

FCC RF Test Report

(BLE)

Report No.: JYTSZ-R12-2500541

Applicant: Shenzhen Gotron Electronic CO., LTD.

Address of Applicant: 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: GQ5017, Armor 34 Pro, Armor 34, Armor 34 Ultra, Armor 34T Ultra, Armor 34T Pro, Armor 34 Lite, Armor 34s, Armor 34s Pro

Trade Mark: ulefone

FCC ID: 2AOWK-5017

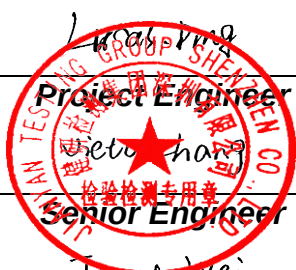
Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: 24 Mar., 2025

Date of Test: 25 Mar., to 16 Jul., 2025

Date of Report Issued: 16 Jul., 2025

Test Result: PASS

Project by:		Date:	16 Jul., 2025
Reviewed by:	Project Engineer	Date:	16 Jul., 2025
Approved by:	Senior Engineer Janet Wei Manager	Date:	16 Jul., 2025

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	13 Jun., 2025	Original
01	16 Jul., 2025	Updated Pages 5,8,10,30 and Appendix-BLE

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Gotron Electronic CO., LTD.
Address:	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China
Manufacturer:	Shenzhen Gotron Electronic CO., LTD.
Address:	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

3.2 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	GQ5017, Armor 34 Pro, Armor 34, Armor 34 Ultra, Armor 34T Ultra, Armor 34T Pro, Armor 34 Lite, Armor 34s, Armor 34s Pro
Operation Frequency:	2402 MHz - 2480 MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Technology:	GFSK
Data Speed:	1 Mbps (LE 1M PHY), 2 Mbps (LE 2M PHY), 125 kbps (LE Coded PHY, S=8), 500 kbps (LE Coded PHY, S=2)
Antenna Type:	Internal Antenna
Antenna Gain:	ANT0:0.81dBi (declare by applicant)
Antenna transmit mode:	SISO (1TX, 1RX)
Power Supply:	Rechargeable Li-ion Battery DC3.87V, 25500mAh
AC Adapter:	Model:HJ-PD66W-US Input: AC100-240V, 50/60Hz, 1.5A Output: DC 5.0V, 3.0A 15.0W OR 9.0V, 3.0A 27.0W OR 12.0V, 3.0A 36.0W OR 15.0V, 3.0A 45.0W OR 20.0V 3.25A 65W OR 11.0V, 6.0A 66.0W MAX
Remark:	GQ5017, Armor 34 Pro, Armor 34, Armor 34 Ultra, Armor 34T Ultra, Armor 34T Pro, Armor 34 Lite, Armor 34s, Armor 34s Pro were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode and Test Environment

Test Mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
Remark: - For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan all data speed, found 1 Mbps (LE 1M PHY) and Lowest channel was worse case mode. The report only reflects the test data of worst mode. - Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report. - During the test, the mobile phone dial interface is used to enter the EUT engineering mode, and the prototype transmission power level is 7.	
Operating Environment:	
Temperature:	15℃ ~ 35℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.87Vdc, Extreme: Low 3.00Vdc, High 4.45Vdc
Test Engineer:	Li Huang(Conducted measurement) Robin Gu(Radiated measurement)

3.4 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Occupied Channel Bandwidth	0.250 MHz
RF output power, conducted	0.75dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	2.86 dB
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.0 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.4 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	±4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	±5.8 dB
Radiated Emission (1GHz ~ 18GHz) (3m FAR)	5.15 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.30 dB

Note: All the measurement uncertainty value were shown with a coverage $k=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

3.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	01-03-2025	01-02-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-03-2025	01-02-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-16-2024	12-15-2025
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-16-2024	12-15-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-15-2025	01-14-2026
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	07-01-2024	06-30-2025
				04-24-2025	04-23-2026
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	06-16-2024	06-15-2025
				05-23-2025	05-22-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-25-2024	12-24-2025
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-25-2024	12-24-2025
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-25-2024	12-24-2025
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	04-24-2024	04-23-2025
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	04-24-2024	04-23-2025
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-16-2024	12-15-2025
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-16-2024	12-15-2025
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-16-2024	12-15-2025
Spectrum Analyzer	KEYSIGHT	N9020B	WXJ081-1	06-11-2024	06-10-2025
				05-08-2025	05-07-2026
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	07-30-2024	07-29-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	07-30-2024	07-29-2025
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	07-30-2024	07-29-2025
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	06-11-2024	06-10-2025
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	05-08-2025	05-07-2026
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-17-2024	12-16-2025
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	12-17-2024	12-16-2025
RF Switch	TOP PRECISION	RSU0301	WXG003	01-15-2025	01-14-2026
Test Software	AUDIX	E3	N/A		
				Version: 6.110919b	

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	WXJ004-3	09-10-2024	09-09-2025
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	12-17-2024	12-16-2026
Power Detector Box	MWRFTTEST	MW100-PSB	WXJ007-4	09-10-2024	09-09-2025
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	MWRFTTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTTEST	MTS 8310	Version: 2.0.0.0		

4 Measurement Setup and Procedure

4.1 Test Channel

Carrier Frequency Channel:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	--	--
13	2428	27	2456	--	--

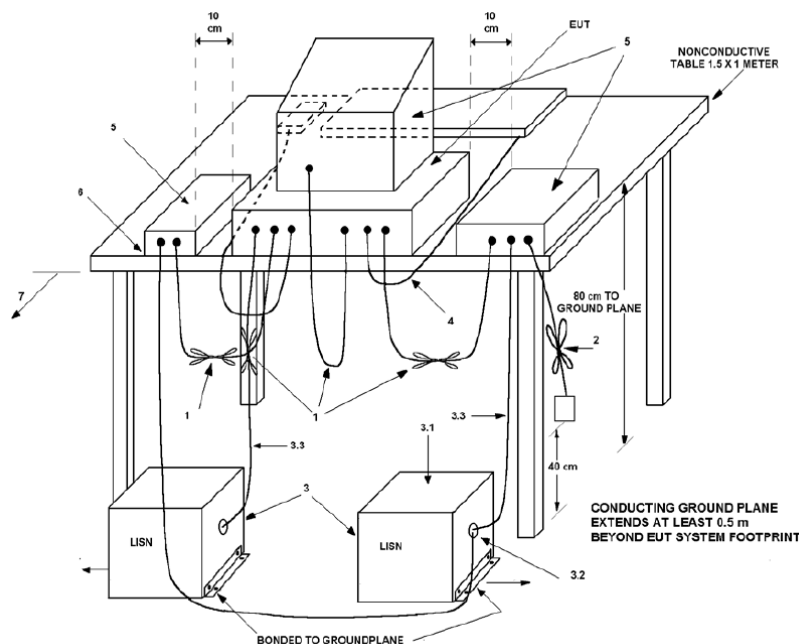
Test Channel:

According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	20	2442	39	2480

4.2 Test Setup

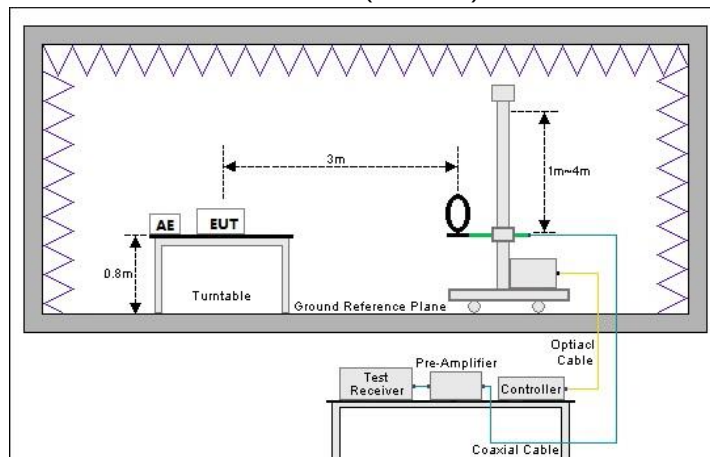
1) Conducted emission measurement:



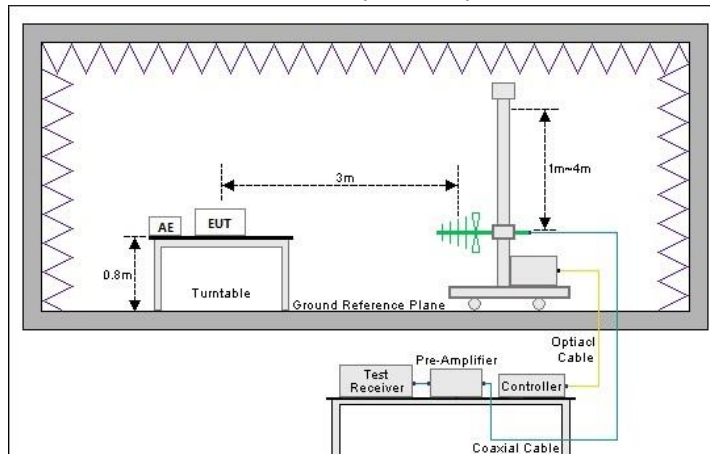
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

