FCC Test Report

Report No.: AGC00767200301FE03

FCC ID	: 2AL	JJPL571
APPLICATION PURPOSE	: Orig	inal Equipment
PRODUCT DESIGNATION	: Sma	rt Phone
BRAND NAME	: PCD	
MODEL NAME	: PL52	71
APPLICANT	: PCD	, LLC
DATE OF ISSUE	: Apr.	07, 2020
STANDARD(S)	: FCC	Part 15.247
REPORT VERSION	: V1.0)

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 07, 2020	Valid	Initial Release

REPORT REVISE RECORD

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Applicant	PCD, LLC
Address	7651 Southland Blvd. Orlando, FL 32809
Manufacturer	Shenzhen TENSEN industrial Co.,Ltd.
Address	4th Floor,Yufeng Building, Jinhai Road No.6-9,Xixiang street Bao'an District shenzhen
Factory	Shenzhen TENSEN industrial Co.,Ltd.
Address	4th Floor,Yufeng Building, Jinhai Road No.6-9,Xixiang street Bao'an District shenzhen
Product Designation	Smart Phone
Brand Name	PCD
Test Model	PL571
Date of test	Mar. 04, 2020~Apr. 07, 2020
Deviation	No any deviation from the test method.
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

Donjon. Huame Prepared By Donjon Huang Apr. 07, 2020 (Project Engineer) Max Zhang **Reviewed By** Max Zhang Apr. 07, 2020 (Reviewer) west 12 Approved By Forrest Lei Apr. 07, 2020 (Authorized Officer)

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Smart Phone". It is designed by way of utilizing the GFSK, Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

, , , , , , , , , , , , , , , , , , ,	
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	1.197dBm(Max)
Bluetooth Version	V4.1
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79
Hardware Version	G1859-PH-V4.0-GA
Software Version	PCD_PL571_DR_V1.7
Antenna Designation	PIFA Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	0dBi
Power Supply	DC 3.8V by Built-in Li-ion Battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
2402~2480MHZ	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ, In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the

connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values: 1. LAP/UAP of the master of the connection.

2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For ehavior zation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us.The clock has a cycle of about one day(23h30).In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits),4LSB's(4bits)(Input 1) and the 27MSB's of the clock(Input 2) are used. With this input values different mathematical procedures(permutations, additions, XOR-operations)are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us).The hopping sequence will always Differ from the first one.

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ALJJPL571** filing to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, $Uc = \pm 2.7 dB$
- Uncertainty of Occupied Channel Bandwidth: Uc = ± 2 %
- Uncertainty of Dwell Time: Uc = ± 2 %
- Uncertainty of Frequency: $Uc = \pm 2 \%$

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π/4-DQPSK
5	Middle channel π/4-DQPSK
6	High channel π/4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Hopping mode GFSK
11	Hopping mode π/4-DQPSK
12	Hopping mode 8DPSK
Neter	

4. DESCRIPTION OF TEST MODES

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :

EUT	AE
-----	----

5.2 EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Smart Phone	PL571	FCC ID: 2ALJJPL571	EUT
2	Adapter	PL571	DC 5.0V 1A	AE
3	Battery	PL571	DC 3.8V 2800mAh	AE
4	USB Cable	N/A	N/A	AE
5	Earphone	N/A	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	Compliant

6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1 (Ver. V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 18, 2019	Dec. 17, 2020
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2019	Jun. 11, 2020
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2019	Jun. 11, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 14, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE	N/A	N/A	N/A

7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

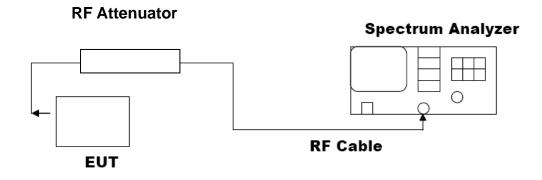
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

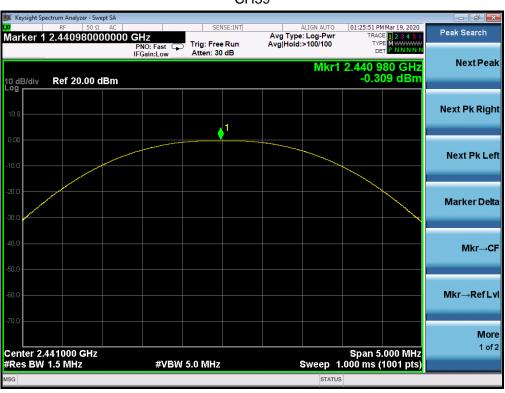
PEAK POWER TEST SETUP



PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION								
Frequency (GHz)Peak Power (dBm)Applicable Limits (dBm)Pass or Fail								
2.402	1.197	30	Pass					
2.441	-0.309	30	Pass					
2.480	0.886	30	Pass					

