



## Full

# **TEST REPORT**

## No. I16D00272-RFB

## For

Client :	Verykool USA Inc
Production :	Mobile Phone
Model Name :	s5027,s5028
FCC ID:	WA6S5027
Hardware Version:	R615-MB-V1.0
Software Version:	S4513_VK_Generic_Dual_SW_1.0
Issued date:	2017-02-21

#### Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of ECIT Shanghai.

#### **Test Laboratory:**

ECIT Shanghai, East China Institute of Telecommunications

Add: 7-8F, G Area, No.668, Beijing East Road, Huangpu District, Shanghai, P. R. China Tel: (+86)-021-63843300, E-Mail: <u>welcome@ecit.org.cn</u>



Revisio	n Version

Report Number	Revision	Date	Memo
I16D00272-RFB	00	2017-02-21	Initial creation of test report



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#### 1. Test Laboratory

#### 1.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications		
Address:	7-8F, G Area, No. 668, Beijing East Road, Huangpu District,		
	Shanghai, P. R. China		
Postal Code:	200001		
Telephone:	(+86)-021-63843300		
Fax:	(+86)-021-63843301		

#### **1.2. Testing Environment**

Normal Temperature:	<b>15-35</b> ℃
Extreme Temperature:	-10/+55℃
Relative Humidity:	20-75%

#### 1.3. Project data

Project Leader:	Xu Yuting
Testing Start Date:	2016-12-26
Testing End Date:	2017-02-15

#### 1.4. Signature

张净羽

Zhang Shiyu (Prepared this test report)

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Ding Li (Reviewed this test report)

Zheng Zhongbin Director of the laboratory (Approved this test report)



## 2. Client Information

## 2.1. Applicant Information

Company Name:	Verykool USA Inc
Address:	3636 Nobel Drive, Suite 325, San Diego, CA92122 USA
Telephone:	+1-858-373-1635
Postcode:	CA92122

#### 2.2. Manufacturer Information

Company Name:	Fortune Ship
Addrocc:	6/F, Kanghesheng Building, No.1 Chuangsheng Road,
Address:	Nanshan District, Shenzhen, Guangdong, China
Telephone:	0755-26397320
Postcode:	518055



## 3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

### 3.1. About EUT

EUT Description	Mobile Phone
Model name	s5027,s5028
UMTS Frequency Band	WCDMA BandII and V
GSM Frequency Band	GSM850/900/1800/1900
WLAN Frequency	2412MHz-2462MHz
WLAN Channel	Channel1-Channel11
WLAN type of modulation	802.11b:DSSS
	802.11g/n: OFDM
Extreme Temperature	-10/+55℃
Nominal Voltage	3.8V
Extreme High Voltage	4.2V
Extreme Low Voltage	3.4V

Note: Photographs of EUT are shown in ANNEX A of this test report.

#### 3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N01	352139069743623	R615-MB-V1.0	S4513_VK_Generic_Dua	2016-12-26
			1_SW_1.0	
N08	352273017386340	R615-MB-V1.0	S4513_VK_Generic_Dua	2016-12-26
			1_SW_1.0	

\*EUT ID: is used to identify the test sample in the lab internally.

#### 3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	RF cable	
AE2		

\*AE ID: is used to identify the test sample in the lab internally.

#### 3.4. Main Supply of EUT

Part Name	Model Name	Supplier	Remark
Camera	SP5506	Shinetech	5 MP front camera

#### **3.5.** Secondary Supply of EUT

Part Name	Model Name	Supplier	Remark
Camera	GC0409	Shinetech	0.3 MP front camera



## 4. Reference Documents

#### 4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15,Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.	Jun,2016 Edition
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013



## 5. Summary of Test Results

A brief summary of the tests carried out is shown as following.

Measurement Items	Sub-clause of Part15C	Sub-claus e of IC	Verdict
Maximum Peak Output Power	15.247(b)	/	Р
Peak Power Spectral Density	15.247(d)	/	NA
20dB Occupied Bandwidth	15.247(a)	/	Р
Band Edges Compliance	15.247(b)	/	Р
Transmitter Spurious Emission-Conducted	15.247	/	Р
Transmitter Spurious Emission-Radiated	15.247,15.209,	/	Р
AC Powerline Conducted Emission	15.107,15.207	/	Р

Please refer to part 5 for detail.

