



TEST REPORT

Applicant: HONG KONG IPRO TECHNOLOGY CO.,LIMITED

Address: 12/F,3 LOCKHART ROAD, WANCHAI, HK

FCC ID: PQ4IPROS100

Product Name: Smart Phone

Model Number: S100

Standard(s): 47 CFR Part 15, Subpart C(15.247) ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR21090082-00A

Date Of Issue: 2021-10-26

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Smart Phone
EUT Model:	S100
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	7.06 dBm
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Rated Input Voltage:	DC 3.85 V from battery or DC 5V from adapter
Serial Number:	CR21090082-RF-S2
EUT Received Date:	2021.09.28
EUT Received Status:	Good

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
		78	2480
39	2441	/	/

Per section 15.31(m), the lowest frequency, middle frequency, and highest frequency were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2441
Highest	2480

Antenna Information Detail▲:

Antenna Manufacturer	Antenna	input impedance	Antenna Gain	§15.203
	Type	(Ohm)	/Frequency Range	Requirement
HONG KONG IPRO TECHNOLOGY CO.,LIMITED	FPC	50	-0.13 dBi/ 2.4~2.5GHz	Compliance

The Method of §15.203 Compliance:

Antenna must be permanently attached to the unit.

Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

Report No.: CR21090082-00A

Accessory Description	Manufacturer	Model	Parameters
Adapter	IPRO	S100	Input: AC100V-240V 50/60Hz 150mA Output: DC5.0V DC 2A

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.	
Equipment Modifications:		
EUT Exercise Software:	Engineering Mode	

The software "Engineering Mode "was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:

Test Modes		Power Level Setting	
Test Modes	Lowest	Middle	Highest
GFSK	4	4	4
π/4-DQPSK	4	4	4
8DPSK	4	4	4

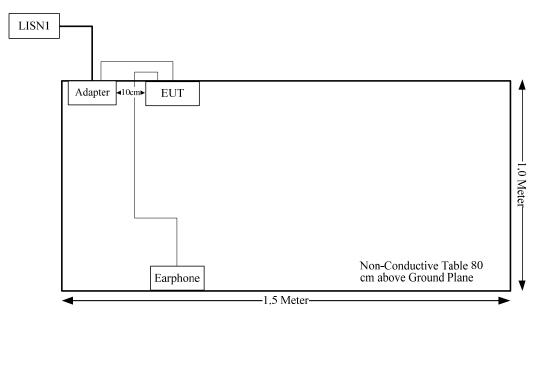
1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
USB Cable	No	No	1.2	Adapter	EUT
Earphone Cable	No	No	1.2	EUT	Earphone

1.2.4 Block Diagram of Test Setup



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1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5~\%$
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207(a)	AC line conducted emissions	Compliance
FCC §15.205, §15.209, §15.247(d)	Spurious emissions	Compliance
FCC §15.247(a)(1)	20 dB bandwidth	Compliance
FCC §15.247(a)(1)	Channel separation	Compliance
FCC §15.247(a)(1)(iii)	Number of hopping Frequency	Compliance
FCC §15.247(a)(1)(iii)	Time of occupancy (dwell time)	Compliance
FCC §15.247(b)(1)	Peak output power measurement	Compliance
FCC §15.247(d)	Band edges	Compliance
FCC §15.203	Antenna requirement	Compliance
FCC§15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

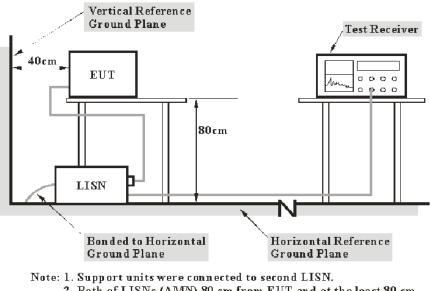
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 $\mu H/50$ ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor = attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.2 Radiation Spurious Emissions

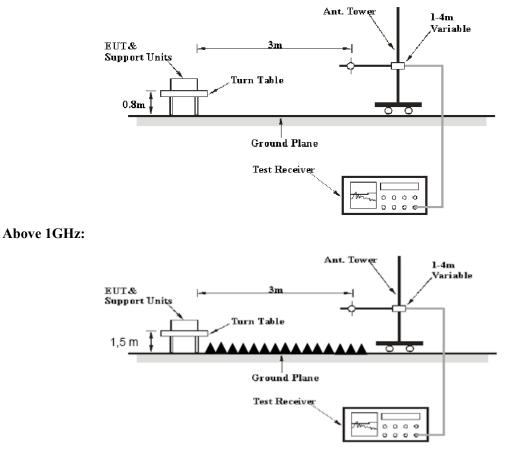
3.2.1 Applicable Standard

FCC §15.247 (d);

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)).

3.2.2 EUT Setup

Below 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 CUIT	1MHz	3 MHz	/	РК
Above 1 GHz	1MHz	10 Hz	/	AV

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

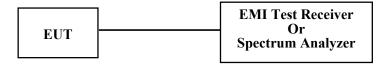
3.3 20 dB Bandwidth

3.3.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

3.3.2 EUT Setup



3.3.3 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

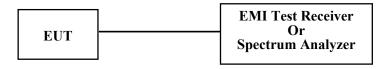
3.4 Channel Separation

3.4.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

3.4.2 EUT Setup



3.4.3Test Procedure

According to ANSI C63.10-2013 Section 7.8.2

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

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

b) 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.

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

d) 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. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

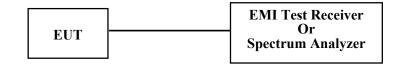
3.5 Number Of Hopping Frequency

3.5.1 Applicable Standard

FCC §15.247 (a)(1)(iii)

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

3.5.2 EUT Setup



3.5.3Test Procedure

According to ANSI C63.10-2013 Section 7.8.3

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

a) 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.

b) 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.

- c) VBW \geq RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize

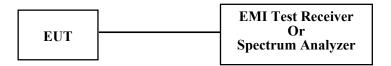
It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

3.6 Time Of Occupancy(Dwell Time)

3.6.1 Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

3.6.2 EUT Setup



3.6.3Test Procedure

The EUT was worked in channel hopping; the time of single pulses was tested.

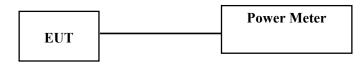
3.7 Peak Output Power

3.7.1 Applicable Standard

FCC §15.247 (b)(1)

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 nonoverlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

3.7.2 EUT Setup



3.7.3Test Procedure

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.

