

Report No.: SEWM2212000302RG05
 Rev.: 01
 Page: 1 of 28

TEST REPORT

Application No.: SEWM2212000302RG
Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer: Lenovo PC HK Limited
Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
EUT Description: Portable Tablet Computer
Model No.: Lenovo TB-X6E6F
Trade Mark: Lenovo
FCC ID: O57TBX6E6F
Standard(s): FCC 47 CFR Part 15, Subpart B
Date of Receipt: 2022/12/14
Date of Test: 2023/01/05 to 2023/01/05
Date of Issue: 2023/01/12

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

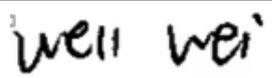
Panta Sun
 Wireless Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/01/12		Original

Prepared By		 <hr/> (King-p Li) / Test Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



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Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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1 General Information

EUT Description:	Portable Tablet Computer		
Model No.:	Lenovo TB-X6E6F		
Trade Mark:	Lenovo		
Hardware Version:	Lenovo Tablet TB-X6E6F		
Software Version:	Lenovo TB-X6E6F_RF01_221201		
SN:	HA1RLHF6 HA1RNS2E		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 2.4G	2412~2462	2412~2462
	Wi-Fi 5G	5150~5850	5150~5850
	GNSS (GPS L1C/A +Glonass G1+ Beidou B1I)	N/A	1559~1610
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05
Adaptor	Huawei	HW-050200C02	SUWI-03-33-06

1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- A2LA (Certificate No. 6336.01)**
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.
- Innovation, Science and Economic Development Canada**
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.
 CAB identifier: CN0120.
 IC#: 27594.
- FCC –Designation Number: CN1312**
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.
 Designation Number: CN1312.
 Test Firm Registration Number: 717327

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None



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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency Range (MHz)	Limit(dBµV)	
		Quasi-peak	average
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*
	0.5M-5MHz	56	46
	5M-30MHz	60	50
*Decreases with the logarithm of the frequency Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz			

2.1.1 E.U.T. Operation

Operating Environment:

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: EUT1: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear) b: EUT1: adapter+usb Cable+BT+5GWLAN +Camera(Front) c: EUT1: adapter+usb Cable+BT+2.4GWLAN +MP4 d: EUT1: adapter+usb Cable+BT+5GWLAN +GPS RX e: EUT1: Transfer data between the EUT and the PC+USB cable f: EUT2: adapter+usb Cable+BT+5GWLAN +Camera(Front) g: EUT2: Transfer data between the EUT and the PC+USB cable
The worst case for final test:	f: EUT2: adapter+usb Cable+BT+5GWLAN +Camera(Front) e: EUT1: Transfer data between the EUT and the PC+USB cable



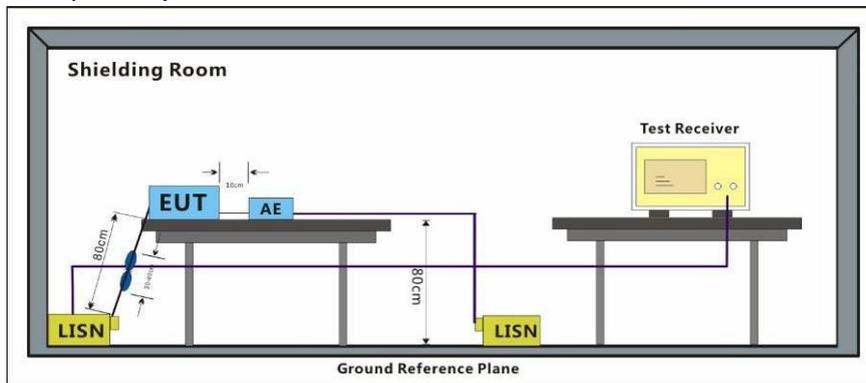
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2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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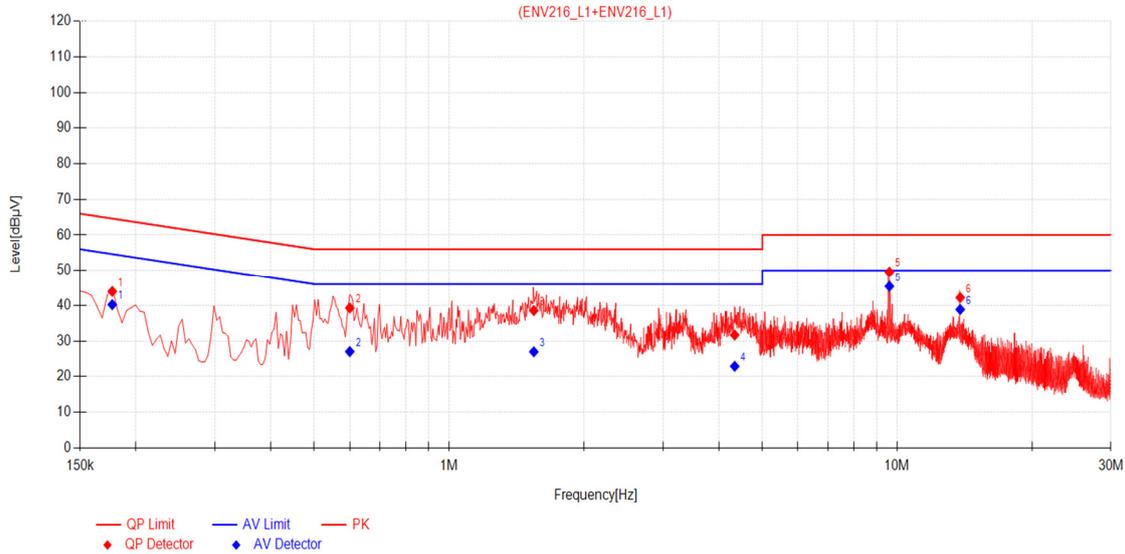
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Final Test Mode:	Mode f	Phase:	Line
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Final Data List

