TEST REPORT

Application No.:	SEWM2309000380RG
Applicant:	Wuxi iData Technology Company Ltd.
Address of Applicant:	Floor 11,Building B1.Wuxi Binhu National Sensing Information Center,No.999 Gaolang East Road,Wuxi,China
Manufacturer:	Wuxi iData Technology Company Ltd.
Address of Manufacturer:	Floor 11,Building B1.Wuxi Binhu National Sensing Information Center,No.999 Gaolang East Road,Wuxi,China
EUT Description:	New Mobile Computer
Model No.:	iData T3 Pro
Trade Mark:	iData
FCC ID:	2ADE3IDATAT3PRO
Standard(s):	FCC 47 CFR Part 15, Subpart B
Date of Receipt:	2023/10/23
Date of Test:	2023/11/22 to 2023/12/07
Date of Issue:	2024/01/12
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Well Wei

Well Wei
Wireless Laboratory Manager

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Revision Record				
Version	***Chapter***	***Date***	***Modifier***	***Remark***
01		2024/01/12		Original

Prepared By		King-p Li **(King-p Li) / Test Engineer**
Checked By		Stone Gu **(Stone Gu) / 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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Contents

1 General Information 5
1.1 Description of Support Units 7
1.2 Test Location 7
1.3 Test Facility 7
1.4 Deviation from Standards 7
1.5 Abnormalities from Standard Conditions 7
2 Emission Test Results 8
2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) 8
2.1.1 E.U.T. Operation 8
2.1.2 Test Setup Procedures 9
2.1.3 Measurement Data 9
2.2 Radiated Emissions (30MHz-1GHz) 14
2.2.1 E.U.T. Operation 14
2.2.2 Test Setup Procedures 15
2.2.3 Measurement Data 15
2.3 Radiated Emissions (above 1GHz) 20
2.3.1 E.U.T. Operation 20
2.3.2 Test Setup Procedures 21
2.3.3 Measurement Data 21
3 Equipment List 24
4 Measurement Uncertainty 26
5 Photographs 27
5.1 Test Setup 27

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1 General Information

EUT Description:	New Mobile Computer		
Model No.:	iData T3 Pro		
Trade Mark:	iData		
Highest frequency:	5850MHz		
Hardware Version:	H2110Z0-V06		
Software Version:	12.00.001		
IMEI:	Sample 1:866185060736990(IMEI1)/ 866185065718233(IMEI2) Sample 2:866185060737014(IMEI1)/ 866185065718258(IMEI2)		
Frequency Bands:	Band	TX	RX
	GSM850	824 to 849 MHz	869 to 894 MHz
	GSM1900	1850 to 1910 MHz	1930 to 1990 MHz
	UMTS Band II	1850 to 1910 MHz	1930 to 1990 MHz
	UMTS Band V	824 to 849 MHz	869 to 894 MHz
	LTE Band 5	824 to 849 MHz	869 to 894 MHz
	LTE Band 7	2500 to 2570 MHz	2620 to 2690 MHz
	LTE Band 38	2570 to 2620 MHz	2570 to 2620 MHz
	LTE Band 41	2555 to 2655 MHz	2555 to 2655 MHz
	Wi-Fi 2.4G	2412 to 2462 MHz	2412 to 2462 MHz
	Bluetooth	2402 to 2480 MHz	2402 to 2480 MHz
	Wi-Fi 5G	5150 to 5850 MHz	5150 to 5850 MHz
	NFC	13.56 MHz	13.56 MHz
	GNSS (BeiDou B1i+Galileo E1+ GLONASS G1+GPS L1 C/A)	/	1559 to 1610 MHz
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. Sample 1: 0 degrees of scanning lens. Sample 2: 45 degrees of scanning lens.			

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Accessories Information			
Item No.	Mode No.	Description	Manufacturer
Adapter 1#	TPA-10S120150CU01	Input: 100-240V~50/60Hz 0.6A Output: 3.6-6V⎓3A or 6-9V⎓2A or 9-12V⎓1.5A	SHENZHEN TIANYYIN ELECTRONICS
USB cable 1#	/	Type C	/

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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

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:	101.0 kPa
Pretest these modes to find the worst case:	a: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low b: Sample 2(45°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low c: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid d: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+MP4+LTE Band 5 (RX) High e: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+5GWLAN(Idle)+NFC ON+GSM1900 (RX) Low f: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+GNSS+WCDMA Band 2(RX) Mid g: Sample 1(0°)+Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+5GWLAN(Idle)+LTE Band 38(RX) High h: Sample 2(45°)+Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+2.4GWLAN(Idle)+LTE Band 41(RX) High
The worst case for final test:	a: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low g: Sample 1(0°)+Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+5GWLAN(Idle)+LTE Band 38(RX) High

