

Report No.: SEWM2305000160RG08
 Rev.: 01
 Page: 1 of 46

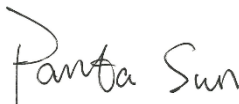
TEST REPORT

Application No.: SEWM2305000160RG
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: 23076RA4BR, XIG03
Trade Mark: Redmi
FCC ID: 2AFZZRA4BR
Standard(s): FCC 47 CFR Part 15, Subpart B
Date of Receipt: 2023/04/26
Date of Test: 2023/04/30 to 2023/05/01 (for original report SEWM2304000137RG08)
 2023/05/23 to 2023/05/23 (for new report SEWM2305000160RG08)
Date of Issue: 2023/06/12

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

Authorized Signature:



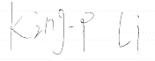
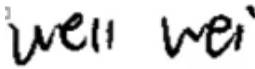
Panta Sun
 Wireless Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/06/12		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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Remark:

This test report (Report No.: SEWM2305000160RG08 issue on 2023/06/12) is based on the original test report (Report No.: SEWM2304000137RG08 issue on 2023/05/29).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Conducted Emissions at Mains Terminals (150kHz-30MHz), Radiated Emissions (30MHz-1GHz) and Radiated Emissions (above 1GHz) were performed based on the worst case of the original report with report number SEWM2304000137RG08 issue on 2023/05/29 and other test data in this report are based on the previous report with report number SEWM2304000137RG08 issue on 2023/05/29.



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1 General Information

EUT Description:	Mobile Phone		
Model No.:	23076RA4BR, XIG03		
Trade Mark:	Redmi		
Hardware Version:	P1.1		
Software Version:	MIUI 14		
IMEI:	IMEI1: 866672060051306 IMEI2: 866672060051314		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704~716	734~746
	LTE Band 26 (814 to 824 MHz)	814~824	859~869
	LTE Band 26 (824 to 849 MHz)	824~849	869~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 42	3450~3550	3450~3550
	NR Band n41	2496~2690	2496~2690
		3450~3550	3450~3550
	NR Band n77	3700~3980	3700~3980
		3450~3550	3450~3550
NR Band n78	3700~3800	3700~3800	
	3450~3550	3450~3550	
LTE CA: LTE UL CA_41C; LTE UL CA_42C;			



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	ENDC: DC_41A_n77A; DC_41A_n78A;		
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	FM	/	88~108
	NFC	13.56	13.56
	GNSS	/	1559~1610
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Accessory:

Adapter No.	Model No.	Manufacturer
1	MDY-11-EQ	Aohai
2	MDY-11-EQ	Chenyang

Battery No.	Model No.	Manufacturer
1	BM5R	SCUD
2	BM5R	NVT

USB Cable No.	Model No.	Manufacturer
1	K73312	KELI
2	L73312	LUXSHARE
3	K43220	KELI
4	L43220	LUXSHARE



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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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
Earphone	One more	EM023	N/A

1.2 Test Location

All tests were performed at:

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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:

<ul style="list-style-type: none"> • 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
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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:	<p>a: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (Idle) Low 8+256G</p> <p>b: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+256G</p> <p>c: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+MP4+LTE Band 5 (Idle) High 8+256G</p> <p>d: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+NFC ON+LTE Band 12 (Idle) Low 8+256G</p> <p>e: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 13 (Idle) Mid 8+256G</p> <p>f: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+FM+LTE Band 17 (Idle) High 8+256G</p> <p>g: adapter(2)+usb Cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+LTE Band 26 (Idle) Low 8+256G</p> <p>h: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+256G</p> <p>i: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+128G</p>



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	<p>j: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+128G</p> <p>k: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 4+128G</p> <p>l: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 4+128G</p> <p>m: adapter(1)+usb Cable(4)+BT(Idle)+Earphones+5GWLAN(Idle)+NFC ON+LTE Band 12 (Idle) Low 8+256G</p> <p>n: adapter(1)+usb Cable(3)+BT(Idle)+Earphones+5GWLAN(Idle)+NFC ON+LTE Band 12 (Idle) Low 8+256G</p> <p>o: Transfer data between the EUT and the PC+USB cable(4)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 4+128G</p> <p>q: Transfer data between the EUT and the PC+USB cable(3)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 4+128G</p>
<p>The worst case for final test:</p>	<p>d: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+NFC ON+LTE Band 12 (Idle) Low 8+256G</p> <p>o: Transfer data between the EUT and the PC+USB cable(4)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 4+128G</p>



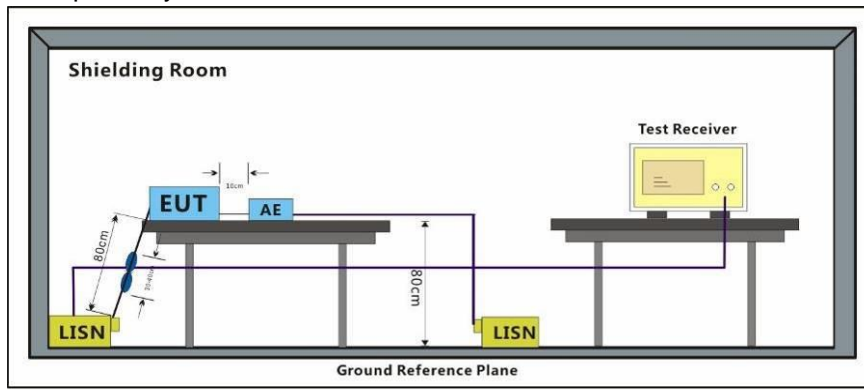
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2.1.2 Test Setup Procedures

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.



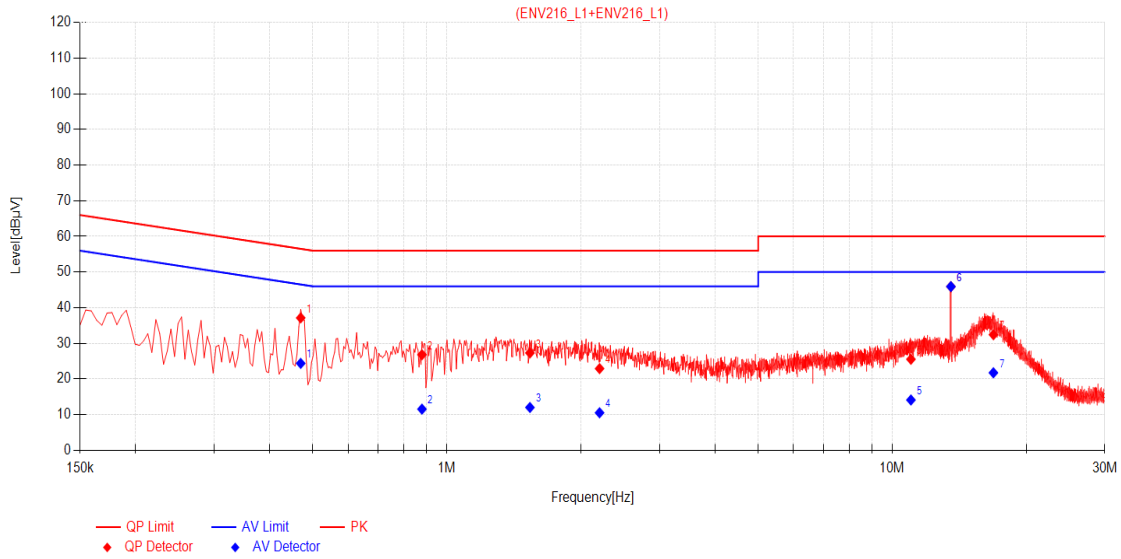
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Final Test Mode:	Mode d	Phase:	Line
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Final Data List

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	0.4695	10.58	26.56	37.14	56.52	19.38	13.80	24.38	46.52	22.14	PASS
2	0.8790	10.58	16.23	26.81	56.00	29.19	0.97	11.55	46.00	34.45	PASS
3	1.5360	10.77	16.54	27.31	56.00	28.69	1.25	12.02	46.00	33.98	PASS
4	2.2020	10.68	12.24	22.92	56.00	33.08	-0.15	10.53	46.00	35.47	PASS
5	11.0130	10.61	14.93	25.54	60.00	34.46	3.50	14.11	50.00	35.89	PASS
6	13.542	10.55	35.37	45.92	60.00	14.08	35.37	45.92	50.00	4.08	PASS
7	16.8720	10.49	21.93	32.42	60.00	27.58	11.26	21.75	50.00	28.25	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]

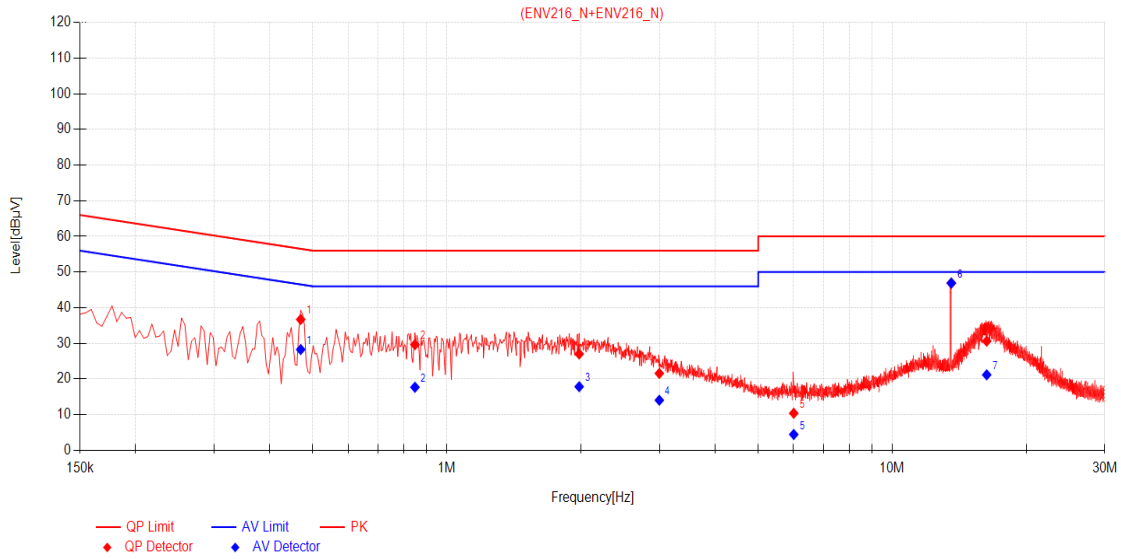


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Final Test Mode:	Mode d	Phase:	Neutral
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Final Data List