The measurements are according to and ANSI C63.10.

Terms used in Verdict column

Р	Pass, the EUT complies with the essential requirements in the standard.		
NP	Not Perform, the test was not performed by ECIT.		
NA	Not Applicable, the test was not applicable.		
F	Fail, the EUT does not comply with the essential requirements in the standard.		

Test Conditions

Tnom	Normal Temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage
Vmin	Low Voltage
Vmax	High Voltage
Hnom	Norm Humidity
Anom	Norm Air Pressure



For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	Tnom	<b>22</b> ℃
Voltage	Vnom	3.7V
Humidity	Hnom	32%
Air Pressure	Anom	1010hPa

Note:

a. All the test data for each data were verified, but only the worst case was reported.

b.The GFSK,  $\pi/4$  DQPSK and 8DPSK were set in DH1 for GFSK, 2-DH1 for  $\pi/4$  DQPSK, 3-DH1 for 8DPSK.

c.The DC and low frequency voltages' measurement uncertainty is ±2%.

#### 5.1. Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with section 3.

The test results of this test report relate exclusively to the item(s) tested as specified in section 5.

The following deviation from, additions to, or exclusions from the test specifications have been made. See section 3.

#### 5.2. Statements

The product name s5027,s5028, supporting GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/ WLAN/BT, manufactured by Fortune Ship, is a new product for testing.

ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.



#### 6. Test result

#### 6.1. Peak Output Power-Conducted

#### 6.1.1 Measurement Limit

Standard	Limit (dBm)
FCC Part 15.247(b)(1)	< 30

#### 6.1.2 Test Condition:

Hopping Mode	RBW	VBW	Span	Sweeptime
Hopping OFF	3MHz	10MHz	9MHz	Auto

#### 6.1.3 Test procedure

The measurement is according to ANSI C63.10 clause 7.8.5.

- 1. The output power of EUT was connected to the spectrum analyzer and CBT32 by cable and divide. The path loss was compensated to the results for each measurement.
- 2. Enable EUT transmitter maximum power continuously.
- 3. Measure the conducted output power and record the results it.

#### 6.1.4 Measurement Results:

#### For GFSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
Peak Conducted	5.14	4.86	4.90	Р
Output Power (dBm)	Fig.1	Fig.2	Fig.3	F

#### For π/4 DQPSK

Channel	Ch0 2402	Ch39 2441	CH78 2480	Conclusion
Channel	MHz	MHz	MHz	Conclusion
Peak	6.04	5 72	5 70	
Conducted	0.04	5.72	5.70	D
Output Power	Fig 4	Fig 5	Fig 6	I
(dBm)	1 19.4	Tig.5	Tig.0	
For 8DPSK				

Channel	Ch0 2402	Ch39 2441	CH78 2480	Conclusion
Channel	MHz	MHz	MHz	Conclusion

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Peak Conducted	6.17	5.82	5.85	D
Output Power (dBm)	Fig.7	Fig.8	Fig.9	

**Conclusion: PASS** 

Test graphs an below



Date: 10.FEB.2017 13:09:43



Date: 10.FEB.2017 13:09:58

Fig.2 Peak Conducted Output Power CH39, DH1



Date: 10.FEB.2017 13:10:28

#### Fig.4 Peak Conducted Output Power CH0, 2DH1



900 kHz/

Fig.6 Peak Conducted Output Power CH78, 2DH1

Center 2.48 GHz

Date: 10.FEB.2017 13:10:58

Span 9 MHz



Date: 10.FEB.2017 13:11:27

#### Fig.8 Peak Conducted Output Power CH39, 3DH1





Fig.9 Peak Conducted Output Power CH78, 3DH1

### 6.2. Frequency Band Edges-Conducted

#### 6.2.1 Measurement Limit:

Standard	Limited(dBc)
FCC 47 CFR Part 15.247(d)	>20

#### 6.2.2 Test procedure

The measurement is according to ANSI C63.10 clause 7.8.6.