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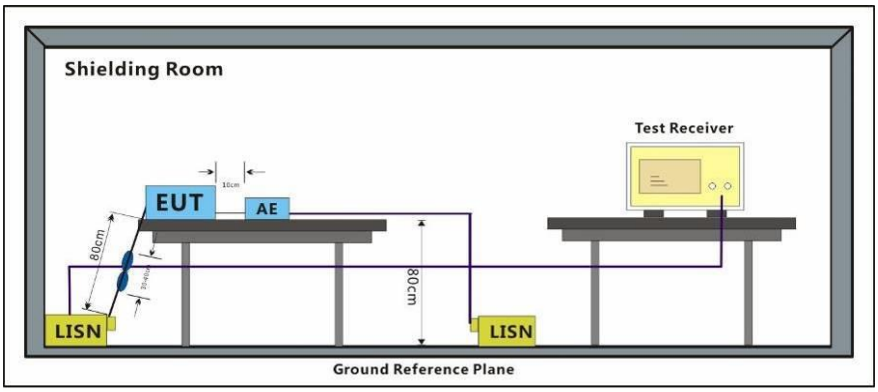
2.1.2 Test Setup Procedures

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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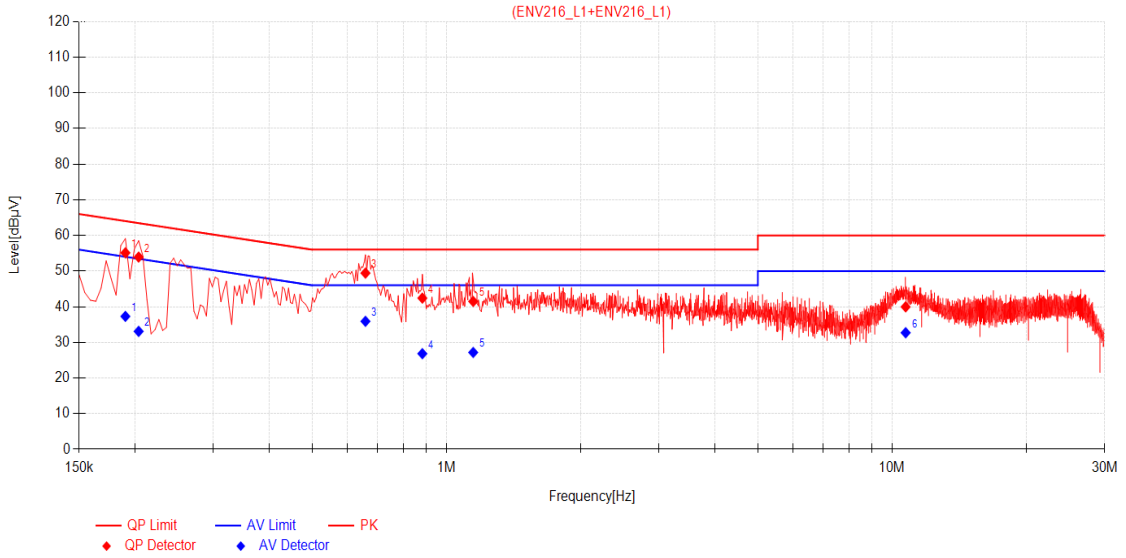
Final Test Mode:	Mode a	Phase:	Line



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	0.1905	11.67	43.44	55.11	64.01	8.90	25.61	37.28	54.01	16.73	PASS
2	0.2040	11.65	42.27	53.92	63.45	9.53	21.43	33.08	53.45	20.37	PASS
3	0.6585	11.66	37.77	49.43	56.00	6.57	24.24	35.90	46.00	10.10	PASS
4	0.8835	11.70	30.71	42.41	56.00	13.59	15.13	26.83	46.00	19.17	PASS
5	1.1490	11.72	29.76	41.48	56.00	14.52	15.45	27.17	46.00	18.83	PASS
6	10.7295	11.88	28.07	39.95	60.00	20.05	20.82	32.70	50.00	17.30	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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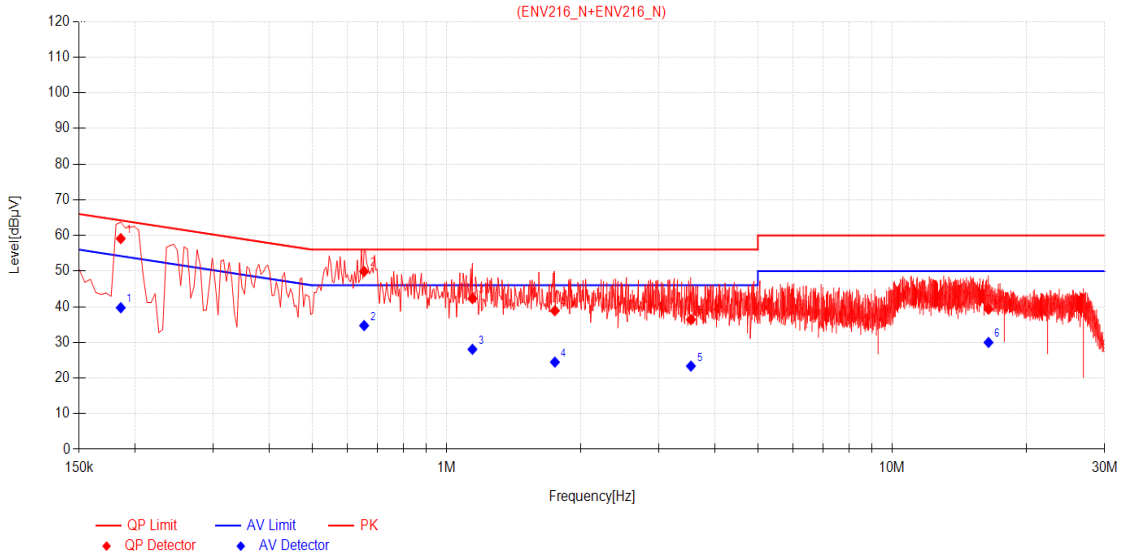
Final Test Mode:	Mode a	Phase:	Neutral



