON	19
2.51	---	28.30	46.00	17.70	70.0	9.000	L1	ON	19
6.59	29.13	---	60.00	30.87	70.0	9.000	L1	ON	19
6.66	---	26.58	50.00	23.42	70.0	9.000	L1	ON	20
15.06	29.52	---	60.00	30.48	70.0	9.000	L1	ON	20
15.36	---	25.16	50.00	24.84	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 KHz to 30 MHz



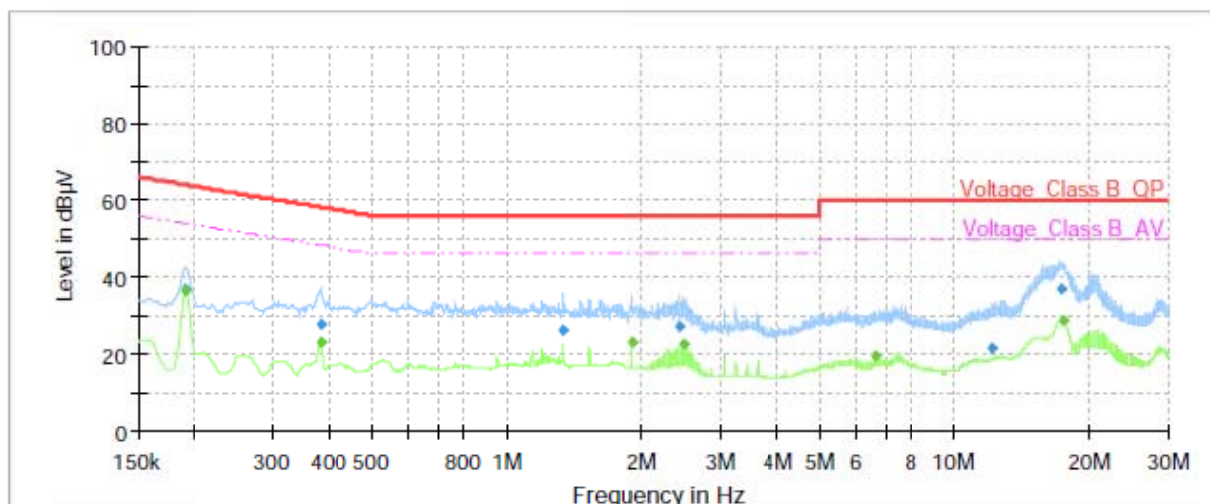
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	48.94	---	65.88	16.94	70.0	9.000	N	ON	21
0.15	---	33.39	55.88	22.49	70.0	9.000	N	ON	21
0.39	---	24.48	48.14	23.66	70.0	9.000	N	ON	21
0.39	31.21	---	58.05	26.84	70.0	9.000	N	ON	21
2.09	26.17	---	56.00	29.83	70.0	9.000	N	ON	20
2.12	---	22.04	46.00	23.96	70.0	9.000	N	ON	20
2.41	32.01	---	56.00	23.99	70.0	9.000	N	ON	20
2.47	---	28.19	46.00	17.81	70.0	9.000	N	ON	19
5.68	31.10	---	60.00	28.90	70.0	9.000	N	ON	19
6.66	---	27.99	50.00	22.01	70.0	9.000	N	ON	20
15.03	30.72	---	60.00	29.28	70.0	9.000	N	ON	20
15.38	---	26.49	50.00	23.51	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 KHz to 30 MHz