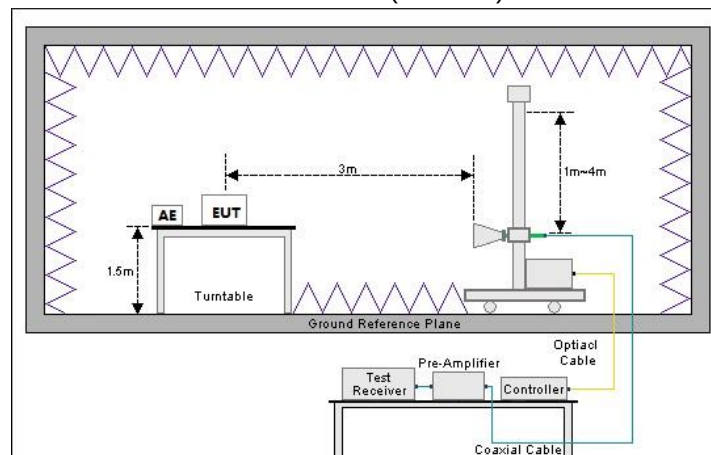
9KHz-30MHz (3m SAC)



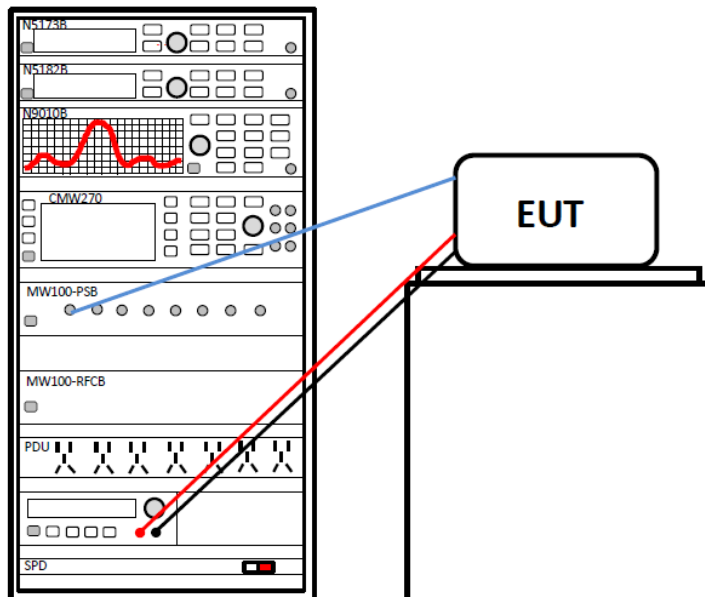
Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



3) Conducted test method



4.3 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Radiated emission	For below 30MHz: 1. The EUT was placed on the table top of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	1. The BLE antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software. The test procedures of each test project are as follows :

	3.1 6dB Emission Bandwidth & 99% Occupied Bandwidth 3.1.1 The testing follows ANSI C63.10-2013 clause 11.8. 3.1.2 Set the measurement with the spectrum analyzer's RBW= 100 kHz Set the VBW= 300 kHz, Detector = peak, Trace mode = max hold. Sweep = auto couple. 3.1.3 For 99% Bandwidth Measurement,) is set the RBW=1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW. 3.2 Conducted Output Power 3.2.1 The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3. 3.2.2 Set the measurement with the spectrum analyzer's RBW> DTS bandwidth Set the VBW $\geq 3 \times$ RBW, Detector = peak, Trace mode = max hold. Sweep = auto couple. 3.3 Power Spectral Density 3.3.1 The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD. 3.3.2 Set the measurement with the spectrum analyzer's RBW= 3 kHz, VBW = 10 kHz, In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth, set Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize, Use the peak marker function to determine the maximum amplitude level within the RBW. 3.3.3 Use the peak marker function to determine the maximum amplitude level within the RBW. 3.4 Conduction Band-edge & Spurious Emission 3.4.1 The testing follows ANSI C63.10-2013 clause 11.13 3.4.2 Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 3.4.3 Use the peak marker function to determine the maximum amplitude level.
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5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 5.2	Pass
AC Power Line Conducted Emission	15.207	See Section 5.3	Pass
Conducted Output Power	15.247 (b)(3)	Appendix A – BLE 1M PHY Appendix B – BLE 2M PHY Appendix C – BLE Coded PHY, S=2 Appendix D – BLE Coded PHY, S=8	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – BLE 1M PHY Appendix B – BLE 2M PHY Appendix C – BLE Coded PHY, S=2 Appendix D – BLE Coded PHY, S=8	Pass
Power Spectral Density	15.247 (e)	Appendix A – BLE 1M PHY Appendix B – BLE 2M PHY Appendix C – BLE Coded PHY, S=2 Appendix D – BLE Coded PHY, S=8	Pass
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Appendix A – BLE 1M PHY Appendix B – BLE 2M PHY Appendix C – BLE Coded PHY, S=2 Appendix D – BLE Coded PHY, S=8	Pass
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	See Section 5.4	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	See Section 5.5	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).			
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

5.1.2 Test Limit

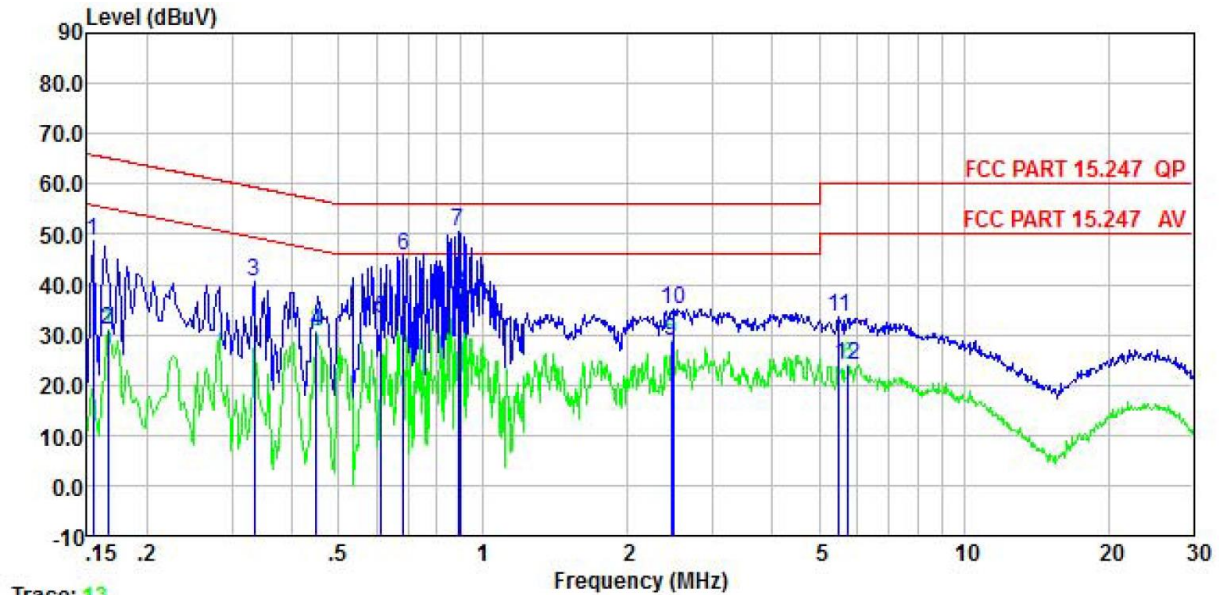
Test items	Limit																														
AC Power Line Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr></table> Note 1: The limit level in dBµV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.	Frequency (MHz)	Limit (dBµV)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 Note 1	56 to 46 Note 1	0.5 – 5	56	46	5 – 30	60	50																
Frequency (MHz)	Limit (dBµV)																														
	Quasi-Peak	Average																													
0.15 – 0.5	66 to 56 Note 1	56 to 46 Note 1																													
0.5 – 5	56	46																													
5 – 30	60	50																													
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.																														
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.																														
99% Occupied Bandwidth	N/A																														
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.																														
Band-edge Emission Conduction Spurious Emission	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).																														
Emissions in Restricted Frequency Bands Emissions in Non-restricted Frequency Bands	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBµV/m)</th><th rowspan="2">Detector</th></tr><tr><th>@ 3m</th><th>@ 10m</th></tr><tr><td>30 – 88</td><td>40.0</td><td>30.0</td><td>Quasi-peak</td></tr><tr><td>88 – 216</td><td>43.5</td><td>33.5</td><td>Quasi-peak</td></tr><tr><td>216 – 960</td><td>46.0</td><td>36.0</td><td>Quasi-peak</td></tr><tr><td>960 – 1000</td><td>54.0</td><td>44.0</td><td>Quasi-peak</td></tr></table> Note: The more stringent limit applies at transition frequencies. <table><tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBµV/m) @ 3m</th></tr><tr><th>Average</th><th>Peake</th></tr><tr><td>Above 1 GHz</td><td>54.0</td><td>74.0</td></tr></table> Note: The measurement bandwidth shall be 1 MHz or greater.	Frequency (MHz)	Limit (dBµV/m)		Detector	@ 3m	@ 10m	30 – 88	40.0	30.0	Quasi-peak	88 – 216	43.5	33.5	Quasi-peak	216 – 960	46.0	36.0	Quasi-peak	960 – 1000	54.0	44.0	Quasi-peak	Frequency	Limit (dBµV/m) @ 3m		Average	Peake	Above 1 GHz	54.0	74.0
Frequency (MHz)	Limit (dBµV/m)		Detector																												
	@ 3m	@ 10m																													
30 – 88	40.0	30.0	Quasi-peak																												
88 – 216	43.5	33.5	Quasi-peak																												
216 – 960	46.0	36.0	Quasi-peak																												
960 – 1000	54.0	44.0	Quasi-peak																												
Frequency	Limit (dBµV/m) @ 3m																														
	Average	Peake																													
Above 1 GHz	54.0	74.0																													

5.2 Antenna requirement

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)(4)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
E.U.T Antenna:	
The BLE antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 0.81 dBi. See product internal photos for details.	

