



**FCC Test Report** 

<b>FCC EVALUAT</b>	FCC EVALUATION REPORT FOR CERTIFICATE						
Project Reference No.	282967						
Product	Purekeys Wireless Mouse						
Brand Name	Purekeys						
Model	PK-MRF-01						
Alternate Model	N/A						
Tosted according to	FCC Rules and Regulations Part 15 Subpart C 2013, 15.249						
Tested according to	ANSI C63.4-2009 and ANSI C63.10-2013						

Tested in period	2015-04-10 to 2015-04-19	
Issued date	2015-04-21	
Name and address	Nemko	
of the Test House	Nemko Shanghai Ltd. Shenzhe Unit CD, Floor 10, Tower 2, Ke District, Shenzhen, China	en Branch fa Road 8#, Hi-Technology Park, Nanshan
	Phone: +86 755 8221 0420	Fax: +86 755 8221 3363
Tested by	Jun Wong	2015-04-21
	Juno Wong	date
Verified by	Zone Peng	2015-04-22
	Zone Peng	date

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## 1. Client Information

## 1.1 Applicant

Company Name: Purekeys BV

Company Address: Rouaanstraat 23 C, 9723 CC Groningen, The Netherlands

## 1.2 Manufacturer

Company Name: Zhuhai Heng Yu New Technology Company Limited

Company Address: Heng Ke Technology Campus, Jin Hai Avenue, Sanzao,

Jinwan District, Zhuhai, Guangdong PRC

## 1.3 Scope

•Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under FCC part 15.249.



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## 2. Equipment under Test (EUT)

### 2.1 Identification of EUT

Category: DXX

Name: Purekey Wireless Mouse

Model Name: PK-MRF-01

Alternate model: N/A

Brand name: Purekeys

2.2 Detail spec:

Operation Frequency: 2408 MHz -2474MHz

Type of Modulation : GFSK

Antenna Type: Integral Antenna

Antenna Number : 1 Antenna gain: 0dBi Channel number: 67 Data rate: 1Mbps

Rating(s): 2X1.5VDC AAA battery 2pcs

## 2.3 Additional Information Related to Testing

CH LOW:2408MHz CH MID:2440MHz CH HIGH:2474MHz

Remark: Only the worse case found by prescan is listed



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### 3. General Test Conditions

### 3.1 Location

Global United Technology Services Co., Ltd. -- Nemko ELA 632

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

FCC Registration No.:600491

Note: all test are witnessed by NEMKO engineer

### 3.2 Operating Environment

All tests and measurements were performed in a shielded enclosure or a controlled environment suitable for the tests conducted. The climatic conditions in the test area are automatically controlled and recorded continuously.

Parameters	Recording during test	Accepted deviation
Ambient temperature	24-25°C	15 − 35 °C
Relative humidity	50-55%	30 - 60%
Atmospheric pressure	101.2 kPa -101.3kPa	86-106kPa

## 3.3 Operating During Test

Test mode

TM1: TX MODE continuous transmitter

Remark: New batteries used during testing.

## 3.4 Test Equipment

The test equipments used in testing are calibrated on a regular basis. For most of the testing equipments accredited calibration is conducted once a year. For certain equipment the calibration interval is longer. Between the calibrations all test equipment are controlled and verified on a regular basis. The test equipments used are defined in each test section of this report.

## 4. Measurement Uncertainty

The Measurement Uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 with the confidence level of 95 %.

Conducted Emission: 0.15~30MHz 3.45dB
Radiated Emission: 30MHz~1000MHz 4.50dB
1GHz-18GHz 4.70dB



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## 5. Radiated Electromagnetic Disturbances Test

#### 5.1 Test Procedure

#### For below 1GHz:

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast.

The EUT were rotated 0 to 360 degree and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. The test result are reported as below.

RBW=120 kHz; VBW=300KHz QP detector, The frequency range from 30MHz to 1000MHz is checked.

#### For above 1GHz:

The EUT was placed on a non-metallic table, 150 cm above the ground plane inside a full-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast.

The EUT were rotated 0 to 360 degree and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. The test result are reported as below.