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	0.4695	10.81	25.90	36.71	56.52	19.81	17.46	28.27	46.52	18.25	PASS
2	0.8475	10.79	18.85	29.64	56.00	26.36	6.90	17.69	46.00	28.31	PASS
3	1.9815	10.77	16.25	27.02	56.00	28.98	7.08	17.85	46.00	28.15	PASS
4	2.9985	10.58	11.00	21.58	56.00	34.42	3.48	14.06	46.00	31.94	PASS
5	6.0090	10.58	-0.18	10.40	60.00	49.60	-6.13	4.45	50.00	45.55	PASS
6	13.5735	10.62	36.29	46.91	60.00	13.09	36.29	46.91	50.00	3.09	PASS
7	16.2960	10.55	20.07	30.62	60.00	29.38	10.63	21.18	50.00	28.82	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]

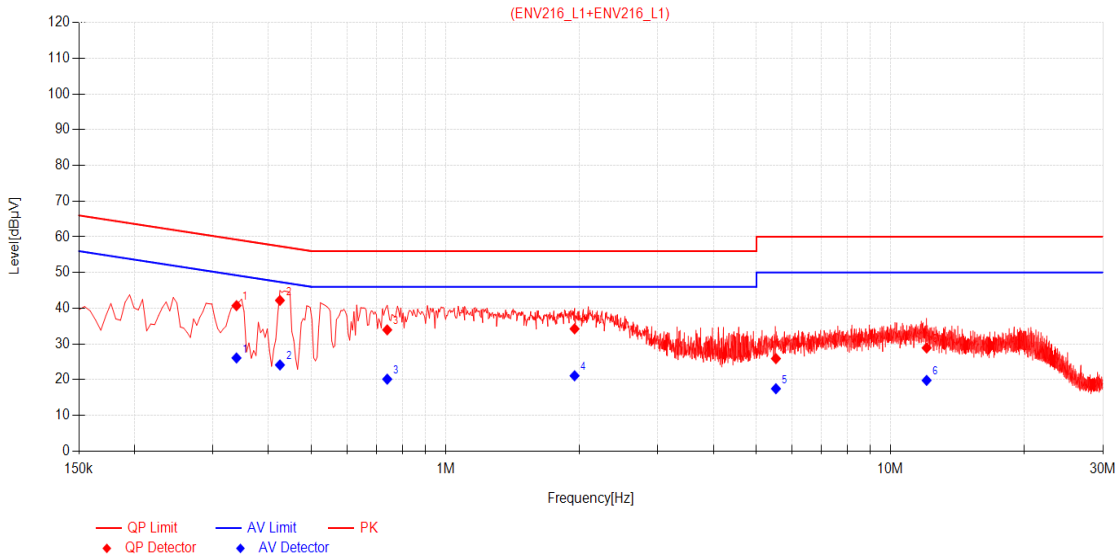


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Final Test Mode:	Mode o	Phase:	Line
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Final Data List

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	0.3390	11.62	29.11	40.73	59.23	18.50	14.46	26.08	49.23	23.15	PASS
2	0.4245	11.62	30.59	42.21	57.36	15.15	12.51	24.13	47.36	23.23	PASS
3	0.7395	11.68	22.27	33.95	56.00	22.05	8.47	20.15	46.00	25.85	PASS
4	1.9500	11.74	22.49	34.23	56.00	21.77	9.35	21.09	46.00	24.91	PASS
5	5.5275	11.83	14.08	25.91	60.00	34.09	5.64	17.47	50.00	32.53	PASS
6	12.0570	11.90	16.99	28.89	60.00	31.11	7.91	19.81	50.00	30.19	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]

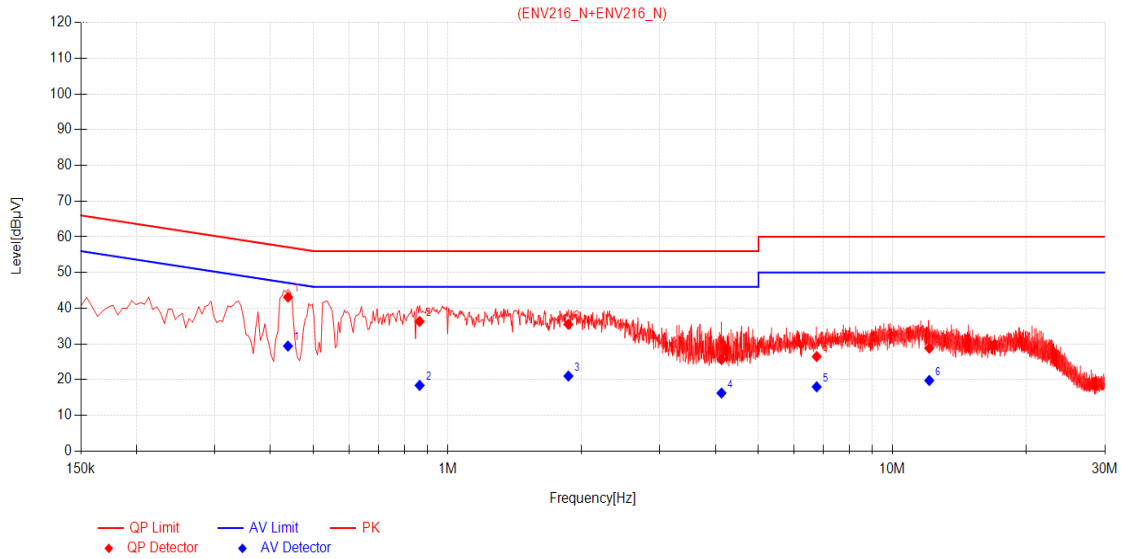


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Final Test Mode:	Mode o	Phase:	Neutral
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Final Data List

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	0.4380	11.62	31.49	43.11	57.10	13.99	17.79	29.41	47.10	17.69	PASS
2	0.8655	11.71	24.60	36.31	56.00	19.69	6.68	18.39	46.00	27.61	PASS
3	1.8690	11.74	23.76	35.50	56.00	20.50	9.27	21.01	46.00	24.99	PASS
4	4.1280	11.78	13.87	25.65	56.00	30.35	4.47	16.25	46.00	29.75	PASS
5	6.7560	11.89	14.59	26.48	60.00	33.52	6.10	17.99	50.00	32.01	PASS
6	12.0975	11.90	16.91	28.81	60.00	31.19	7.88	19.78	50.00	30.22	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]

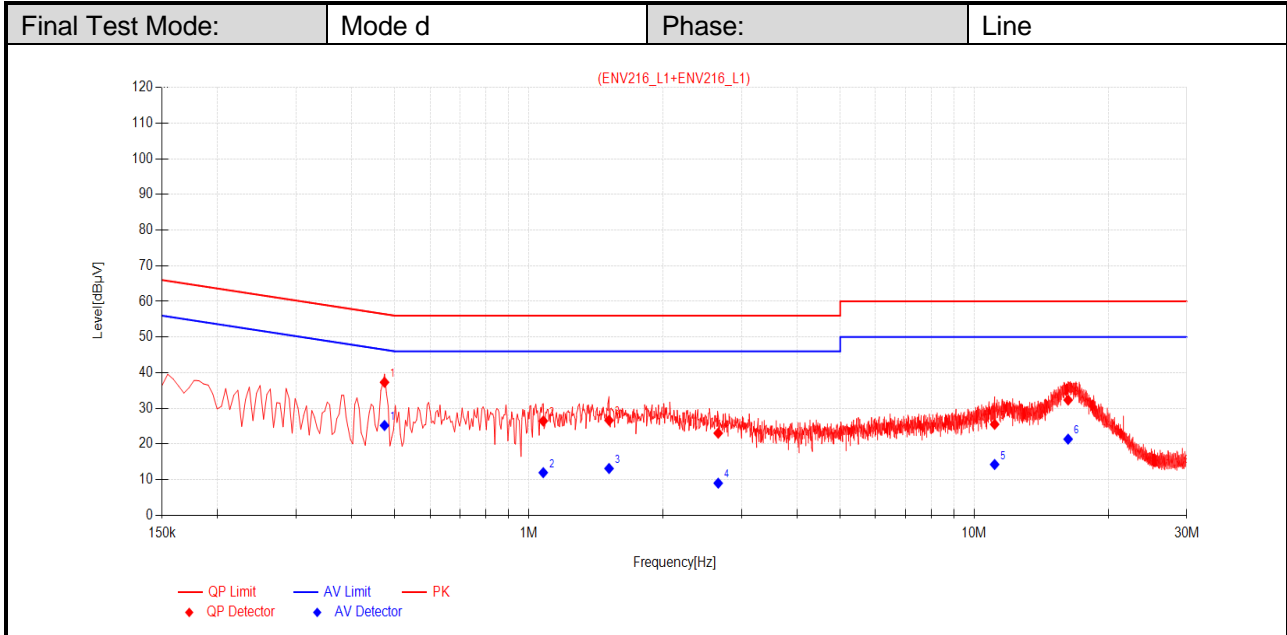


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Test on the worst case:



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	0.4740	10.59	26.72	37.31	56.44	19.13	14.61	25.20	46.44	21.24	PASS
2	1.0770	10.61	15.83	26.44	56.00	29.56	1.36	11.97	46.00	34.03	PASS
3	1.5135	10.79	15.84	26.63	56.00	29.37	2.34	13.13	46.00	32.87	PASS
4	2.6610	10.66	12.38	23.04	56.00	32.96	-1.65	9.01	46.00	36.99	PASS
5	11.1120	10.61	14.91	25.52	60.00	34.48	3.65	14.26	50.00	35.74	PASS
6	16.2465	10.50	21.83	32.33	60.00	27.67	10.86	21.36	50.00	28.64	PASS
1	0.4740	10.59	26.72	37.31	56.44	19.13	14.61	25.20	46.44	21.24	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]