5.3 AC Power Line Conducted Emission

Product name:	Smart Phone	Product model:	GQ5017
Test by:	Kiran Zeng	Test mode:	BLE Tx (LE 1M PHY)
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

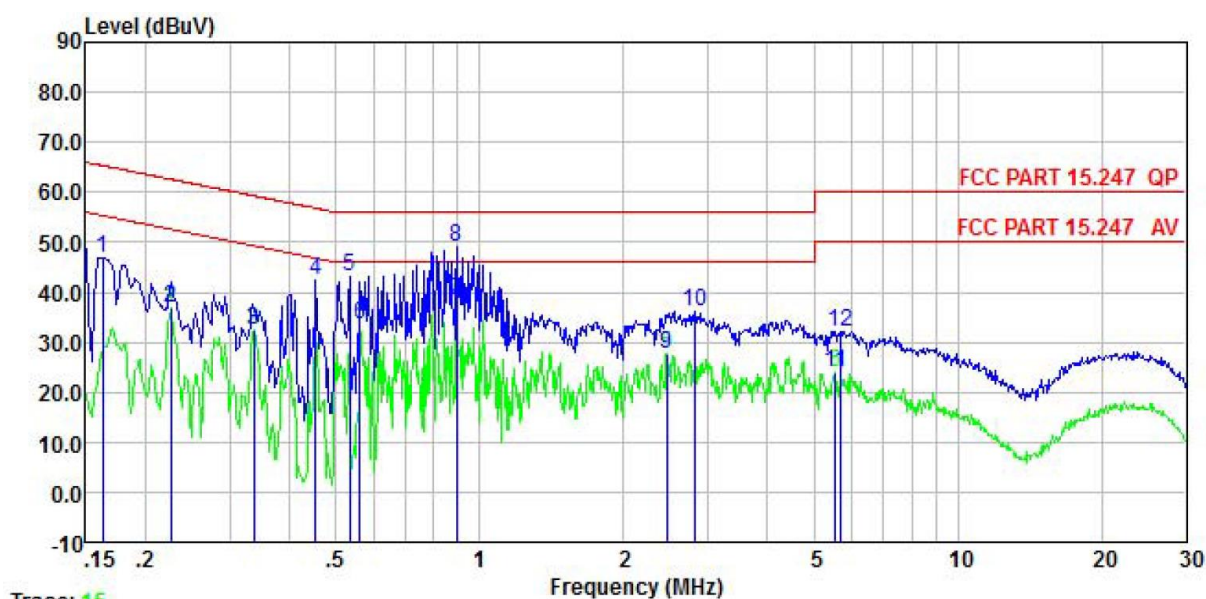


	Read	LISN	Aux	Aux2	Cable		Limit	Over	
Freq	Level	Factor	Factor	Factor	Loss	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	28.57	10.19	0.00	9.88	0.01	48.65	65.78	-17.13 QP
2	0.166	10.95	10.17	0.00	9.88	0.01	31.01	55.16	-24.15 Average
3	0.334	20.40	10.10	0.00	9.88	0.02	40.40	59.35	-18.95 QP
4	0.449	10.43	10.13	0.00	9.88	0.03	30.47	46.89	-16.42 Average
5	0.614	13.21	10.19	0.00	9.88	0.02	33.30	46.00	-12.70 Average
6	0.683	25.48	10.15	0.00	9.88	0.03	45.54	56.00	-10.46 QP
7	0.885	30.52	10.15	0.00	9.88	0.04	50.59	56.00	-5.41 QP
8	0.894	18.35	10.15	0.00	9.88	0.04	38.42	46.00	-7.58 Average
9	2.461	8.55	10.20	0.00	9.88	0.14	28.77	46.00	-17.23 Average
10	2.487	14.88	10.21	0.00	9.88	0.13	35.10	56.00	-20.90 QP
11	5.505	13.27	10.33	0.00	9.90	0.09	33.59	60.00	-26.41 QP
12	5.744	3.79	10.34	0.00	9.90	0.09	24.12	50.00	-25.88 Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Smart Phone	Product model:	GQ5017
Test by:	Kiran Zeng	Test mode:	BLE Tx (LE 1M PHY)
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



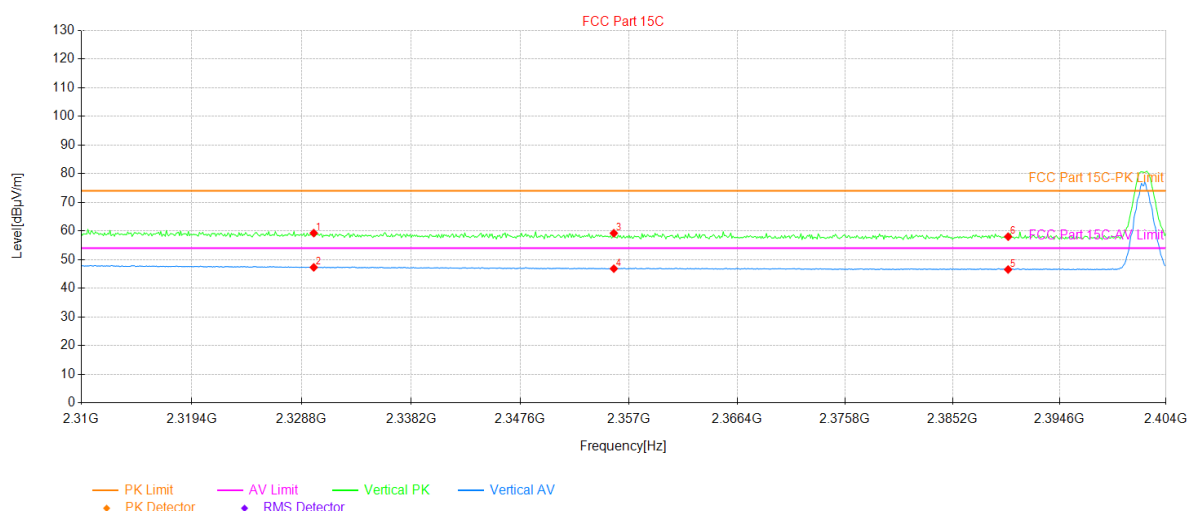
	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.162	26.72	10.20	0.00	9.88	0.01	46.81	65.34	-18.53	QP
2	0.226	16.62	10.18	0.00	9.88	0.02	36.70	52.61	-15.91	Average
3	0.337	12.55	10.12	0.00	9.88	0.02	32.57	49.27	-16.70	Average
4	0.454	22.19	10.16	0.00	9.88	0.03	42.26	56.80	-14.54	QP
5	0.535	23.17	10.24	0.00	9.88	0.03	43.32	56.00	-12.68	QP
6	0.561	13.21	10.26	0.00	9.88	0.02	33.37	46.00	-12.63	Average
7	0.894	18.18	10.25	0.00	9.88	0.04	38.35	46.00	-7.65	Average
8	0.894	28.80	10.25	0.00	9.88	0.04	48.97	56.00	-7.03	QP
9	2.461	7.31	10.25	0.00	9.88	0.14	27.58	46.00	-18.42	Average
10	2.809	16.04	10.22	0.00	9.88	0.09	36.23	56.00	-19.77	QP
11	5.535	3.82	10.23	0.00	9.90	0.09	24.04	50.00	-25.96	Average
12	5.683	11.99	10.24	0.00	9.90	0.09	32.22	60.00	-27.78	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

5.4 Emissions in Restricted Frequency Bands

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



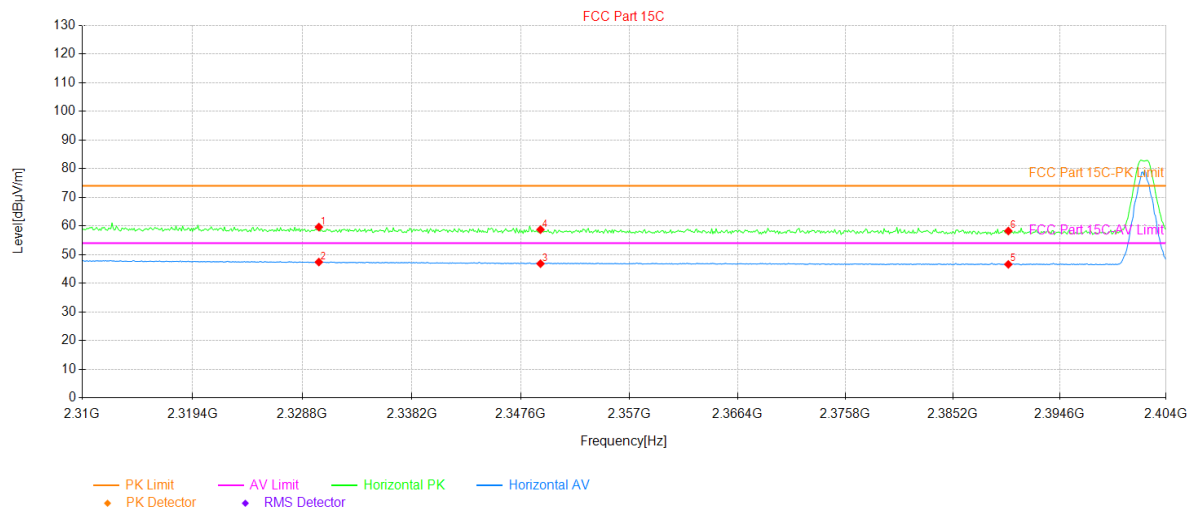
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2329.83	22.99	36.23	59.22	74.00	14.78	300	PK	PASS	Vertical
2	2329.83	11.04	36.23	47.27	54.00	6.73	277	AV	PASS	Vertical
3	2355.68	23.22	35.97	59.19	74.00	14.81	140	PK	PASS	Vertical
4	2355.68	10.85	35.97	46.82	54.00	7.18	229	AV	PASS	Vertical
5	2390.09	10.60	35.93	46.53	54.00	7.47	315	AV	PASS	Vertical
6	2390.09	22.05	35.93	57.98	74.00	16.02	5	PK	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