2. Add a correction factor to the display.

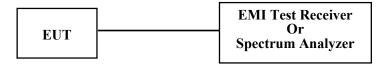
3.8 100 kHz Bandwidth of Frequency Band Edge

3.8.1 Applicable Standard

FCC §15.247 (d);

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)).

3.8.2 EUT Setup



3.8.3 Test Procedure

a) Set the center frequency and span to encompass frequency range to be measured.

b) Set the RBW = 100 kHz.

c) Set the VBW \geq [3 × RBW].

d) Detector = peak.

- e) Sweep time = auto couple.
- f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

3.9 Antenna Requirement

3.9.1 Applicable Standard

FCC §15.203

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.9.2 Judgment

Please refer to the Antenna Information detail in Section 1.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR21090082-RF-S2	Test Date:	2021-09-30
Test Site:	CE	Test Mode:	Transmitting
Tester:	Alex Hu	Test Result:	Pass

Environmental Conditions:

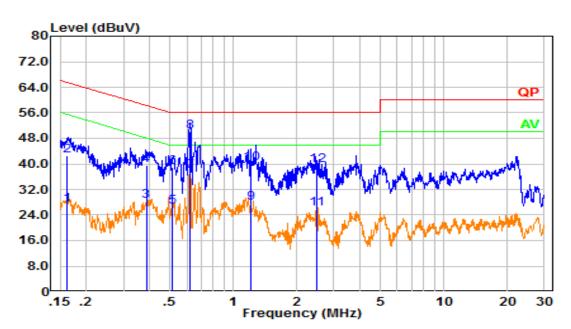
Linvironmentai	Conditions.				
Temperature: (℃)	24.9	Relative Humidity: (%)	69	ATM Pressure: (kPa)	100.4

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2021-04-25	2022-04-24
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

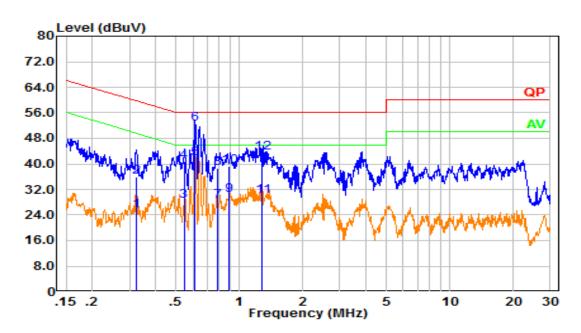
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Line:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.161	17.70	9.61	27.31	55.42	28.11	Average
2	0.161	33.08	9.61	42.69	65.42	22.73	QP
3	0.385	18.66	9.61	28.27	48.18	19.90	Average
4	0.385	29.84	9.61	39.45	58.18	18.73	QP
5	0.515	16.82	9.61	26.43	46.00	19.57	Average
6	0.515	29.33	9.61	38.94	56.00	17.06	QP
7	0.623	28.12	9.62	37.74	46.00	8.26	Average
8	0.623	40.61	9.62	50.23	56.00	5.77	QP
9	1.211	18.05	9.62	27.67	46.00	18.33	Average
10	1.211	30.51	9.62	40.14	56.00	15.86	QP
11	2.486	16.17	9.64	25.81	46.00	20.19	Average
12	2.486	29.89	9.64	39.53	56.00	16.47	QP

Neutral:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.323	15.87	9.61	25.48	49.64	24.16	Average
2	0.323	26.35	9.61	35.96	59.64	23.68	QP
3	0.544	18.80	9.61	28.41	46.00	17.59	Average
4	0.544	31.26	9.61	40.88	56.00	15.12	QP
5	0.612	32.07	9.62	41.69	46.00	4.31	Average
6	0.612	42.93	9.62	52.55	56.00	3.45	QP
7	0.783	18.79	9.62	28.41	46.00	17.59	Average
8	0.783	28.99	9.62	38.61	56.00	17.39	QP
9	0.890	20.53	9.62	30.15	46.00	15.85	Average
10	0.890	29.78	9.62	39.40	56.00	16.60	QP
11	1.285	20.41	9.62	30.04	46.00	15.96	Average
12	1.285	33.71	9.62	43.33	56.00	12.67	QP

4.2 Radiation Spurious Emissions

Serial Number:	CR21090082-RF-S2	Test Date:	2021-10-09~2021-10-12
Test Site:	966-1/966-2	Test Mode:	Transmitting
Tester:	Elan Lv, Alex Hu	Test Result:	Pass

Environmental Conditions:							
Temperature: (°C)	26.6~27.9	Relative Humidity: (%)	55~65	ATM Pressure: (kPa)	100.8~100.9		

Test Equipment List and Details:

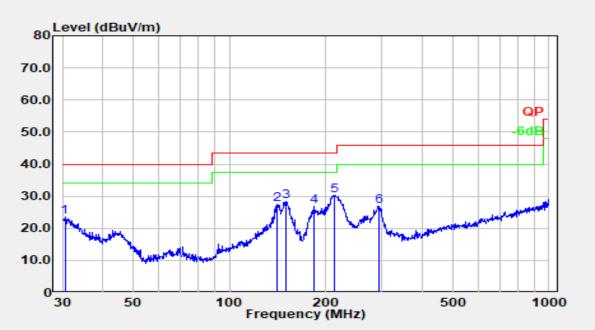
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna JB6 A082520-5		2020-10-19	2023-10-18	
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
Audix	Test Software	E3	201021 (V9)	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2023-02-04
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1- 1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1- 2362-300300	235780-001	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFB142A-1- 2362-200200	235772-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-08-08	2022-08-07
AH	Preamplifier	PAM-1840VH	190	2020-11-20	2021-11-19
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2021-08-08	2022-08-07
Mini Circuits	High Pass Filter	VHF-6010+	31119	2021-08-08	2022-08-07

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Report No.: CR21090082-00A

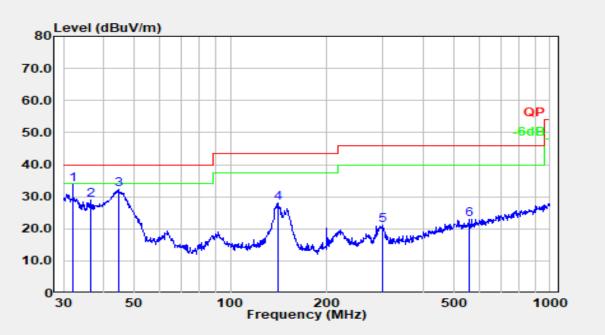
1) 30MHz-1GHz(Low channel was the worst)