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	0.1860	11.68	47.42	59.10	64.21	5.11	28.03	39.71	54.21	14.50	PASS
2	0.6540	11.66	38.23	49.89	56.00	6.11	23.04	34.70	46.00	11.30	PASS
3	1.1445	11.72	30.56	42.28	56.00	13.72	16.32	28.04	46.00	17.96	PASS
4	1.7520	11.72	27.15	38.87	56.00	17.13	12.74	24.46	46.00	21.54	PASS
5	3.5385	11.75	24.62	36.37	56.00	19.63	11.59	23.34	46.00	22.66	PASS
6	16.4625	11.95	27.36	39.31	60.00	20.69	18.02	29.97	50.00	20.03	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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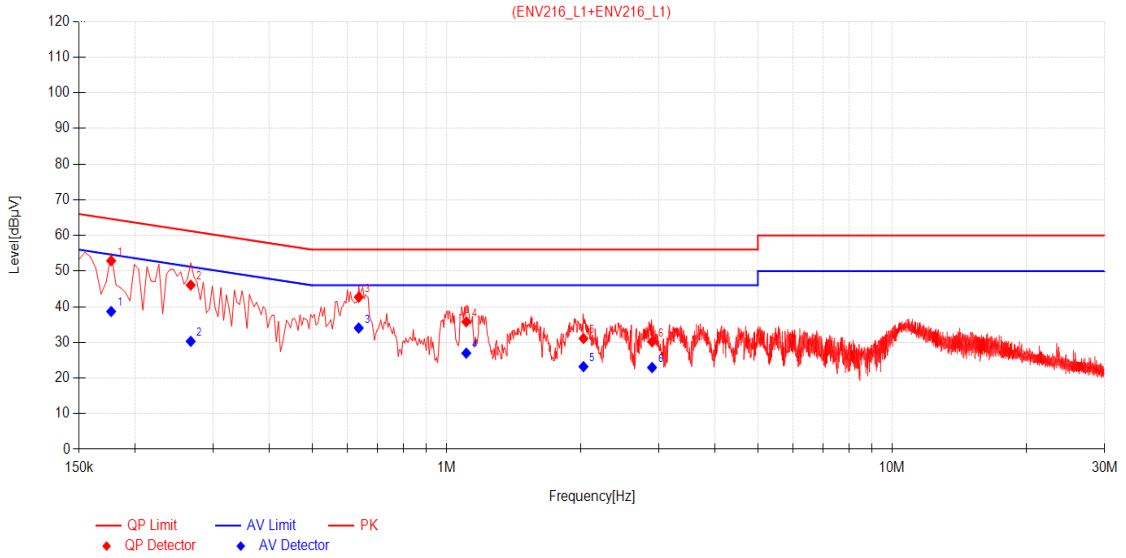
Final Test Mode:	Mode g	Phase:	Line