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	10.75	33.18	43.93	64.63	20.70	29.45	40.20	54.63	14.43	PASS
2	0.6000	10.50	28.78	39.28	56.00	16.72	16.54	27.04	46.00	18.96	PASS
3	1.5450	10.77	27.76	38.53	56.00	17.47	16.21	26.98	46.00	19.02	PASS
4	4.3395	10.70	20.97	31.67	56.00	24.33	12.20	22.90	46.00	23.10	PASS
5	9.6090	10.64	38.92	49.56	60.00	10.44	34.74	45.38	50.00	4.62	PASS
6	13.8300	10.54	31.65	42.19	60.00	17.81	28.31	38.85	50.00	11.15	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]



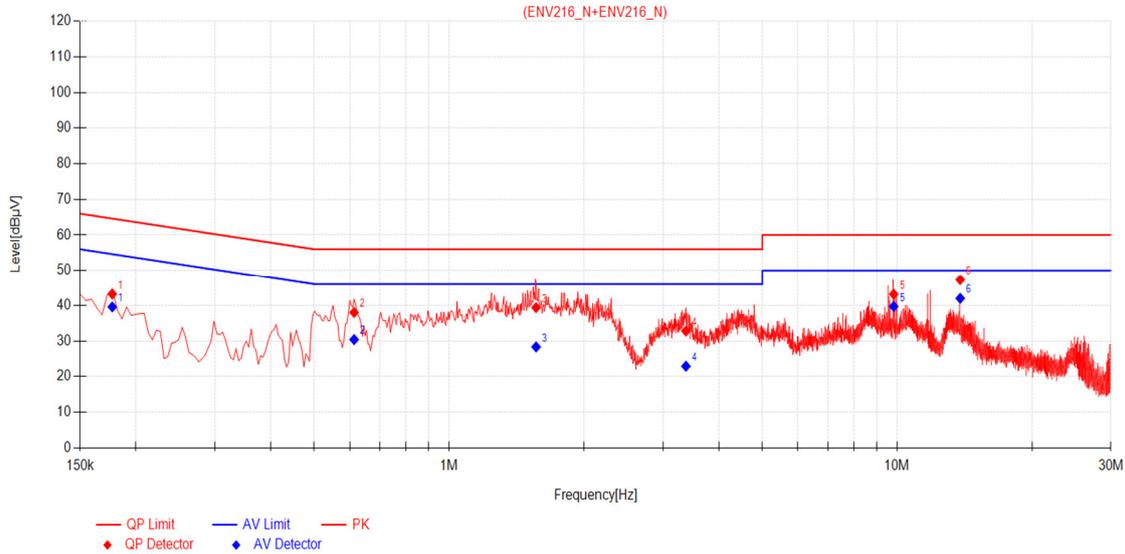
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Final Test Mode:	Mode f	Phase:	Neutral
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Final Data List

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	10.71	32.47	43.18	64.63	21.45	28.85	39.56	54.63	15.07	PASS
2	0.6135	10.70	27.30	38.00	56.00	18.00	19.71	30.41	46.00	15.59	PASS
3	1.5630	10.77	28.59	39.36	56.00	16.64	17.57	28.34	46.00	17.66	PASS
4	3.3765	10.65	22.14	32.79	56.00	23.21	12.28	22.93	46.00	23.07	PASS
5	9.8250	10.67	32.48	43.15	60.00	16.85	29.02	39.69	50.00	10.31	PASS
6	13.8300	10.61	36.64	47.25	60.00	12.75	31.38	41.99	50.00	8.01	PASS

Remark:

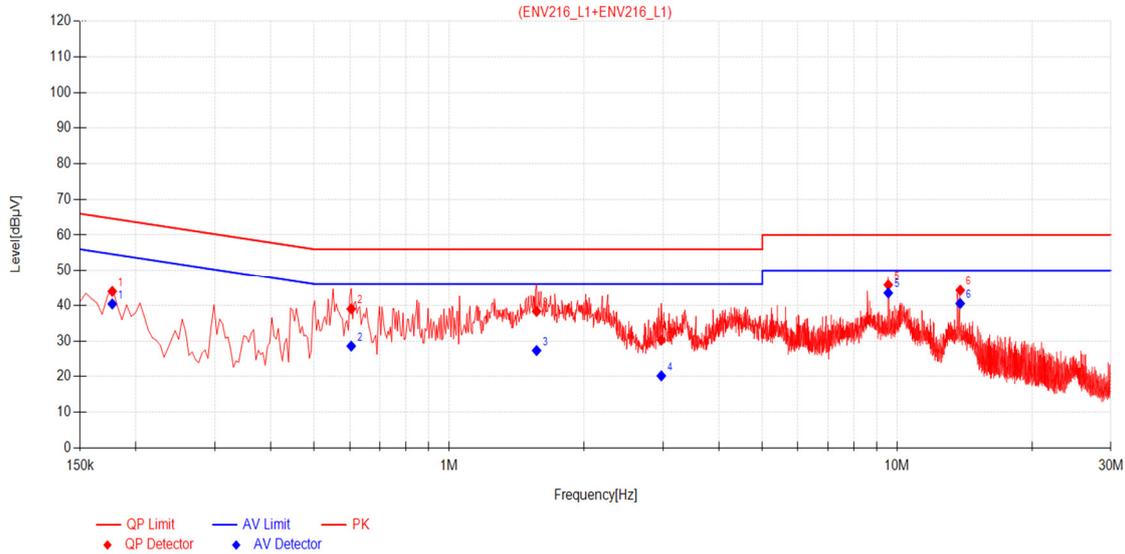
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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Final Test Mode:	Mode e	Phase:	Line
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Final Data List

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	10.75	33.19	43.94	64.63	20.69	29.64	40.39	54.63	14.24	PASS
2	0.6045	10.50	28.51	39.01	56.00	16.99	18.07	28.57	46.00	17.43	PASS
3	1.5675	10.77	27.53	38.30	56.00	17.70	16.55	27.32	46.00	18.68	PASS
4	2.9760	10.66	19.59	30.25	56.00	25.75	9.54	20.20	46.00	25.80	PASS
5	9.5550	10.64	35.11	45.75	60.00	14.25	32.85	43.49	50.00	6.51	PASS
6	13.8300	10.54	33.71	44.25	60.00	15.75	29.98	40.52	50.00	9.48	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]

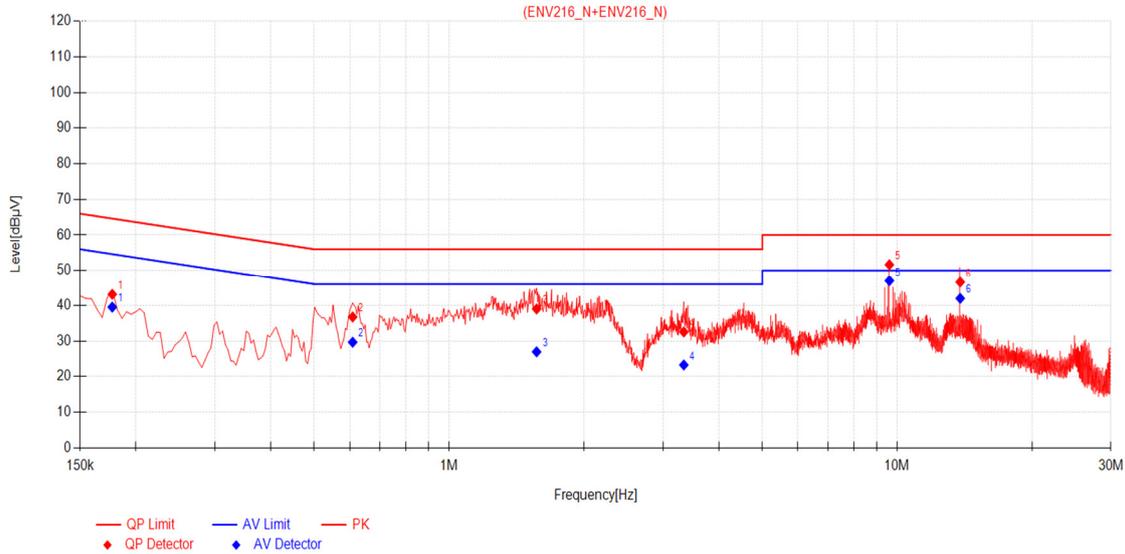


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Final Test Mode:	Mode e	Phase:	Neutral
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Final Data List

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	10.71	32.41	43.12	64.63	21.51	28.80	39.51	54.63	15.12	PASS
2	0.6090	10.69	26.05	36.74	56.00	19.26	18.97	29.66	46.00	16.34	PASS
3	1.5675	10.77	28.23	39.00	56.00	17.00	16.19	26.96	46.00	19.04	PASS
4	3.3405	10.64	21.91	32.55	56.00	23.45	12.64	23.28	46.00	22.72	PASS
5	9.6090	10.65	41.01	51.66	60.00	8.34	36.30	46.95	50.00	3.05	PASS
6	13.8300	10.61	35.97	46.58	60.00	13.42	31.36	41.97	50.00	8.03	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]



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2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	30MHz to 1GHz		
Measurement Distance:	3m		
Limit:	Frequency Range (MHz)	Limit(dBμV/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1000MHz	54.0	Quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHZ		

2.2.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: EUT1: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear) b: EUT1: adapter+usb Cable+BT+5GWLAN +Camera(Front) c: EUT1: adapter+usb Cable+BT+2.4GWLAN +MP4 d: EUT1: adapter+usb Cable+BT+5GWLAN +GPS RX e: EUT1: Transfer data between the EUT and the PC+USB cable f: EUT2: adapter+usb Cable+BT+5GWLAN +Camera(Front) g: EUT2: Transfer data between the EUT and the PC+USB cable
The worst case for final test:	b: EUT1: adapter+usb Cable+BT+5GWLAN +Camera(Front) g: EUT2: Transfer data between the EUT and the PC+USB cable