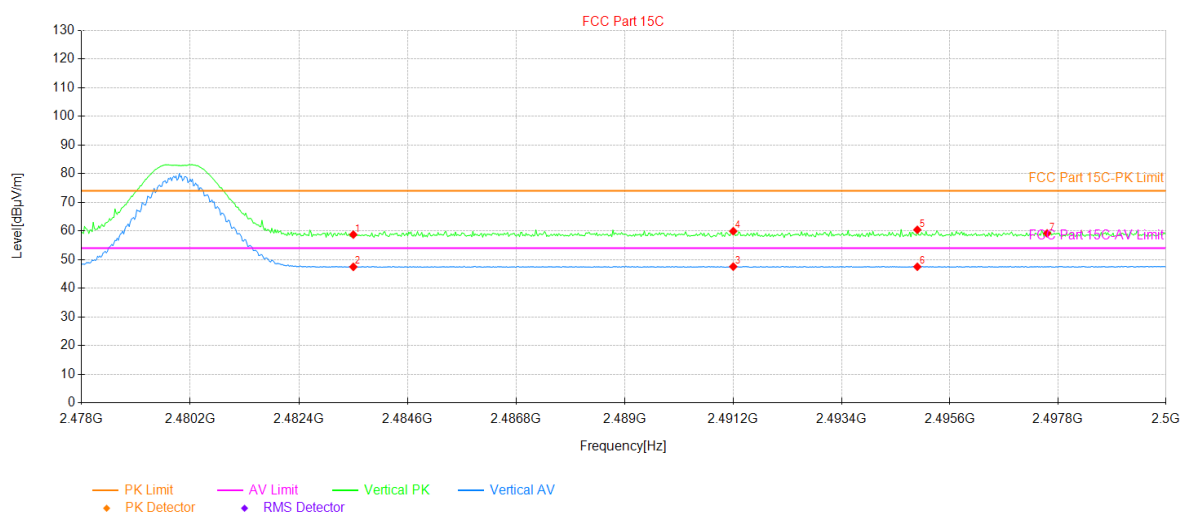
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2330.21	23.36	36.23	59.59	74.00	14.41	26	PK	PASS	Horizontal
2	2330.21	11.15	36.23	47.38	54.00	6.62	90	AV	PASS	Horizontal
3	2349.29	10.84	35.98	46.82	54.00	7.18	94	AV	PASS	Horizontal
4	2349.29	22.71	35.98	58.69	74.00	15.31	90	PK	PASS	Horizontal
5	2390.09	10.64	35.93	46.57	54.00	7.43	238	AV	PASS	Horizontal
6	2390.09	22.27	35.93	58.20	74.00	15.80	204	PK	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



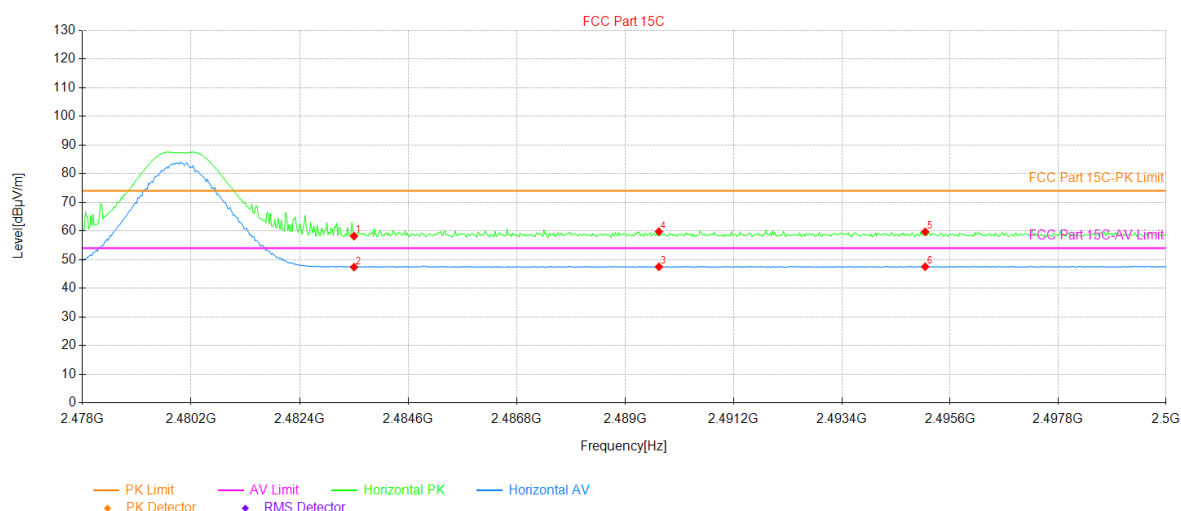
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.96	36.74	58.70	74.00	15.30	315	PK	PASS	Vertical
2	2483.50	10.71	36.74	47.45	54.00	6.55	8	AV	PASS	Vertical
3	2491.20	10.78	36.76	47.54	54.00	6.46	240	AV	PASS	Vertical
4	2491.20	23.12	36.76	59.88	74.00	14.12	214	PK	PASS	Vertical
5	2494.94	23.61	36.77	60.38	74.00	13.62	308	PK	PASS	Vertical
6	2494.94	10.71	36.77	47.48	54.00	6.52	304	AV	PASS	Vertical
7	2497.58	22.36	36.77	59.13	74.00	14.87	124	PK	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		

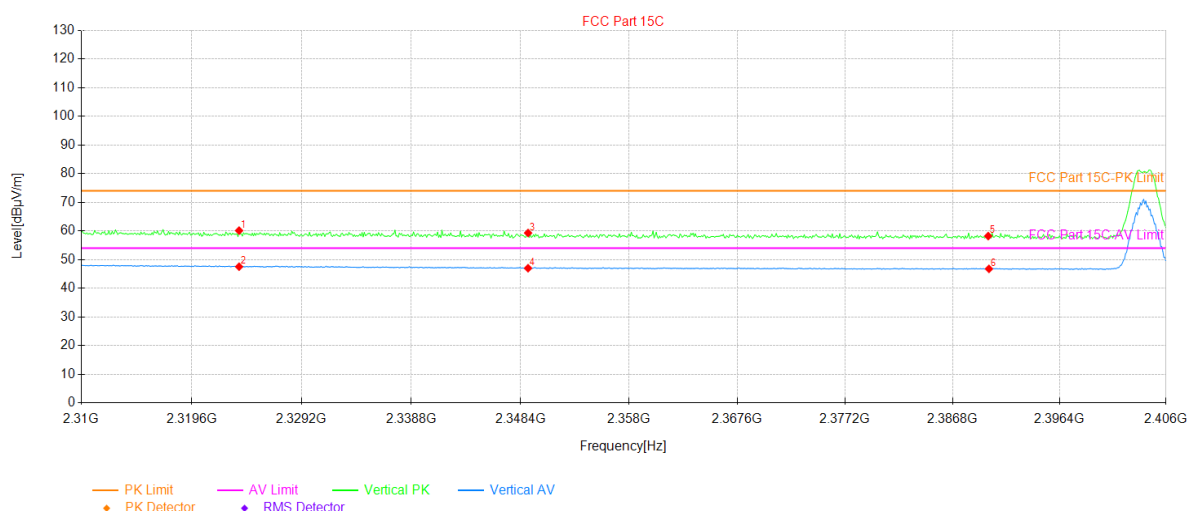


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.43	36.74	58.17	74.00	15.83	341	PK	PASS	Horizontal
2	2483.50	10.62	36.74	47.36	54.00	6.64	146	AV	PASS	Horizontal
3	2489.68	10.72	36.75	47.47	54.00	6.53	75	AV	PASS	Horizontal
4	2489.68	22.98	36.75	59.73	74.00	14.27	318	PK	PASS	Horizontal
5	2495.09	22.89	36.77	59.66	74.00	14.34	150	PK	PASS	Horizontal
6	2495.09	10.72	36.77	47.49	54.00	6.51	255	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