PSI

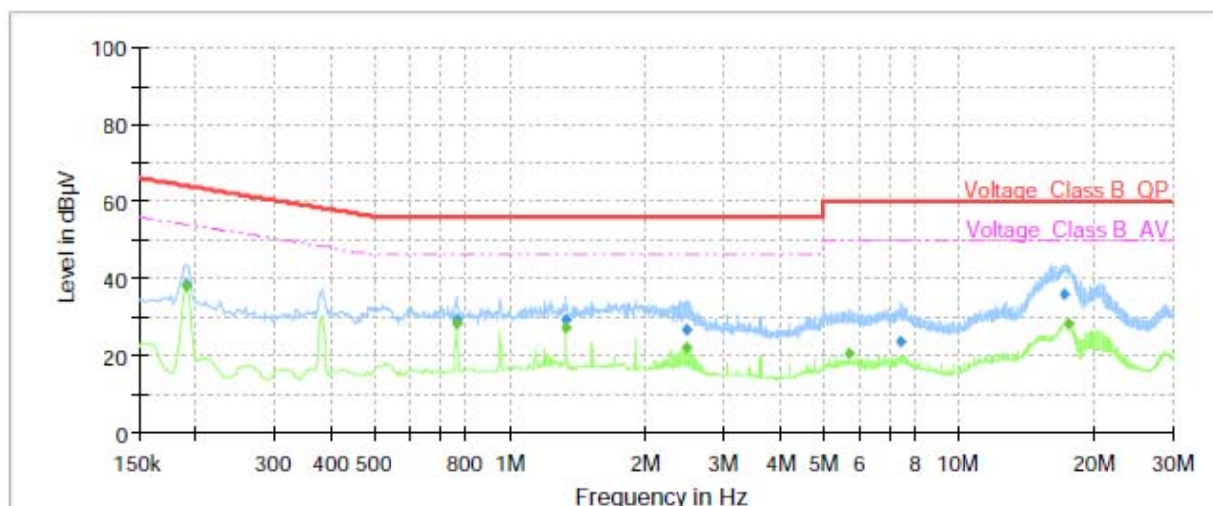


Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.19	---	36.15	54.02	17.87	70.0	9.000	L1	ON	21
0.19	37.09	---	64.02	26.93	70.0	9.000	L1	ON	21
0.38	---	22.83	48.24	25.41	70.0	9.000	L1	ON	21
0.38	27.71	---	58.24	30.53	70.0	9.000	L1	ON	21
1.33	26.04	---	56.00	29.96	70.0	9.000	L1	ON	20
1.91	---	23.10	46.00	22.90	70.0	9.000	L1	ON	20
2.44	27.17	---	56.00	28.83	70.0	9.000	L1	ON	19
2.47	---	22.37	46.00	23.63	70.0	9.000	L1	ON	19
6.66	---	19.70	50.00	30.30	70.0	9.000	L1	ON	20
12.13	21.58	---	60.00	38.42	70.0	9.000	L1	ON	20
17.32	36.72	---	60.00	23.28	70.0	9.000	L1	ON	20
17.56	---	28.90	50.00	21.10	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.19	---	37.74	54.02	16.28	70.0	9.000	N	ON	21
0.19	38.23	---	64.02	25.79	70.0	9.000	N	ON	21
0.76	---	28.10	46.00	17.90	70.0	9.000	N	ON	20
0.76	29.44	---	56.00	26.56	70.0	9.000	N	ON	20
1.34	---	27.29	46.00	18.71	70.0	9.000	N	ON	20
1.34	29.11	---	56.00	26.89	70.0	9.000	N	ON	20
2.47	26.86	---	56.00	29.14	70.0	9.000	N	ON	19
2.48	---	22.11	46.00	23.89	70.0	9.000	N	ON	19
5.72	---	20.33	50.00	29.67	70.0	9.000	N	ON	19
7.44	23.52	---	60.00	36.48	70.0	9.000	N	ON	20
17.23	36.13	---	60.00	23.87	70.0	9.000	N	ON	20
17.54	---	28.37	50.00	21.63	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 KHz to 30 MHz



4 Main Test Instruments

Name of Equipment	Manufacturer	Type/Model	Serial Number	Calibration Date	Expiration Time
Radiated Emission					
EMI Test Receiver	R&S	ESCI7	100936	2020-12-13	2021-12-12
				2021-12-12	2022-12-11
Signal Analyzer	R&S	FSV40	100815	2021-05-15	2022-05-14
Signal Analyzer	R&S	FSV30	103591	2021-05-15	2022-05-14
TRILOG Broadband Antenna	SCHWARZBECK	9163	391	2020-05-05	2023-05-04
Horn Antenna	Schwarzbeck	BBHA 9120D	430	2019-12-16	2022-12-15
Horn Antenna	ETS-Lindgren	3160-09	00102643	2020-08-11	2023-08-10
Horn Antenna	STEATITE	QSH-SL-26-40-K-15	16779	2018-06-20	2023-06-19
Software	R&S	EMC32	9.26.01	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2020-12-13	2022-12-12
EMI Test Receiver	R&S	ESR	101667	2021-05-15	2022-05-14
Software	R&S	EMC32	10.35.10	/	/

*****END OF REPORT *****



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.