

FCC RF Test Report

(Bluetooth)

Report No.: JYTSZ-R12-2401038

Applicant: SKY PHONE LLC

Address of Applicant: 1348 Washington Av. Suite 350, Miami Beach, FL33139

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: SKY 65Pro

Trade Mark: SKY DEVICES

FCC ID: 2ABOSSKY65PRO

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

Date of Sample Receipt: 26 Aug., 2024

Date of Test: 27 Aug., to 06 Sep., 2024

Date of Report Issued: 09 Sep., 2024

Test Result: PASS

Project by: _____

Date: 09 Sep., 2024

Reviewed by: _____

Date: 09 Sep., 2024

Approved by: _____

Date: 09 Sep., 2024

Manager

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	09 Sep., 2024	Original

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3 General Information

3.1 Client Information

Applicant:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139
Manufacturer:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139

3.2 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	SKY 65Pro
Operation Frequency:	2402 MHz - 2480 MHz
Transfer Rate:	1/2/3 Mbits/s
Number of Channel:	79
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology:	FHSS
Antenna Type:	Internal Antenna
Antenna Gain:	0.8dBi (declare by applicant)
Antenna transmit mode:	SISO (1TX, 1RX)
Power Supply:	Rechargeable Li-ion Battery DC3.85V, 4000mAh
AC Adapter:	Model: ZHY-QU050100S Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode and Test Environment

Test Modes:	
Non-hopping mode:	Keep the EUT in continuous transmitting mode.
Hopping mode:	Keep the EUT in hopping mode.
Remark: 1. For AC power line conducted emission and radiated spurious emission, pre-scan GFSK, $\pi/4$ -DQPSK, 8DPSK modulation mode, found GFSK modulation was worse case mode. The report only reflects the test data of worst mode. 2. 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.	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85Vdc, Extreme: Low 3.50Vdc, High 4.40Vdc
Test Engineer:	Logan Li (Conducted measurement) Alan Chen (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)))
Conducted Emission for LISN (9kHz ~ 150kHz)	3.57 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	3.14 dB
Radiated Emission (30MHz ~ 200MHz) (10m SAC)	4.3 dB
Radiated Emission (200MHz ~ 1000MHz) (10m SAC)	4.3 dB
Radiated Emission (1GHz ~ 6GHz) (3m FAR)	4.95 dB
Radiated Emission (6GHz ~ 18GHz) (3m FAR)	5.23 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.32 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 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
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	06-16-2024	06-15-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-28-2023	12-27-2024
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	12-28-2023	12-27-2024
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9020B	WXJ081-1	06-11-2024	06-10-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	08-01-2023	07-31-2024
				07-30-2024	07-29-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	08-01-2023	07-31-2024
				07-30-2024	07-29-2025
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	08-01-2023	07-31-2024
				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		

Radiated Emission(10m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2026
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	01-05-2024	01-04-2025
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	12-28-2023	12-27-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-3	12-27-2023	12-26-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-4	12-27-2023	12-26-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-6	12-27-2023	12-26-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-7	12-27-2023	12-26-2024
Cable	Bost	JYT10M-1G-NN-10M	WXG002-7	01-17-2024	01-16-2025
Cable	Bost	JYT10M-1G-NN-10M	WXG002-8	01-17-2024	01-16-2025
Test Software	R&S	EMC32	Version: 10.50.40		

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	12-27-2023	12-26-2024
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-27-2023	12-26-2024
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-17-2024	01-16-2025
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	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	11-01-2023	10-31-2024
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	01-09-2023	01-08-2025
Power Detector Box	MWRFTTEST	MW100-PSB	WXJ007-4	09-25-2023	09-24-2024
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

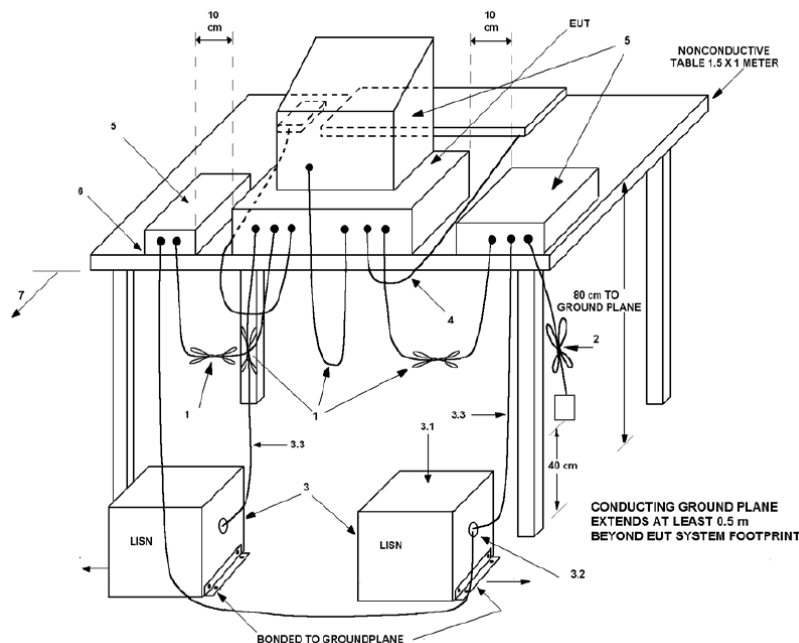
4.1 Test Channel

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	39	2441	78	2480

4.2 Test Setup

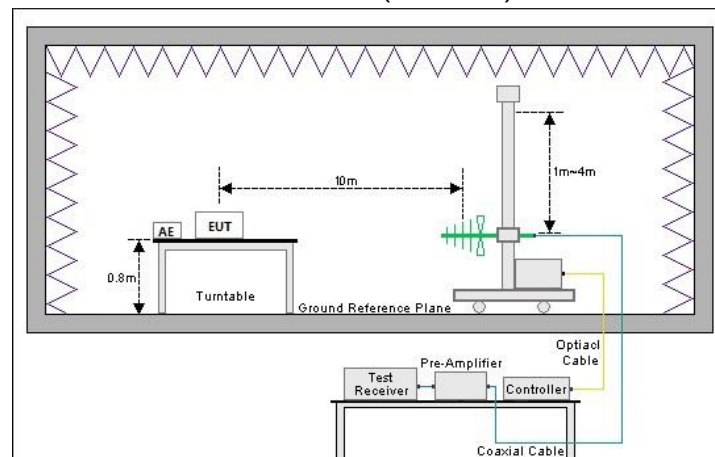
1) Conducted emission measurement:



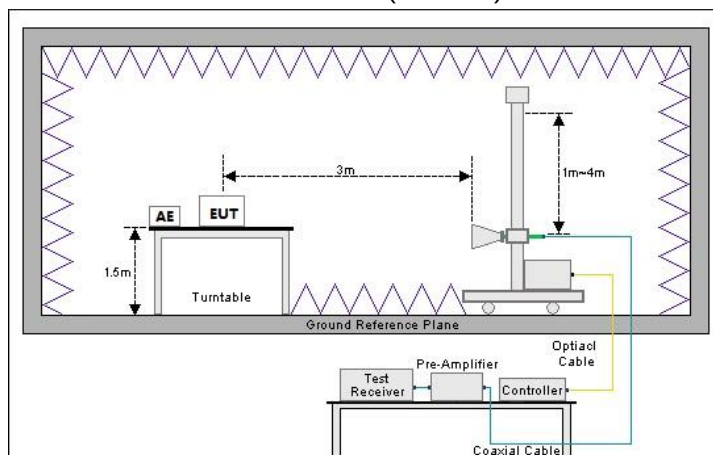
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

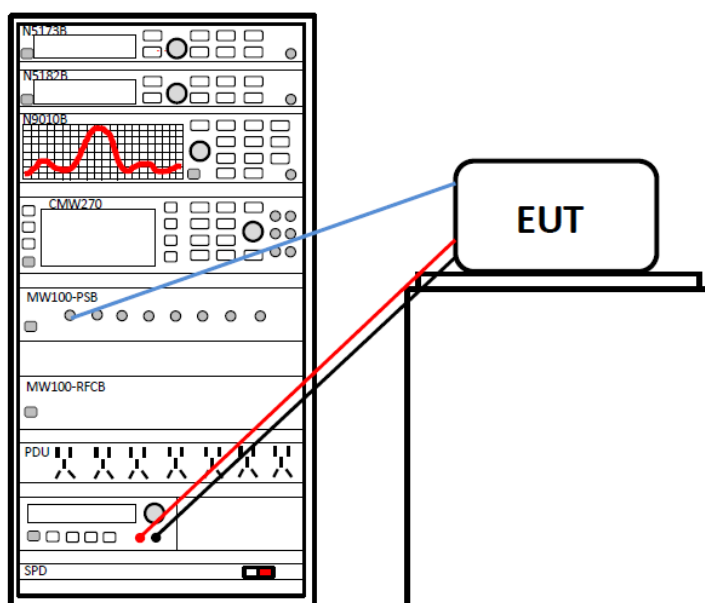
Below 1GHz (10m SAC)



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 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 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 Bluetooth 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.

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)(1)	Appendix – BT	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Appendix – BT	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Appendix – BT	Pass
Hopping Channel Number	5.247 (a)(1)(iii)	Appendix – BT	Pass
Dwell Time	15.247 (a)(1)(iii)	Appendix – BT	Pass
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Appendix – BT	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

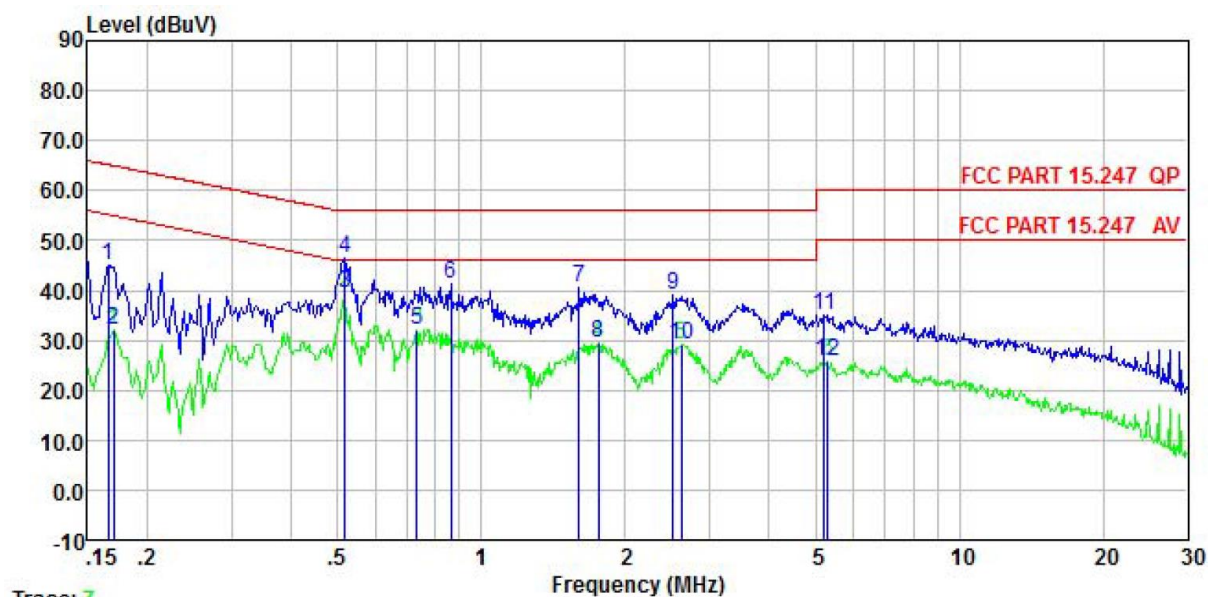
Test items	Limit																																								
AC Power Line Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr><tr><td colspan="3">Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.</td></tr></table>	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	Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.																									
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5 – 30	60	50																																							
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Conducted Output Power	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.																																								
20dB Occupied Bandwidth	Within authorization band																																								
Carrier Frequencies Separation	a) 0.025MHz or the 20dB bandwidth (whichever is greater). b) 0.025MHz or two-thirds of the 20dB bandwidth (whichever is greater).																																								
Hopping Channel Number	At least 15 channels.																																								
Dwell Time	Not be greater than 0.4 seconds.																																								
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><tr><td colspan="4">Note: The more stringent limit applies at transition frequencies.</td></tr><tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBμV/m) @ 3m</th><th rowspan="2">Peake</th></tr><tr><th colspan="2">Average</th></tr><tr><td>Above 1 GHz</td><td colspan="2">54.0</td><td>74.0</td></tr><tr><td colspan="4">Note: The measurement bandwidth shall be 1 MHz or greater.</td></tr></table>	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	Note: The more stringent limit applies at transition frequencies.				Frequency	Limit (dBμV/m) @ 3m		Peake	Average		Above 1 GHz	54.0		74.0	Note: The measurement bandwidth shall be 1 MHz or greater.			
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5.2 Antenna Requirement

Standard requirement:	FCC Part 15 C Section 15.203 & 247(b)
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 Bluetooth antenna is an Internal antenna which permanently attached, and the best case gain of the antenna is 0.8 dBi. See product internal photos for details.	