The frequency range from 1GHz to 25GHz(10<sup>th</sup> harmonics) is checked. RBW=1MHz;

VBW=1MHz,PK detector for peak emissions measurement above 1GHz

RBW=1MHz; VBW=3MHz, RMS detector for average emissions measurement above 1GHz.

#### For fundamental:

RBW=3MHz, VBW=10MHz, PK Detector for peak emissions measurement.

RBW=3MHz; VBW=10MHz, RMS detector for average emissions measurement.

## 5.2 Measurement Equipment

	Equipment Calibration due		Туре	Serial No.	Manufacturer
$\boxtimes$	EMI Test Receiver	Jul. 04 2015	ESU26	GTS203	R&S
$\boxtimes$	BiConiLog Antenna	Feb. 26 2016	VULB9163	GTS214	SCHWARZBECK
$\boxtimes$	Horn Antenna	Feb. 26 2016	BBHA9120D	GTS215	SCHWARZBECK
$\boxtimes$	Horn Antenna	Feb. 26 2016	BBHA9170	GTS216	SCHWARZBECK
$\boxtimes$	Coaxial Cable	Apr. 01 2016	N/A	GTS213	GTS
$\boxtimes$	Coaxial Cable	Apr. 01 2016	N/A	GTS211	GTS
$\boxtimes$	Coaxial cable	Apr. 01 2016	N/A	GTS210	GTS
$\boxtimes$	Coaxial Cable	Apr. 01 2016	N/A	GTS212	GTS
$\boxtimes$	Amplifier	Jul. 04 2015	8347A	GTS204	HP

### 5.3 Test Result

Remark: If PK value is lower than AV limit , only show PK diagram as below.

From 18GHz to 25GHz, Spurious Emission can not be found .

For Radiated emission test: The EUT have been tested at X,Y,Z axial direction, Only list the

worse mode.

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Test Mode	Freq range	Channel	Test ANT. polarity	Diagram	Test Result
	30MHz-1GHz	CH LOW	Н	5-1	Pass
	30MHz-1GHz	CH LOW	V	5-2	Pass
TX mode:	30MHz-1GHz	CH MID	Н	5-3	Pass
GFSK	30MHz-1GHz	CH MID	V	5-4	Pass
	30MHz-1GHz	CH HIGH	Н	5-5	Pass
	30MHz-1GHz	CH HIGH	V	5-6	Pass
	1GHz-18GHz:	CH LOW	Н	5-7	Pass
	1GHz-18GHz:	CH LOW	V	5-8	Pass
TX mode:	1GHz-18GHz:	CH MID	Н	5-9	Pass
GFSK	1GHz-18GHz:	CH MID	V	5-10	Pass
	1GHz-18GHz:	CH HIGH	Н	5-11	Pass
	1GHz-18GHz:	CH HIGH	V	5-12	Pass

### NOTES:

- 1.All modes were measured and only the worst case emission was reported.
- 2. H =Horizontal V=Vertical
- 3. Emission = Reading +Antenna Factor + Cable Loss -Amp Factor
- 4. Emission level dB  $\mu$  V = 20 log Emission level  $\mu$  V/m
- 5. The lower limit shall apply at the transition frequencies.
- 6. The fundamental and harmonics field strength emission from intentional radiators within the frequency band 2400-2483.5 MHz should comply with:

Field strength of Fundamental	94dBuV/m for AV (@3m)
	114dBuV/m for peak (@3m)
Field strength of Harmonics	54dBuV/m for AV (@3m)
	74dBuV/m for peak (@3m)

7. Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209<sup>#</sup>, whichever is the lesser attenuation.