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	11.73	41.15	52.88	64.63	11.75	26.92	38.65	54.63	15.98	PASS
2	0.2670	11.64	34.42	46.06	61.21	15.15	18.64	30.28	51.21	20.93	PASS
3	0.6360	11.64	31.03	42.67	56.00	13.33	22.38	34.02	46.00	11.98	PASS
4	1.1085	11.72	24.04	35.76	56.00	20.24	15.25	26.97	46.00	19.03	PASS
5	2.0310	11.73	19.34	31.07	56.00	24.93	11.46	23.19	46.00	22.81	PASS
6	2.8950	11.74	18.42	30.16	56.00	25.84	11.20	22.94	46.00	23.06	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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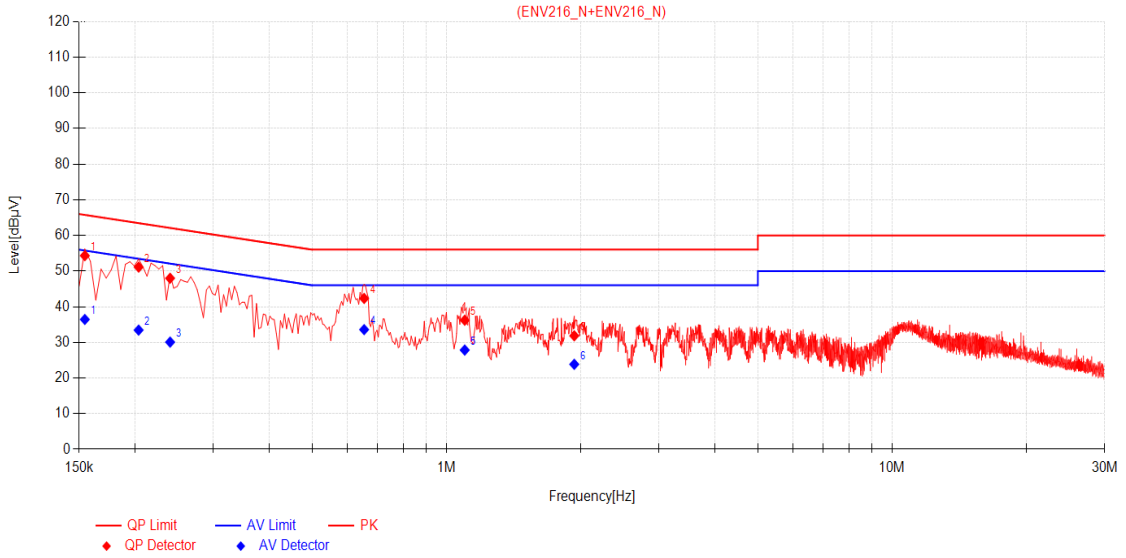
Final Test Mode:	Mode g	Phase:	Neutral



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	0.1545	11.83	42.49	54.32	65.75	11.43	24.59	36.42	55.75	19.33	PASS
2	0.2040	11.65	39.46	51.11	63.45	12.34	21.79	33.44	53.45	20.01	PASS
3	0.2400	11.64	36.34	47.98	62.10	14.12	18.43	30.07	52.10	22.03	PASS
4	0.6540	11.66	30.66	42.32	56.00	13.68	21.91	33.57	46.00	12.43	PASS
5	1.0995	11.73	24.48	36.21	56.00	19.79	16.11	27.84	46.00	18.16	PASS
6	1.9365	11.74	20.10	31.84	56.00	24.16	12.10	23.84	46.00	22.16	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:	101.0 kPa
Pretest these modes to find the worst case:	a: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low b: Sample 2(45°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low c: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid d: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+MP4+LTE Band 5 (RX) High e: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+5GWLAN(Idle)+NFC ON+GSM1900 (RX) Low f: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+GNSS+WCDMA Band 2(RX) Mid g: Sample 1(0°)+Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+5GWLAN(Idle)+LTE Band 38(RX) High h: Sample 2(45°)+Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+2.4GWLAN(Idle)+LTE Band 41(RX) High
The worst case for final test:	a: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low h: Sample 2(45°)+Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+2.4GWLAN(Idle)+LTE Band 41(RX) High

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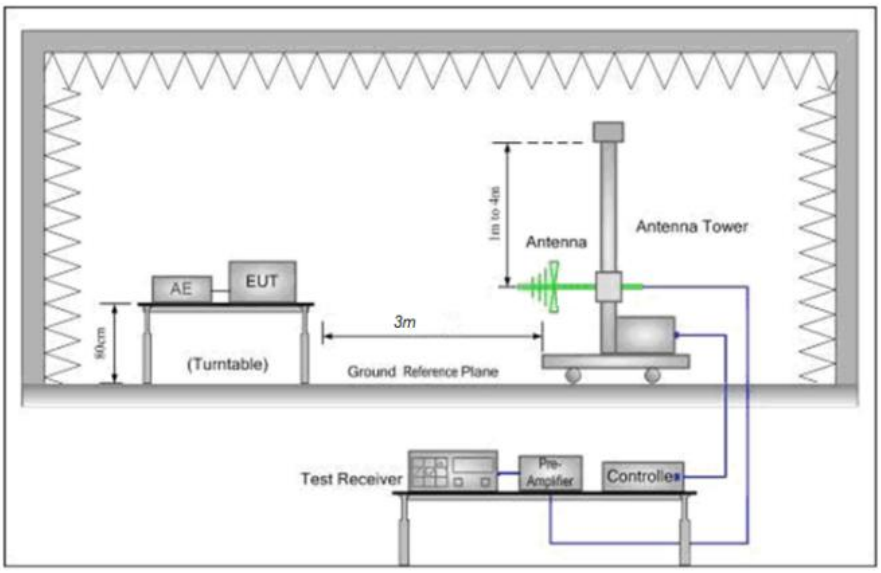
2.2.2 Test Setup Procedures