Horizontal:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	30.531	27.75	-4.20	23.55	40.00	16.45	Peak
2	140.342	39.56	-12.15	27.41	43.50	16.09	Peak
3	150.538	40.68	-12.29	28.39	43.50	15.11	Peak
4	184.490	40.48	-13.72	26.76	43.50	16.74	Peak
5	213.763	42.89	-12.75	30.14	43.50	13.36	Peak
6	294.114	38.00	-10.99	27.01	46.00	18.99	Peak

Vertical:

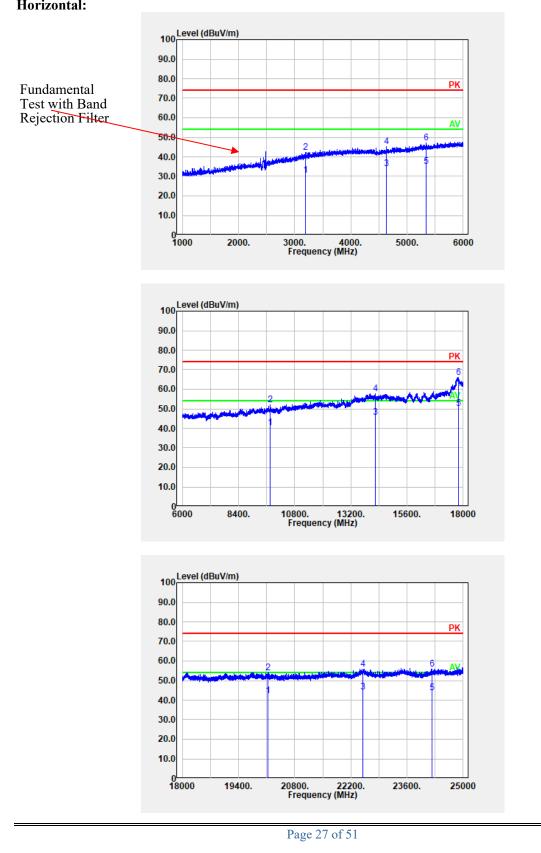


No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	32.067	39.14	-5.37	33.76	40.00	6.24	Peak
2	36.637	37.87	-8.91	28.96	40.00	11.04	Peak
3	44.587	46.41	-14.22	32.19	40.00	7.81	Peak
4	141.330	40.12	-12.18	27.94	43.50	15.56	Peak
5	298.268	32.04	-10.86	21.19	46.00	24.81	Peak
6	556.774	28.85	-5.91	22.94	46.00	23.06	Peak

Report No.: CR21090082-00A

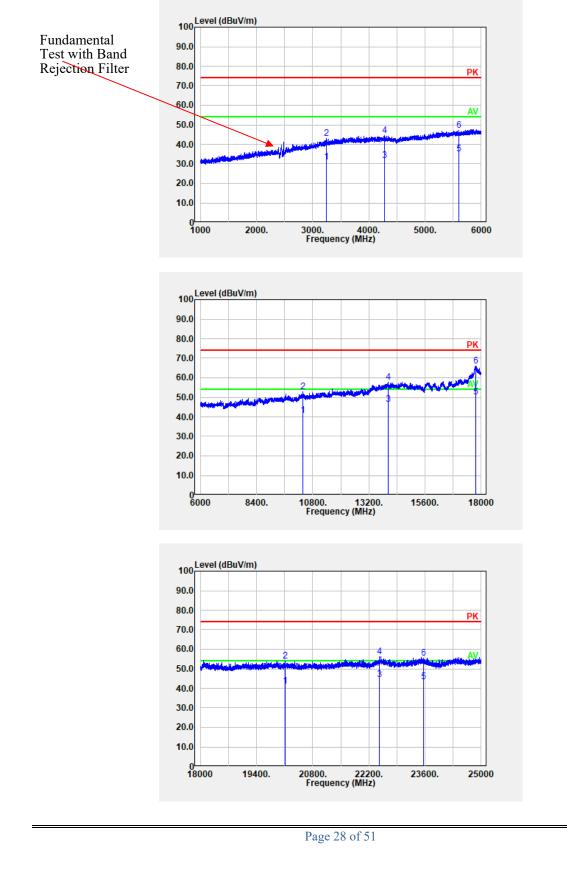
2) 1-25GHz: BDR Mode(GFSK) was the worst:

Frequency	Receiver		Polar Factor	Result	Limit	Mangin	
Frequency (MHz)	Reading (dBµV)	Detector	(H/V)	Factor (dB/m)	(dBµV/m)	(dBµV/m)	Margin (dB)
		_		nnel: 2402 MH			
2402.00	68.56	PK	Н	31.50	100.06	N/A	N/A
2402.00	62.47	AV	Н	31.50	93.97	N/A	N/A
2402.00	63.87	PK	V	31.50	95.37	N/A	N/A
2402.00	57.14	AV	V	31.50	88.64	N/A	N/A
2390.00	28.01	PK	Н	31.46	59.47	74.00	14.53
2390.00	16.15	AV	Н	31.46	47.61	54.00	6.39
4804.00	37.12	PK	Н	10.64	47.76	74.00	26.24
4804.00	23.85	AV	Н	10.64	34.49	54.00	19.51
7206.00	36.82	PK	Н	13.96	50.78	74.00	23.22
7206.00	23.74	AV	Н	13.96	37.70	54.00	16.30
	•]	Middle Ch	annel: 2441 MI	Hz	•	
2441.00	63.52	PK	Н	31.60	95.12	N/A	N/A
2441.00	57.72	AV	Н	31.60	89.32	N/A	N/A
2441.00	58.93	PK	V	31.60	90.53	N/A	N/A
2441.00	52.24	AV	V	31.60	83.84	N/A	N/A
4882.00	36.86	PK	Н	10.50	47.36	74.00	26.64
4882.00	23.85	AV	Н	10.50	34.35	54.00	19.65
7323.00	36.50	PK	Н	14.31	50.81	74.00	23.19
7323.00	23.24	AV	Н	14.31	37.55	54.00	16.45
	•		High Cha	nnel: 2480 MH	Z	•	
2480.00	64.70	PK	Н	31.64	96.34	N/A	N/A
2480.00	58.26	AV	Н	31.64	89.90	N/A	N/A
2480.00	59.76	PK	V	31.64	91.40	N/A	N/A
2480.00	53.69	AV	V	31.64	85.33	N/A	N/A
2483.50	28.12	PK	Н	31.65	59.77	74.00	14.23
2483.50	16.25	AV	Н	31.65	47.90	54.00	6.10
4960.00	37.21	PK	Н	10.92	48.13	74.00	25.87
4960.00	24.52	AV	Н	10.92	35.44	54.00	18.56
7440.00	36.85	PK	Н	14.80	51.65	74.00	22.35
7440.00	23.91	AV	Н	14.80	38.71	54.00	15.29