7.3. LIMITS AND MEASUREMENT RESULT

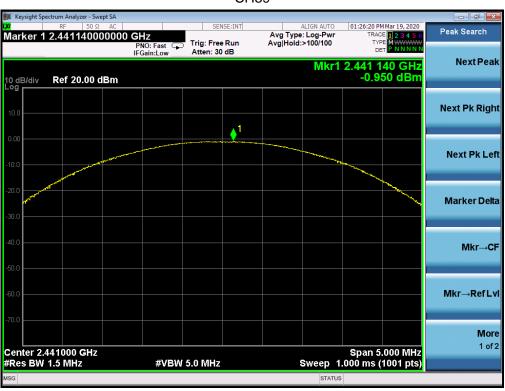




								ctrum Analyzer - Sw	📜 Keysight Sp
Peak Search	Mar 19, 2020 E 1 2 3 4 5 6 E MWWWWW	TRAC	ALIGN AUTO : Log-Pwr :>100/100		Trig: Fre	GHz PNO: Fast	AC 00000	RF 50 Ω 2.4799550	<mark>x</mark> Marker 1
Next Peal	55 GHz 86 dBm	2.479 9	Mkr1	30 dB	Atten: 3	IFGain:Low	dBm	Ref 20.00 d	10 dB/div
Next Pk Righ				▲1					10.0
Next Pk Lef									-10.0
Marker Delta									-20.0
Mkr→Cl									-30.0
Mkr→RefLv									-50.0
Mor 1 of:	.000 MHz	Span 5						80000 GHz	
	1001 pts)		Sweep 1 STATUS	Z	15.0 MHz	#VBW		1.5 MHz	#Res BW

PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION								
Frequency (GHz)	Pass or Fail							
2.402	0.249	30	Pass					
2.441	-0.950	30	Pass					
2.480	-0.075	30	Pass					





		_							trum Analyzer - Sw	📕 Keysight Sp
Peak Search	M Mar 19, 2020 DE 1 2 3 4 5 6	TRAC	ALIGN AUTO	Avg Type	NSE:INT		Hz	00000 G	RF 50 Ω 2.4801850	ø Marker 1
		DI	>100/100	Avg Hold		Trig: Fre Atten: 30	PNO: Fast 🖵 FGain:Low	F		
Next Peak	185 GHz 75 dBm	2.480 1 -0.0	Mkr1					IBm	Ref 20.00 c	I0 dB/div
										- ^{og}
Next Pk Right										10.0
					♦ ¹					0.00
Next Pk Left										
		and the second s								10.0
Marker Delta	No was not a second									20.0
										30.0
										-40.0
Mkr→CF										40.0
										50.0
Mkr→RefLv										60.0
										70.0
More										
1 of 2	.000 MHz	Span 5							80000 GHz	Center 2.
	(1001 pts)	.000 ms (Sweep 1			5.0 MHz	#VBW		1.5 MHz	≉Res BW
			STATUS							ISG

PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION								
FrequencyPeak PowerApplicable Limits(GHz)(dBm)(dBm)								
2.402	0.456	30	Pass					
2.441	-0.826	30	Pass					
2.480	0.072	30	Pass					







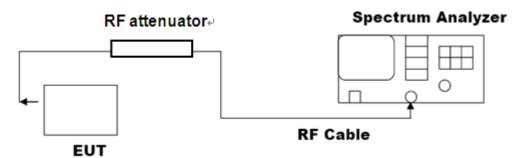
🗾 Keysight Spe	ctrum Analyzer - Swept SA							
Marker 1	RF 50 Ω AC 2.479915000000) GHz	SENSE:INT	Avg Type		TRAC	Mar 19, 2020	Peak Search
		PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:	>100/100	TYP		
		in Guineon			Mkr1	2.479 9	15 GHz	Next Peak
10 dB/div	Ref 20.00 dBm					0.0	72 dBm	
10.0								Next Pk Right
			<u>_1</u>					
0.00								
	and the second second							Next Pk Left
-10.0	And and a second					and the second second		
-20.0	WERNEL CONTRACT						Mar and a start of the start of	
al and a second second							. San and	Marker Delta
-30.0								
-40.0								Mkr→CF
-50.0								
000.0								
-60.0								Mkr→RefLvl
-70.0								
								More 1 of 2
Center 2.4	180000 GHz	40 (B14)	5 0 MIL-			Span 5	.000 MHz	1012
#Res BW	T.5 WIEZ	#VBW	5.0 MHz				1001 pts)	
MSG					STATUS			

8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



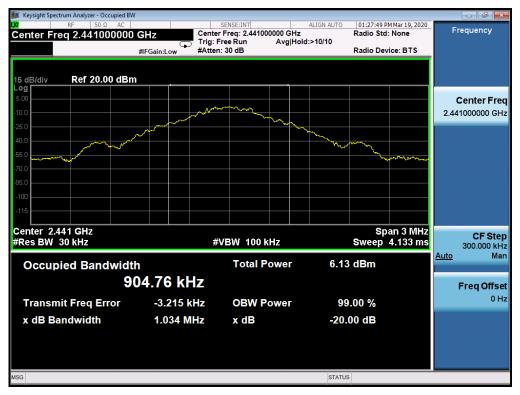
8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION							
Annelia alda di insita		Measurement Result					
Applicable Limits	Test Da	ita (MHz)	Criteria				
	Low Channel	1.038	PASS				
N/A	Middle Channel	1.034	PASS				
	High Channel	1.037	PASS				



TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



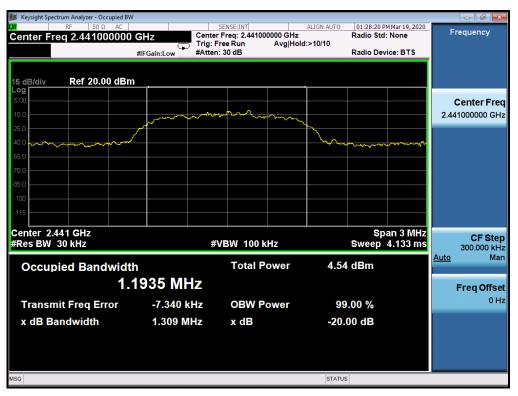


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

MEASUREMENT RESULT FOR II /4-DQPSK MODULATION							
		Measurement Result					
Applicable Limits	Test Da	ita (MHz)	Criteria				
	Low Channel	1.281	PASS				
N/A	Middle Channel	1.309	PASS				
	High Channel	1.313	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