5.3 AC Power Line Conducted Emission

Product name:	Smart Phone	Product model:	SKY 65Pro
Test by:	Kiran Zeng	Test mode:	BT Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



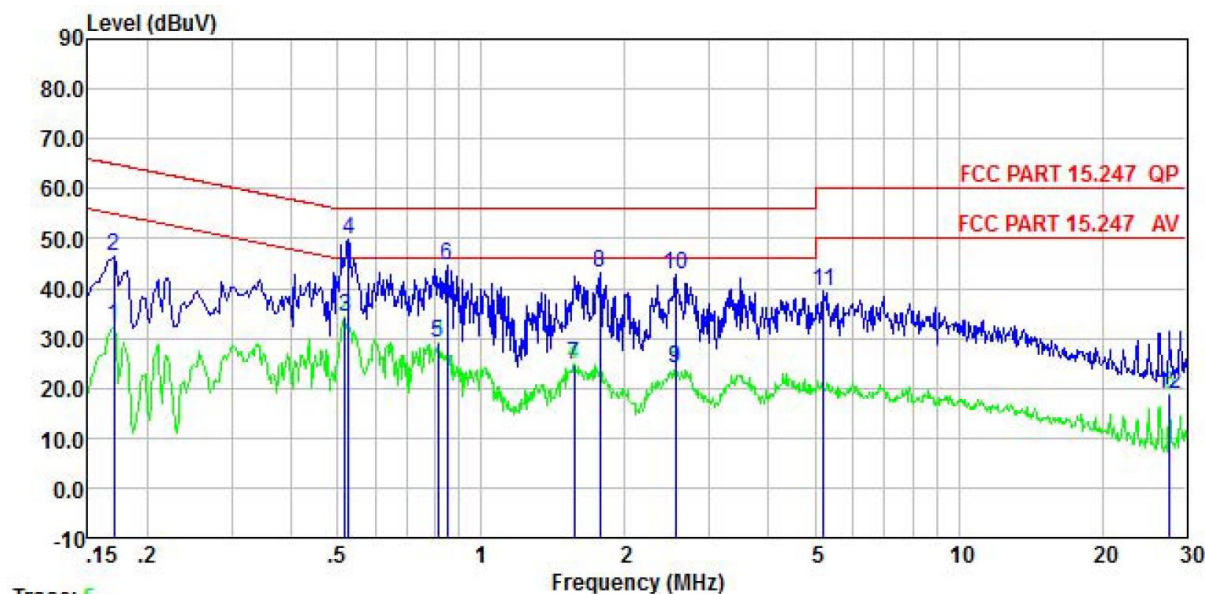
Trace: 7

	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	0.166	34.85	0.20	0.00	9.88	0.01	44.94	65.16	-20.22 QP
2	0.170	21.85	0.20	0.00	9.88	0.01	31.94	54.94	-23.00 Average
3	0.518	29.47	0.20	0.00	9.88	0.03	39.58	46.00	-6.42 Average
4	0.518	36.21	0.20	0.00	9.88	0.03	46.32	56.00	-9.68 QP
5	0.731	22.12	0.20	0.00	9.88	0.03	32.23	46.00	-13.77 Average
6	0.862	30.99	0.20	0.00	9.88	0.04	41.11	56.00	-14.89 QP
7	1.602	30.19	0.20	0.00	9.88	0.16	40.43	56.00	-15.57 QP
8	1.753	19.30	0.20	0.00	9.88	0.18	29.56	46.00	-16.44 Average
9	2.513	28.89	0.20	0.00	9.88	0.13	39.10	56.00	-16.90 QP
10	2.622	19.01	0.20	0.00	9.88	0.11	29.20	46.00	-16.80 Average
11	5.221	24.92	0.20	0.00	9.89	0.09	35.10	60.00	-24.90 QP
12	5.305	15.75	0.20	0.00	9.89	0.09	25.93	50.00	-24.07 Average

Remark:

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

Product name:	Smart Phone	Product model:	SKY 65Pro
Test by:	Kiran Zeng	Test mode:	BT Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



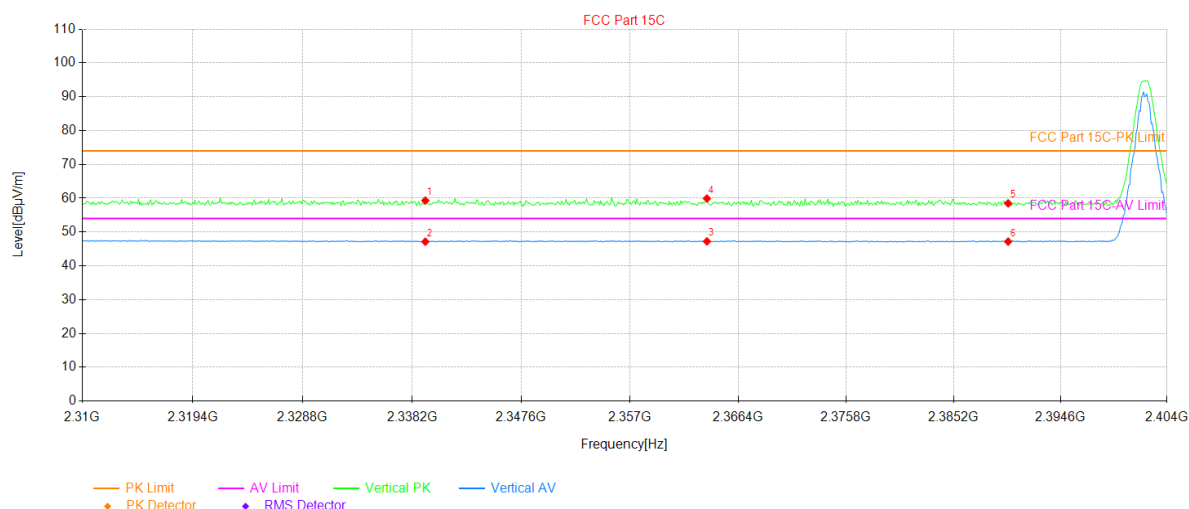
	Read	LISN	Aux	Aux2	Cable	Limit	Over		
Freq	Level	Factor	Factor	Factor	Loss	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.170	22.44	0.20	0.00	9.88	0.01	32.53	54.94	-22.41 Average
2	0.170	36.31	0.20	0.00	9.88	0.01	46.40	64.94	-18.54 QP
3	0.518	24.27	0.20	0.00	9.88	0.03	34.38	46.00	-11.62 Average
4	0.527	39.69	0.20	0.00	9.88	0.03	49.80	56.00	-6.20 QP
5	0.813	19.06	0.20	0.00	9.88	0.03	29.17	46.00	-16.83 Average
6	0.848	34.48	0.20	0.00	9.88	0.04	44.60	56.00	-11.40 QP
7	1.568	14.44	0.26	0.00	9.88	0.15	24.73	46.00	-21.27 Average
8	1.772	32.85	0.28	0.00	9.88	0.18	43.19	56.00	-12.81 QP
9	2.554	13.78	0.30	0.00	9.88	0.13	24.09	46.00	-21.91 Average
10	2.554	32.59	0.30	0.00	9.88	0.13	42.90	56.00	-13.10 QP
11	5.221	29.12	0.30	0.00	9.89	0.09	39.40	60.00	-20.60 QP
12	27.708	8.36	0.40	0.00	10.02	0.19	18.97	50.00	-31.03 Average