Worst Test plots(GFSK High channel was the worst) **Horizontal:**

Vertical:



4.3 20 dB Emission Bandwidth:

Serial Number:	CR21090082-RF-S2	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

Environmental Conditions:							
Temperature: (°C)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2		

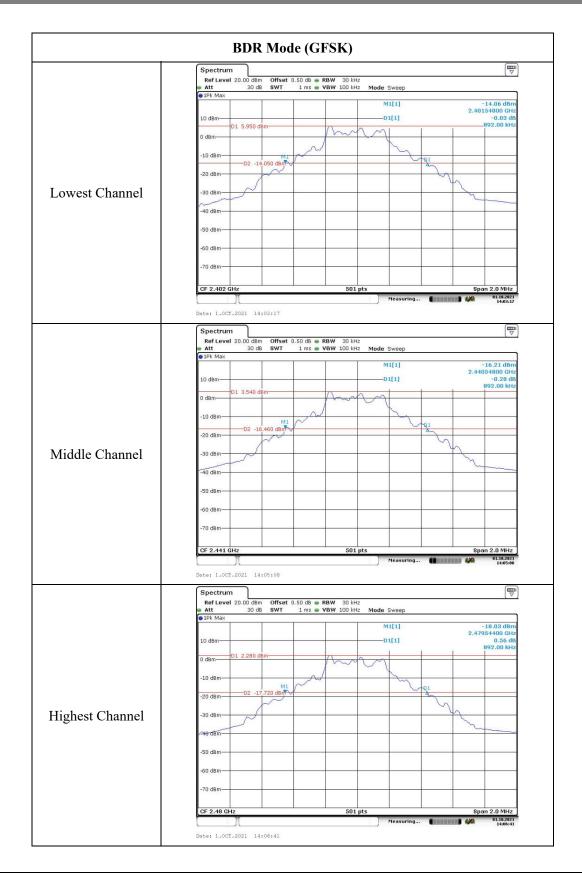
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode	Low	2402	0.892
(GFSK)	Middle	2441	0.892
(GFSK)	High	2480	0.892
	Low	2402	1.260
EDR Mode $(\pi/4-DQPSK)$	Middle	2441	1.264
$(\pi/4-DQFSK)$	High	2480	1.268
	Low	2402	1.256
EDR Mode	Middle	2441	1.260
(8DPSK)	High	2480	1.260







4.4 Channel Separation:

Serial Number:	CR21090082-RF-S2	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

Environmental Conditions:							
Temperature: (℃)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2		

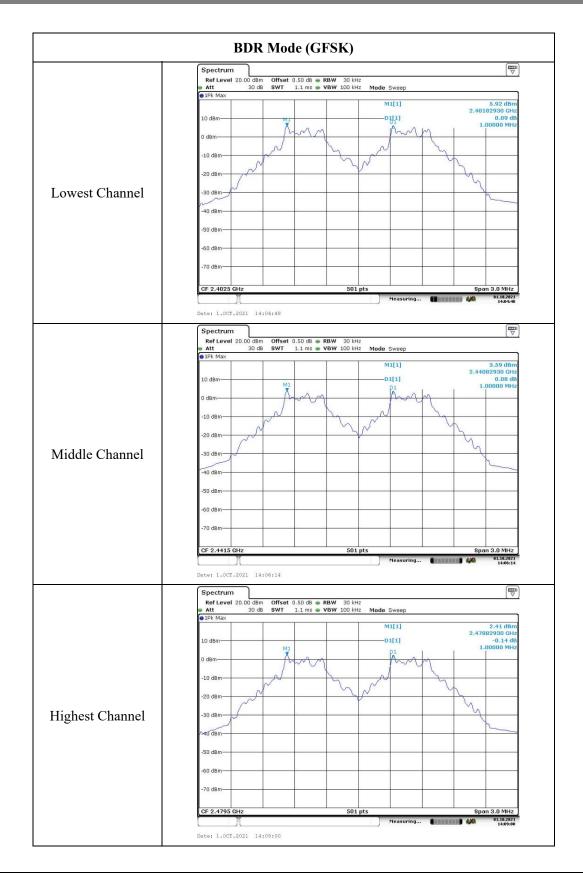
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

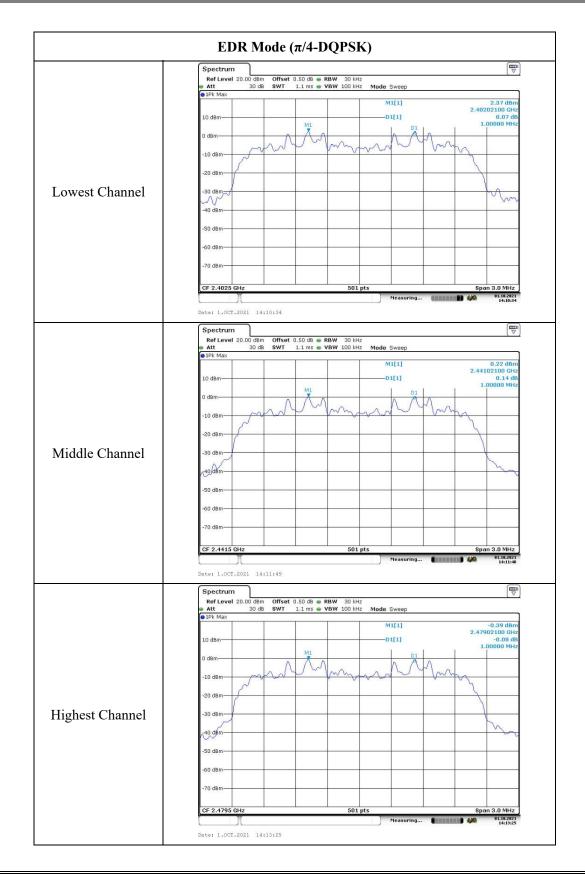
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