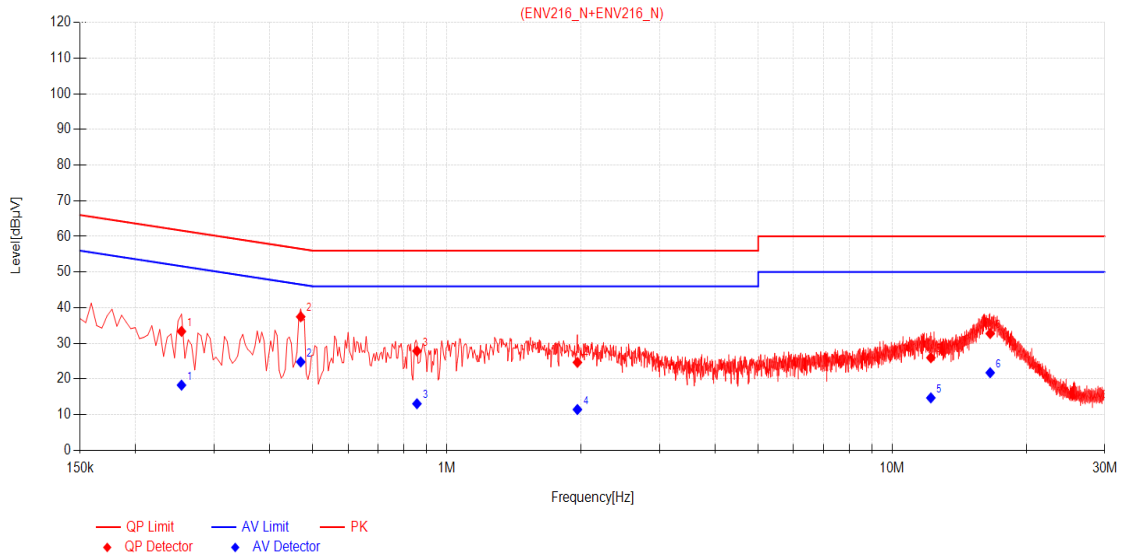


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Final Test Mode:	Mode d	Phase:	Neutral
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Final Data List

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	0.2535	10.73	22.62	33.35	61.64	28.29	7.55	18.28	51.64	33.36	PASS
2	0.4695	10.81	26.65	37.46	56.52	19.06	13.98	24.79	46.52	21.73	PASS
3	0.8565	10.79	17.06	27.85	56.00	28.15	2.28	13.07	46.00	32.93	PASS
4	1.9635	10.78	13.88	24.66	56.00	31.34	0.67	11.45	46.00	34.55	PASS
5	12.2100	10.65	15.31	25.96	60.00	34.04	4.06	14.71	50.00	35.29	PASS
6	16.5930	10.54	22.21	32.75	60.00	27.25	11.22	21.76	50.00	28.24	PASS
1	0.2535	10.73	22.62	33.35	61.64	28.29	7.55	18.28	51.64	33.36	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]

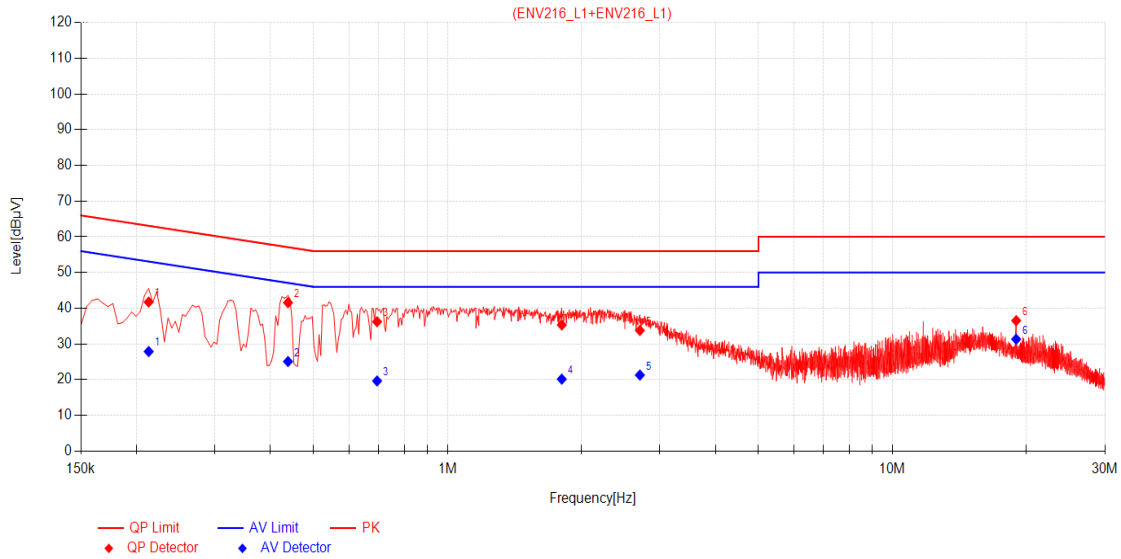


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Final Test Mode:	Mode o	Phase:	Line
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Final Data List

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	0.2130	11.65	30.09	41.74	63.09	21.35	16.24	27.89	53.09	25.20	PASS
2	0.4380	11.62	29.96	41.58	57.10	15.52	13.46	25.08	47.10	22.02	PASS
3	0.6945	11.67	24.56	36.23	56.00	19.77	7.98	19.65	46.00	26.35	PASS
4	1.8060	11.73	23.59	35.32	56.00	20.68	8.42	20.15	46.00	25.85	PASS
5	2.7060	11.73	22.05	33.78	56.00	22.22	9.56	21.29	46.00	24.71	PASS
6	18.9690	11.97	24.58	36.55	60.00	23.45	19.37	31.34	50.00	18.66	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]

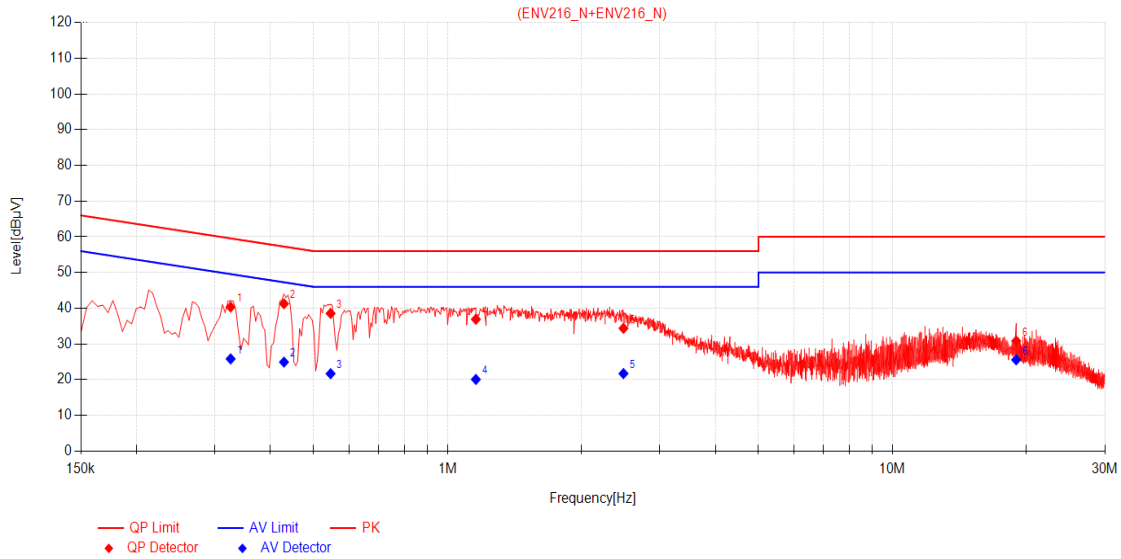


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Final Test Mode:	Mode o	Phase:	Neutral
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Final Data List

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	0.3255	11.62	28.72	40.34	59.57	19.23	14.20	25.82	49.57	23.75	PASS
2	0.4290	11.62	29.64	41.26	57.27	16.01	13.31	24.93	47.27	22.34	PASS
3	0.5460	11.62	26.94	38.56	56.00	17.44	10.06	21.68	46.00	24.32	PASS
4	1.1580	11.72	25.20	36.92	56.00	19.08	8.35	20.07	46.00	25.93	PASS
5	2.4855	11.73	22.64	34.37	56.00	21.63	9.98	21.71	46.00	24.29	PASS
6	18.9690	11.97	18.85	30.82	60.00	29.18	13.59	25.56	50.00	24.44	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:	<p>a: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850(Idle) Low 8+256G</p> <p>b: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+256G</p> <p>c: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+MP4+LTE Band 5 (Idle) High 8+256G</p> <p>d: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+NFC ON+LTE Band 12 (Idle) Low 8+256G</p> <p>e: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 13 (Idle) Mid 8+256G</p> <p>f: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+FM+LTE Band 17 (Idle) High 8+256G</p> <p>g: adapter(2)+usb Cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+LTE Band 26 (Idle) Low 8+256G</p> <p>h: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+256G</p> <p>i: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+128G</p> <p>j: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+128G</p>



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	<p>k: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 4+128G</p> <p>l: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 4+128G</p> <p>m: adapter(1)+usb Cable(4)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+128G</p> <p>n: adapter(1)+usb Cable(3)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+128G</p> <p>o: Transfer data between the EUT and the PC+USB cable(4)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+256G</p> <p>p: Transfer data between the EUT and the PC+USB cable(3)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+256G</p>
<p>The worst case for final test:</p>	<p>i: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+128G</p> <p>h: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+256G</p>



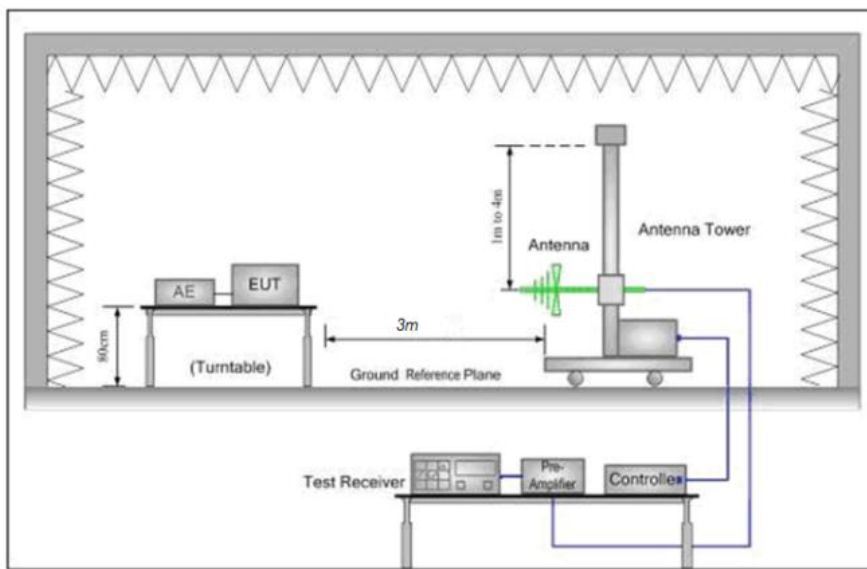
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2.2.2 Test Setup Procedures

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.