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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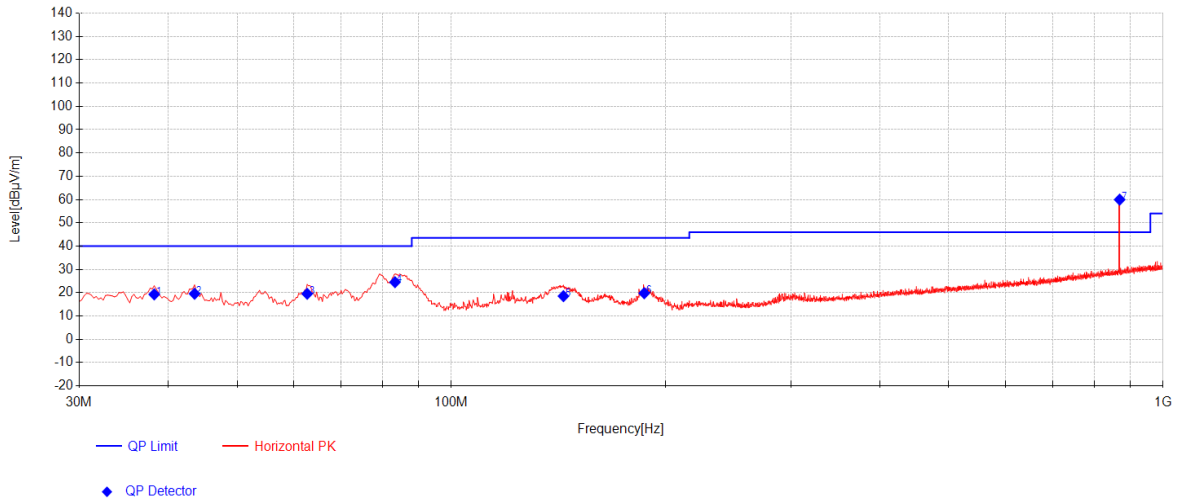
Final Test Mode:	Mode a	Polarization:	Horizontal



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	38.245	34.02	19.28	-34.00	19.30	40.00	20.70	Horizontal
2	43.58	34.03	19.52	-33.99	19.56	40.00	20.44	Horizontal
3	62.7375	35.04	18.33	-33.83	19.55	40.00	20.45	Horizontal
4	83.35	43.11	15.03	-33.63	24.52	40.00	15.48	Horizontal
5	143.7325	33.21	18.54	-33.22	18.53	43.50	24.97	Horizontal
6	186.655	36.56	16.07	-32.84	19.79	43.50	23.71	Horizontal
7*	869.05	59.96	29.47	-29.45	59.98	-	-	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]

Note*: #7 30M-1G is system simulator signal which can be ignored.

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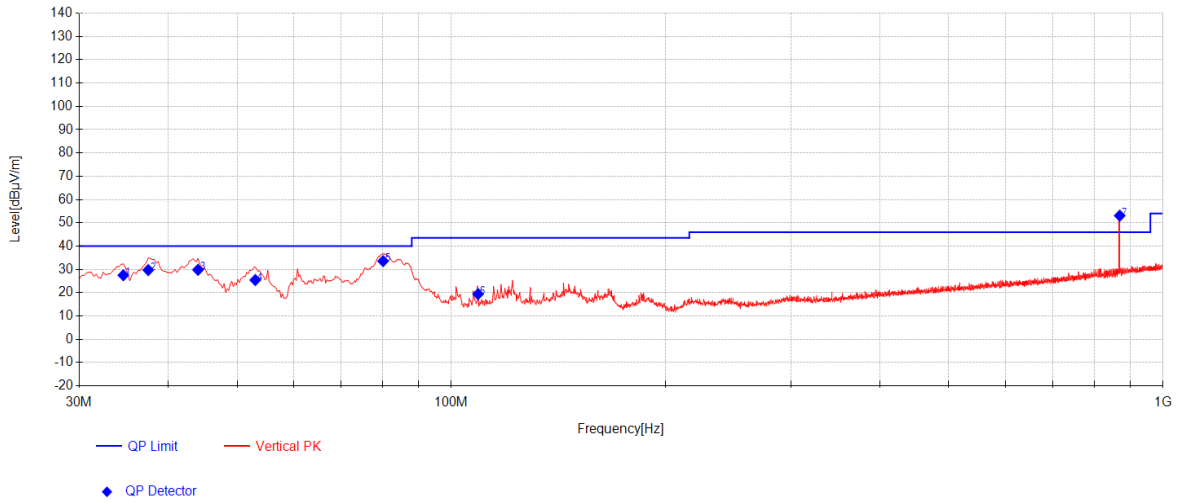
Final Test Mode:	Mode a	Polarization:	Vertical