- 1. Connect the EUT to spectrum analyzer.
- Set RBW=100KHz, VBW=300KHz, span more than 1.5 times channel bandwidth (2MHz).
- 3. Detector =peak, sweep time=auto couple, trace mode=max hold.
- 4. Allow sweep to continue until the trace stabilizes.

#### 6.2.3 Measurement results

#### For GFSK

Channel	Hopping	Band Edge Power (dBc)	Conclusion
0	Hopping OFF	Fig.10	Р
0	Hopping ON	Fig.11	Р



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70	Hopping OFF	Fig.12	Р
78	Hopping ON	Fig.13	Р

#### For $\pi/4$ DQPSK

Channel	Hopping	Band Edge Power (dBc)	Conclusion
0	Hopping OFF	Fig.14	Р
	Hopping ON	Fig.15	Р
70	Hopping OFF	Fig.16	Р
10	Hopping ON	Fig.17	Р

#### For 8DPSK

Channel	Hopping	Band Edge Power (dBc)	Conclusion
0	Hopping OFF	Fig.18	Р
	Hopping ON	Fig.19	Р
78	Hopping OFF	Fig.20	Р
	Hopping ON	Fig.21	Р

#### **Conclusion: PASS**

#### Test graphs an below



Date: 10.FEB.2017 13:12:54

#### Fig.10 Frequency Band Edge: GFSK, Ch0, Hopping OFF



Date: 10.FEB.2017 13:15:01



Date: 10.FEB.2017 13:21:10

Fig.12 Frequency Band Edge: GFSK, Ch78, Hopping OFF



Date: 10.FEB.2017 13:23:17



Date: 10.FEB.2017 13:15:39

Fig.14 Frequency Band Edge:  $\pi/4$  DQPSK, Ch0, Hopping OFF



Date: 10.FEB.2017 13:17:46



Date: 10.FEB.2017 13:23:55

Fig.16 Frequency Band Edge:  $\pi/4$  DQPSK, Ch78, Hopping OFF



Date: 10.FEB.2017 13:26:02



Date: 10.FEB.2017 13:18:24

#### Fig.18 Frequency Band Edge: 8DPSK, Ch0, Hopping OFF



Date: 10.FEB.2017 13:20:31



Date: 10.FEB.2017 13:26:40

Fig.20 Frequency Band Edge: 8DPSK, Ch78, Hopping OFF



Date: 10.FEB.2017 13:28:48



### 6.3. Conducted Emission

#### 6.3.1 Measurement Limit:

Standard	Limit
FCC 47 CFR Part15.247 (d)	20dB below peak output power in 100KHz bandwidth

#### 6.3.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.8.

- 1. Connect the EUT to spectrum analyzer.
- 2. Set RBW=100KHz, VBW=300KHz.
- 3. Detector =peak, sweep time=auto couple, trace mode=max hold.

#### 6.3.3 Measurement Results:

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	Center Freq.	Fig.22	Р
	30MHz~26GHz	Fig.23	Р
Ch39 2441MHz	Center Freq.	Fig.24	Р
	30MHz~26GHz	Fig.25	Р



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Ch78 2480MHz	Center Freq.	Fig.26	Р
	30MHz~26GHz	Fig.27	Р

#### For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
	Center Freq.	Fig.28	Р
	30MHz~26GHz	Fig.29	Р
Ch20 2441MH-	Center Freq.	Fig.30	Р
Ch39 2441MHz	30MHz~26GHz	Fig.31	Р
Ch78 2480MHz	Center Freq.	Fig.32	Р
	30MHz~26GHz	Fig.33	Р

#### For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MH-	Center Freq.	Fig.34	Р
	30MHz~26GHz	Fig.35	Р
Ch20 2444MH-	Center Freq.	Fig.36	Р
Ch39 2441MHz	30MHz~26GHz	Fig.37	Р
Ch79 2490MU-	Center Freq.	Fig.38	Р
Cn78 2480MHZ	30MHz~26GHz	Fig.39	Р