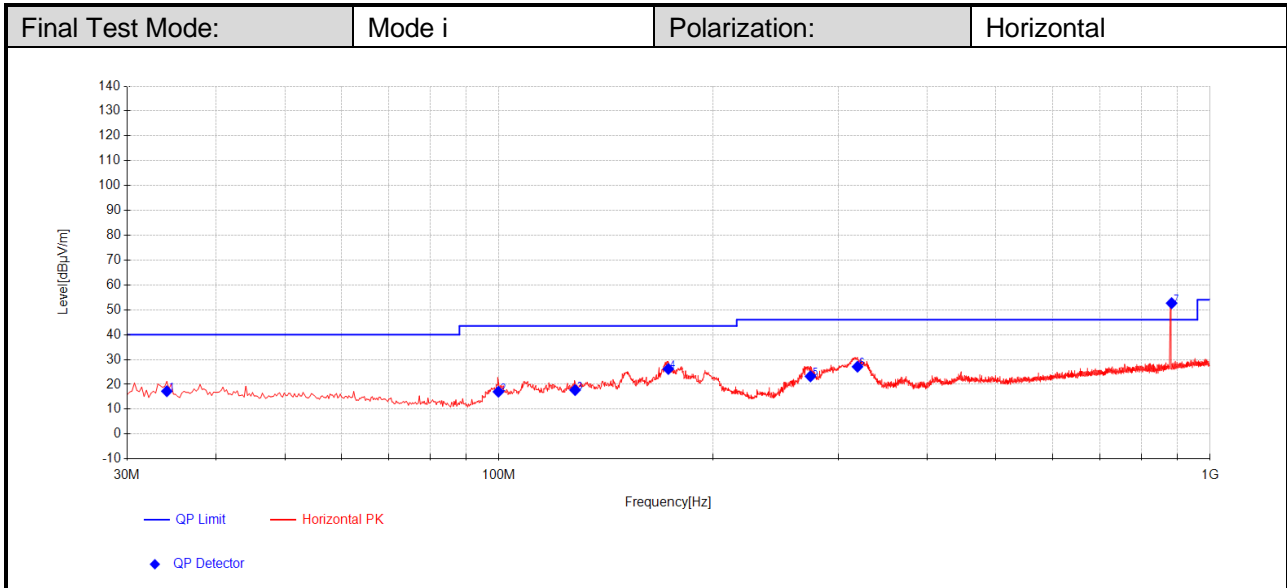
2.2.3 Measurement Data

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 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	34.1225	32.24	13.36	-28.37	17.23	40.00	22.77	152	92	Horizontal
2	99.84	34.26	10.14	-27.36	17.03	43.50	26.47	265	47	Horizontal
3	127.97	32.29	12.68	-27.26	17.70	43.50	25.80	241	22	Horizontal
4	173.075	38.29	14.49	-26.59	26.19	43.50	17.31	142	22	Horizontal
5	274.1975	37.59	12.17	-26.53	23.23	46.00	22.77	263	22	Horizontal
6	319.3025	40.29	13.20	-26.39	27.10	46.00	18.90	228	360	Horizontal
7*	882.8725	54.79	21.43	-23.54	52.68	-	-	200	59	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)

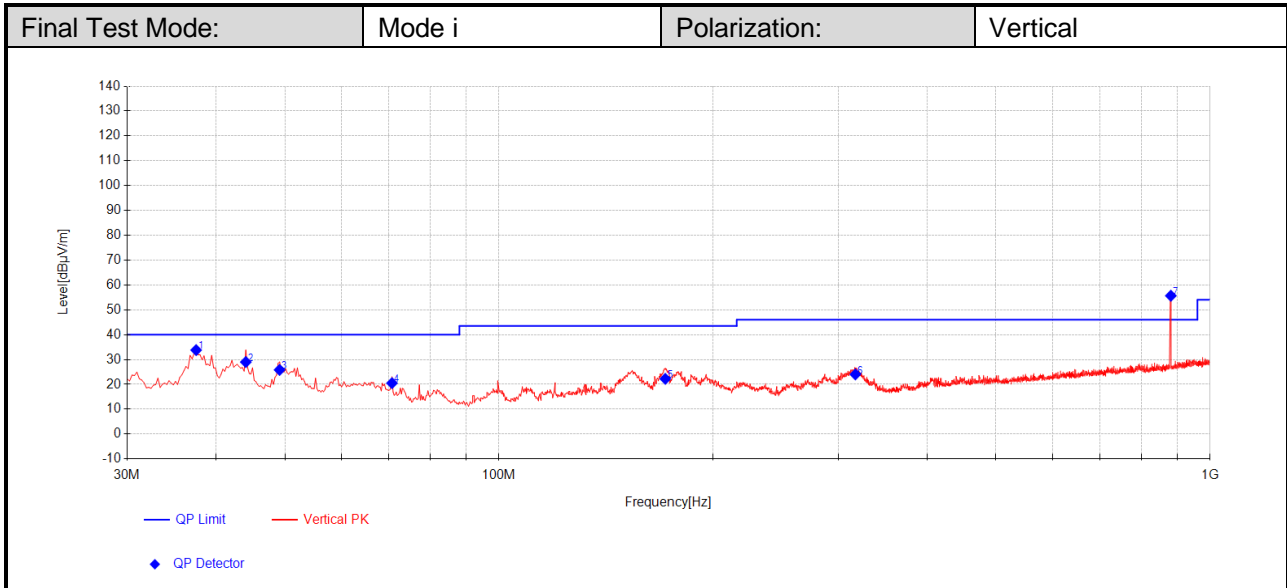
Margin = Limit[dBµV/m] -Value[dBµV/m]

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



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Final 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	37.5175	48.26	13.73	-28.20	33.79	40.00	6.21	142	34	Vertical
2	44.065	43.29	13.73	-28.05	28.97	40.00	11.03	265	355	Vertical
3	49.1575	40.28	13.56	-28.02	25.82	40.00	14.18	284	224	Vertical
4	70.74	37.54	10.71	-27.75	20.49	40.00	19.51	142	22	Vertical
5	171.3775	34.28	14.45	-26.52	22.21	43.50	21.29	263	326	Vertical
6	317.12	37.29	13.15	-26.43	24.01	46.00	21.99	228	338	Vertical
7*	880.69	57.83	21.41	-23.59	55.65	-	-	100	360	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]

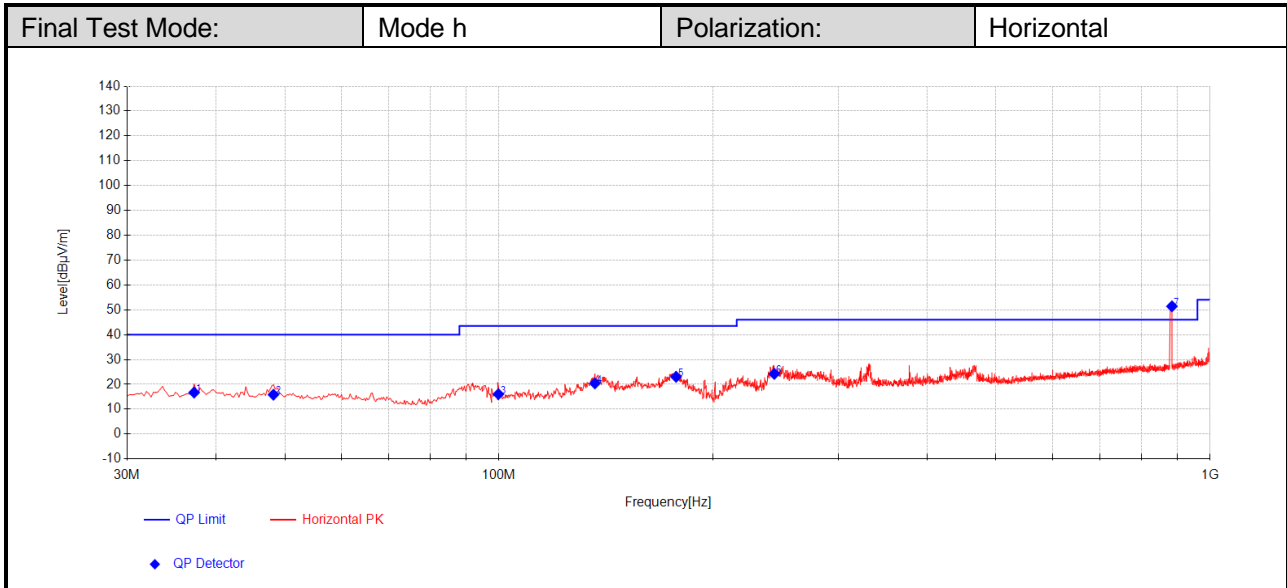
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.275	31.24	13.70	-28.22	16.72	40.00	23.28	142	204	Horizontal
2	48.1875	30.29	13.58	-28.02	15.85	40.00	24.15	265	339	Horizontal
3	99.84	33.29	10.14	-27.36	16.06	43.50	27.44	284	283	Horizontal
4	136.4575	34.29	13.25	-27.14	20.40	43.50	23.10	142	15	Horizontal
5	177.44	35.21	14.61	-26.78	23.04	43.50	20.46	263	15	Horizontal
6	243.885	38.98	11.37	-26.12	24.22	46.00	21.78	225	250	Horizontal
7*	883.8425	53.48	21.45	-23.52	51.41	-	-	200	328	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]