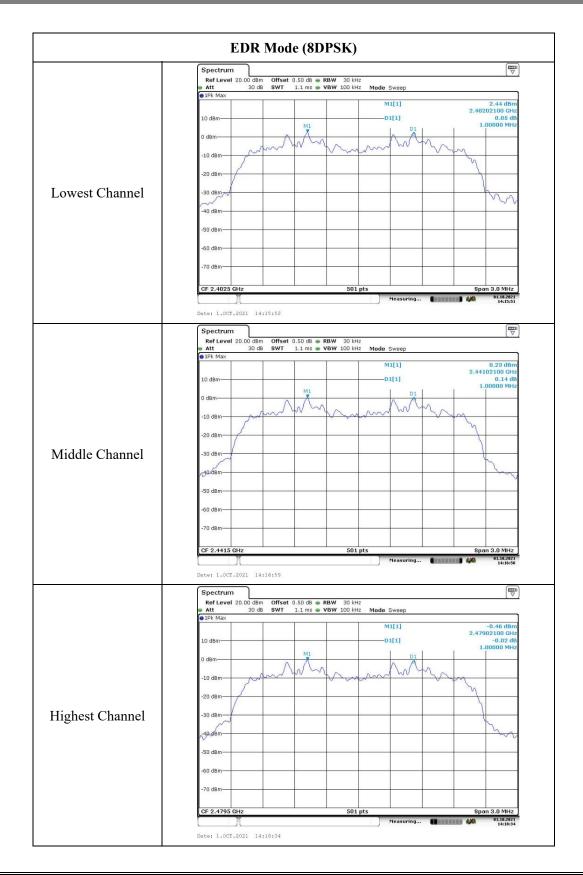
Test Data:

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
חסס	Low	2402	1.000	0.595
BDR (GFSK)	Middle	2441	1.000	0.595
(OFSK)	High	2480	1.000	0.595
EDD	Low	2402	1.000	0.840
EDR (π/4-DQPSK)	Middle	2441	1.000	0.845
(M4-DQISK)	High	2480	1.000	0.843
FDB	Low	2402	1.000	0.840
EDR (8DPSK)	Middle	2441	1.000	0.840
(odr SK)	High	2480	1.000	0.840



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4.5 Number Of Hopping Frequency:

Serial Number:	CR21090082-RF-S2	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

Environmental Conditions:						
Temperature: (℃)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2	

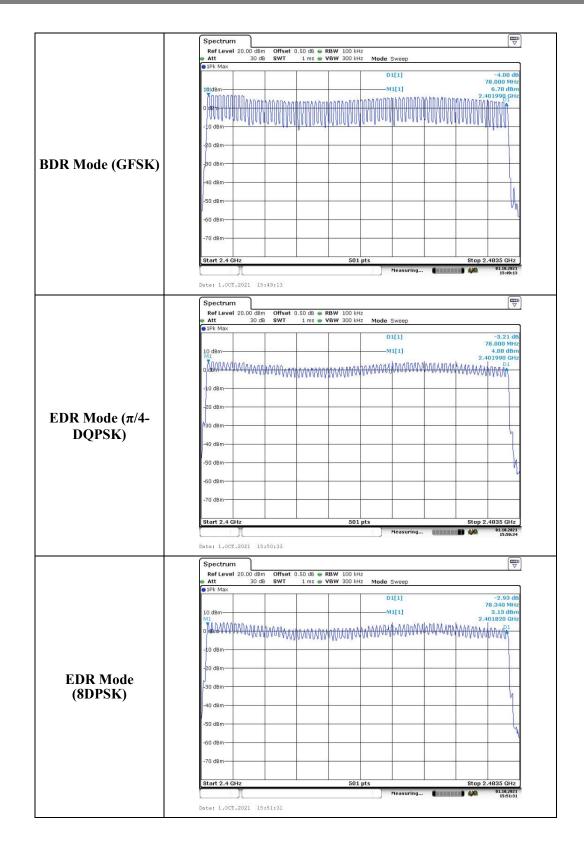
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test mode	Frequency Range (MHz)	Number of Hopping Channel	Limit
GFSK	2400-2483.5	79	≥15
π/4-DQPSK	2400-2483.5	79	≥15
8DPSK	2400-2483.5	79	≥15



4.6 Time Of Occupancy(Dwell Time):

Serial Number:	CR21090082-RF-S2	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

Environmental Conditions:						
Temperature: (°C)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2	

Test Equipment List and Details:

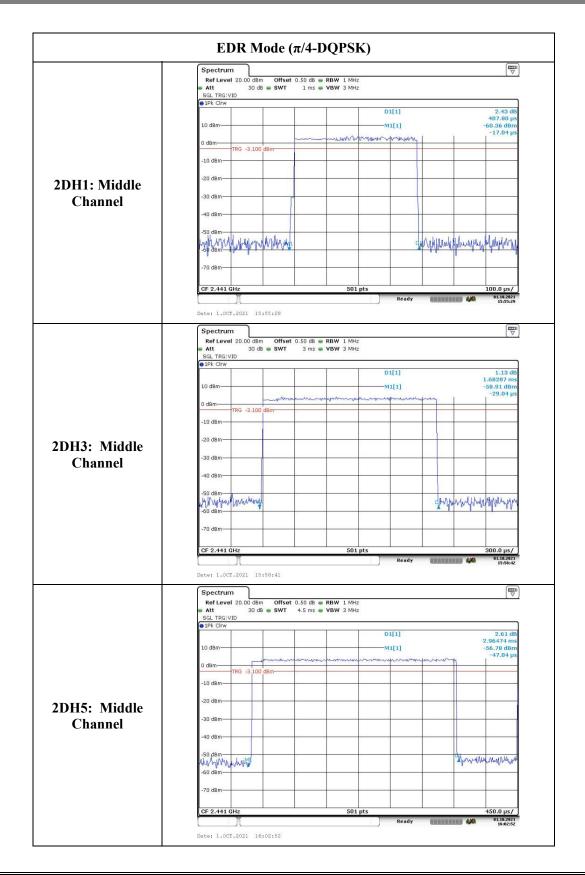
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