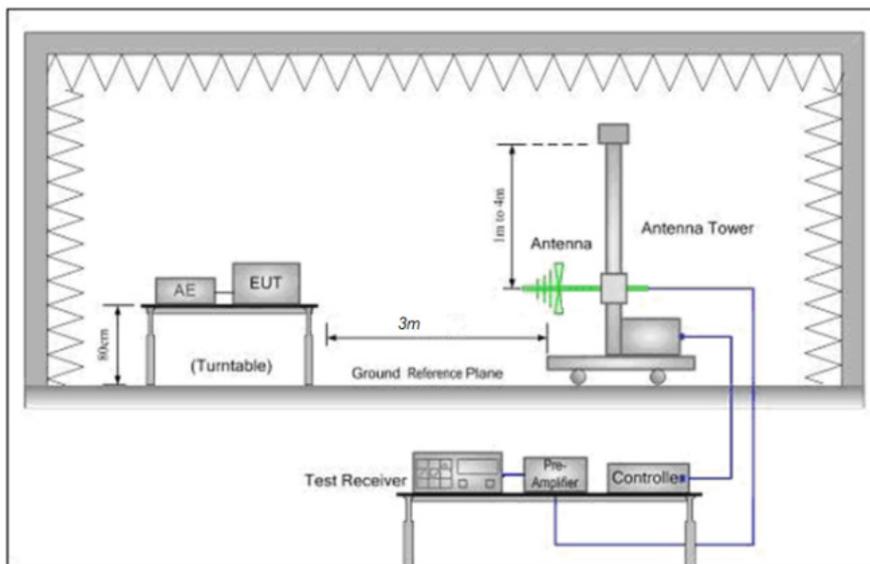
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2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



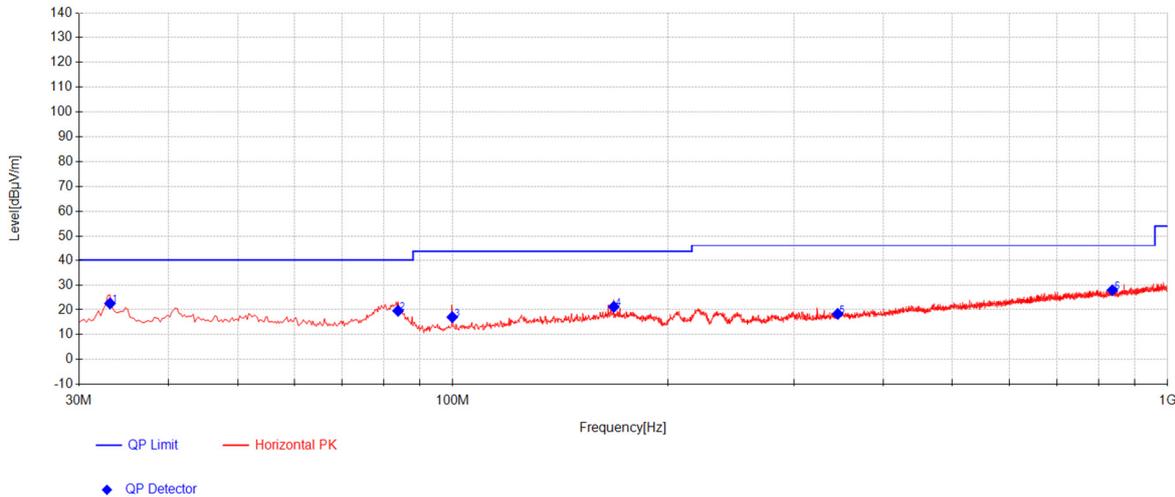
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Final Test Mode:	Mode b	Polarization:	Horizontal
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.1525	37.63	13.33	-28.42	22.53	40.00	17.47	102	360	Horizontal
2	83.835	38.06	9.35	-27.84	19.57	40.00	20.43	263	22	Horizontal
3	99.84	34.26	10.14	-27.36	17.03	43.50	26.47	254	43	Horizontal
4	167.9825	33.35	14.36	-26.52	21.18	43.50	22.32	142	102	Horizontal
5	345.4925	30.26	13.74	-25.68	18.32	46.00	27.68	263	246	Horizontal
6	836.7975	30.54	20.95	-23.65	27.84	46.00	18.16	258	143	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]