X RF 50 Ω AC SENSE:INT ALIGN AUTO 01:28:28 PM Mar 19, Center Freq: 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None	Frequency
Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None Trig: Free Run Avg Hold:>10/10	
#IFGain:Low #Atten: 30 dB Radio Device: BT	5
15 dB/div Ref 20.00 dBm	
5.00	Center Freq
-10.0	2.402000000 GHz
-25.0	
-40.0	
-400	~~ <mark>~</mark>
-70.0	
-65.0	
-100	
-115	
Center 2.402 GHz Span 3 M	Hz CF Step
#Res BW 30 kHz #VBW 100 kHz Sweep 4.133	ms 300.000 kHz
Occupied Bandwidth Total Power 5.63 dBm	<u>Auto</u> Man
Coupled Ballamati	
1.1747 MHz	Freq Offset
	0 Hz
Transmit Freq Error -9.445 kHz OBW Power 99.00 %	
x dB Bandwidth 1.281 MHz x dB -20.00 dB	
MSG STATUS	



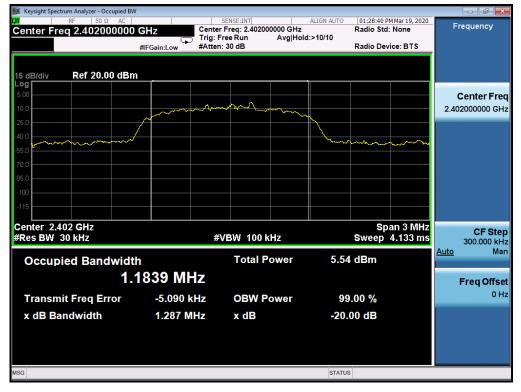
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

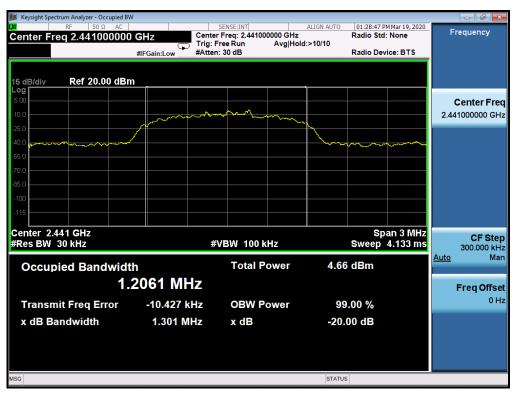
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

Keysight Spectrum Analyzer - Occupied B	w			-	
Center Freq 2.48000000		SENSE:INT		01:28:09 PM Mar 19, Radio Std: None	Frequency
		Trig: Free Run A	vg Hold:>10/10	Radio Device: BT	s
	#IFGalli.Low #			Rudio Devide. Di	
15 dB/div Ref 20.00 dB	20				
Log					
5.00					Center Freq
-10.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mar for from the	~~~~		2.480000000 GHz
-25.0					
-40.0			have	monter	~~~
-55.0					
-70.0					
-85.0					
-100					
-115					
Center 2.48 GHz				Span 3 N	
#Res BW 30 kHz		#VBW 100 kHz		Sweep 4.133	
			4.75		<u>Auto</u> Man
Occupied Bandwid		Total Pow	er 4./5	dBm	
1.	.1848 MHz	2			Freq Offset
Transmit Freq Error	-11.743 kHz	z OBW Pow	er 99	.00 %	0 Hz
x dB Bandwidth	1.313 MHz			00 dB	
X dB Bandwidth	1.313 MH2	z xab	-20.	00 8	
100					
MSG			STATUS		

MEASUREMENT RESULT FOR 8-DPSK MODULATION						
Applicable Limits	Measurement Result					
	Test Data (MHz)		Criteria			
N/A	Low Channel	1.287	PASS			
	Middle Channel	1.301	PASS			
	High Channel	1.282	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