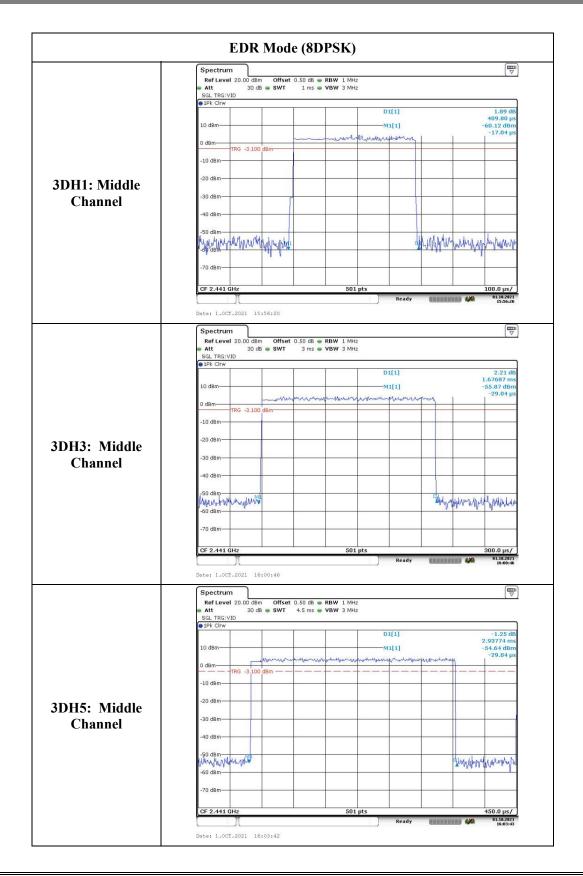
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Mode	Packet type	Channel	Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)	
	DH1	Middle	2441	0.414	0.132		
GFSK	DH3	Middle	2441	1.683	0.269		
	DH5	Middle	2441	2.947	0.314		
-/4	2DH1	Middle	2441	0.408	0.131		
π/4- DQPSK	2DH3	Middle	2441	1.683	0.269	0.4	
DQFSK	2DH5	Middle	2441	2.965	0.316		
	3DH1	Middle	2441	0.41	0.131		
8DPSK	3DH3	Middle	2441	1.677	0.268		
	3DH5	Middle	2441	2.938	0.313		
Note:							
DH1:Dwell time=Pulse time (ms) \times (1600/2/79) \times 31.6 s							
DH3:Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s							
DH5:Dwell t	ime=Pulse tin	$me (ms) \times (16)$	00/6/79) ×31.6 s				