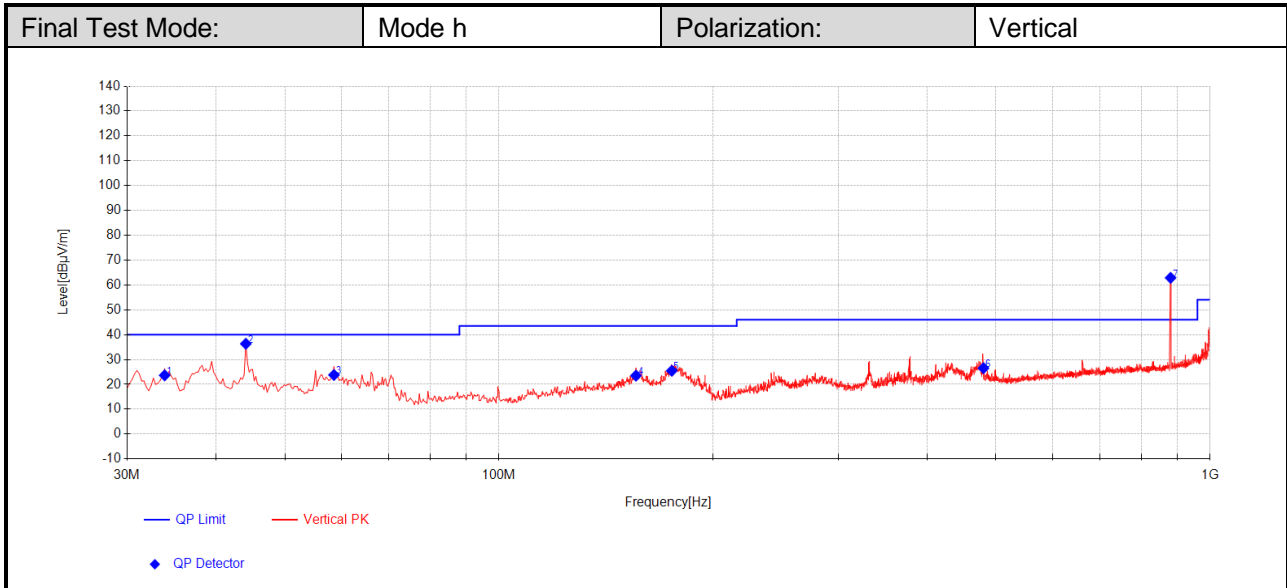
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Final Data List

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	33.88	38.65	13.35	-28.39	23.62	40.00	16.38	142	338	Vertical
2	44.065	50.65	13.73	-28.05	36.33	40.00	3.67	265	22	Vertical
3	58.615	38.59	12.86	-27.68	23.77	40.00	16.23	284	277	Vertical
4	155.8575	36.57	14.01	-27.08	23.50	43.50	20.00	142	322	Vertical
5	175.015	37.59	14.55	-26.68	25.46	43.50	18.04	263	359	Vertical
6	480.08	35.29	16.29	-25.04	26.54	46.00	19.46	225	33	Vertical
7*	879.9625	65.07	21.40	-23.60	62.87	-	-	100	33	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.

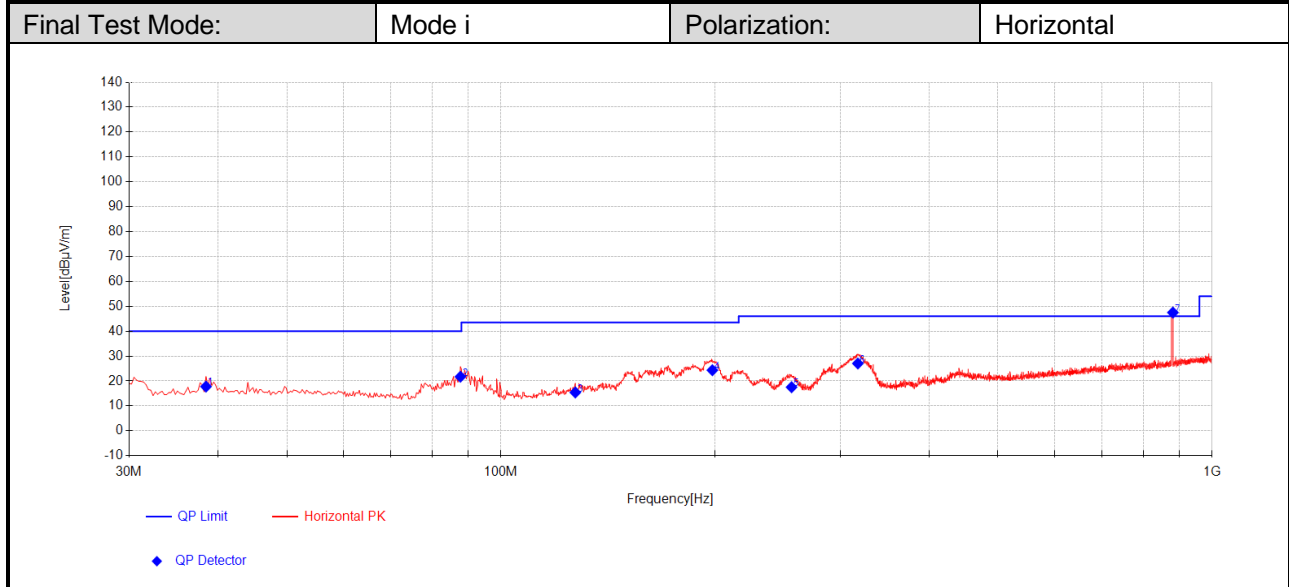


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Test on the worst case:



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	38.4875	32.04	13.86	-28.16	17.75	40.00	22.25	142	291	Horizontal
2	87.715	40.05	9.41	-27.73	21.72	40.00	18.28	265	23	Horizontal
3	127.2425	30.06	12.64	-27.30	15.39	43.50	28.11	284	358	Horizontal
4	198.295	41.06	10.31	-27.04	24.32	43.50	19.18	142	95	Horizontal
5	256.2525	32.06	11.72	-26.28	17.51	46.00	28.49	263	303	Horizontal
6	317.605	40.29	13.16	-26.42	27.03	46.00	18.97	228	84	Horizontal
7*	880.9325	49.66	21.41	-23.58	47.49	-	-	200	46	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.

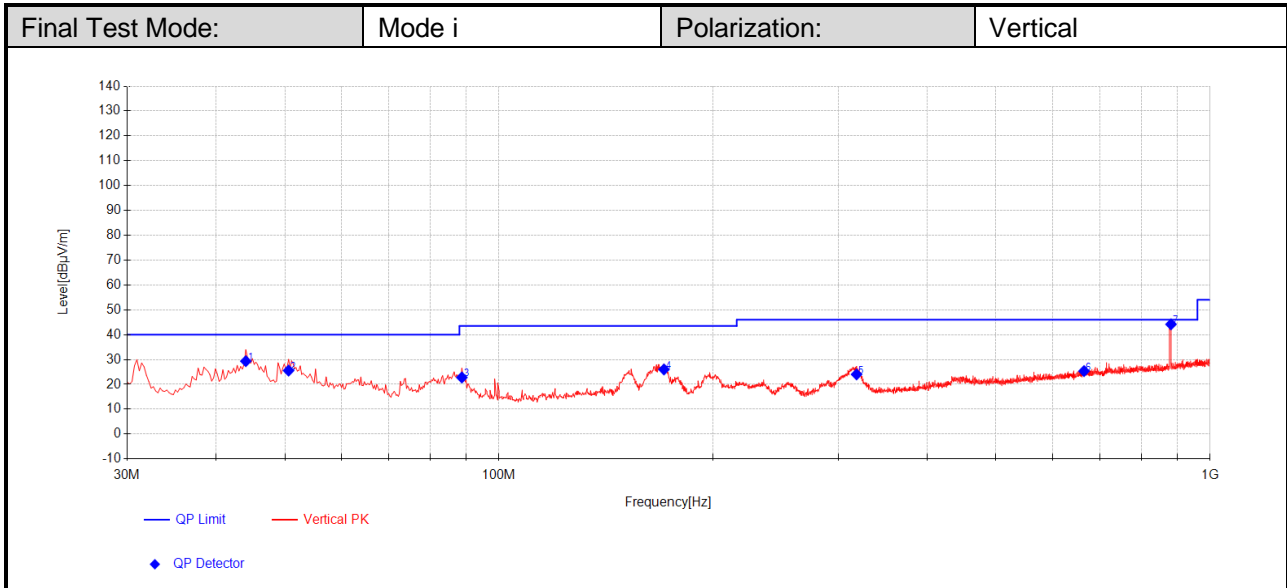


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Final Data List

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	44.065	43.65	13.73	-28.05	29.33	40.00	10.67	142	338	Vertical
2	50.6125	40.05	13.49	-27.99	25.55	40.00	14.45	265	5	Vertical
3	88.685	41.06	9.42	-27.71	22.77	43.50	20.73	284	86	Vertical
4	170.65	38.06	14.43	-26.49	26.00	43.50	17.50	142	235	Vertical
5	318.3325	37.24	13.18	-26.41	24.01	46.00	21.99	263	28	Vertical
6	664.865	30.26	19.18	-24.08	25.35	46.00	20.65	225	1	Vertical
7*	881.175	46.34	21.41	-23.58	44.18	-	-	200	69	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]

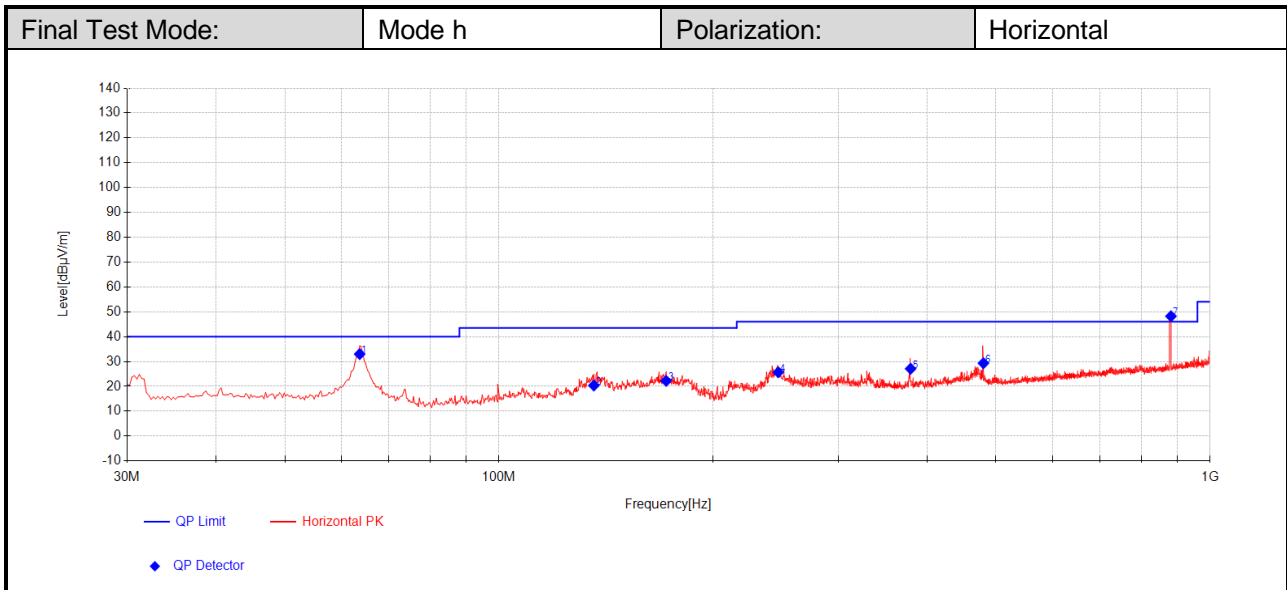
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Final Data List