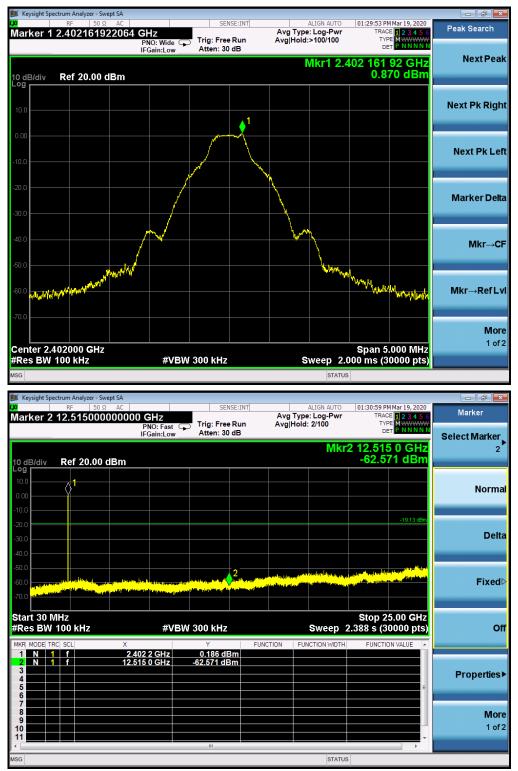
The same as described in section 6

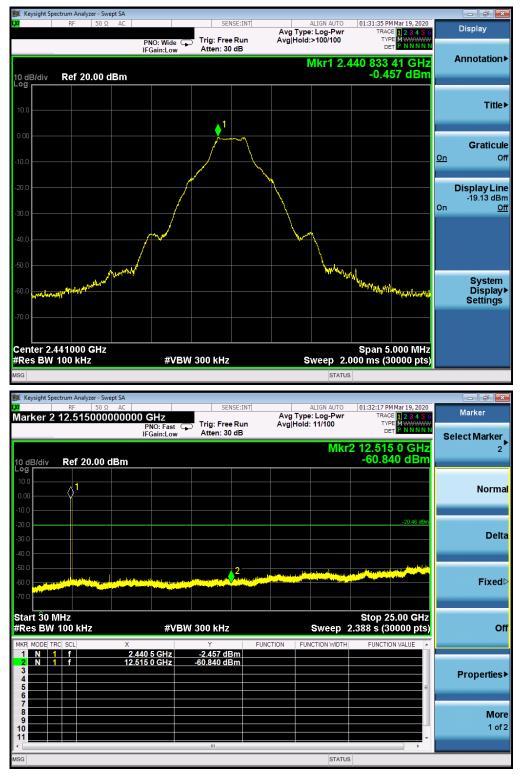
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT				
Applieghte Limite	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit			
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS		
intentional radiator is operating, the radio frequency	Channel			
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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))	At least -20dBc than the limit Specified on the TOP Channel	PASS		

TEST RESULT FOR ENTIRE FREQUENCY RANGE

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL





TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL



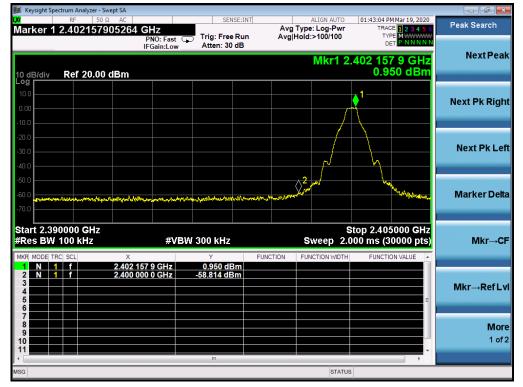
TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit. The GFSK modulation is the worst case and only those data recorded in the report.

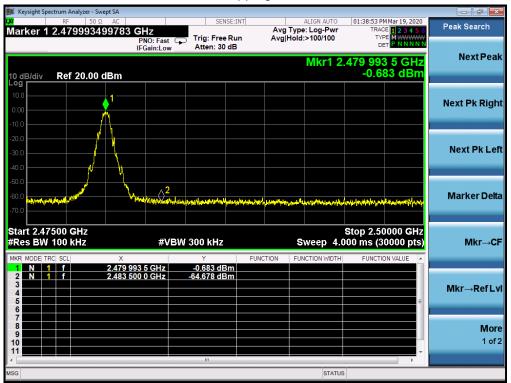
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

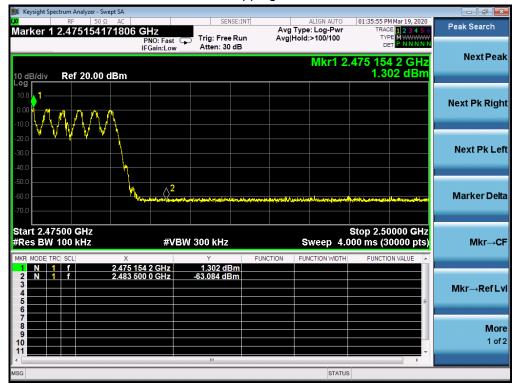
Hopping off

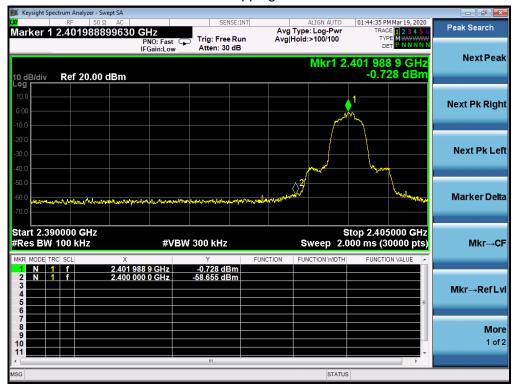


Keysight Spectrum Analyzer - Swept SA			
RF 50 Ω AC arker 1 2.403999966666	6 GHz	ALIGN AUTO 01:43:34 PM Mar 19, 202 Avg Type: Log-Pwr TRACE 12345	
) dB/div Ref 20.00 dBm	PNO: Fast Trig: Free Run IFGain:Low Atten: 30 dB	AvgiHoid:>100/100 TYPE MUNIT DET PINNIN Mkr1 2.404 000 0 GH 0.449 dBr	NextPea
D g 0.0 .00			Next Pk Rig
0.0			Next Pk Le
0.0	narahattangana na sa		Marker De
tart 2.390000 GHz Res BW 100 kHz	#VBW 300 kHz	Stop 2.405000 GH Sweep 2.000 ms (30000 pt	
1 N 1 f 2.404	¥ 000 0 GHz 0.449 dBm 0 000 0 GHz -61.808 dBm	FUNCTION FUNCTION WIDTH FUNCTION VALUE	Â Mkr→RefL
6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			Мо 1 о
			*