DH1: Middle DH3: Middle DH3: Middle OB: Corr 00:0000 00:00000 00:00000	İ	Spectrum	SK)	
DH1: Middle Iso Correction Iso Correction Iso Correction 0 dam <t< th=""><th></th><th>Ref Level 20.00 dBm Offset 0.50 dB 🖷 RE</th><th></th><th>(*</th></t<>		Ref Level 20.00 dBm Offset 0.50 dB 🖷 RE		(*
DH1: Middle 0413 23 0 dm 000 3300 dm 0413 23 0 dm 000 3300 dm 0413 23 0 dm 000 3300 dm 0413 23 0 dm 0413 24 0413 23 0 dm 0413 0413 24 0413 24 0 dm 0413 0413 0413 0413 0413 0 dm 0413 0413 0414		SGL TRG: VID	5 MIN2	
DH1: Middle Channel 0 dm 0 dm <t< td=""><td></td><td>IPK CIW</td><td>D1[1]</td><td>-2.39 dB 413.80 µs</td></t<>		IPK CIW	D1[1]	-2.39 dB 413.80 µs
DH1: Middle 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 00000 0 000000 0 000000 0 0000000		10 dBm	M1[1]	-59.14 dBm -17.04 µs
DH1: Middle Channel Io 000000000000000000000000000000000000		0 dBm		
DH3: Middle Channel 0 dam 0 dam </td <td></td> <td></td> <td></td> <td>-</td>				-
DH3: Middle Channel a a a a a a a a a a a a a a a a a a a		-20 dBm		
Uname				
DH3: Middle Channel Social officer 0.50 db = 0800 1 14/2 20 db = 10/07.2021 15:51:40 DH3: Middle Channel Social officer 0.50 db = 0800 1 14/2 20 db = 000 1 1/2 20 db = 000 1/2 20 db = 000 1 1/2 20 db = 0000 1/2 20 db = 000 1 1/2 20 db = 000 1 1/2 20 db = 000	Channel			
DH3: Middle Channel Sol pts Sol pts <td></td> <td>-40 dBm</td> <td></td> <td></td>		-40 dBm		
PH3: Middle Channel Spectrum 0 dim Sp				Howard Harrista Anderson
DH3: Middle Channel Spectrum (CF 2.441 Gitz) Sol pts Incide (CF 2.441 Gitz)		a Solden of Mat Internation for		The What a compartie to the Proving R
PH3: Middle Channel Spectrum (CF 2.443 GHz) Sold = BWT Sold = BWT Sold = BWT Sold =		-70 dBm		
PH3: Middle Channel Spectrum (Distriction 200 dim photo Office 0.50 distriction distribution (Distriction dim photo Spectrum (Distriction dim photo Office (Distriction dim photo Office (Distribution dim photo <thoffice (Distribution dim photo Office (Distribution dim photo<td></td><td>CE 2 441 CHz</td><td>501 ntc</td><td>100.0 µs/</td></thoffice 		CE 2 441 CHz	501 ntc	100.0 µs/
Spectrum Spectrum Nitut 2000 dm 0ffset 0.50 db = RBW 1.19/cc SGL TEG:VD 0 db 0 J11 -3 OBM 0 db 0 J11 -3 -3 O dbm 0 J11 -3 -3 -3 O dbm 0 J11 -3 -3 -3 O dbm 0 dbm 0 J11 -3 -3 O dbm 0 dbm 0 dbm -3 -3 -3 -0 dbm 0 dbm 0 dbm -3 -3 -3 -3 -0 dbm 0 dbm 0 dbm -4 <				
PH3: Middle Aff Level 2.00 dem Offset 0.50 de # RBW 1 M/c; Statistical and the result of the r		Date: 1.0CT.2021 15:54:40		
OH3: Middle Channel ⁶ At ¹⁰ dbm ¹⁰ dbm				
DH3: Middle Channel 01(1)		👄 Att 30 dB 👄 SWT 3 ms 👄 VE		
DH3: Middle 0 dBm <!--</td--><td></td><td></td><td>1</td><td></td>			1	
DH3: Middle 0 dBm 10 dBm <td></td> <td>10.49</td> <td></td> <td>-3.37 dB 1.68287 ms -54.07 dBm</td>		10.49		-3.37 dB 1.68287 ms -54.07 dBm
DH3: Middle 10 d8m 10 d8m 10 d8m 10 d8m -20 d8m -30 d8m -40 d8m -40 d8m -40 d8m -40 d8m -50 d8m -40 d8m -50 d8m -40 d8m -50 d8m -40 d8m -50 d8m -50 d8m -40 d8m -50			MILIJ	-34.07 dBm -23.04 µs
DH3: Middle Channel -20 dbm -30 dbm -10 dbm -10 dbm -30 dbm -30 dbm -10 dbm -10 dbm -10 dbm -10 dbm -40 dbm -20 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -70 dbm -10 dbm -70 dbm -10 dbm -10 dbm -10 dbm -11 dbm -20 dbm -10 dbm		0 dBm		
Hiddle Channel -30 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm Dete: 1.0CT.2021 15:57:41 State: 1.0CT.2021 15:57:41 State: 1.0CT.2021 15:57:41 -70 dBm -70 dBm -70 dBm DH5: Middle Channel -10 dBm -10 dBm -10 dBm -70 dBm -70 dBm -70 dBm -70 dBm -10 dBm </td <td></td> <td>-10 dBm</td> <td></td> <td></td>		-10 dBm		
Channel 30 d8m 40 d8m 50 d8m 40 d8m 10 d8m 10 d8m 10 d8m 40 d8m 10 d8m 40 d8m 10 d8m 23 d8m 9 UW 3 M42 30 d8m 24 d8m 10 d8m 23 d8m 9 UW 3 M42 30 d8m 23 d8m 9 UW 3 M42 30 d8m 30 d8m 9 UW 3 M42 30 d8m 30 d8m 30 d8m 9 UW 3 M42 30 d8m	H3· Middle	-20 dBm		
Hodem -40 dem -50 dem		-30 dBm		
Spectrum Offset 0.50 dBm Offset 0.50 dBm Ready Middle 0 dBm 0	Channel	-40 dBm		
Spectrum Offset Sol pts 300.0 DH5: Middle -10 dBm -10 dBm -10 dBm -20 dBm -2		-50 dBm		
Spectrum Ready Middle 0H5: Middle -30 dBm -30 dBm -10 dBm -20 dBm -2		www.www.althull.www		Jun hum Marchalland
OF 2.441 GHz 501 pts 300.0 Date: 1.0CT.2021 15:57:41 Ready Immund 40 <				
Ready Ready <th< td=""><td></td><td>-/U dbm</td><td></td><td></td></th<>		-/U dbm		
DH5: Middle Channel		CF 2.441 GHz		300.0 µs/ 01.10.2021 15:57:42
Spectrum Ref Level 20.00 dBm Offset 0.50 dB = RBW 1 MHz Att 30 dB = SWT 4.5 ms = VBW 3 MHz ScL Trac; VID ● IFk Clrw 01[1] 4 10 dBm 0 dBm 01[1] -4 -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dB		Data: 1 007 2021 15-57-41	Ready	15:57:42
PH5: Middle Channel Odbm Offset 0.50 dB PBW 1 MHz 4.5 ms VBW 3 MHz VBW 3 MHz OH5: Middle Channel 0 dB 0 dB 0 dB 0 dB 0 dB				
SGL TRG: VID 91Pk Clrw 0 dBm 10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm		Ref Level 20.00 dBm Offset 0.50 dB 🖷 RE		
DH5: Middle -10 dBm		SGL TRG: VID	S MHZ	
DH5: Middle 10 dBm -10 dBm -29 -10 dBm -10 dBm -10 dBm -10 dBm -20 dBm -10 dBm -10 dBm -10 dBm -30 dBm -10 dBm -10 dBm -10 dBm -30 dBm -10 dBm -10 dBm -10 dBm			D1[1]	4.17 dB 2.94674 ms
DH5: Middle 0 dBm 100 dBm		10 dBm	M1[1]	-55.79 dBm -29.04 µs
DH5: Middle Channel		0 dBm		
Channel	DH5: Middle Channel			
Channel		-20 dBm		
		-30 dBm		
-50 dBm				
Ward All March 1990				
		-50 dBm		the transmitter but
-70 dBm-		-70 dBm		
CF 2.441 GHz 501 pts 450.0		CF 2.441 GHz	501 pts	450.0 μs/

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4.7 Peak Conducted Output Power:

Serial Number:	CR21090082-RF-S2	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

Environmental Conditions:						
Temperature: (℃)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2	

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY54080015	2021-07-22	2022-07-21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Mode	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limit (dBm)
	2402	7.06	21
BDR Mode (GFSK)	2441	5.55	21
(OI SIX)	2480	3.75	21
	2402	6.53	21
EDR Mode $(\pi/4-DQPSK)$	2441	5.01	21
	2480	3.63	21
	2402	6.74	21
EDR Mode (8DPSK)	2441	5.37	21
	2480	3.91	21

4.8 100 kHz Bandwidth of Frequency Band Edge:

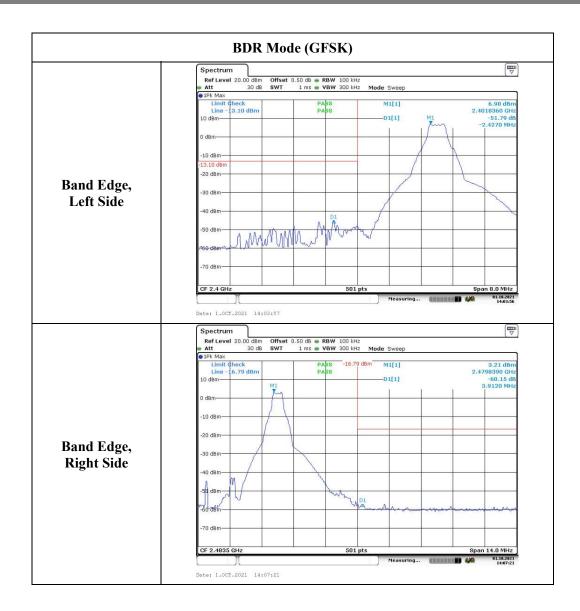
Serial Number:	CR21090082-RF-S2	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