Remark:

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

5.4 Emissions in Restricted Frequency Bands

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V		



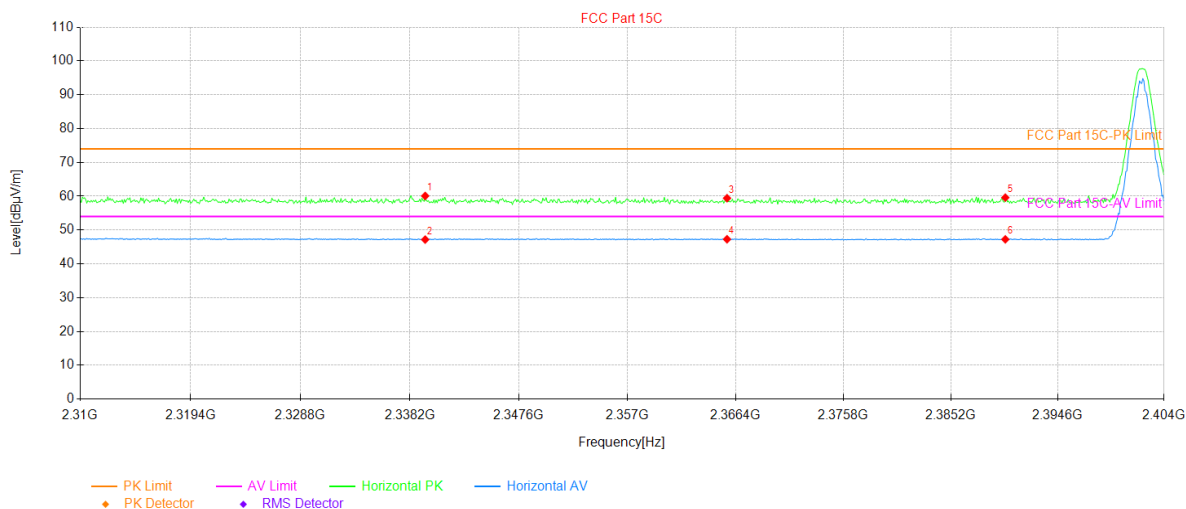
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2339.33	23.11	36.20	59.31	74.00	14.69	19	PK	PASS	Vertical
2	2339.33	10.94	36.20	47.14	54.00	6.86	102	AV	PASS	Vertical
3	2363.67	10.89	36.34	47.23	54.00	6.77	359	AV	PASS	Vertical
4	2363.67	23.57	36.34	59.91	74.00	14.09	357	PK	PASS	Vertical
5	2390.00	22.01	36.47	58.48	74.00	15.52	324	PK	PASS	Vertical
6	2390.00	10.70	36.47	47.17	54.00	6.83	294	AV	PASS	Vertical

Remark:

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

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



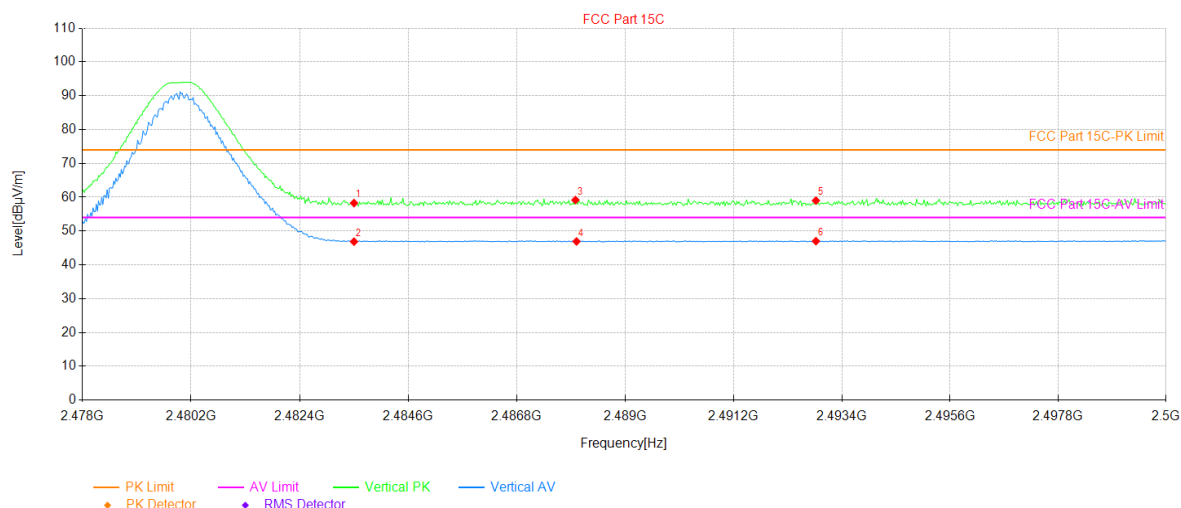
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2339.52	23.88	36.20	60.08	74.00	13.92	175	PK	PASS	Horizontal
2	2339.52	10.98	36.20	47.18	54.00	6.82	329	AV	PASS	Horizontal
3	2365.65	23.07	36.35	59.42	74.00	14.58	179	PK	PASS	Horizontal
4	2365.65	10.92	36.35	47.27	54.00	6.73	175	AV	PASS	Horizontal
5	2390.00	23.12	36.47	59.59	74.00	14.41	209	PK	PASS	Horizontal
6	2390.00	10.77	36.47	47.24	54.00	6.76	352	AV	PASS	Horizontal

Remark:

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

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V		



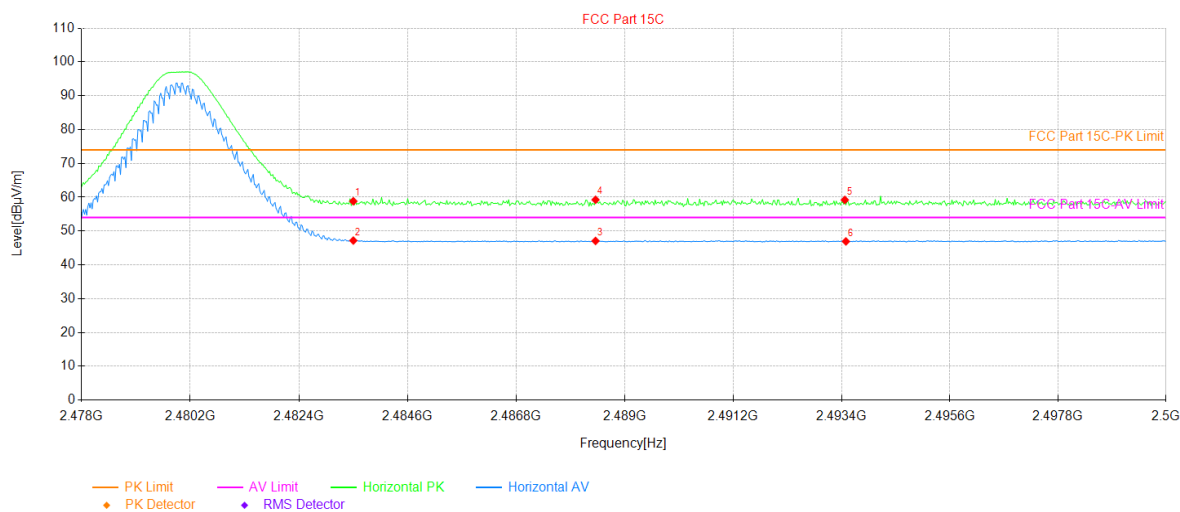
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.16	36.11	58.27	74.00	15.73	311	PK	PASS	Vertical
2	2483.50	10.76	36.11	46.87	54.00	7.13	295	AV	PASS	Vertical
3	2487.99	23.04	36.13	59.17	74.00	14.83	212	PK	PASS	Vertical
4	2488.01	10.80	36.13	46.93	54.00	7.07	36	AV	PASS	Vertical
5	2492.87	22.86	36.15	59.01	74.00	14.99	288	PK	PASS	Vertical
6	2492.87	10.86	36.15	47.01	54.00	6.99	273	AV	PASS	Vertical