Conclusion: PASS Test graphs as below



Date: 10.FEB.2017 13:29:48



Date: 10.FEB.2017 13:30:14

Fig.23 Conducted spurious emission: GFSK, Ch0, 30MHz~26GHz



Date: 10.FEB.2017 13:30:41



Date: 10.FEB.2017 13:31:07

Fig.25 Conducted spurious emission: GFSK, Ch39, 30MHz~26GHz



Date: 10.FEB.2017 13:31:34



Date: 10.FEB.2017 13:31:59

Fig.27 Conducted spurious emission: GFSK, Ch78, 30MHz~26GHz



Date: 10.FEB.2017 13:32:27



Date: 10.FEB.2017 13:32:53

Fig.29 Conducted spurious emission:  $\pi/4$  DQPSK, Ch0, 30MHz~26GHz



Date: 10.FEB.2017 13:33:21



Date: 10.FEB.2017 13:33:46

Fig.31 Conducted spurious emission:  $\pi/4$  DQPSK, Ch39, 30MHz~26GHz



Date: 10.FEB.2017 13:34:14



Date: 10.FEB.2017 13:34:40

Fig.33 Conducted spurious emission:  $\pi/4$  DQPSK, Ch78, 30MHz~26GHz



Date: 10.FEB.2017 13:35:08



Date: 10.FEB.2017 13:35:34

Fig.35 Conducted spurious emission: 8DPSK, Ch0, 30MHz~26GHz



Date: 10.FEB.2017 13:36:02



Date: 10.FEB.2017 13:36:27

Fig.37 Conducted spurious emission: 8DPSK, Ch39, 30MHz~26GHz



Date: 10.FEB.2017 13:36:54



Date: 10.FEB.2017 13:37:20

Fig.39 Conducted spurious emission: 8DPSK, Ch78, 30MHz~26GHz

#### 6.4. Radiated Emission

Standard	Limit	
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power	

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a),



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must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)). Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

#### 6.4.2 Test Method

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2009 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/1MHz	15
4000~18000	1MHz/1MHz	40
18000~26500	1MHz/1MHz	20



#### 6.4.3 Measurement Results:

A "reference path loss" is established and  $A_{Rpi}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss. The measurement results are obtained as described below:

 $A_{Rpi}$  = Cable loss + Antenna Gain-Preamplifier gain

Result= $P_{Mea} + A_{Rpi}$ 

#### First Supply

#### For GFSK

Channel	Frequency Range	Test Results	Conclusion
	30MH~1GHz	Fig.40	Р
Ch0 2402MHz	1GHz~3GHz Fig.41		Р
	3GHz~18GHz Fig.42		Р
Power	2.38GHz~2.4GHz	Fig.43	Р
Power	2.45GHz~2.5GHz	Fig.44	Р

#### For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
	30MH~1GHz	Fig.45	Р
Ch0 2402MHz	1GHz~3GHz Fig.46		Р
	3GHz~18GHz Fig.47		Р
Power	2.38GHz~2.4GHz	Fig.48	Р
Power	2.45GHz~2.5GHz	Fig.49	Р

#### For 8DPSK

Channel	Frequency Range Test Results		Conclusion
	30MH~1GHz Fig.50		Р
Ch0 2402MHz	1GHz~3GHz Fig.51		Р
	3GHz~18GHz Fig.52		Р
Power	2.38GHz~2.4GHz	Fig.53	Р
Power	2.45GHz~2.5GHz	Fig.54	Р



Second Supply For 8DPSK

Channel	Frequency Range Test Results		Conclusion
	30MH~1GHz	Fig.55	Р
Ch0 2402MHz	1GHz~3GHz	Fig.56	Р
	3GHz~18GHz	Fig.57	Р
Power	2.38GHz~2.4GHz	Fig.58	Р
Power	2.45GHz~2.5GHz	Fig.59	Р

#### First Supply GFSK Ch0 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.261696	13.19	-25.9	39.09	V
35.6564	7.44	-25.8	33.24	V
51.599772	5.72	-25	30.72	V
107.772248	7.05	-23.7	30.75	V
138.301072	2.75	-27.3	30.05	V
348.227632	10.55	-18.5	29.05	V