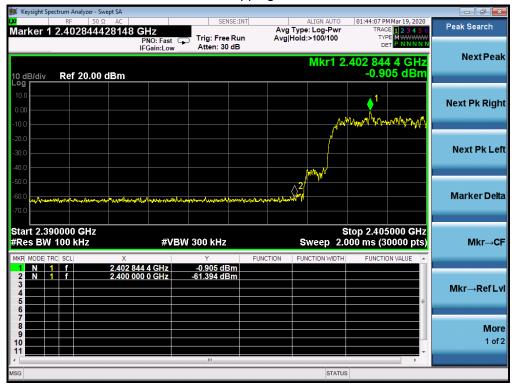


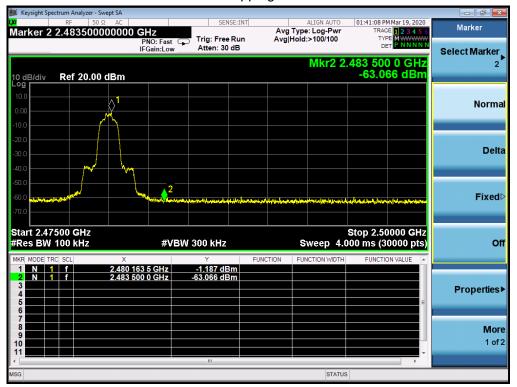
GFSK MODULATION IN HIGH CHANNEL Hopping off



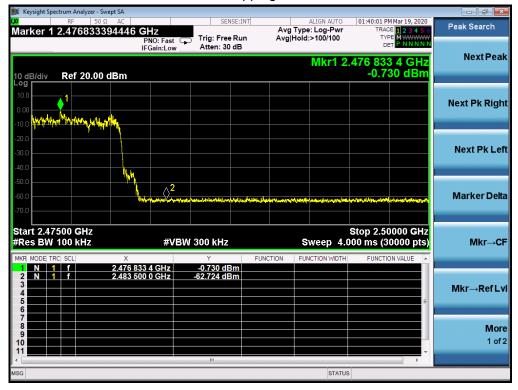


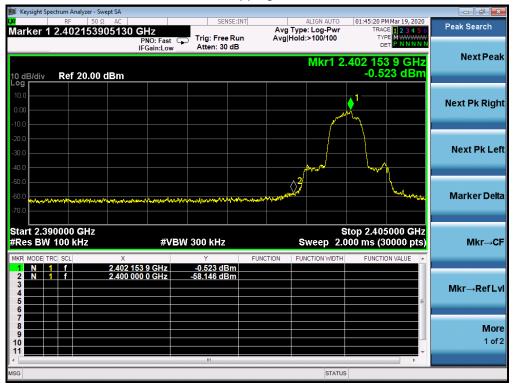
π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off



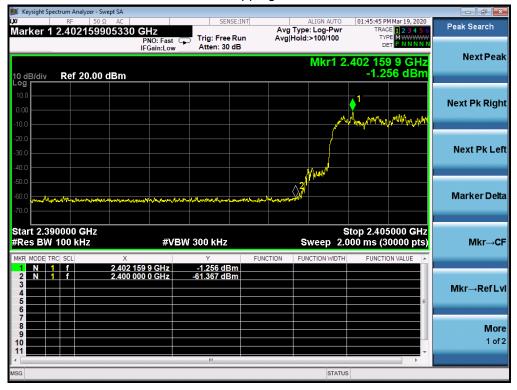


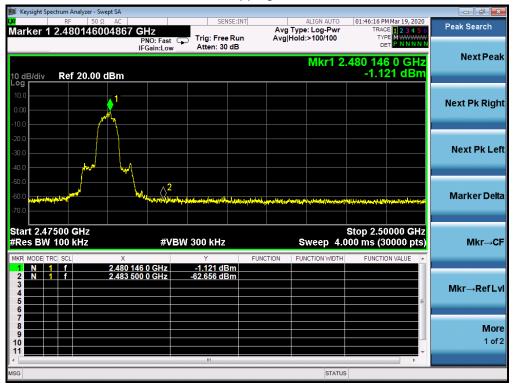
π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off



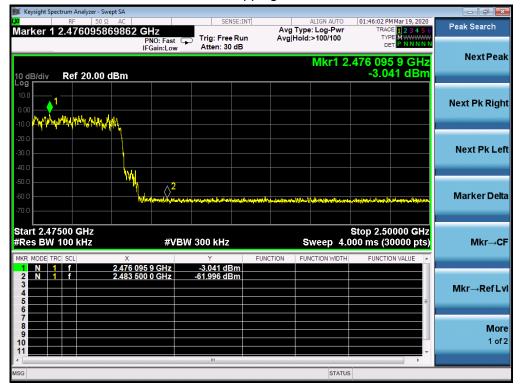


8-DPSK MODULATION IN LOW CHANNEL Hopping off





8-DPSK MODULATION IN HIGH CHANNEL Hopping off



10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

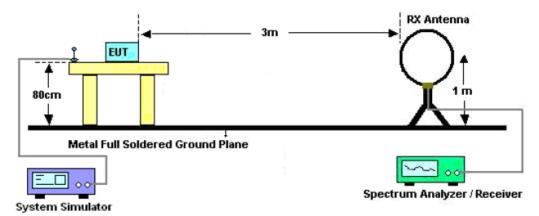
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start Stan Fraguanay	1GHz~26.5GHz
Start ~Stop Frequency	1MHz/3MHz for Peak, 1MHz/3MHz for Average