Remark:

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

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



Suspected Data List

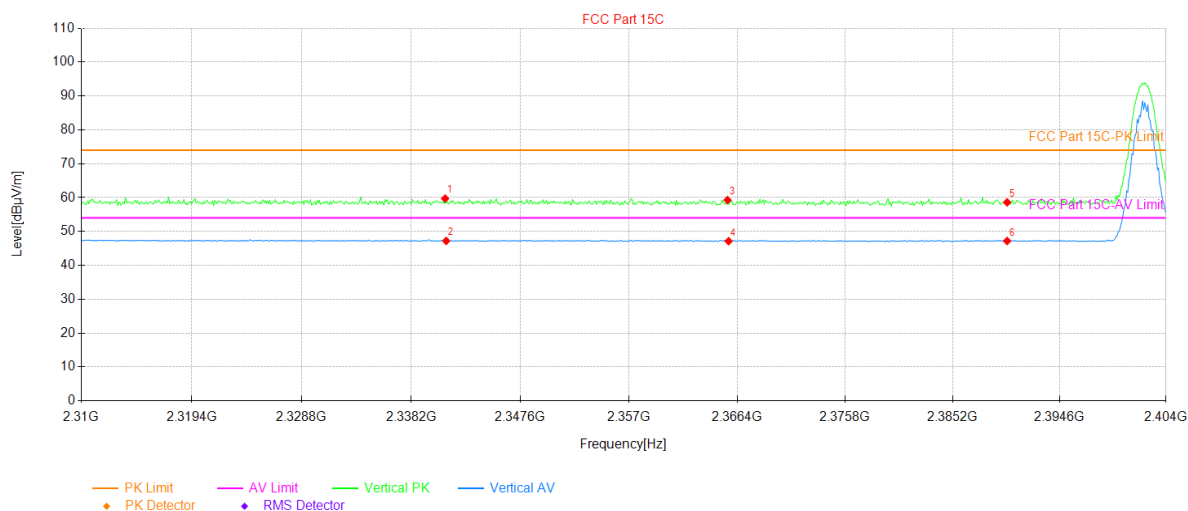
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.70	36.11	58.81	74.00	15.19	357	PK	PASS	Horizontal
2	2483.50	11.08	36.11	47.19	54.00	6.81	203	AV	PASS	Horizontal
3	2488.41	10.95	36.13	47.08	54.00	6.92	169	AV	PASS	Horizontal
4	2488.41	23.11	36.13	59.24	74.00	14.76	146	PK	PASS	Horizontal
5	2493.47	23.05	36.15	59.20	74.00	14.80	98	PK	PASS	Horizontal
6	2493.49	10.78	36.15	46.93	54.00	7.07	60	AV	PASS	Horizontal

Remark:

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

π/4-DQPSK mode

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	2DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V		

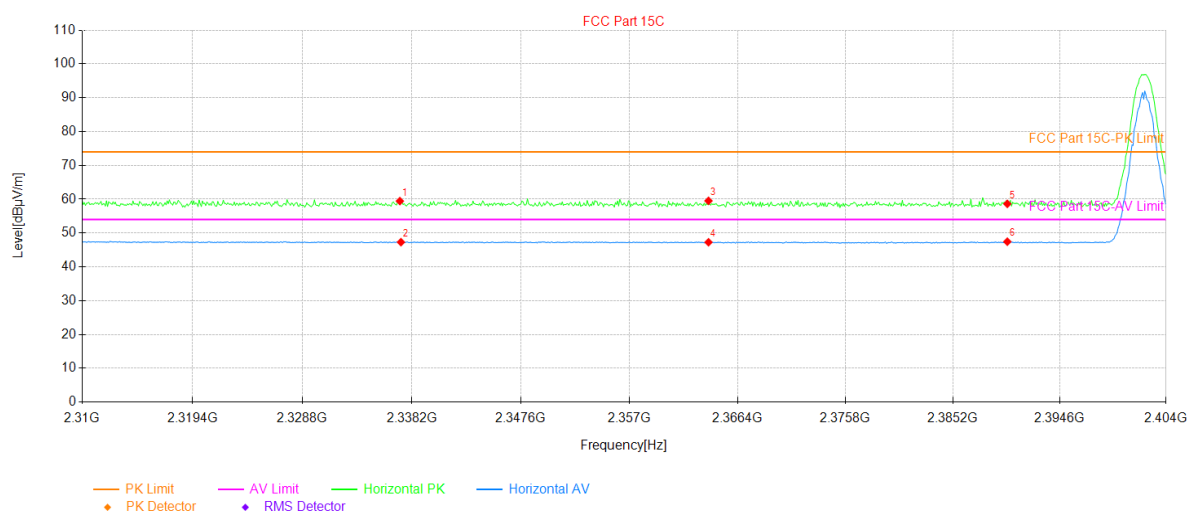


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2341.11	23.51	36.20	59.71	74.00	14.29	95	PK	PASS	Vertical
2	2341.21	11.01	36.20	47.21	54.00	6.79	174	AV	PASS	Vertical
3	2365.55	22.92	36.35	59.27	74.00	14.73	76	PK	PASS	Vertical
4	2365.65	10.79	36.35	47.14	54.00	6.86	284	AV	PASS	Vertical
5	2390.00	22.13	36.47	58.60	74.00	15.40	308	PK	PASS	Vertical
6	2390.00	10.73	36.47	47.20	54.00	6.80	45	AV	PASS	Vertical

Remark:

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

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	2DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