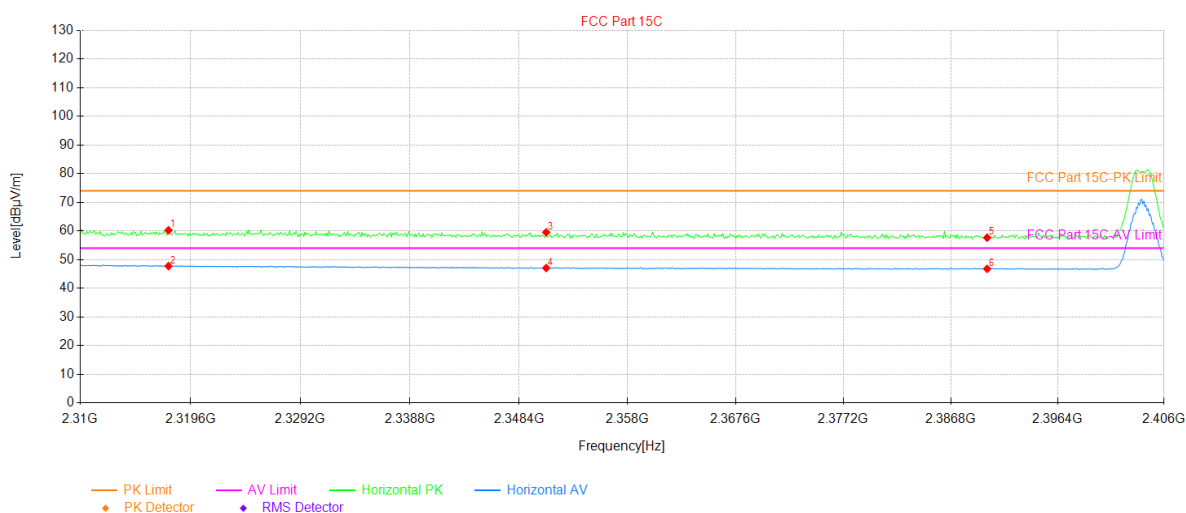
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2323.73	23.76	36.34	60.10	74.00	13.90	122	PK	PASS	Vertical
2	2323.73	11.16	36.34	47.50	54.00	6.50	19	AV	PASS	Vertical
3	2349.07	23.29	35.98	59.27	74.00	14.73	342	PK	PASS	Vertical
4	2349.07	11.00	35.98	46.98	54.00	7.02	110	AV	PASS	Vertical
5	2390.00	22.26	35.93	58.19	74.00	15.81	96	PK	PASS	Vertical
6	2390.06	10.82	35.93	46.75	54.00	7.25	315	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		

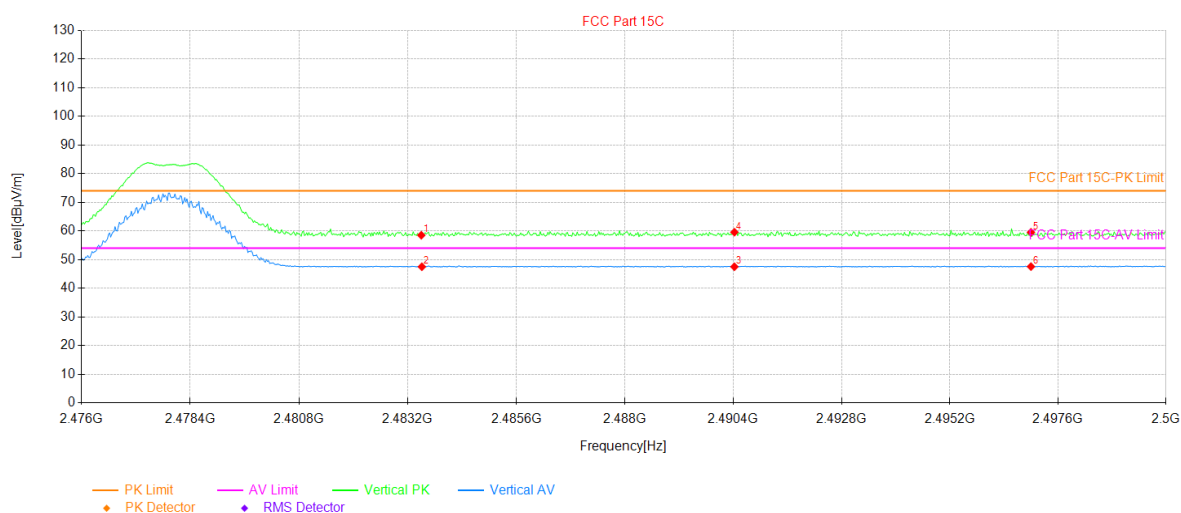


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2317.68	23.75	36.45	60.20	74.00	13.80	224	PK	PASS	Horizontal
2	2317.68	11.26	36.45	47.71	54.00	6.29	87	AV	PASS	Horizontal
3	2350.80	23.52	35.97	59.49	74.00	14.51	34	PK	PASS	Horizontal
4	2350.80	11.08	35.97	47.05	54.00	6.95	291	AV	PASS	Horizontal
5	2390.06	21.70	35.93	57.63	74.00	16.37	303	PK	PASS	Horizontal
6	2390.06	10.83	35.93	46.76	54.00	7.24	341	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



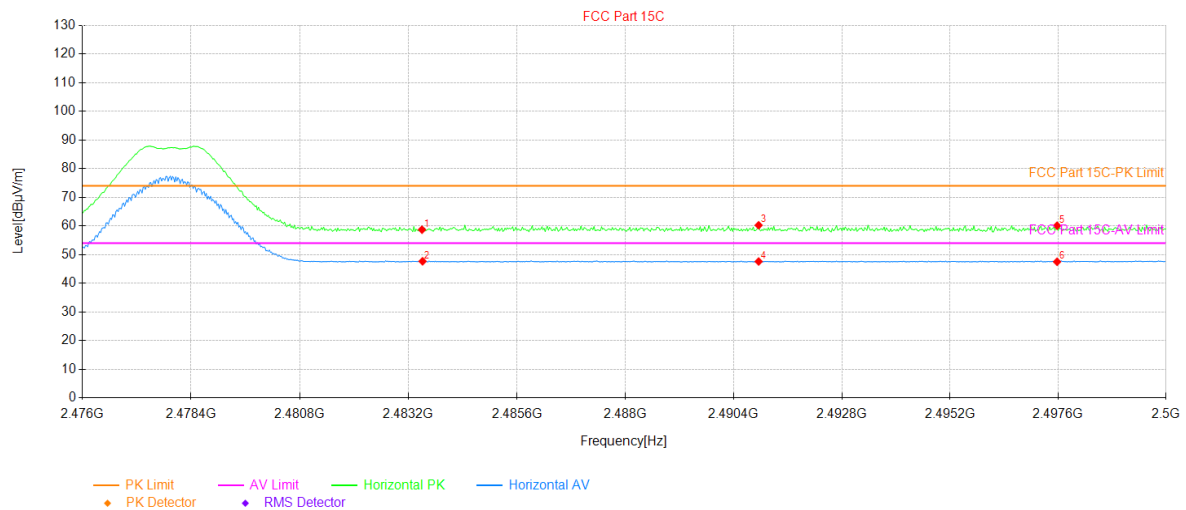
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.74	36.74	58.48	74.00	15.52	270	PK	PASS	Vertical
2	2483.51	10.75	36.74	47.49	54.00	6.51	97	AV	PASS	Vertical
3	2490.42	10.73	36.76	47.49	54.00	6.51	250	AV	PASS	Vertical
4	2490.42	22.78	36.76	59.54	74.00	14.46	53	PK	PASS	Vertical
5	2497.00	22.72	36.78	59.50	74.00	14.50	142	PK	PASS	Vertical
6	2497.00	10.76	36.78	47.54	54.00	6.46	210	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		

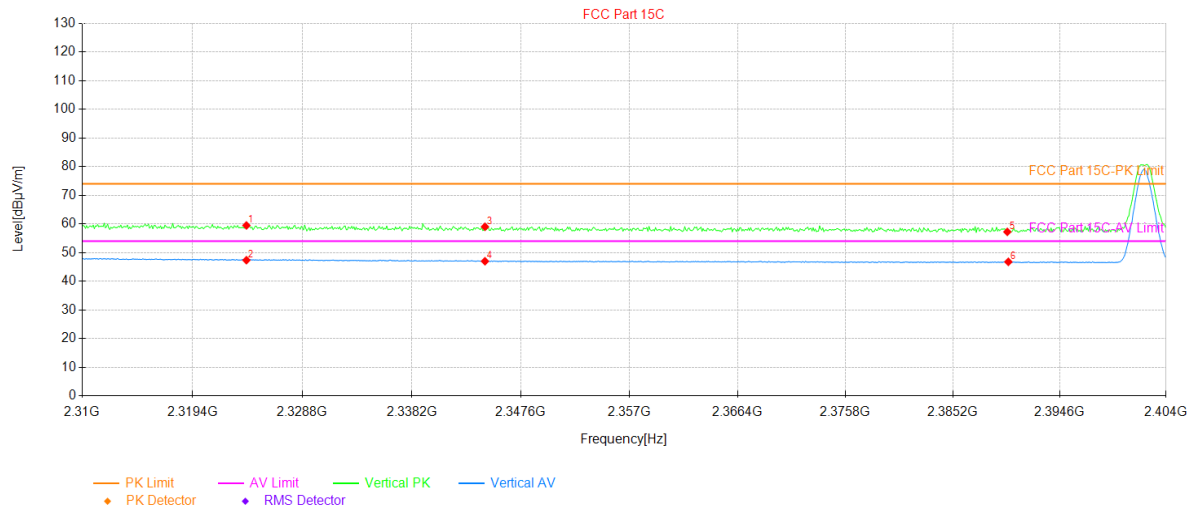


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.93	36.74	58.67	74.00	15.33	360	PK	PASS	Horizontal
2	2483.51	10.91	36.74	47.65	54.00	6.35	360	AV	PASS	Horizontal
3	2490.95	23.45	36.76	60.21	74.00	13.79	289	PK	PASS	Horizontal
4	2490.95	10.81	36.76	47.57	54.00	6.43	308	AV	PASS	Horizontal
5	2497.58	23.28	36.77	60.05	74.00	13.95	30	PK	PASS	Horizontal
6	2497.58	10.72	36.77	47.49	54.00	6.51	178	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		