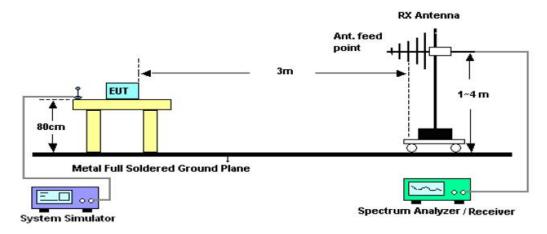
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

10.2. TEST SETUP

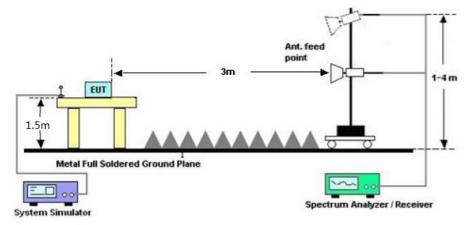
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

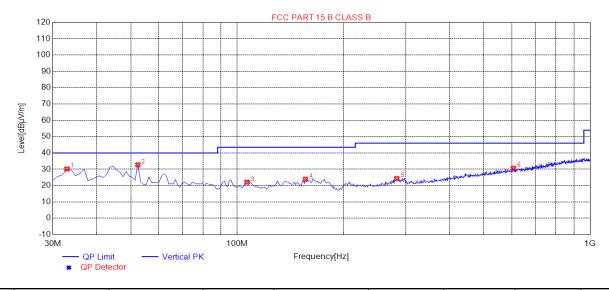
EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

RADIATED EMISSION BELOW 1GHZ



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	28.31	14.49	40.00	11.69	100	166	Horizontal
2	78.5000	21.26	10.46	40.00	18.74	100	13	Horizontal
3	133.7900	20.58	14.42	43.50	22.92	100	272	Horizontal
4	204.6000	21.65	12.35	43.50	21.85	100	292	Horizontal
5	391.8100	26.75	19.48	46.00	19.25	100	360	Horizontal
6	644.9800	30.60	25.05	46.00	15.40	100	354	Horizontal

EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.9100	30.17	13.36	40.00	9.83	100	88	Vertical
2	52.3100	32.78	14.49	40.00	7.22	100	359	Vertical
3	106.6300	22.09	12.07	43.50	21.41	100	359	Vertical
4	156.1000	23.89	14.93	43.50	19.61	100	254	Vertical
5	283.1700	24.36	16.26	46.00	21.64	100	333	Vertical
6	606.1800	30.65	24.42	46.00	15.35	100	297	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

RADIATED EMISSION ABOVE 1GHZ

EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.022	49.31	0.08	49.39	74.00	-24.61	peak
4804.022	43.28	0.08	43.36	54.00	-10.64	AVG
7206.033	48.52	2.21	50.73	74.00	-23.27	peak
7206.033	41.47	2.21	43.68	54.00	-10.32	AVG
Remark:						
-actor = Anter	na Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4804.022	49.16	0.08	49.24	74.00	-24.76	peak	
4804.022	42.09	0.08	42.17	54.00	-11.83	AVG	
7206.033	47.36	2.21	49.57	74.00	-24.43	peak	
7206.033	41.17	2.21	43.38	54.00	-10.62	AVG	
Remark:							
Factor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.				

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EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.022	49.63	0.14	49.77	74.00	-24.23	peak
4882.022	39.56	0.14	39.70	54.00	-14.30	AVG
7323.033	47.45	2.36	49.81	74.00	-24.19	peak
7323.033	37.16	2.36	39.52	54.00	-14.48	AVG
Remark:						
Factor = Anter	nna Factor + Cabl	e Loss – Pre-a	amplifier.			

EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.022	50.29	0.14	50.43	74.00	-23.57	peak
4882.022	42.13	0.14	42.27	54.00	-11.73	AVG
7323.033	48.36	2.36	50.72	74.00	-23.28	peak
7323.033	40.03	2.36	42.39	54.00	-11.61	AVG
Remark:	· ·				•	•
Factor = Anter	nna Factor + Cabl	e Loss – Pre-a	amplifier.			

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EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.022	51.33	0.22	51.55	74.00	-22.45	peak
4960.022	41.00	0.22	41.22	54.00	-12.78	AVG
7440.033	49.26	2.64	51.90	74.00	-22.10	peak
7440.033	39.39	2.64	42.03	54.00	-11.97	AVG
Remark:						
Factor = Anter	na Factor + Cabl	e Loss – Pre-a	mplifier.			

EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.022	49.32	0.22	49.54	74.00	-24.46	peak
4960.022	40.47	0.22	40.69	54.00	-13.31	AVG
7440.033	46.94	2.64	49.58	74.00	-24.42	peak
7440.033	37.75	2.64	40.39	54.00	-13.61	AVG
Remark:						
actor = Anter	na Factor + Cabl	e Loss – Pre-a	mplifier.			