Remark: The limit of "# "of 3 meter distance is

Frequency	Distance	Field	strength	Distance	Field strength
MHz	m	$\mu V/m$ dB $\mu V/m(QP)$		m	dBμV/m(QP)
30-88	3	100 40.0		10	30.0
88-216	3	150 43.5		10	33.5
216-960	3	200	46.0	10	36.0
960-1000	3	500	54.0	10	44.0
Above 1000	3	74.0 dBμV/m (PK)		/	/
		54.0 dl	BµV/m (AV)		



Reference No.: 282967

## 15.205 Restricted bands:

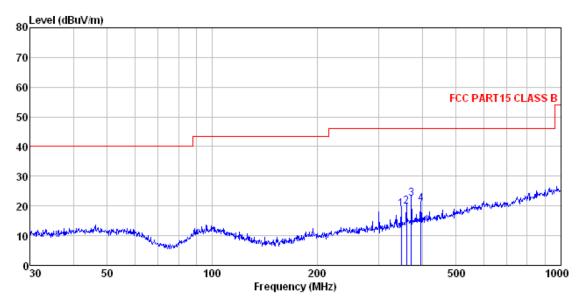
MHz	MHz	MHz	GHz		
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15		
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46		
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75		
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5		
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2		
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5		
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7		
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4		
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5		
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2		
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4		
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12		
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0		
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8		
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5		
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )		
13.36 - 13.41					

 $<sup>^{1}</sup>$  Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.  $^{2}$  Above 38.6





5.3.1 Diagram 5-1



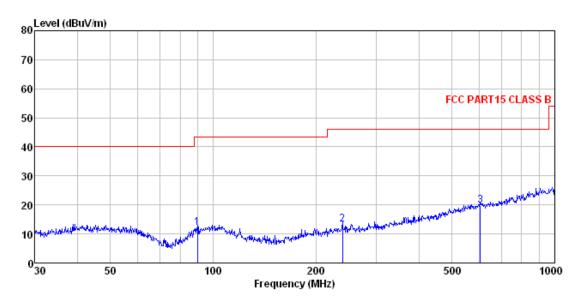
Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL
Job No. : 0355RF
Test Mode : TX-2408MHz
Test Engineer: Chem

	Freq	Read	Antenna Factor						Remark
	MHz	dBm	<u>dB</u> /m	<u>dB</u>	<u>d</u> B	-dBm/m	_dBm/m	<u>d</u> B	
1 2 3 4	348.027 360.448 372.005 396.242	30.41 32.95	16.43 16.53	2.67 2.72	29.69 29.63	19.82 22.57	46.00 46.00	-26.18 -23.43	QP QP





## 5.3.2 Diagram 5-2



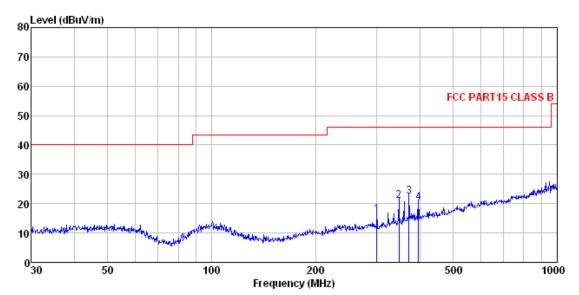
Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-2013M VERTICAL
Job No. : 0355RF
Test Mode : TX-2408MHz
Test Engineer: Chen

	Dig.		Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBm	<u>d</u> B/m	<u>dB</u>	dB	-dBm/m	-dBm/m	<u>d</u> B	
1 2 3	89.905 239.147 605.659	26.74	14.04	2.06	29.75 29.56 29.30	13.28	46.00	-32.72	QP





## 5.3.3 Diagram 5-3



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL : 0355RF : TX-2440MHz er: Chen Condition

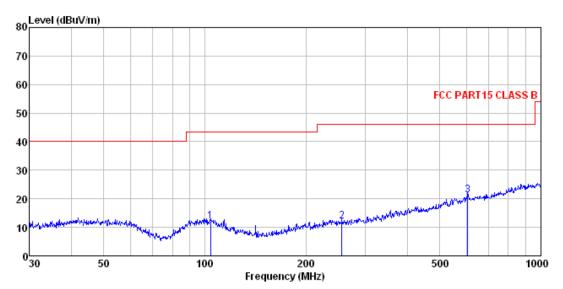
Job No. Test Mode Test Engir

lest	Engineer: Freq	Read			Preamp Factor			Over Limit	Remark	
	MHz	dBm	<u>dB</u> /m	<u>d</u> B	dB	-dBm/m	_ <u>dB</u> m/m	<u>dB</u>		
1 2 3 4	300.367 348.027 372.005 396.242	31.80 32.96	16.53	2.61 2.72	29. 99 29. 75 29. 63 29. 52	20.91 22.58	46.00 46.00	-25.09 -23.42	QP QP	