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	63.7075	48.62	12.03	-27.67	32.98	40.00	7.02	1265	3	Horizontal
2	135.9725	34.26	13.22	-27.14	20.34	43.50	23.16	284	21	Horizontal
3	171.8625	34.28	14.46	-26.54	22.20	43.50	21.30	142	235	Horizontal
4	247.0375	40.25	11.47	-26.06	25.66	46.00	20.34	263	259	Horizontal
5	379.2	38.24	14.36	-25.51	27.09	46.00	18.91	142	203	Horizontal
6	480.08	38.06	16.29	-25.04	29.31	46.00	16.69	255	227	Horizontal
7*	880.9325	50.4	21.41	-23.58	48.23	-	-	100	102	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]

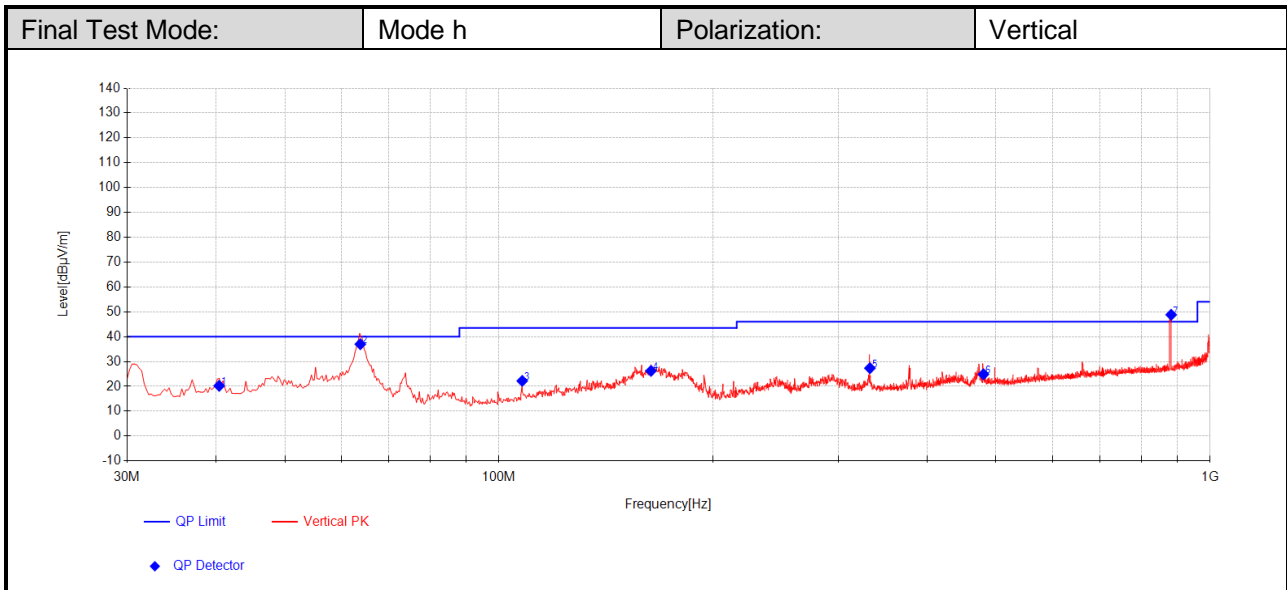
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.4275	34.26	14.03	-28.08	20.22	40.00	19.78	142	1	Vertical
2	63.8375	52.61	12.03	-27.67	36.97	40.00	3.03	265	106	Vertical
3	107.8425	38.69	10.92	-27.41	22.20	43.50	21.30	284	45	Vertical
4	163.6175	38.65	14.24	-26.66	26.23	43.50	17.27	142	283	Vertical
5	332.3975	39.65	13.47	-25.79	27.33	46.00	18.67	263	179	Vertical
6	480.08	33.62	16.29	-25.04	24.87	46.00	21.13	228	111	Vertical
7*	881.66	50.96	21.42	-23.57	48.81	-	-	100	124	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: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+Camera(Rear)+GSM850(Idle) Low 8+256G</p> <p>b: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5G WLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+256G</p> <p>c: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+MP4+LTE Band 5 (Idle) High 8+256G</p> <p>d: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5G WLAN(Idle)+NFC ON+LTE Band 12 (Idle) Low 8+256G</p> <p>e: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+GNSS+LTE Band 13 (Idle) Mid 8+256G</p> <p>f: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5G WLAN(Idle)+FM+LTE Band 17 (Idle) High 8+256G</p> <p>g: adapter(2)+usb Cable(1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+Camera(Front)+LTE Band 26 (Idle) Low 8+256G</p> <p>h: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+WCDMA Band 5(Idle) Mid 8+256G</p> <p>i: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5G WLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+128G</p> <p>j: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+WCDMA Band 5(Idle) Mid 8+128G</p> <p>k: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+5G WLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 4+128G</p>



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	<p>l: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 4+128G</p> <p>m: adapter(1)+usb Cable(4)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+128G</p> <p>n: adapter(1)+usb Cable(3)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(Idle) Mid 8+128G</p> <p>o: Transfer data between the EUT and the PC+USB cable(4)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+256G</p> <p>p: Transfer data between the EUT and the PC+USB cable(3)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+256G</p>
<p>The worst case for final test:</p>	<p>a: adapter(1)+usb Cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (Idle) Low 8+256G</p> <p>h: Transfer data between the EUT and the PC+USB cable(1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+WCDMA Band 5(Idle) Mid 8+256G</p>



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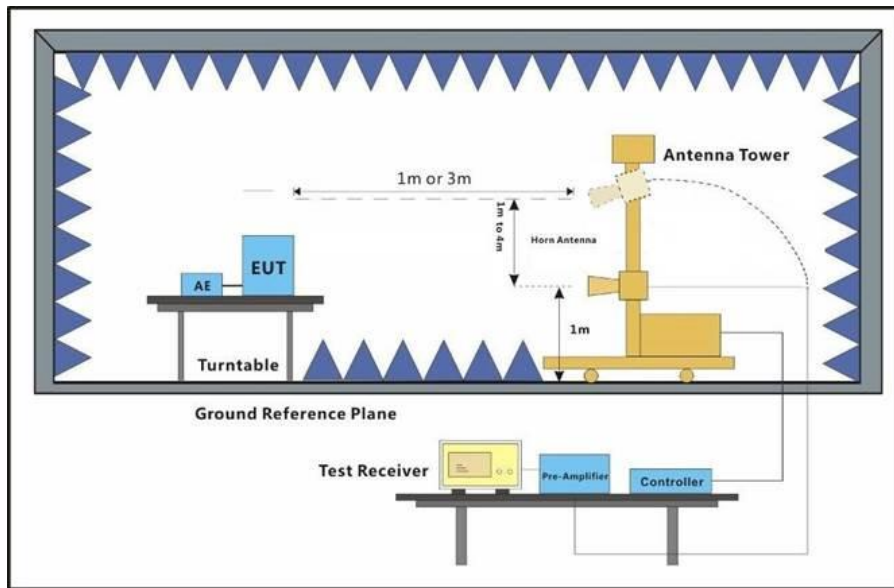
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2.3.2 Test Setup Procedures

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.

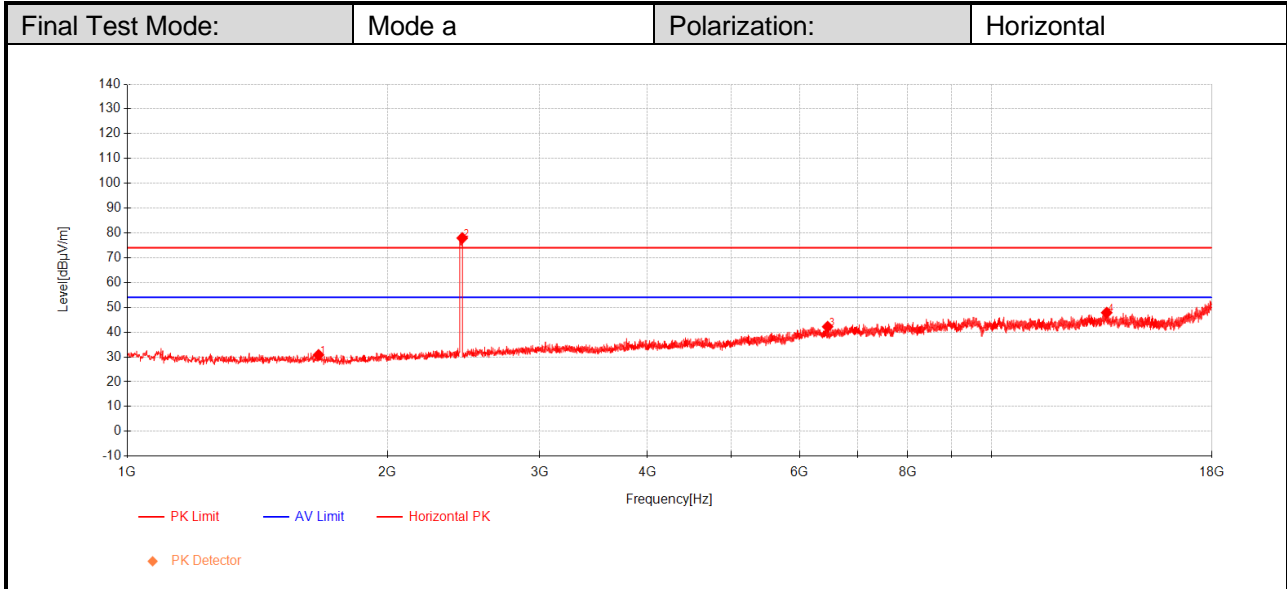
The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed. Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing,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