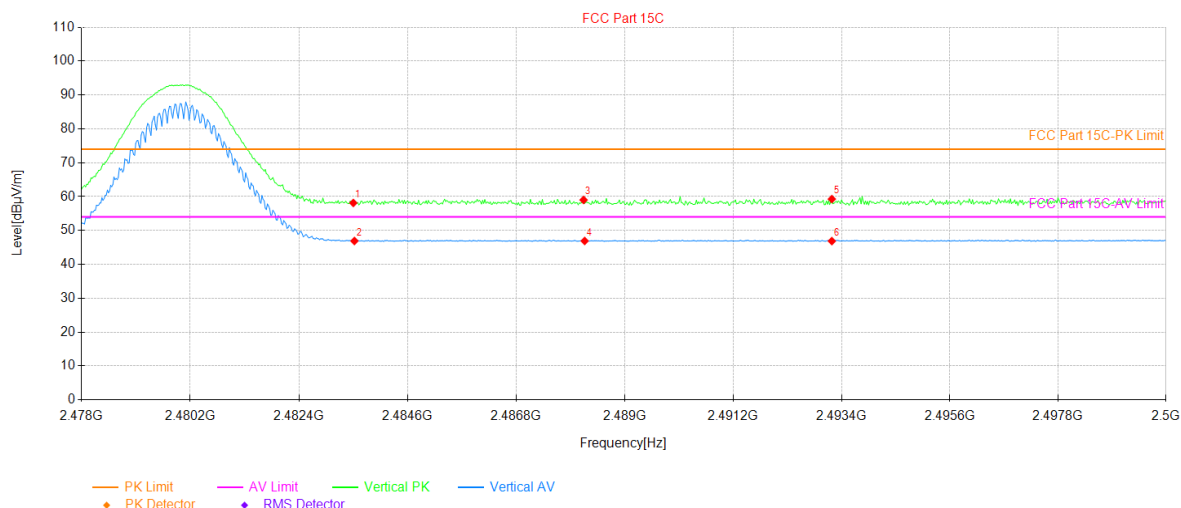
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2337.17	23.27	36.18	59.45	74.00	14.55	96	PK	PASS	Horizontal
2	2337.26	11.12	36.18	47.30	54.00	6.70	337	AV	PASS	Horizontal
3	2363.86	23.18	36.34	59.52	74.00	14.48	62	PK	PASS	Horizontal
4	2363.86	10.93	36.34	47.27	54.00	6.73	208	AV	PASS	Horizontal
5	2390.00	22.16	36.47	58.63	74.00	15.37	212	PK	PASS	Horizontal
6	2390.00	10.98	36.47	47.45	54.00	6.55	85	AV	PASS	Horizontal

Remark:

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

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	2DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V		



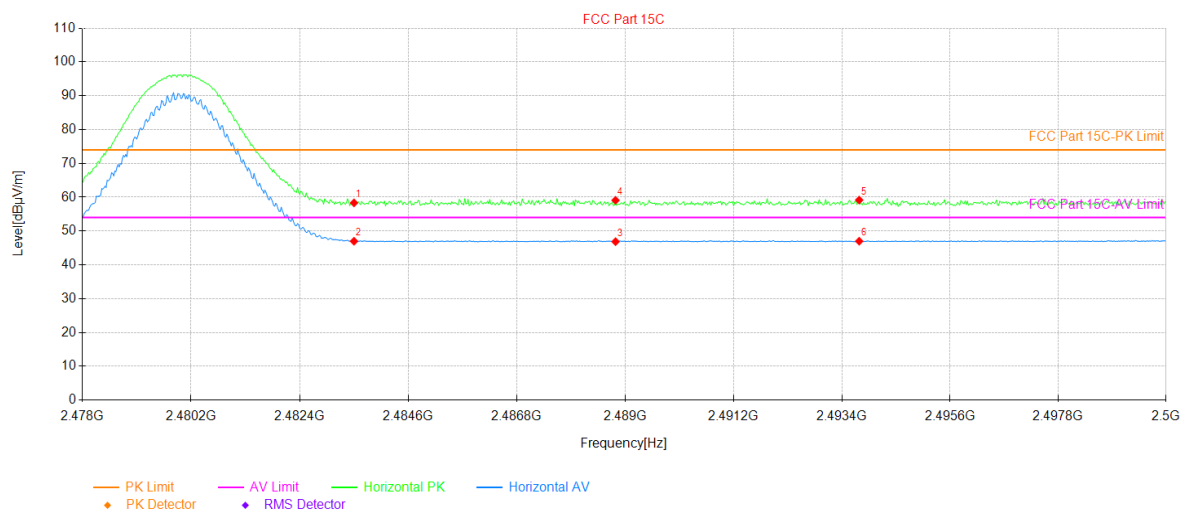
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.02	36.11	58.13	74.00	15.87	217	PK	PASS	Vertical
2	2483.52	10.79	36.11	46.90	54.00	7.10	269	AV	PASS	Vertical
3	2488.16	22.88	36.13	59.01	74.00	14.99	228	PK	PASS	Vertical
4	2488.19	10.78	36.13	46.91	54.00	7.09	344	AV	PASS	Vertical
5	2493.20	23.12	36.15	59.27	74.00	14.73	318	PK	PASS	Vertical
6	2493.20	10.72	36.15	46.87	54.00	7.13	277	AV	PASS	Vertical

Remark:

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

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	2DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



Suspected Data List

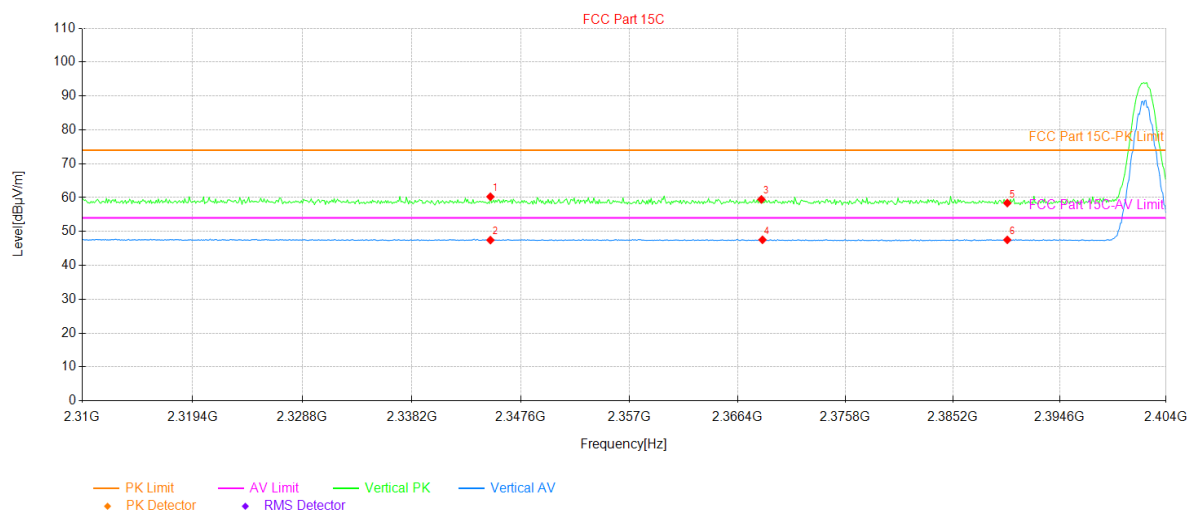
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.22	36.11	58.33	74.00	15.67	297	PK	PASS	Horizontal
2	2483.50	10.87	36.11	46.98	54.00	7.02	42	AV	PASS	Horizontal
3	2488.80	10.73	36.13	46.86	54.00	7.14	64	AV	PASS	Horizontal
4	2488.80	22.95	36.13	59.08	74.00	14.92	345	PK	PASS	Horizontal
5	2493.75	23.01	36.15	59.16	74.00	14.84	278	PK	PASS	Horizontal
6	2493.75	10.85	36.15	47.00	54.00	7.00	176	AV	PASS	Horizontal