## 5.3.4 Diagram 5-4



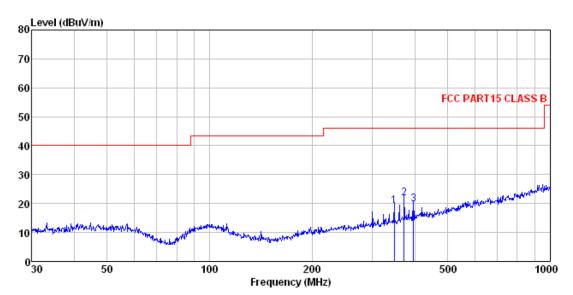
Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-2013M VERTICAL
Job No. : 0355RF
Test Mode : TX-2440MHz
Test Engineer: Chen

est	Fred	Read	Antenna Factor					Over Limit	
	MHz		<u>dB</u> /m						
1 2 3	103.806 255.623 605.659	25.49	14.06	2.15	29.68	12.02	46.00	-33.98	QP





5.3.5 Diagram 5-5



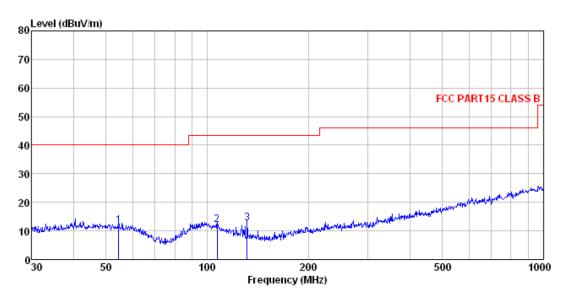
Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL
Job No. : 0355RF
Test Mode : TX-2474MHz
Test Engineer: Chemical Control of the Control of the

	Freq	Read	Antenna Factor						
	MHz	dBm	dB/m	dB	<u>dB</u>	_dBm/m	_dBm/m	<u>dB</u>	
1 2 3	348.027 372.005 396.242	32.37	16.53	2.72	29.63	21.99	46.00	-24.01	QP





## 5.3.6 Diagram 5-6



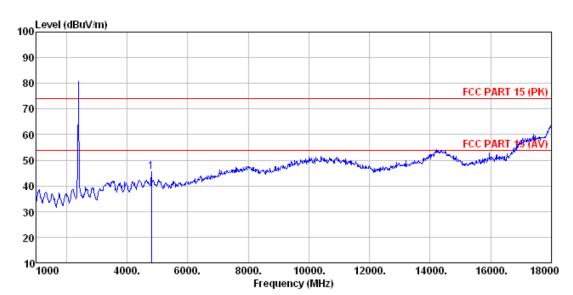
Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-2013M VERTICAL
Job No. : 0355RF
Test Mode : TX-2474MHz
Test Engineer: Chen

030	Freq	Read				Level			Remark
	MHz	dBm	dB/m	<u>dB</u>	<u>qp</u>	_dBm/m	_dBm/m	<u>dB</u>	
1 2 3	54.452 107.134 131.297	26.04	14.49	1.25	29.65		43.50	-31.37	QP





## 5.3.7 Diagram 5-7



Site Condition

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL : 0355RF

Job No. Test Mode : TX-2408MHz

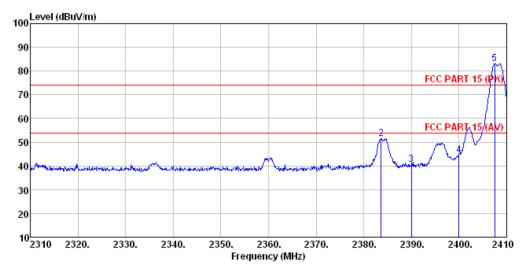
Test Engineer: Chen

ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Remark MHz dBm dB/m dB dB dBm/m dBm/m ₫B