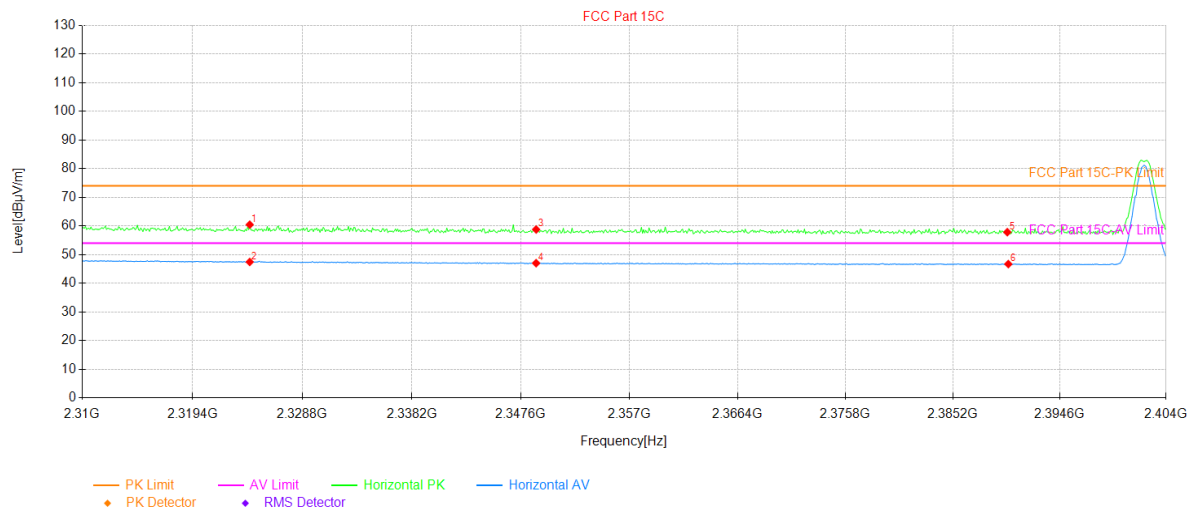


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2324.01	23.11	36.34	59.45	74.00	14.55	207	PK	PASS	Vertical
2	2324.01	11.00	36.34	47.34	54.00	6.66	144	AV	PASS	Vertical
3	2344.50	22.95	36.04	58.99	74.00	15.01	151	PK	PASS	Vertical
4	2344.50	10.93	36.04	46.97	54.00	7.03	265	AV	PASS	Vertical
5	2390.00	21.28	35.93	57.21	74.00	16.79	23	PK	PASS	Vertical
6	2390.09	10.84	35.93	46.77	54.00	7.23	355	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		

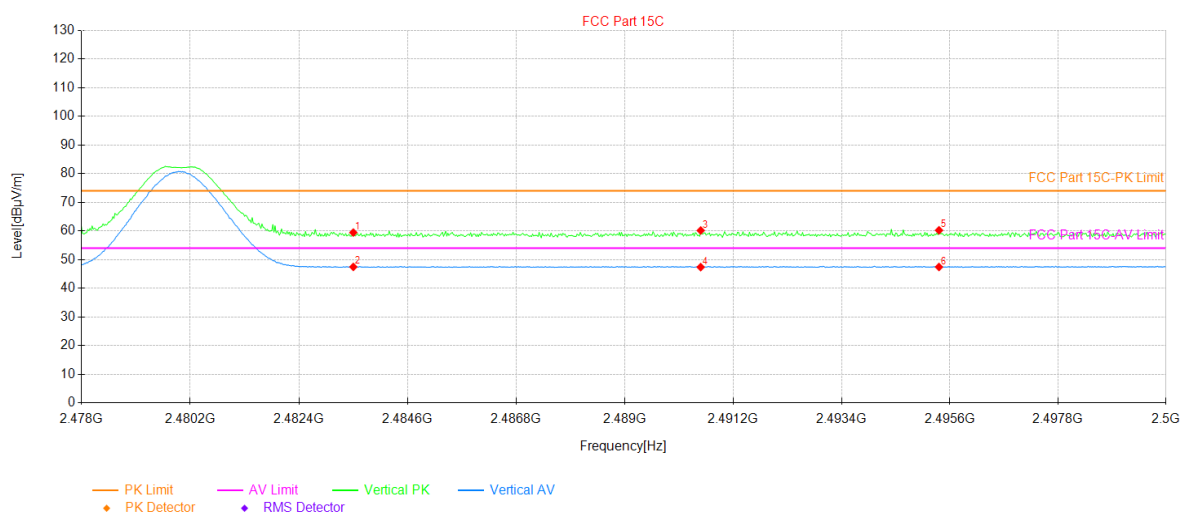


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2324.29	24.09	36.33	60.42	74.00	13.58	128	PK	PASS	Horizontal
2	2324.29	11.09	36.33	47.42	54.00	6.58	12	AV	PASS	Horizontal
3	2348.92	22.75	35.99	58.74	74.00	15.26	316	PK	PASS	Horizontal
4	2348.92	11.01	35.99	47.00	54.00	7.00	200	AV	PASS	Horizontal
5	2390.00	21.88	35.93	57.81	74.00	16.19	64	PK	PASS	Horizontal
6	2390.09	10.75	35.93	46.68	54.00	7.32	353	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



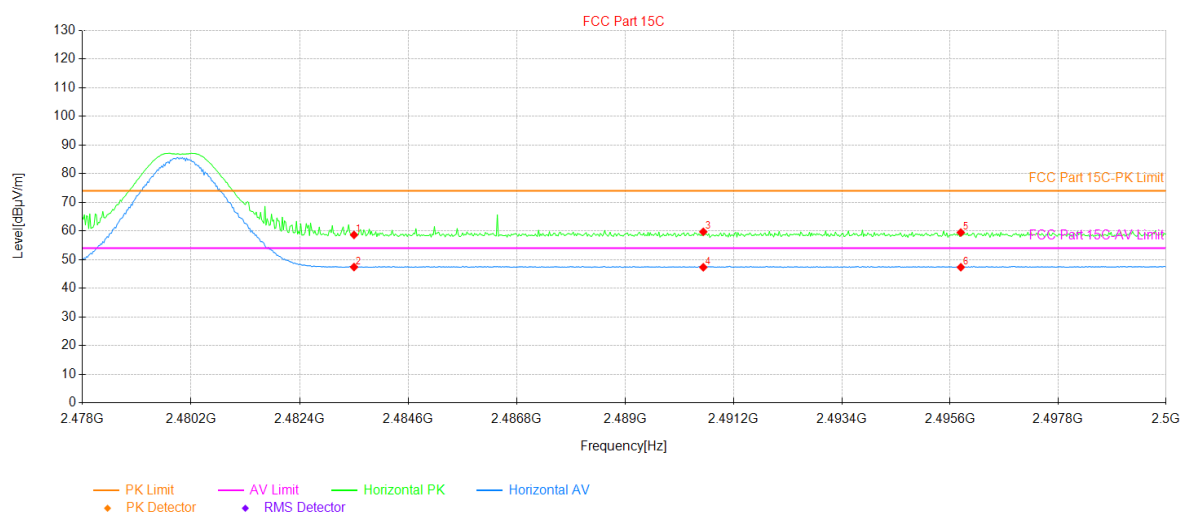
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.69	36.74	59.43	74.00	14.57	16	PK	PASS	Vertical
2	2483.50	10.70	36.74	47.44	54.00	6.56	236	AV	PASS	Vertical
3	2490.54	23.38	36.76	60.14	74.00	13.86	207	PK	PASS	Vertical
4	2490.54	10.60	36.76	47.36	54.00	6.64	214	AV	PASS	Vertical
5	2495.38	23.43	36.77	60.20	74.00	13.80	139	PK	PASS	Vertical
6	2495.38	10.63	36.77	47.40	54.00	6.60	113	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		