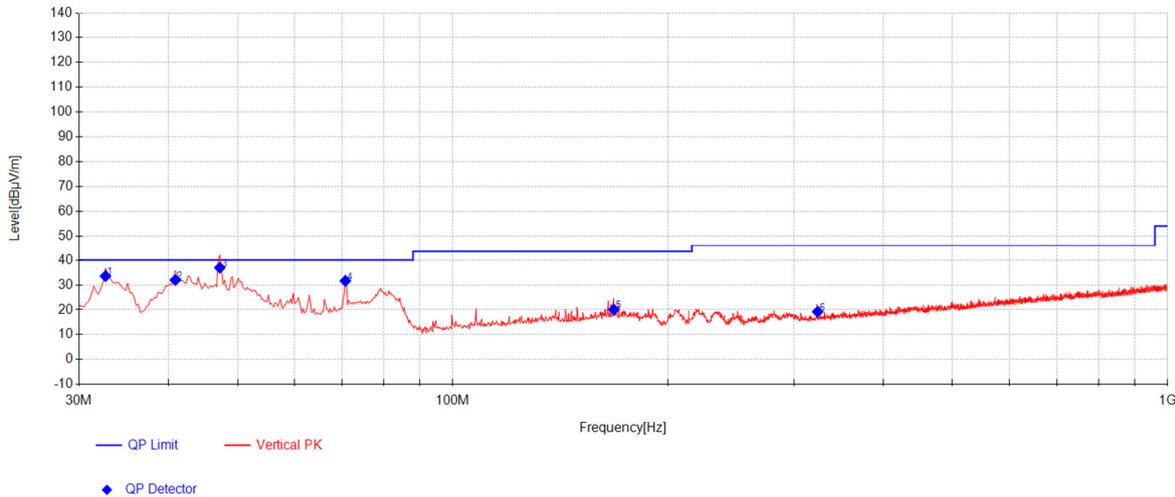
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Final Test Mode:	Mode b	Polarization:	Vertical
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.6675	48.65	13.31	-28.45	33.51	40.00	6.49	102	167	Vertical
2	40.9125	46.03	13.99	-28.07	31.95	40.00	8.05	296	338	Vertical
3	47.2175	51.32	13.60	-28.03	36.89	40.00	3.11	265	76	Vertical
4	70.74	48.63	10.71	-27.75	31.58	40.00	8.42	241	46	Vertical
5	167.9825	32.25	14.36	-26.52	20.08	43.50	23.42	142	94	Vertical
6	323.91	32.06	13.29	-26.15	19.21	46.00	26.79	263	138	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]



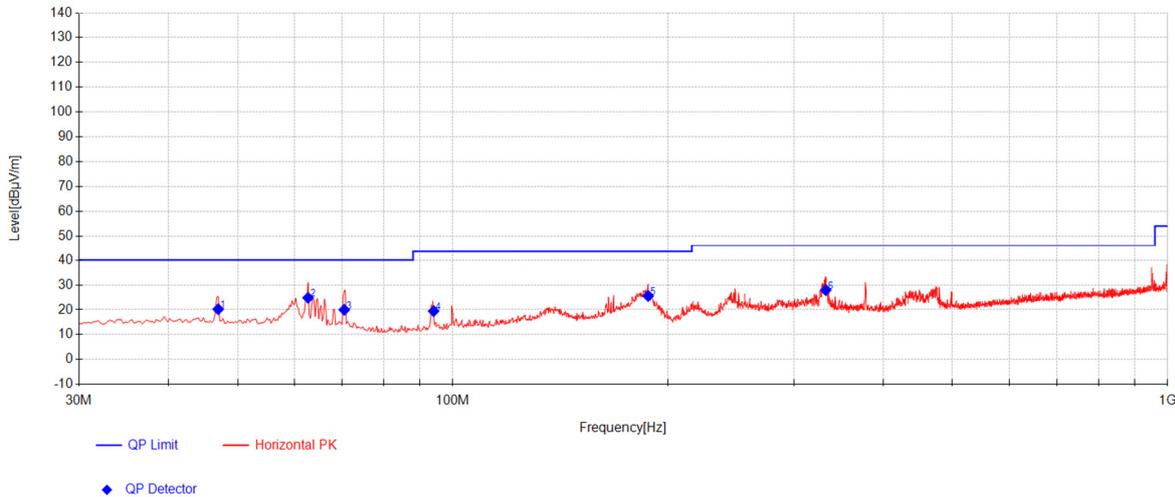
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Final Test Mode:	Mode g	Polarization:	Horizontal
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.975	34.65	13.61	-28.03	20.23	40.00	19.77	102	342	Horizontal
2	62.7375	40.24	12.22	-27.66	24.80	40.00	15.20	296	5	Horizontal
3	70.4975	36.98	10.74	-27.75	19.97	40.00	20.03	265	353	Horizontal
4	94.02	37.26	9.73	-27.55	19.44	43.50	24.06	241	348	Horizontal
5	187.625	39.86	12.86	-27.16	25.55	43.50	17.95	142	342	Horizontal
6	332.3975	40.24	13.47	-25.79	27.92	46.00	18.08	263	0	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]