#### GFSK Ch0 1GHz-3GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2334.1728	57.84	7.5	50.34	V
2824.566346	53.73	10.6	43.13	Н
2866.448077	54.12	11	43.12	Н
2898.01	54.16	11.3	42.86	V
2971.348846	53.89	11.5	42.39	Н
2997.950192	54.69	11.8	42.89	V



GFSK Ch0 3GHz-18GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
4959.675267	53.28	1	52.28	V
14601.95133	55.03	20.5	34.53	Н
15385.3546	56.99	23	33.99	Н
16120.85113	58.74	24.9	33.84	V
16779.8132	59.77	26.9	32.87	Н
17620.7446	62.05	29.3	32.75	Н

#### $\pi/4$ DQPSK Ch0 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.003936	11.56	-25.9	37.46	V
35.394732	7.97	-25.8	33.77	V
148.120376	2.92	-27.1	30.02	V
489.642596	14.26	-15	29.26	V
555.209084	15.84	-13.2	29.04	Н
881.651616	21.23	-7.7	28.93	V

#### $\pi/4$ DQPSK Ch0 1GHz-3GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2334.362	56.76	7.5	49.26	V
2809.923269	53.3	10.5	42.8	Н
2865.241346	53.5	11	42.5	Н
2900.788846	53.74	11.3	42.44	Н
2943.696731	54.74	11.2	43.54	Н
2989.019423	54.72	11.7	43.02	V



 $\pi/4$  DQPSK Ch0 3GHz-18GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
4959.6222	53.35	1	52.35	V
10964.47773	51.61	14	37.61	Н
12741.67627	53.46	16.6	36.86	V
14301.9912	55.38	20.8	34.58	V
15895.44393	58.33	24.7	33.63	V
17598.9288	61.91	29.6	32.31	V

#### 8DPSK Ch0 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
32.16776	8.33	-26	34.33	V
33.221296	11.6	-25.9	37.5	V
34.605196	10.89	-25.9	36.79	V
71.13608	2.35	-28.2	30.55	V
82.5915	3.55	-27.5	31.05	Н
132.888104	2.78	-27.2	29.98	V

#### 8DPSK Ch0 1GHz-3GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2333.8364	55.84	7.5	48.34	V
2799.947885	52.94	10.4	42.54	Н
2862.609423	53.26	11	42.26	V
2902.881731	54.53	11.3	43.23	V
2934.745769	54.31	11.3	43.01	Н
2974.968077	53.58	11.5	42.08	V



8DPSK Ch0 3GHz-18GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
4960.174333	48.05	1	47.05	Н
11523.80087	52.52	14.6	37.92	Н
13060.49693	52.62	16.8	35.82	V
14915.73627	56.53	22.1	34.43	V
16072.21347	59.67	24.9	34.77	Н
17889.05053	63.7	29.6	34.1	Н

#### Second Supply 8DPSK Ch0 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
32.446664	8.2	-26.9	35.1	V
34.01212	10.41	-26.8	37.21	V
111.390624	6.01	-24.7	30.71	Н
189.255816	4.31	-25.7	30.01	V
713.0457	17.29	-12.1	29.39	V
833.45686	19	-10	29	V

#### 8DPSK Ch0 1GHz-3GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2553.517116	51.68	8.4	43.28	Н
2687.588654	52.66	9.4	43.26	V
2746.401154	52.68	9.4	43.28	V
2819.013269	53.1	10.2	42.9	V
2890.925192	53.29	10.8	42.49	V
2955.904423	54.28	10.8	43.48	Н



#### 8DPSK Ch0 3GHz-18GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
4803.573267	63.62	0.6	63.02	Н
14294.1528	55.8	20.7	35.1	Н
15471.22033	56.78	23.3	33.48	V
16062.57333	59.15	24.9	34.25	Н
16861.88847	59.92	27.2	32.72	Н
17555.99633	62.23	29.4	32.83	Н

Note: all the test data shown was peak detected. Conclusion: PASS First Supply Test graphs as below:



Fig.40 Radiated emission: GFSK, Ch0, 30MHz~1GHz