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

ΡK



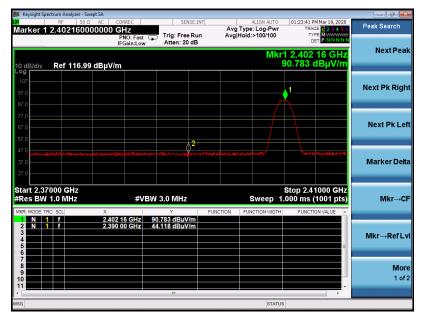


1	1		Ω AC	CORREC	SENSE:I		ALIGN AUTO		M Mar 19, 2020	Peak Search
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Report No.: AGC00767200301FE03 Page 47 of 61

EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

ΡK



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Marker 1		Ω AC	CORREC GHZ PNO: Fast IFGain:Low		Avg	ALIGN AUTO Type: RMS Hold:>100/100	TYPE	4ar 19, 2020 1 2 3 4 5 6 A NNNNN	Peak Search
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47.0 37.0 27.0				²					Marker Del
tart 2.370 Res BW	1.0 MHz	X	#V	BW 3.0 MHz*	FUNCTION	Sweep 1	Stop 2.410 .000 ms (1) FUNCTION	001 pts)	Mkr→C
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EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

ΡK



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		v

arker 1	RF	er - Swept SA 50 Ω AC 2500000	CORREC O GHZ PNO: Fa IEGain:L		SENSE:IN g: Free Run ten: 20 dB	Avg	ALIGN AUTO Type: RMS Hold:>100/100	TYPE	r 19, 2020 2 3 4 5 6	Peak Search
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6 7 8 9 10										М а 1 о
					III				E F	

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EUT	Smart Phone	Model Name	PL571
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



ΡK

AV



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F. All test modes had been pre-tested. The GFSK modulation is the worst case and recorded in the report.

11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

3. VBW \geq RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.

4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF HOPPING CHANNEL	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
	>=15	79	PASS



TEST PLOT FOR NO. OF TOTAL CHANNELS

Note: The GFSK modulation is the worst case and recorded in the report.

12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.

2. RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4. Detector function: Peak. Trace: Max hold.

5. Use the marker-delta function to determine the transmit time per hop.

6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) \times (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

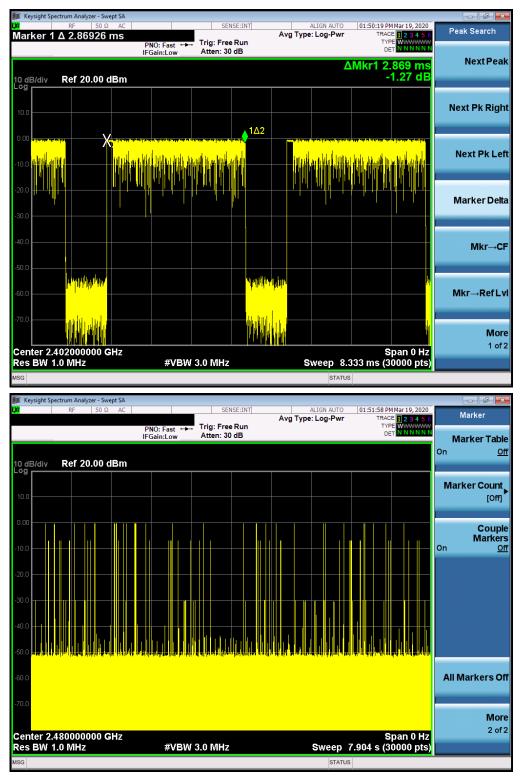
12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

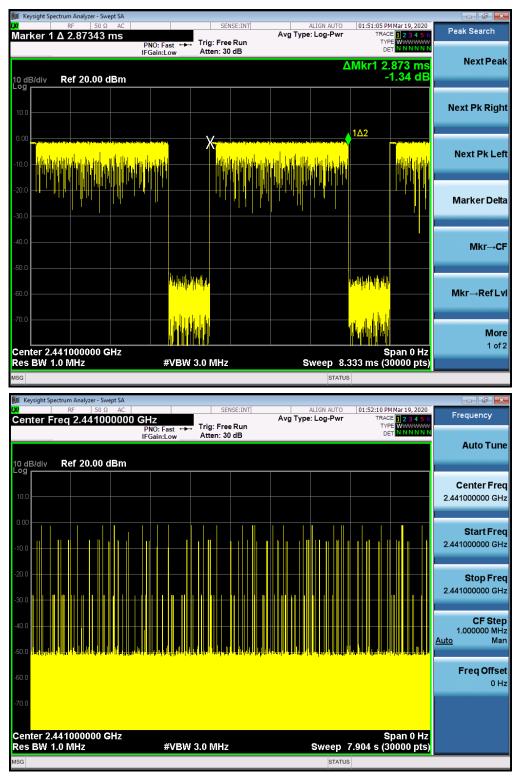
12.4. LIMITS AND MEASUREMENT RESULT

Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	2.869	25*4	345.00	400
Middle	2.873	25*4	356.252	400
High	2.883	27*4	333.732	400

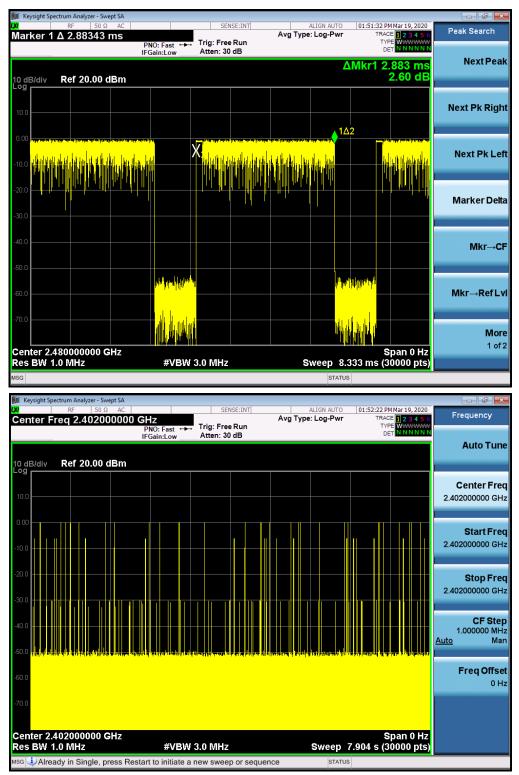
Note: The 8-DPSK modulation is the worst case and recorded in the report.