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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.7	53.57	25.57	30.80	-48.34	74.00	43.20	285	33	Horizontal
2*	2441.6	97.38	27.78	77.93	-47.24	-	-	241	64	Horizontal
3	6463.8	50.01	35.13	42.18	-42.96	74.00	31.82	142	124	Horizontal
4	13596.15	42.26	39.96	47.85	-34.36	74.00	26.15	263	199	Horizontal

Remark:

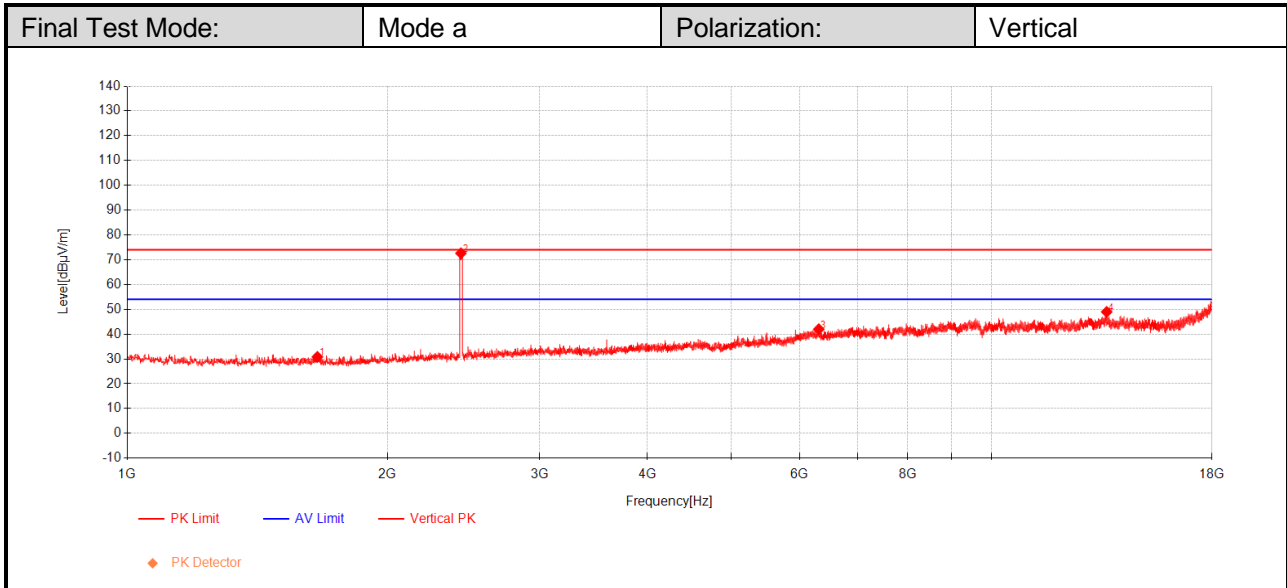
- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit[dBµV/m] – Level[dBµV/m]

Note*: #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 Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659.6	53.59	25.57	30.81	-48.35	74.00	43.19	142	205	Vertical
2*	2433.1	92.14	27.77	72.60	-47.31	-	-	265	262	Vertical
3	6313.35	50.08	34.83	41.99	-42.91	74.00	32.01	281	205	Vertical
4	13595.3	43.36	39.96	48.96	-34.36	74.00	25.04	201	3	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]

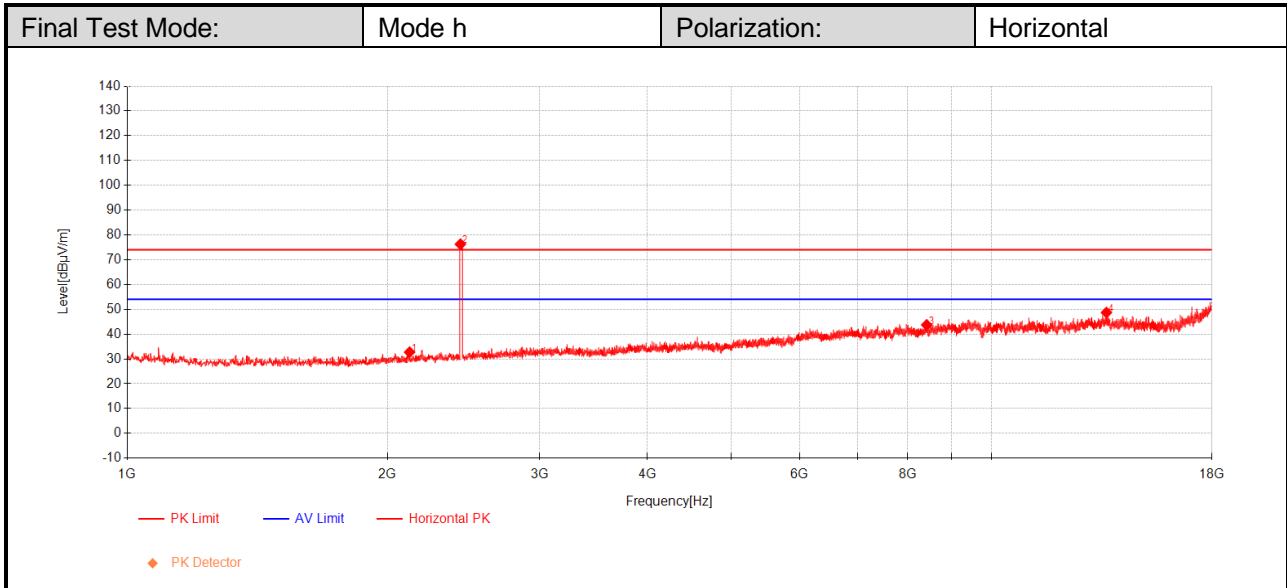
Note*: #2:1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.



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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2122	53.43	27.14	32.72	-47.85	74.00	41.28	196	123	Horizontal
2*	2429.7	95.86	27.76	76.28	-47.34	-	-	265	9	Horizontal
3	8416.25	45.96	37.96	43.71	-40.21	74.00	30.29	274	357	Horizontal
4	13586.8	43.06	39.95	48.69	-34.32	74.00	25.31	142	0	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]

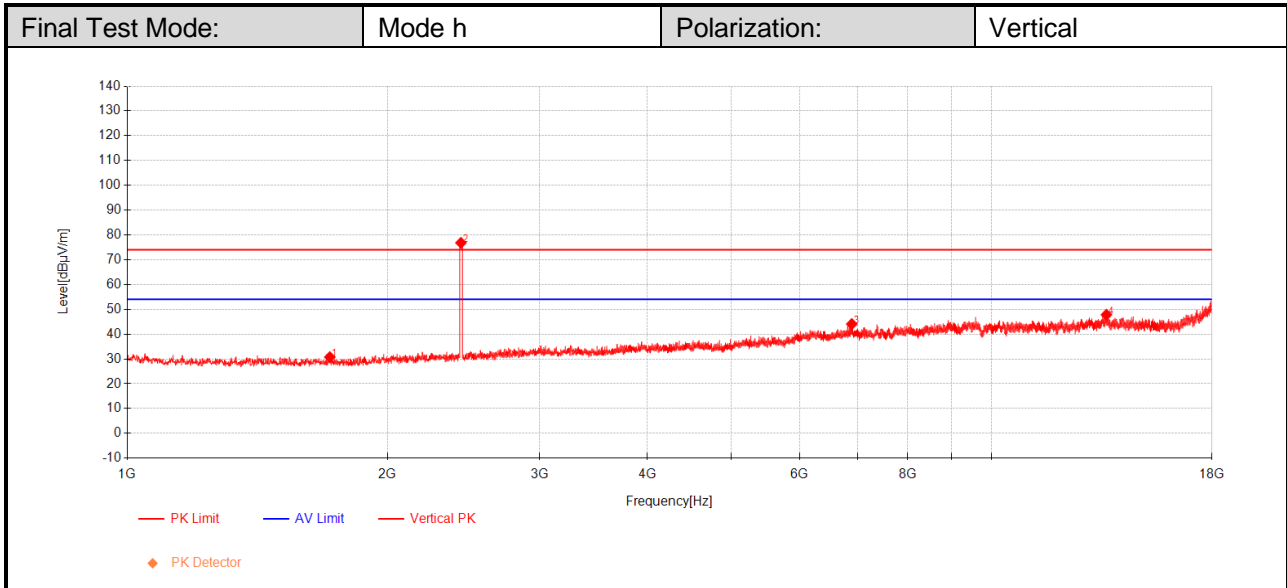
Note*: #2:1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.



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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1715.7	53.45	25.54	30.73	-48.26	74.00	43.27	296	117	Vertical
2*	2433.1	96.36	27.77	76.82	-47.31	-	-	241	351	Vertical
3	6893.9	50.60	35.99	44.08	-42.51	74.00	29.92	142	359	Vertical
4	13585.95	42.18	39.95	47.81	-34.32	74.00	26.19	255	340	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*: #2:1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.