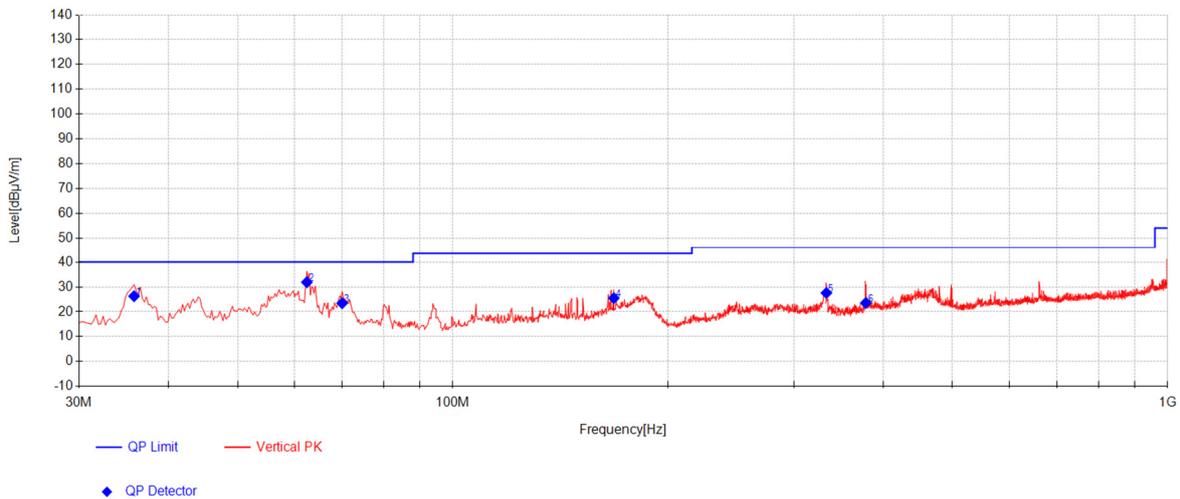
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Final Test Mode:	Mode g	Polarization:	Vertical
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Final Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.82	41.05	13.50	-28.29	26.26	40.00	13.74	102	47	Vertical
2	62.495	47.24	12.27	-27.66	31.85	40.00	8.15	285	102	Vertical
3	70.0125	40.36	10.82	-27.74	23.44	40.00	16.56	263	89	Vertical
4	167.9825	37.63	14.36	-26.52	25.46	43.50	18.04	265	111	Vertical
5	333.125	39.86	13.48	-25.79	27.55	46.00	18.45	241	28	Vertical
6	378.23	34.68	14.34	-25.53	23.50	46.00	22.50	142	41	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]



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2.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	Above 1GHz		
Measurement Distance:	3m		
Limit:	Frequency (MHz)	Limit (dBµV/m)	Detector
	Above 1GHz	74 54	Peak Average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.		

2.3.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	<p>a: EUT1: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)</p> <p>b: EUT1: adapter+usb Cable+BT+5GWLAN +Camera(Front)</p> <p>c: EUT1: adapter+usb Cable+BT+2.4GWLAN +MP4</p> <p>d: EUT1: adapter+usb Cable+BT+5GWLAN +GPS RX</p> <p>e: EUT1: Transfer data between the EUT and the PC+USB cable</p> <p>f: EUT2: adapter+usb Cable+BT+5GWLAN +Camera(Front)</p> <p>g: EUT2: Transfer data between the EUT and the PC+USB cable</p>
The worst case for final test:	<p>c: EUT1: adapter+usb Cable+BT+2.4GWLAN +MP4</p> <p>g: EUT2: Transfer data between the EUT and the PC+USB cable</p>



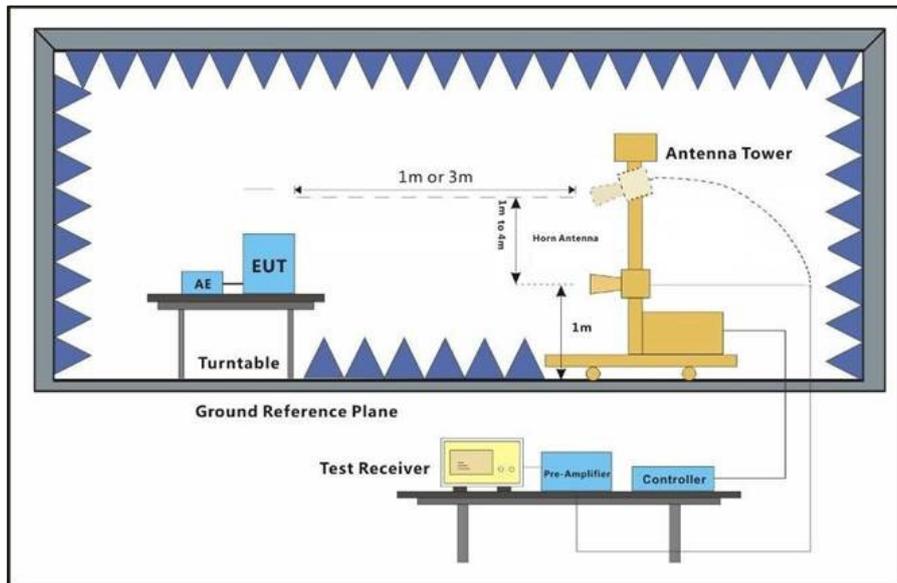
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2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation
 (Distance from antenna to EUT is 1m for measurements >18GHz).
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.



2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed. Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.