4808.000 37.35 31.78 8.60 32.09 45.64 74.00 -28.36 Peak







: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL : 0355RF : TX-2408MHz

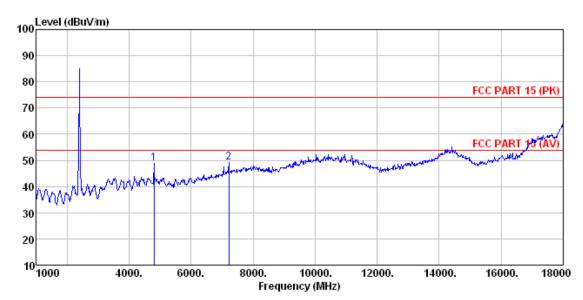
Site Condition Job No. Test Mode Test Engin

Test	Engineer:	Hank							
	Free				Preamp Factor			Over	
	rreq	rever	ractor	LUSS	ractor	rever	Line	LIMIT	Remark
	MHz	dBm	dB/m	d₿	dB	dBm/m	dBm/m	d₿	
1	2310.000	39.35	27.91	5.30	34.11	38.45	74.00	-35.55	Peak
2	2383.600	52.63	27.61	5.38	34.03	51.59	74.00	-22.41	Peak
3	2390.000	41.53	27.59	5.38	34.01	40.49	74.00	-33.51	Peak
4	2400.000	45.44	27.58	5.39	34.01	44.40	74.00	-29.60	Peak
5 >	× 2407.500	84.17	27.57	5.40	33.99	83.15	114.00	-30.85	Peak





## 5.3.8 Diagram 5-8



Site

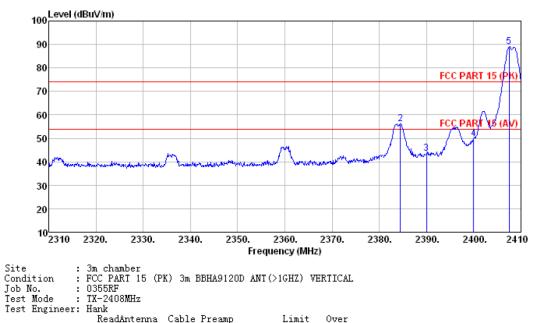
: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL : 0355RF : TX-2408MHz r: Chen Condition

Job No. Test Mode Test Engir

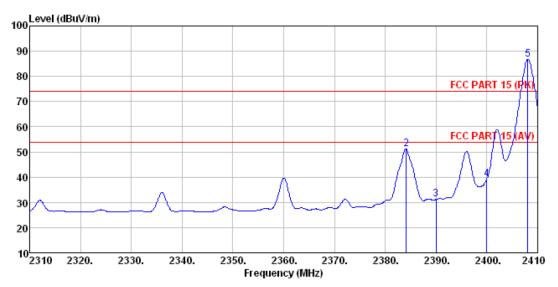
t	Engineer: Freq	Read				Level			Remark	
		dBm	<u>d</u> B/m	<u>d</u> B	dB		_dBm/m	<u>d</u> B		
	4808.000 7222.000									

Reference No.: 282967





	Freq				Preamp Factor				Remark
	MHz	dBm	dB/m		<u>ab</u>	_dBm/m	dBm/m	<u>dB</u>	
2 3 4	2310.000 2384.500 2390.000 2400.000 2407.500	57.16 44.46 50.95	27.61 27.59 27.58	5.38 5.38 5.39	34.11 34.03 34.01 34.01 33.99	56.12 43.42 49.91	74.00 74.00 74.00	-17.88 -30.58 -24.09	Peak Peak Peak



: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL : 0355RF : TX-2408MHz er: Hank Site Condition