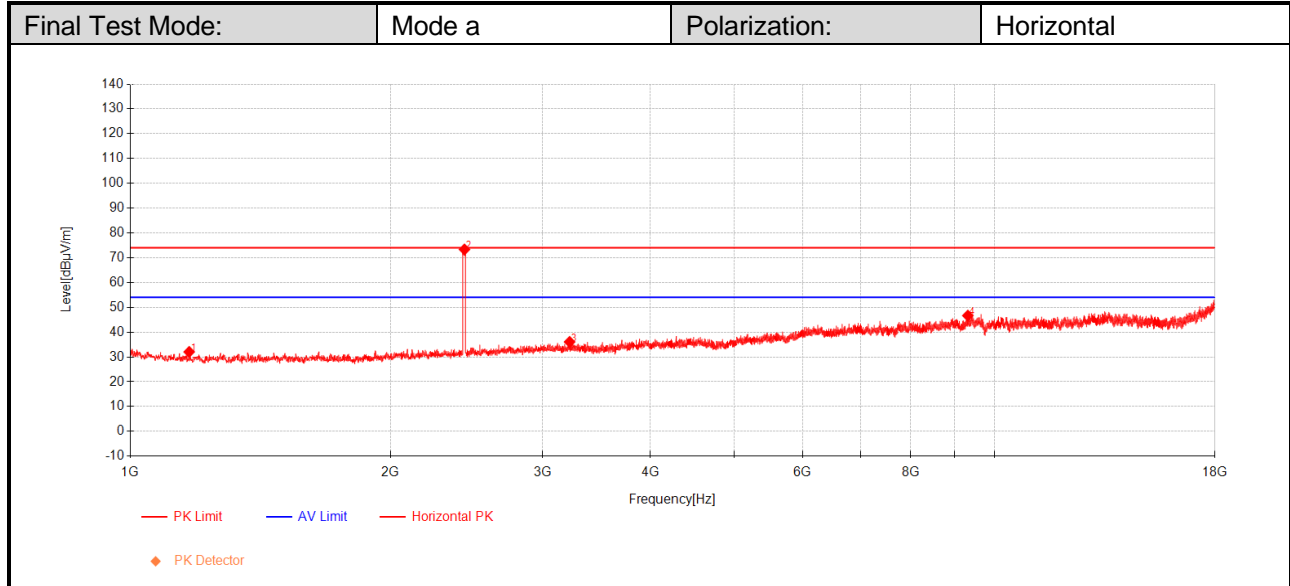


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Test on the worst case:



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1170	55.19	25.73	32.03	-48.89	74.00	41.97	254	356	Horizontal
2*	2436.5	92.86	27.77	73.35	-47.28	-	-	142	227	Horizontal
3	3224.45	52.78	29.51	36.06	-46.23	74.00	37.94	265	18	Horizontal
4	9317.25	46.36	38.57	46.66	-38.26	74.00	27.34	241	92	Horizontal

Remark:

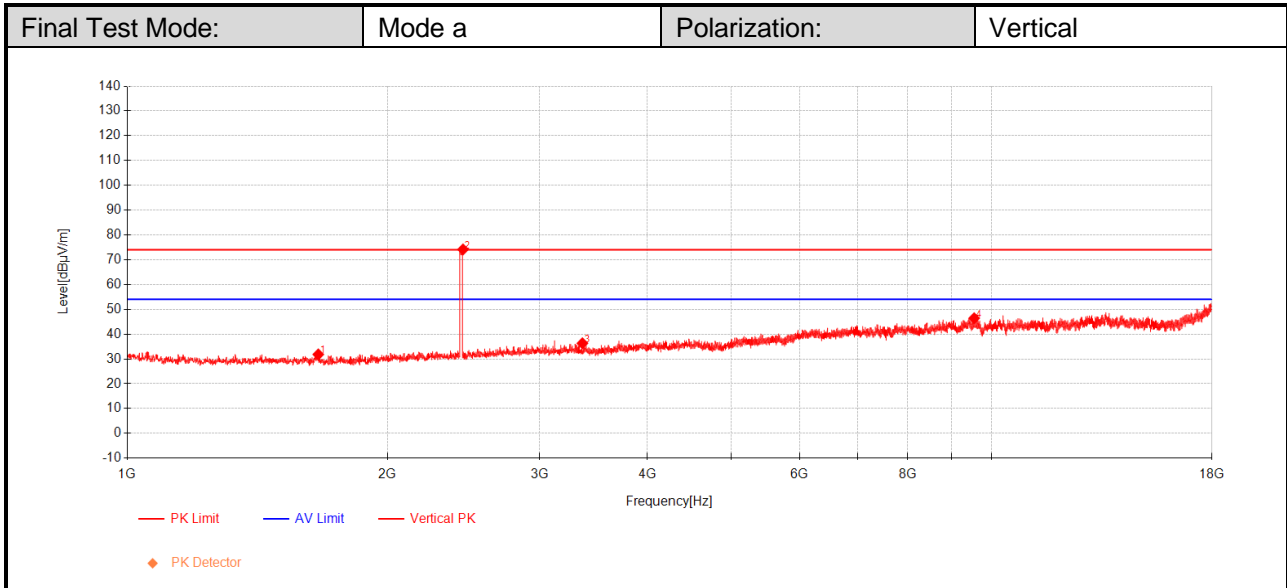
1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit[dBµV/m] – Level[dBµV/m]

Note*: #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 Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1663.85	54.59	25.57	31.82	-48.34	74.00	42.18	196	355	Vertical
2*	2446.7	93.56	27.79	74.16	-47.19	-	-	254	14	Vertical
3	3363	53.08	29.45	36.32	-46.22	74.00	37.68	265	360	Vertical
4	9550.15	45.99	38.54	46.40	-38.13	74.00	27.60	241	205	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]

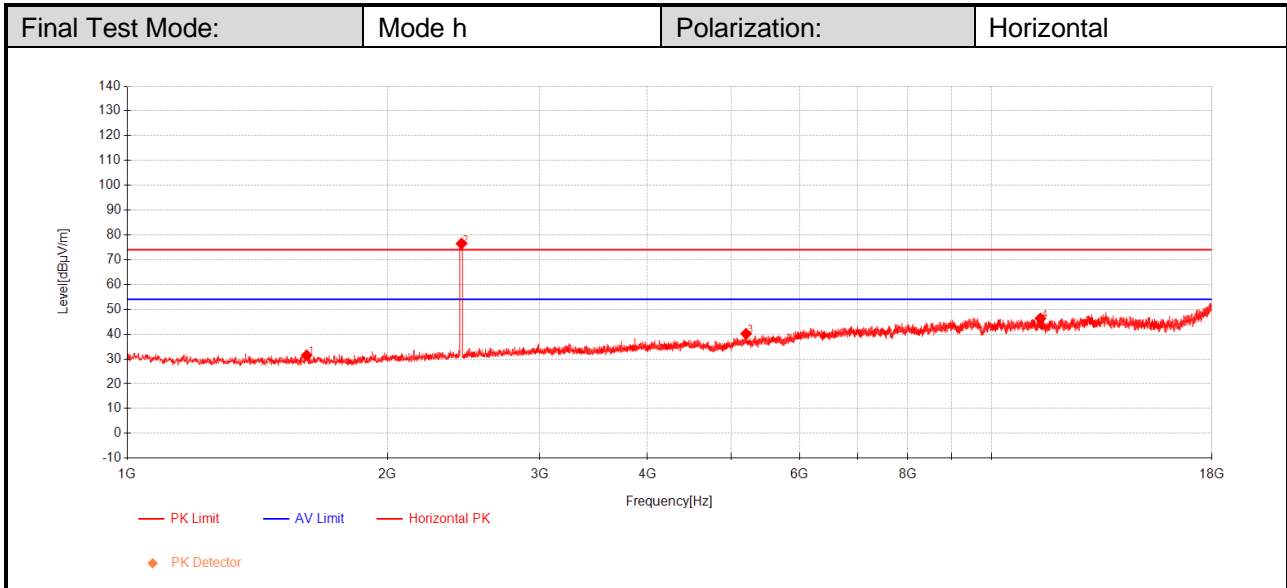
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1612.85	54.34	25.59	31.45	-48.48	74.00	42.55	196	331	Horizontal
2*	2436.5	96.00	27.77	76.49	-47.28	-	-	254	212	Horizontal
3	5201.55	51.48	32.60	40.15	-43.93	74.00	33.85	241	301	Horizontal
4	11394.65	42.38	39.21	46.32	-35.27	74.00	27.68	185	34	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]

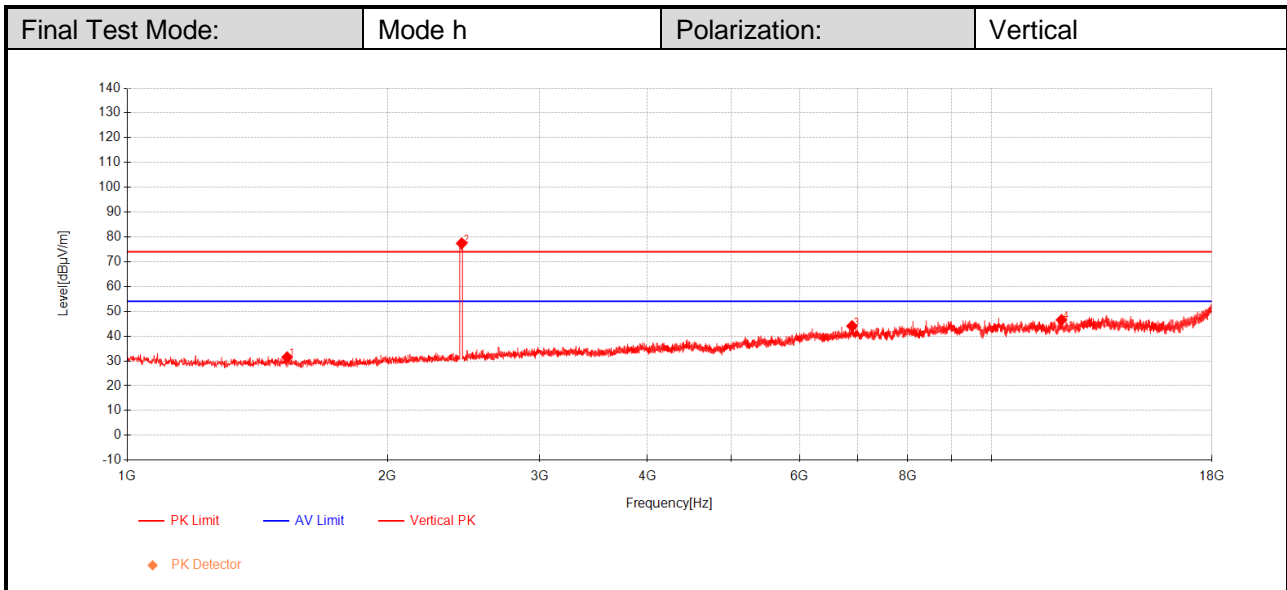
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1531.25	54.49	25.53	31.52	-48.50	74.00	42.48	196	3	Vertical
2*	2438.2	96.91	27.78	77.42	-47.27	-	-	284	280	Vertical
3	6898.15	50.56	36.00	44.06	-42.50	74.00	29.94	265	324	Vertical
4	12055.1	43.12	38.66	46.55	-35.23	74.00	27.45	241	223	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*: #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)
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
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
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2023/02/06	2024/02/05
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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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	2022/05/28	2023/05/27
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	2021/05/16	2023/05/15
				2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
				2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
				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
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2023/02/06	2024/02/05
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 (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (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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