TEST PLOT OF LOW CHANNEL



TEST PLOT OF MIDDLE CHANNEL



TEST PLOT OF HIGH CHANNEL

13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.

2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

3. Video (or average) bandwidth (VBW) \geq RBW.

4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	Dasa
CH01-CH02	1001	>=25 KHz or 2/3 20 dB BW	Pass



TEST PLOT FOR FREQUENCY SEPARATION

Note: The 8-DPSK modulation is the worst case and recorded in the report.

14. FCC LINE CONDUCTED EMISSION TEST

14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

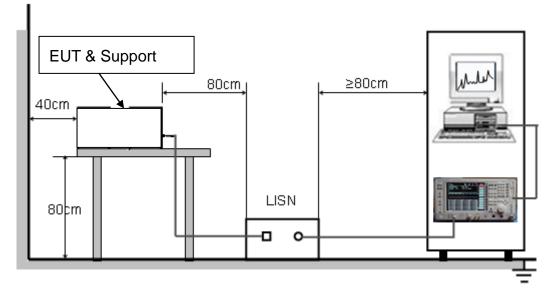
Frequency	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



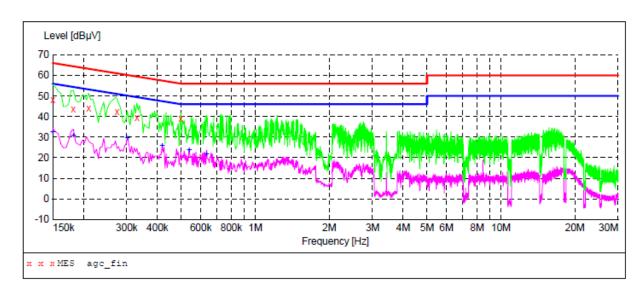
14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a Smart Phoneop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 3.7V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.



14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

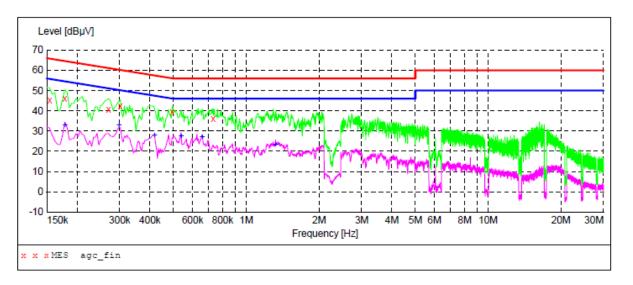
Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "agc_fin"

2020/3/26 23:	28						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000 0.182000 0.210000 0.274000 0.330000 0.498000	48.30 43.50 43.80 42.40 39.60 39.20	11.3 11.3 11.3 11.3 11.3 11.3 11.3	66 64 63 61 60 56	17.7 20.9 19.4 18.6 19.9 16.8	QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO

MEASUREMENT RESULT: "agc_fin2"

2020/3/26 23 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000 0.182000 0.302000 0.418000 0.538000 0.634000	32.30 30.60 29.40 25.60 23.70 21.50	11.3 11.3 11.3 11.3 11.3 11.3 11.3	56 54 50 48 46 46		AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO



Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "agc_fin"

2020/3/26 23	3:31						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154000	45.10	11.3	66	20.7	QP	N	FLO
0.178000	45.90	11.3	65	18.7	QP	N	FLO
0.270000	40.60	11.3	61	20.5	QP	N	FLO
0.302000	42.50	11.3	60	17.7	QP	N	FLO
0.494000	39.40	11.3	56	16.7	QP	N	FLO
0.730000	36.30	11.3	56	19.7	QP	N	FLO

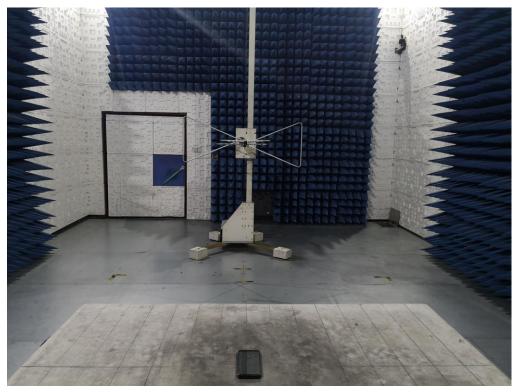
MEASUREMENT RESULT: "agc_fin2"

2020/3/26 23	:31						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178000	33.00	11.3	55	21.6	AV	N	FLO
0.298000	32.80	11.3	50	17.5	AV	N	FLO
0.418000	28.00	11.3	48	19.5	AV	N	FLO
0.538000	27.30	11.3	46	18.7	AV	N	FLO
0.658000	27.10	11.3	46	18.9	AV	N	FLO
1.322000	23.30	11.3	46	22.7	AV	N	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

APPENDIX A: PHOTOGRAPHS OF TEST SETUP RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ





CONDUCTED EMISSION TEST SETUP

----END OF REPORT----