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	34.6075	43.04	18.45	-34.00	27.49	40.00	12.51	Vertical
2	37.5175	44.63	19.10	-34.00	29.74	40.00	10.26	Vertical
3	44.065	44.32	19.50	-33.99	29.83	40.00	10.17	Vertical
4	53.0375	40.32	19.08	-33.94	25.45	40.00	14.55	Vertical
5	80.1975	52.03	15.19	-33.65	33.57	40.00	6.43	Vertical
6	109.055	36.52	16.31	-33.40	19.44	43.50	24.06	Vertical
7*	869.2925	53.05	29.47	-29.45	53.07	-	-	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]

Note*: #7 30M-1G is system simulator signal which can be ignored.

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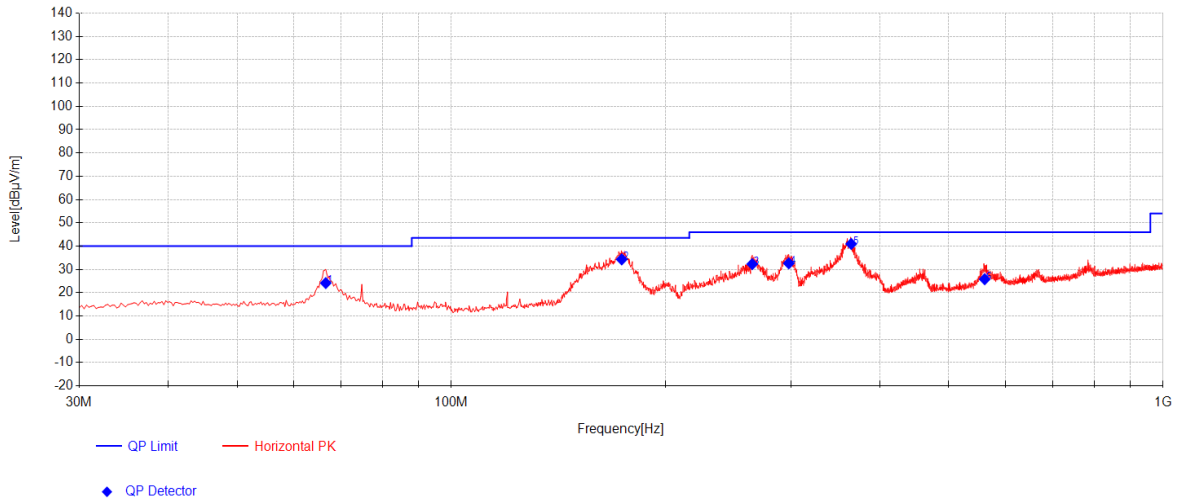
Final Test Mode:	Mode h	Polarization:	Horizontal



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	66.6175	40.25	17.68	-33.78	24.14	40.00	15.86	Horizontal
2	173.56	50.16	17.08	-32.92	34.32	43.50	9.18	Horizontal
3	264.74	47.35	17.29	-32.36	32.28	46.00	13.72	Horizontal
4	297.9625	46.35	18.44	-32.18	32.61	46.00	13.39	Horizontal
5	364.65	52.35	20.31	-31.71	40.95	46.00	5.05	Horizontal
6	561.56	32.06	24.51	-30.76	25.80	46.00	20.20	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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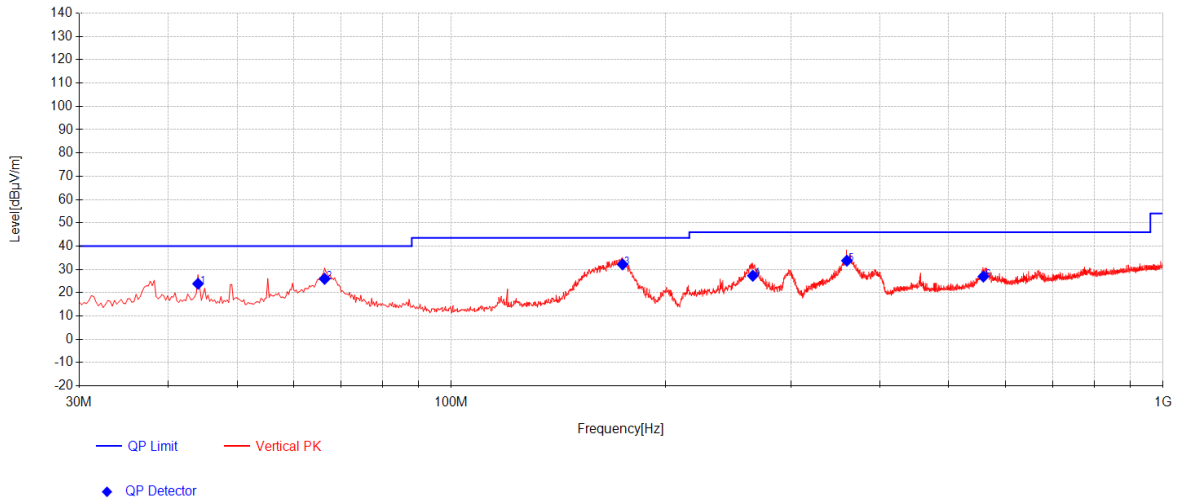
Final Test Mode:	Mode h	Polarization:	Vertical