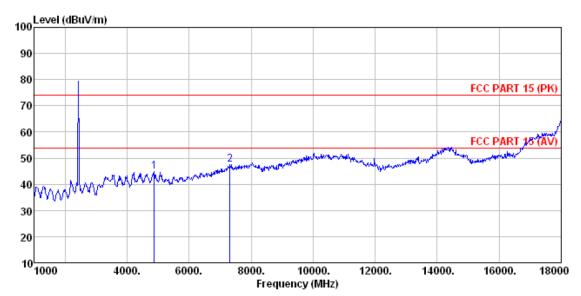
Job No. Test Mode Test Engin

st	Freq	Read	Antenna Factor				Limit Line	Over Limit	Remark	
	MHz	dBu₹	<u>d</u> B/m		<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		
1 2 3 4 5 *	2310.000 2384.100 2390.000 2400.000 2408.100	52.28 32.30 40.42	27. 91 27. 61 27. 59 27. 58 27. 57	5.38 5.38 5.39	34.01	51.24 31.26 39.38	54.00 54.00 54.00	-2.76 -22.74 -14.62	Average Average Average Average Average	





## 5.3.9 Diagram 5-9



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL : 0355RF : TX-2440MHz

Condition Job No. Test Mode Test Engir

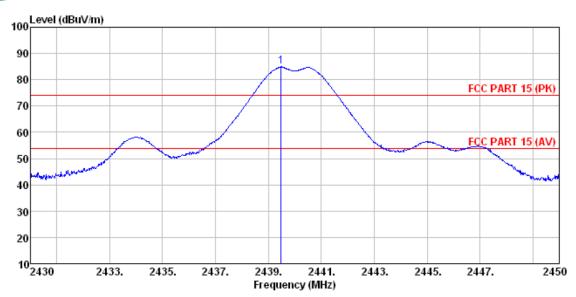
Test

1 2

t	Engineer:	Chen							
	-	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBm	dB/m	dВ	dВ	dBm/m	dBm/m	dB	
	4876.000								
	7324 000	31 44	36 37	11 72	31 80	47 64	74 00	-26 36	Peak



Reference No.: 282967



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL Condition

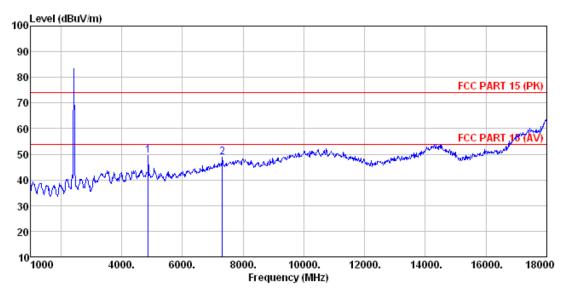
Job No. : 0355F Test Mode : TX-24 Test Engineer: Hank : 0355RF : TX-2440MHz

ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Remark MHz dBu∀ dB/m dB dBuV/m dBuV/m dB

1 \* 2439.480 85.95 27.48 5.43 33.96 84.90 114.00 -29.10 Peak



5.3.10 Diagram 5-10



Site

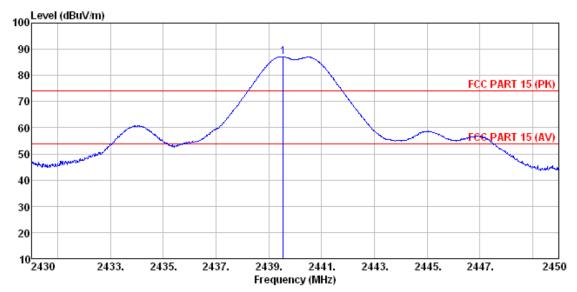
: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL : 0355RF\_\_\_\_ Condition

Job No. Test Mode Test Engin : TX-2440MHz

st	Freq	Read				Level			
	MHz	dBm	<u>dB</u> /m	dB	<u>dB</u>	_dBm/m	_dBm/m	<u>dB</u>	 -
1	4876.000 7324.000								