Remark:

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

8DPSK mode

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	3DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V		



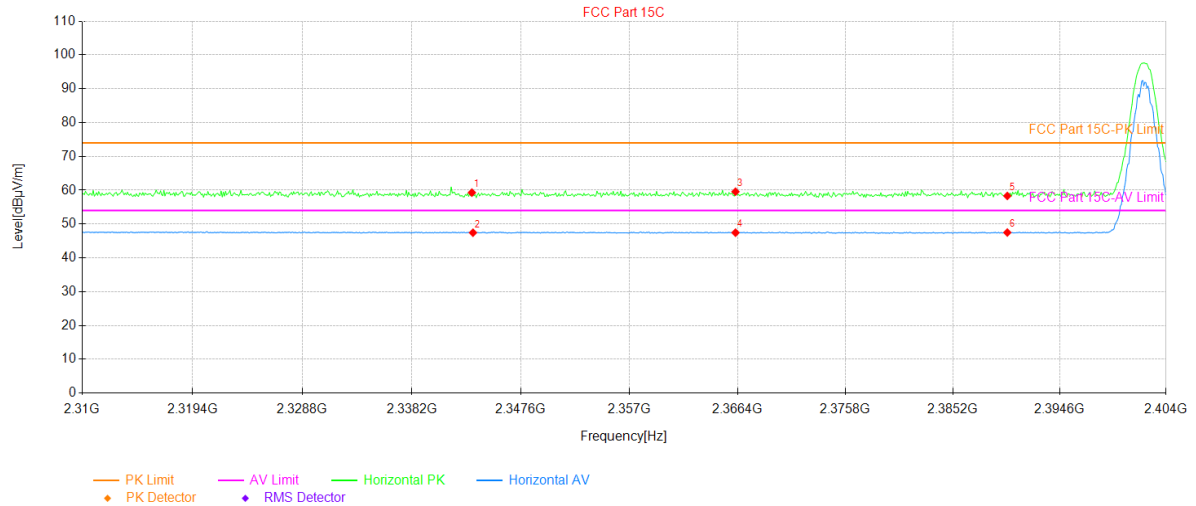
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2344.97	24.03	36.23	60.26	74.00	13.74	197	PK	PASS	Vertical
2	2344.97	11.22	36.23	47.45	54.00	6.55	358	AV	PASS	Vertical
3	2368.47	23.09	36.37	59.46	74.00	14.54	355	PK	PASS	Vertical
4	2368.56	11.18	36.37	47.55	54.00	6.45	280	AV	PASS	Vertical
5	2390.00	21.92	36.47	58.39	74.00	15.61	318	PK	PASS	Vertical
6	2390.00	11.05	36.47	47.52	54.00	6.48	306	AV	PASS	Vertical

Remark:

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

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	3DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



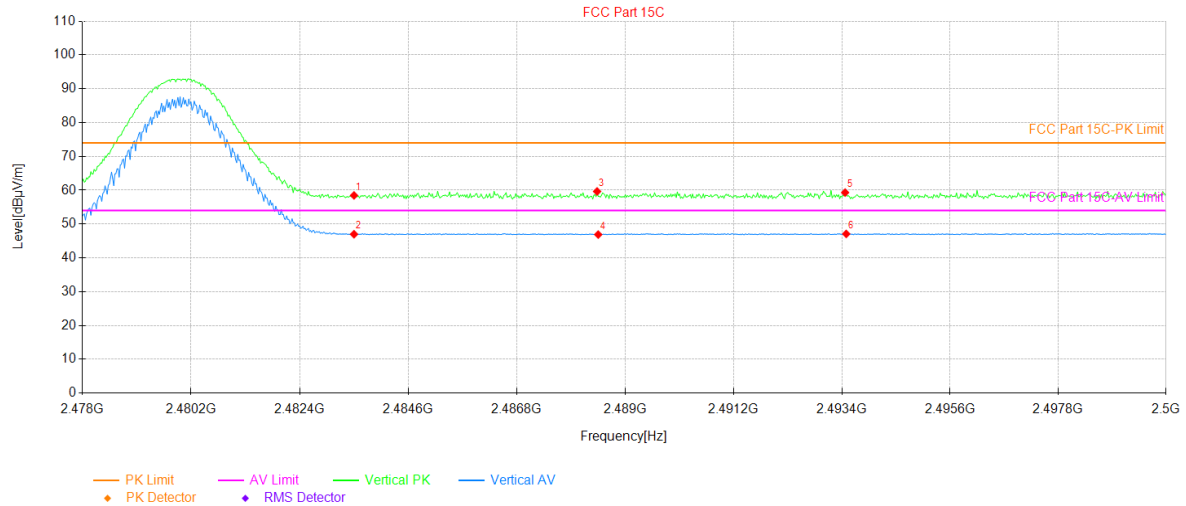
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2343.37	23.07	36.22	59.29	74.00	14.71	16	PK	PASS	Horizontal
2	2343.46	11.22	36.22	47.44	54.00	6.56	218	AV	PASS	Horizontal
3	2366.21	23.21	36.35	59.56	74.00	14.44	142	PK	PASS	Horizontal
4	2366.21	11.10	36.35	47.45	54.00	6.55	108	AV	PASS	Horizontal
5	2390.00	21.84	36.47	58.31	74.00	15.69	97	PK	PASS	Horizontal
6	2390.00	11.02	36.47	47.49	54.00	6.51	294	AV	PASS	Horizontal

Remark:

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

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	3DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V		