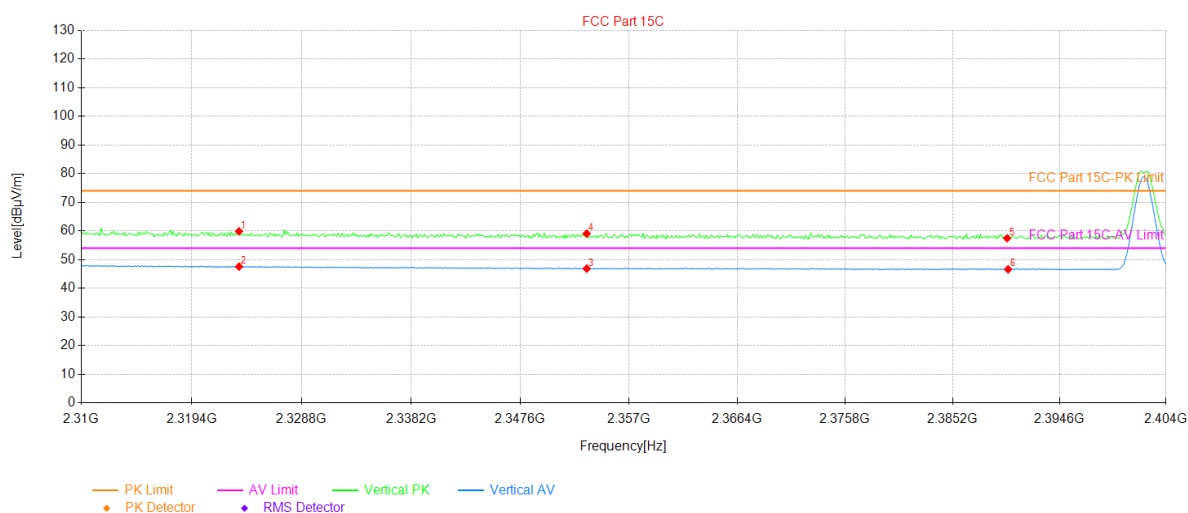


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.85	36.74	58.59	74.00	15.41	247	PK	PASS	Horizontal
2	2483.50	10.64	36.74	47.38	54.00	6.62	213	AV	PASS	Horizontal
3	2490.58	22.92	36.76	59.68	74.00	14.32	202	PK	PASS	Horizontal
4	2490.58	10.55	36.76	47.31	54.00	6.69	57	AV	PASS	Horizontal
5	2495.82	22.65	36.77	59.42	74.00	14.58	308	PK	PASS	Horizontal
6	2495.82	10.55	36.77	47.32	54.00	6.68	57	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



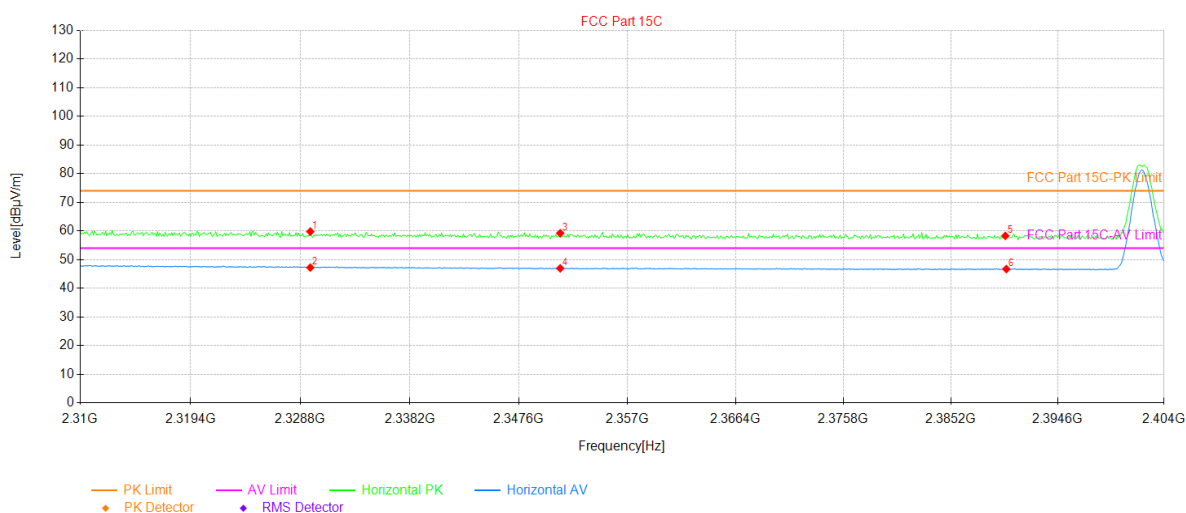
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2323.44	23.49	36.34	59.83	74.00	14.17	30	PK	PASS	Vertical
2	2323.44	11.21	36.34	47.55	54.00	6.45	38	AV	PASS	Vertical
3	2353.33	10.86	35.97	46.83	54.00	7.17	343	AV	PASS	Vertical
4	2353.33	23.08	35.97	59.05	74.00	14.95	30	PK	PASS	Vertical
5	2390.00	21.50	35.93	57.43	74.00	16.57	180	PK	PASS	Vertical
6	2390.09	10.67	35.93	46.60	54.00	7.40	103	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



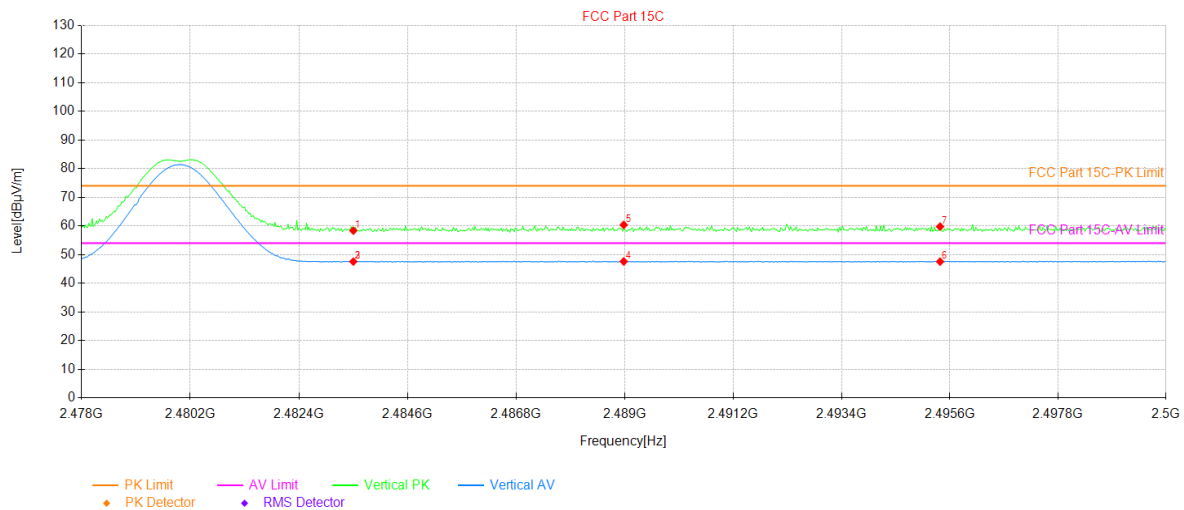
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2329.65	23.50	36.24	59.74	74.00	14.26	274	PK	PASS	Horizontal
2	2329.65	10.96	36.24	47.20	54.00	6.80	328	AV	PASS	Horizontal
3	2351.17	23.21	35.97	59.18	74.00	14.82	192	PK	PASS	Horizontal
4	2351.17	10.96	35.97	46.93	54.00	7.07	15	AV	PASS	Horizontal
5	2390.00	22.34	35.93	58.27	74.00	15.73	42	PK	PASS	Horizontal
6	2390.09	10.75	35.93	46.68	54.00	7.32	312	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



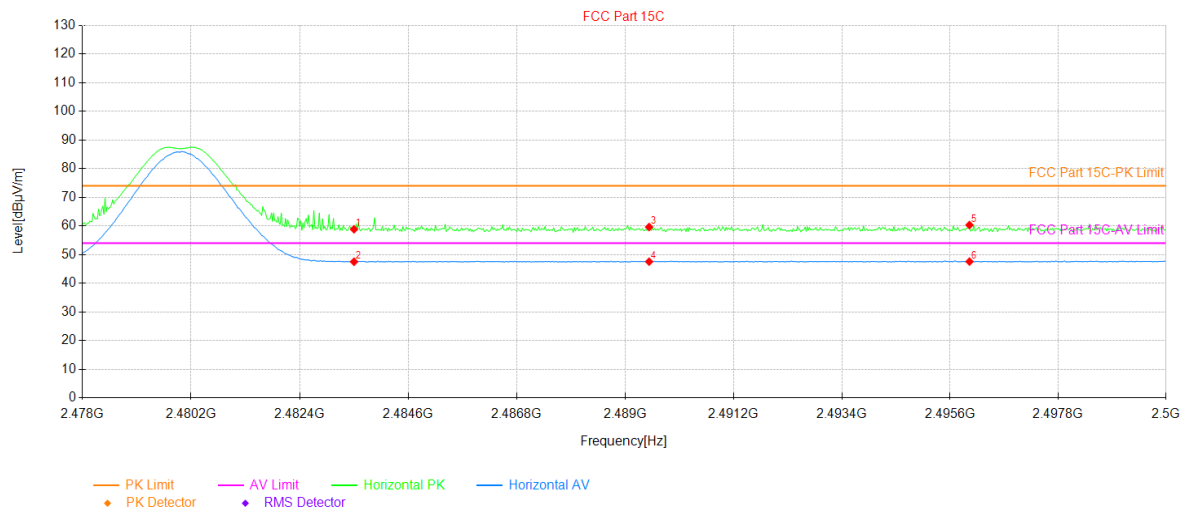
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.60	36.74	58.34	74.00	15.66	285	PK	PASS	Vertical
2	2483.50	10.81	36.74	47.55	54.00	6.45	281	AV	PASS	Vertical
3	2483.50	10.81	36.74	47.55	54.00	6.45	281	AV	PASS	Vertical
4	2488.98	10.84	36.75	47.59	54.00	6.41	192	AV	PASS	Vertical
5	2488.98	23.59	36.75	60.34	74.00	13.66	337	PK	PASS	Vertical
6	2495.40	10.78	36.77	47.55	54.00	6.45	149	AV	PASS	Vertical
7	2495.40	22.98	36.77	59.75	74.00	14.25	107	PK	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Robin Gu	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.08	36.74	58.82	74.00	15.18	161	PK	PASS	Horizontal
2	2483.50	10.74	36.74	47.48	54.00	6.52	349	AV	PASS	Horizontal
3	2489.48	22.85	36.75	59.60	74.00	14.40	116	PK	PASS	Horizontal
4	2489.48	10.78	36.75	47.53	54.00	6.47	83	AV	PASS	Horizontal
5	2496.00	23.52	36.77	60.29	74.00	13.71	113	PK	PASS	Horizontal
6	2496.00	10.78	36.77	47.55	54.00	6.45	19	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