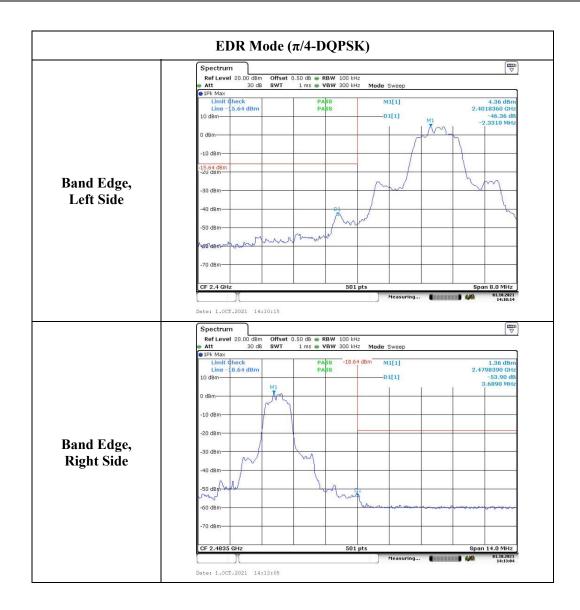
Environmental Conditions:					
Temperature: (℃)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2

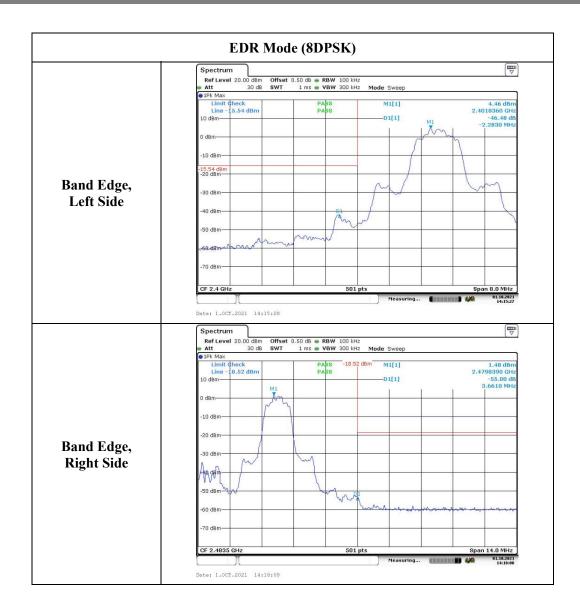
Test Equipment List and Details:

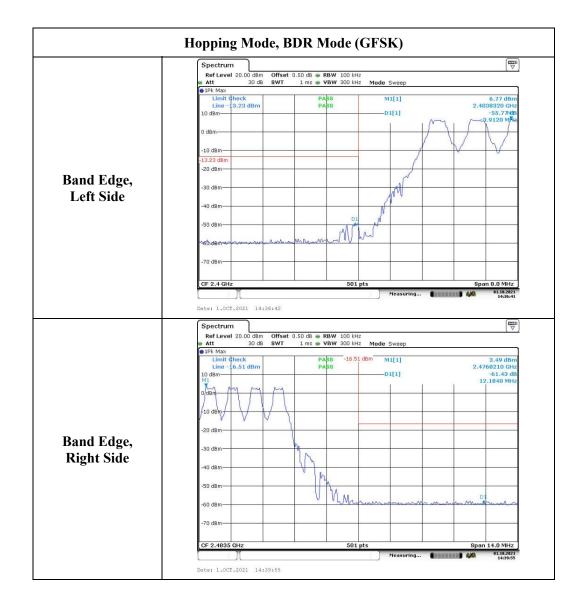
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

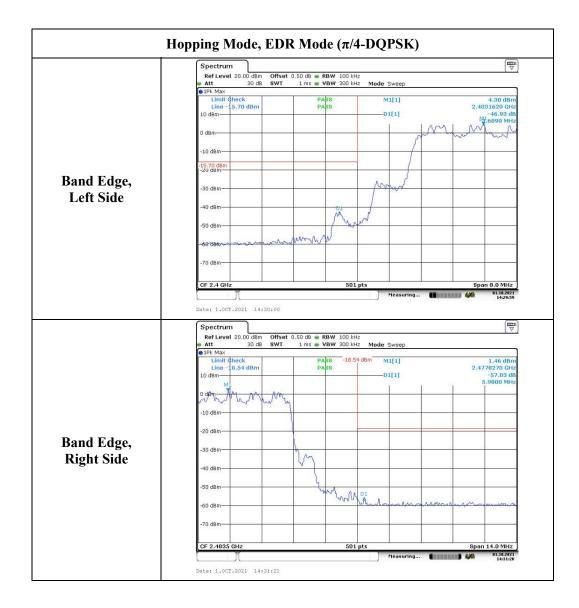
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

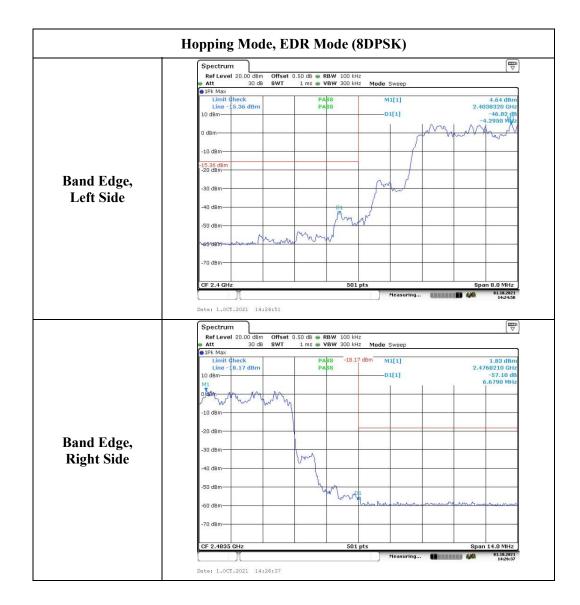












5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

FCC §15.247 (i)

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See \$1.1307(b)(1) of this chapter.

5.2 Procedure

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

- mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
 - 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

5.3 Measurement Result

The max conducted power including tune-up tolerance is 7.5 dBm (5.62 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][\sqrt{f} (GHz)] =5.62/5*($\sqrt{2.480}$) = 1.8< 3.0

Result: Compliance. The stand-alone SAR evaluation is not necessary.

***** END OF REPORT *****