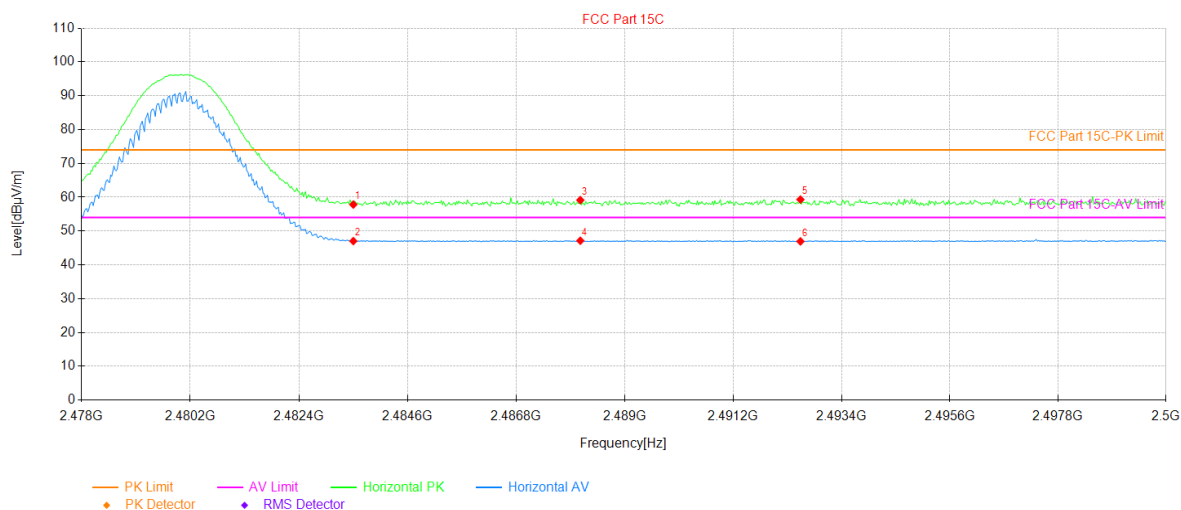
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.36	36.11	58.47	74.00	15.53	116	PK	PASS	Vertical
2	2483.50	10.87	36.11	46.98	54.00	7.02	247	AV	PASS	Vertical
3	2488.43	23.52	36.13	59.65	74.00	14.35	202	PK	PASS	Vertical
4	2488.45	10.76	36.13	46.89	54.00	7.11	190	AV	PASS	Vertical
5	2493.47	23.16	36.15	59.31	74.00	14.69	60	PK	PASS	Vertical
6	2493.49	10.94	36.15	47.09	54.00	6.91	48	AV	PASS	Vertical

Remark:

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

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Alan Chen	Test mode:	3DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



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	21.73	36.11	57.84	74.00	16.16	318	PK	PASS	Horizontal
2	2483.50	10.92	36.11	47.03	54.00	6.97	190	AV	PASS	Horizontal
3	2488.10	23.00	36.13	59.13	74.00	14.87	344	PK	PASS	Horizontal
4	2488.10	11.01	36.13	47.14	54.00	6.86	258	AV	PASS	Horizontal
5	2492.56	23.16	36.15	59.31	74.00	14.69	19	PK	PASS	Horizontal
6	2492.56	10.79	36.15	46.94	54.00	7.06	333	AV	PASS	Horizontal

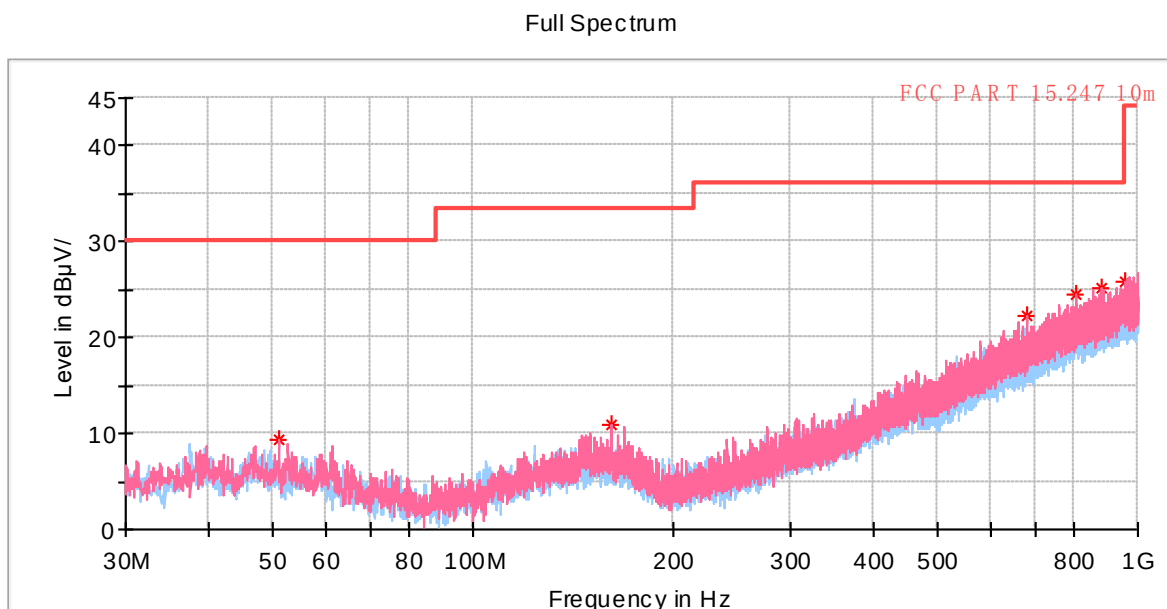
Remark:

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

5.5 Emissions in Non-restricted Frequency Bands

Below 1GHz:

Product Name:	Smart Phone	Product Model:	SKY 65Pro
Test By:	Kiran Zeng	Test mode:	BT Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	DC 3.85V		



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
51.049000	9.40	30.00	20.60	100.0	V	91.0	-16.5	15:34:17 - 2024/9/3
161.483500	11.02	33.50	22.48	100.0	V	267.0	-15.4	15:34:17 - 2024/9/3
679.900000	22.31	36.00	13.69	100.0	V	264.0	-4.7	15:35:35 - 2024/9/3
809.104000	24.49	36.00	11.51	100.0	V	0.0	-2.3	15:35:23 - 2024/9/3
882.242000	25.10	36.00	10.90	100.0	V	292.0	-1.6	15:35:32 - 2024/9/3
955.477000	25.79	36.00	10.21	100.0	V	14.0	-0.1	15:34:17 - 2024/9/3

Remark:

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

Above 1GHz:

Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4804.00	55.29	-8.00	47.29	74.00	26.71	Vertical
4804.00	50.51	-8.00	42.51	74.00	31.49	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4804.00	50.02	-8.00	42.02	54.00	11.98	Vertical
4804.00	44.32	-8.00	36.32	54.00	17.68	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4882.00	54.90	-7.47	47.43	74.00	26.57	Vertical
4882.00	50.12	-7.47	42.65	74.00	31.35	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4882.00	49.66	-7.47	42.19	54.00	11.81	Vertical
4882.00	43.88	-7.47	36.41	54.00	17.59	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4960.00	54.88	-7.08	47.80	74.00	26.20	Vertical
4960.00	50.13	-7.08	43.05	74.00	30.95	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
4960.00	49.69	-7.08	42.61	54.00	11.39	Vertical
4960.00	44.03	-7.08	36.95	54.00	17.05	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-----