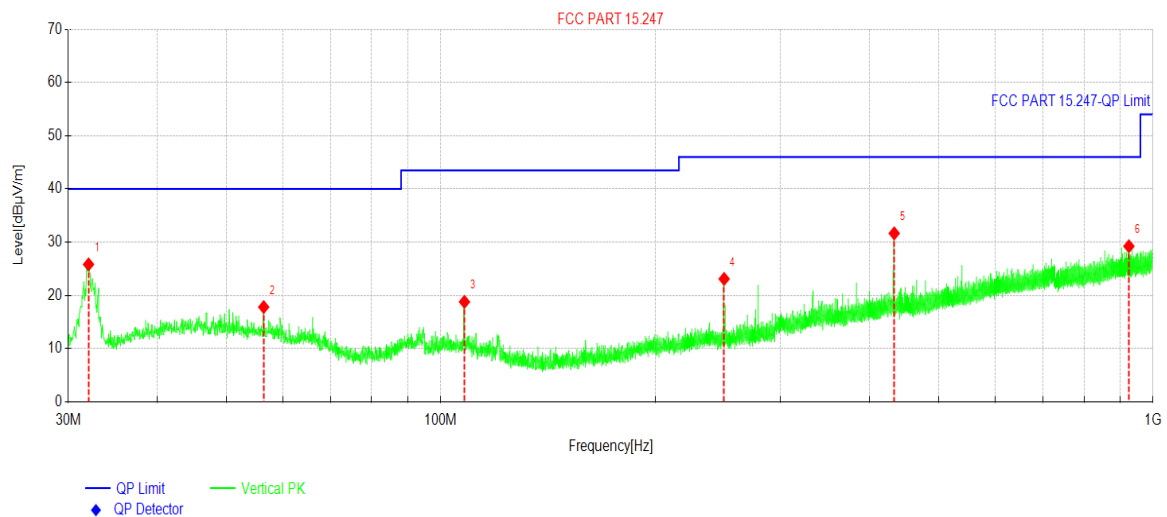
5.5 Emissions in Non-restricted Frequency Bands

Below 30MHz:

Test Frequency from 9kHz to 30MHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Below 1GHz:

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Kiran Zeng	Test mode:	BLE Tx (LE 1M PHY)
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3.87V		



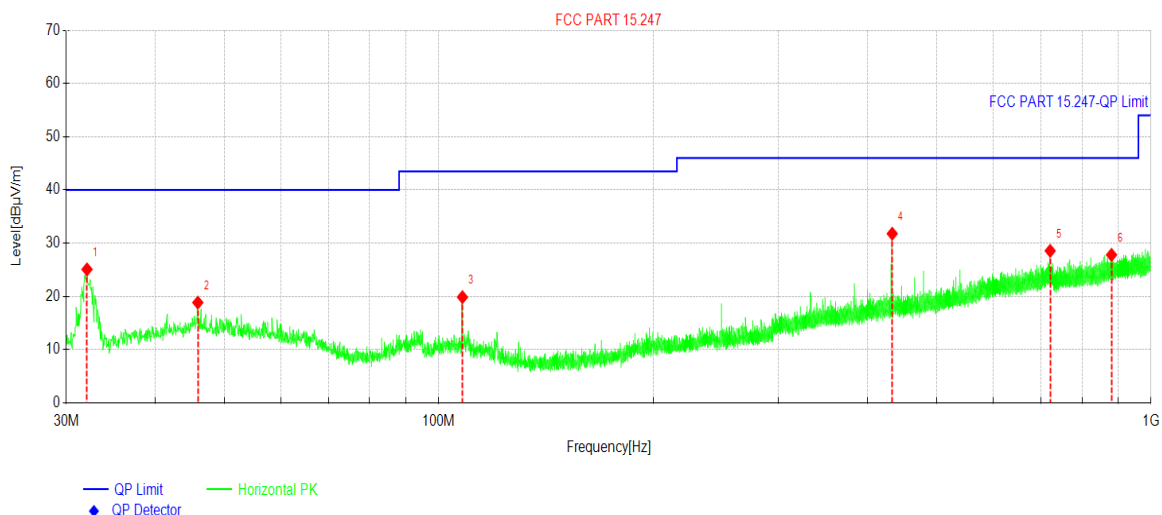
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	32.0371	41.47	-15.64	25.83	40.00	14.17	PK	Vertical
2	56.4338	31.11	-13.30	17.81	40.00	22.19	PK	Vertical
3	107.9919	33.01	-14.22	18.79	43.50	24.71	PK	Vertical
4	250.0070	36.69	-13.59	23.10	46.00	22.90	PK	Vertical
5	433.2492	41.49	-9.83	31.66	46.00	14.34	PK	Vertical
6	925.0638	31.35	-2.12	29.23	46.00	16.77	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Smart Phone	Product Model:	GQ5017
Test By:	Kiran Zeng	Test mode:	BLE Tx (LE 1M PHY)
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	32.0856	40.71	-15.63	25.08	40.00	14.92	PK	Horizontal
2	45.9088	31.27	-12.43	18.84	40.00	21.16	PK	Horizontal
3	107.9919	34.09	-14.22	19.87	43.50	23.63	PK	Horizontal
4	433.2492	41.61	-9.83	31.78	46.00	14.22	PK	Horizontal
5	721.8871	33.32	-4.76	28.56	46.00	17.44	PK	Horizontal
6	880.2475	30.45	-2.65	27.80	46.00	18.20	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

BLE Tx (LE 1M PHY)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	49.23	-7.98	41.25	74.00	32.75	Vertical
4804.00	48.56	-7.98	40.58	74.00	33.42	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	39.48	-7.98	31.50	54.00	22.50	Vertical
4804.00	38.88	-7.98	30.90	54.00	23.10	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	48.84	-7.46	41.38	74.00	32.62	Vertical
4884.00	48.09	-7.46	40.63	74.00	33.37	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	39.80	-7.46	32.34	54.00	21.66	Vertical
4884.00	39.26	-7.46	31.80	54.00	22.20	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	48.55	-7.00	41.55	74.00	32.45	Vertical
4960.00	47.62	-7.00	40.62	74.00	33.38	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	39.61	-7.00	32.61	54.00	21.39	Vertical
4960.00	39.27	-7.00	32.27	54.00	21.73	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

BLE Tx (LE 2M PHY)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	48.92	-7.98	40.94	74.00	33.06	Vertical
4804.00	48.51	-7.98	40.53	74.00	33.47	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	39.20	-7.98	31.22	54.00	22.78	Vertical
4804.00	38.60	-7.98	30.62	54.00	23.38	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	48.39	-7.46	40.93	74.00	33.07	Vertical
4884.00	47.81	-7.46	40.35	74.00	33.65	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	40.04	-7.46	32.58	54.00	21.42	Vertical
4884.00	38.77	-7.46	31.31	54.00	22.69	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	48.11	-7.00	41.11	74.00	32.89	Vertical
4960.00	47.77	-7.00	40.77	74.00	33.23	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	39.65	-7.00	32.65	54.00	21.35	Vertical
4960.00	39.51	-7.00	32.51	54.00	21.49	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

BEL Tx (LE Coded PHY, S=2)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	48.86	-7.98	40.88	74.00	33.12	Vertical
4804.00	48.88	-7.98	40.90	74.00	33.10	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	39.53	-7.98	31.55	54.00	22.45	Vertical
4804.00	39.08	-7.98	31.10	54.00	22.90	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	48.22	-7.46	40.76	74.00	33.24	Vertical
4884.00	47.58	-7.46	40.12	74.00	33.88	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	39.74	-7.46	32.28	54.00	21.72	Vertical
4884.00	38.81	-7.46	31.35	54.00	22.65	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	48.34	-7.00	41.34	74.00	32.66	Vertical
4960.00	47.84	-7.00	40.84	74.00	33.16	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	39.18	-7.00	32.18	54.00	21.82	Vertical
4960.00	39.39	-7.00	32.39	54.00	21.61	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

BEL Tx (LE Coded PHY, S=8)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	48.64	-7.98	40.66	74.00	33.34	Vertical
4804.00	48.51	-7.98	40.53	74.00	33.47	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	38.89	-7.98	30.91	54.00	23.09	Vertical
4804.00	38.45	-7.98	30.47	54.00	23.53	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	48.18	-7.46	40.72	74.00	33.28	Vertical
4884.00	47.79	-7.46	40.33	74.00	33.67	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	39.74	-7.46	32.28	54.00	21.72	Vertical
4884.00	38.31	-7.46	30.85	54.00	23.15	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	47.75	-7.00	40.75	74.00	33.25	Vertical
4960.00	47.76	-7.00	40.76	74.00	33.24	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	39.17	-7.00	32.17	54.00	21.83	Vertical
4960.00	39.27	-7.00	32.27	54.00	21.73	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

-----End of report-----