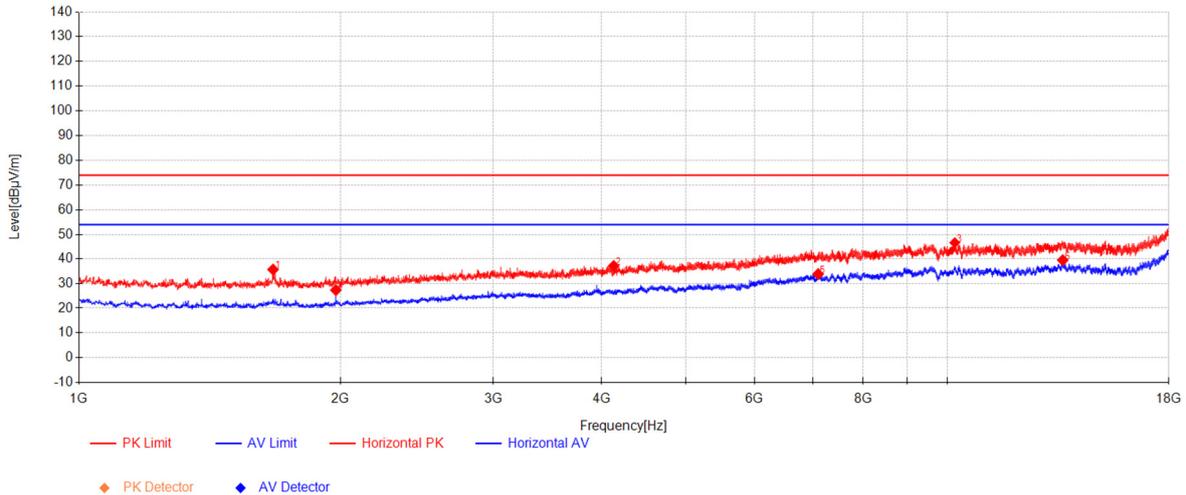


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Final Test Mode:	Mode c	Polarization:	Horizontal
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1673.2	58.28	25.56	35.53	-48.32	74.00	38.47	296	231	Horizontal
2	4128.85	51.49	30.81	36.97	-45.32	74.00	37.03	265	20	Horizontal
3	10202.95	44.76	38.72	46.52	-36.96	74.00	27.48	241	283	Horizontal
4	1976.65	48.62	26.74	27.27	-48.09	54.00	26.73	142	309	Horizontal
5	7101.3	39.97	36.26	33.74	-42.49	54.00	20.26	263	5	Horizontal
6	13584.25	33.67	39.95	39.31	-34.31	54.00	14.69	228	335	Horizontal

Remark:

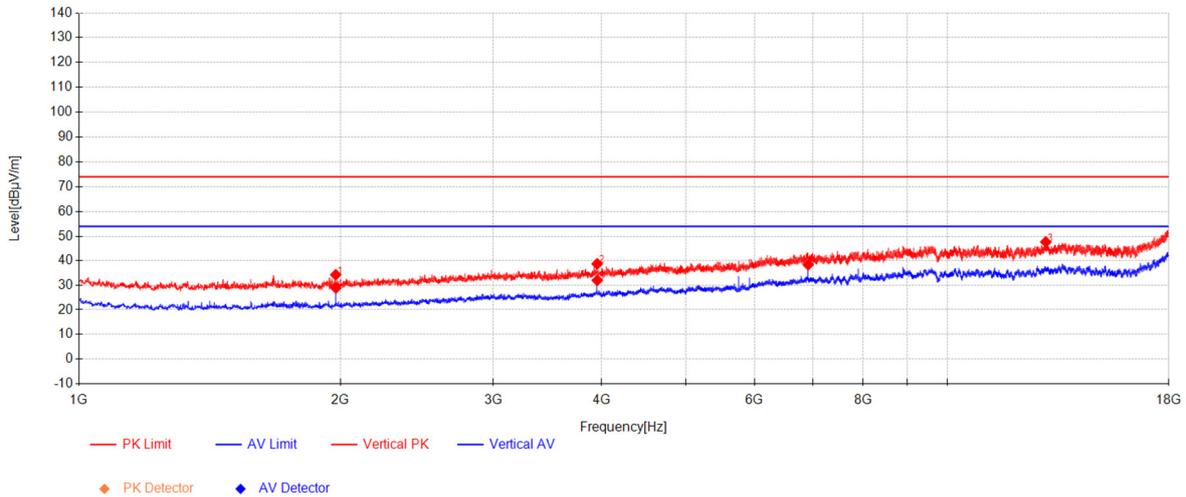
- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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Final Test Mode:	Mode c	Polarization:	Vertical
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Final Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1975.8	55.47	26.73	34.11	-48.09	74.00	39.89	102	129	Vertical
2	3952.05	53.55	30.48	38.52	-45.51	74.00	35.48	296	254	Vertical
3	12985	43.18	39.59	47.76	-35.00	74.00	26.24	265	204	Vertical
4	1976.65	50.15	26.74	28.80	-48.09	54.00	25.20	284	98	Vertical
5	3952.9	46.91	30.49	31.88	-45.51	54.00	22.12	142	254	Vertical
6	6916.85	44.69	36.03	38.19	-42.53	54.00	15.81	263	178	Vertical

Remark:

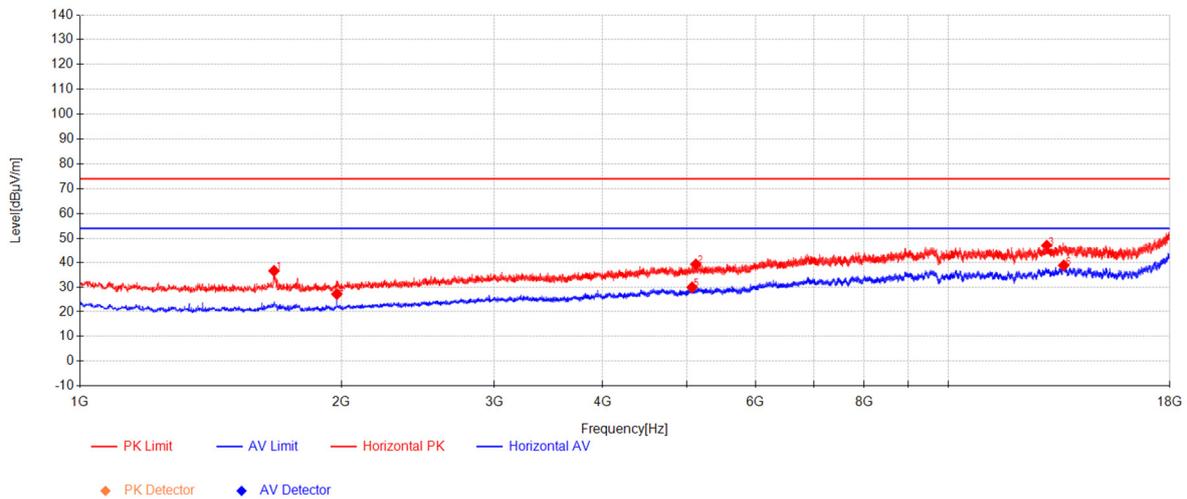
1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
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Final Test Mode:	Mode g	Polarization:	Horizontal
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1673.2	59.26	25.56	36.51	-48.32	74.00	37.49	296	253	Horizontal
2	5120.8	50.99	32.60	39.14	-44.45	74.00	34.86	265	0	Horizontal
3	12985.85	42.53	39.59	47.11	-35.00	74.00	26.89	284	50	Horizontal
4	1976.65	48.49	26.74	27.14	-48.09	54.00	26.86	142	280	Horizontal
5	5069.8	41.98	32.60	29.86	-44.72	54.00	24.14	263	0	Horizontal
6	13582.55	33.07	39.95	38.72	-34.30	54.00	15.28	224	228	Horizontal

Remark:

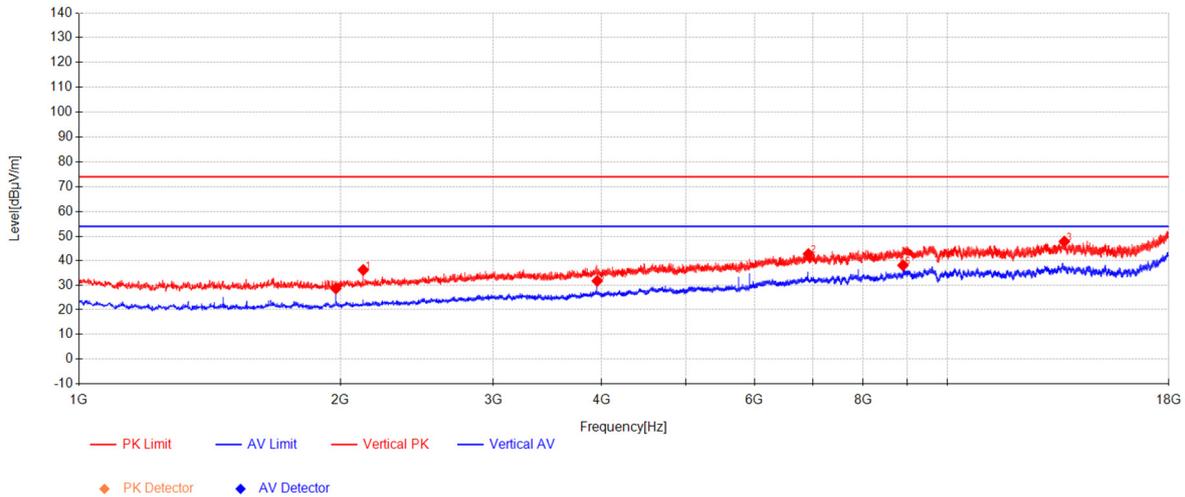
- The Peak and Average measurements were performed on the EUT.
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Final Test Mode:	Mode g	Polarization:	Vertical
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Final Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2125.4	56.77	27.15	36.08	-47.84	74.00	37.92	296	286	Vertical
2	6921.1	49.04	36.04	42.54	-42.54	74.00	31.46	241	286	Vertical
3	13643.75	42.57	39.99	47.95	-34.61	74.00	26.05	142	353	Vertical
4	1976.65	49.89	26.74	28.54	-48.09	54.00	25.46	255	104	Vertical
5	3952.9	46.65	30.49	31.62	-45.51	54.00	22.38	263	235	Vertical
6	8892.25	38.98	38.48	37.95	-39.51	54.00	16.05	224	182	Vertical

Remark:

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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3 Equipment List

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software CE	Tonsend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)
<p>Remark:</p> <p>The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results</p> <ul style="list-style-type: none"> – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. 		



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Report No.: SEWM2212000302RG05
 Rev.: 01
 Page: 28 of 28

5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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