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	44.065	38.35	19.50	-33.99	23.86	40.00	16.14	Vertical
2	66.375	42.05	17.72	-33.78	25.98	40.00	14.02	Vertical
3	174.045	48.04	17.04	-32.92	32.16	43.50	11.34	Vertical
4	265.225	42.35	17.31	-32.36	27.30	46.00	18.70	Vertical
5	359.5575	45.35	20.17	-31.76	33.76	46.00	12.24	Vertical
6	559.135	33.24	24.46	-30.77	26.93	46.00	19.07	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	Peak
		54	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:	101.0 kPa
Pretest these modes to find the worst case:	a: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low b: Sample 2(45°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low c: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid d: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+MP4+LTE Band 5 (RX) High e: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+5GWLAN(Idle)+NFC ON+GSM1900 (RX) Low f: Sample 1(0°)+adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+GNSS+WCDMA Band 2(RX) Mid g: Sample 1(0°)+Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+5GWLAN(Idle)+LTE Band 38(RX) High h: Sample 2(45°)+Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+2.4GWLAN(Idle)+LTE Band 41(RX) High
The worst case for final test:	h: Sample 2(45°)+Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+2.4GWLAN(Idle)+LTE Band 41(RX) High

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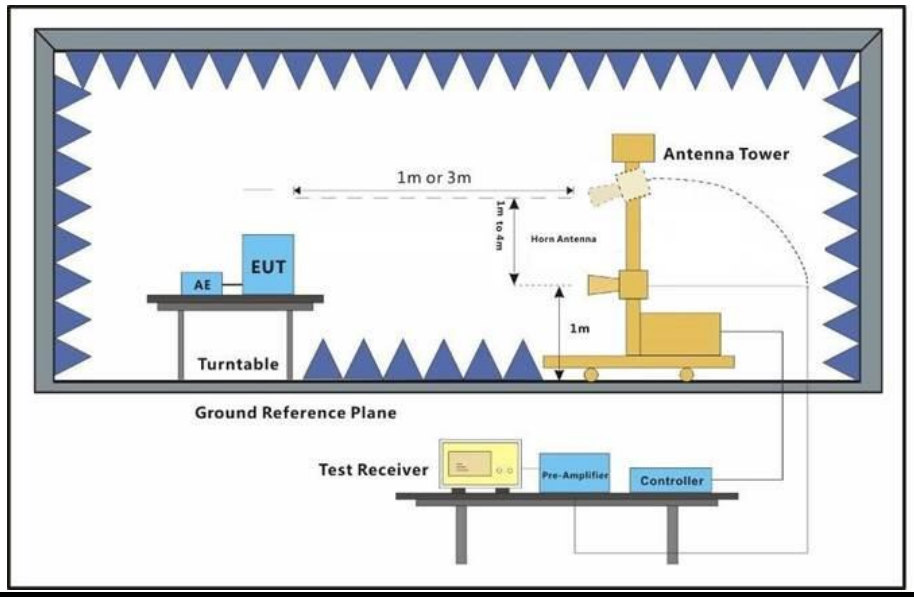
2.3.2 Test Setup Procedures

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*LOG(3/1) = 9.54 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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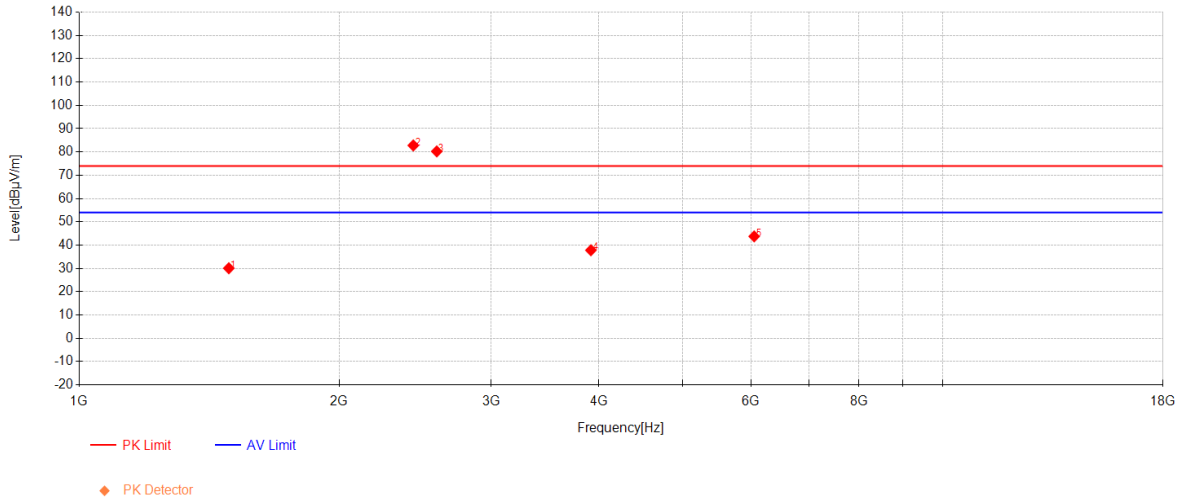
Final Test Mode:	Mode h	Polarization:	Horizontal



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1490.45	52.24	24.87	-47.02	30.09	74.00	43.91	Horizontal
2*	2437.775	100.58	27.26	-45.03	82.81	-	-	Horizontal
3*	2595.025	97.29	27.80	-44.85	80.24	-	-	Horizontal
4	3914.65	49.54	31.01	-42.74	37.81	74.00	36.19	Horizontal
5	6049.85	48.78	34.90	-39.93	43.75	74.00	30.25	Horizontal

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)

   Margin = Limit[dBμV/m] – Level[dBμV/m]

Note*:

#3 1G-18G is system simulator signal which can be ignored.

#2 1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.

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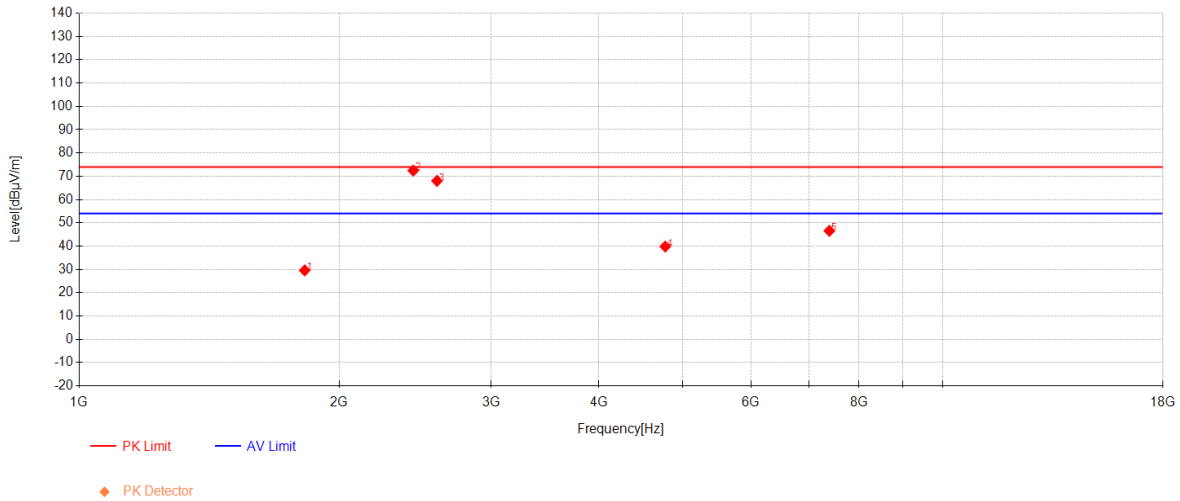
Final Test Mode:	Mode h	Polarization:	Vertical



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1824.925	51.05	24.81	-46.28	29.59	74.00	44.41	Vertical
2*	2437.35	90.22	27.26	-45.03	72.45	-	-	Vertical
3*	2596.725	85.06	27.81	-44.85	68.02	-	-	Vertical
4	4772.3	48.44	32.70	-41.32	39.82	74.00	34.18	Vertical
5	7393.275	47.78	36.47	-37.68	46.57	74.00	27.43	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)

   Margin = Limit[dBμV/m] – Level[dBμV/m]

Note*:

#3 1G-18G is system simulator signal which can be ignored.

#2 1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.

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3 Equipment List

CE Test System					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date (yyyy/mm/dd)**	**Cal Due Date (yyyy/mm/dd)**
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2023/02/06	2024/02/05
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR

Remark: NCR=No Calibration Requirement

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RE Test System					
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	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement

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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– 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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5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---

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