Site Condition

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL

Job No. Test Mode : 0355RF : TX-2440MHz Test Engineer: Hank

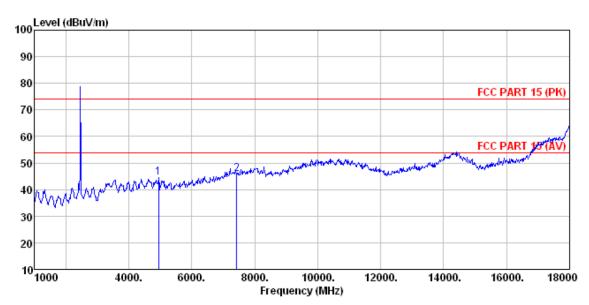
ReadAntenna Cable Preamp Over Limit Freq Level Factor Loss Factor Level Line Limit Remark dB dB dBuV/m dBuV/m dBuV dB/m MHz

1 \* 2439.540 88.24 27.48 5.43 33.96 87.19 114.00 -26.81 Peak





## 5.3.11 Diagram 5-11



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL Condition

Job No. : 0355RF Test Mode : TX-2474MHz

Test Engineer: Chen

ReadAntenna Cable Preamp Over Limit Freq Level Factor Loss Factor Level Line Limit Remark MHz dBm dB/m ďВ dB dBm/m dBm/m ₫B

35.96 31.91 8.71 32.16 44.42 74.00 -29.58 Peak 29.37 36.56 11.79 31.80 45.92 74.00 -28.08 Peak 4944.000 ž 7426.000





100 Level (dBuV/m) 90 80 FCC PART 15 (PK) 70 60 FCC PART 15 (AV) 50 40 30 20 2473. 2475. 2477. 2479. 2481. 2483. 2485. 2487. 2489. 2491. 2493. 2495. 2497. 2500

Frequency (MHz)

Site

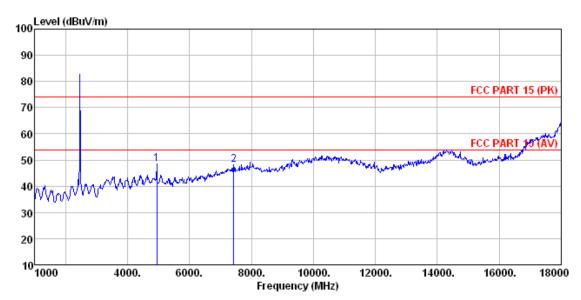
: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL Condition

Job No. : 0355RF Test Mode : TX-2474MHz Test Engineer: Hank

•	Freq	Read	Antenna Factor						Remark	
		dBu∜	<u>dB</u> /m			dBuV/m	dBuV/m	<u>d</u> B		
*	2473.510 2483.500 2500.000	41.70	27.53	5.47	33.92	40.78	74.00	-33.22	Peak	



5.3.12 Diagram 5-12



Site

: 3m chamber : FCC\_PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL Condition

: 0355RF : TX-2474MHz Job No. Test Mode

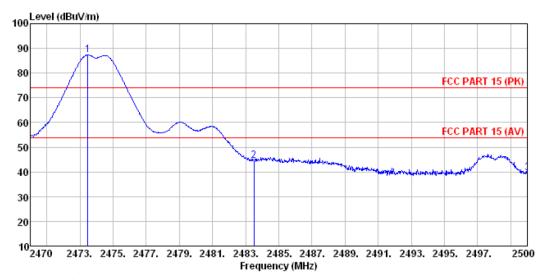
Test Engineer: Chen

ReadAntenna Cable Preamp Over Limit Freq Level Factor Loss Factor Level Line Limit Remark dBm dB/m dB dB dBm/m dBm/m MHz

4944.000 40.01 31.91 8.71 32.16 48.47 74.00 -25.53 Peak 31.76 36.56 11.79 31.80 48.31 74.00 -25.69 Peak 7426.000







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL : 0355RF : TX-2474MHz Condition

Job No. Test Mode

Test Engineer: Hank

ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Remark MHz dBm dB/m dB dB dBm/m dBm/m dB 1 \* 2473.480 88.28 27.50 2 2483.500 45.49 27.53 3 2500.000 40.31 27.55 5.46 33.92 87.32 114.00 -26.68 Peak 5.47 33.92 44.57 74.00 -29.43 Peak 5.49 33.90 39.45 74.00 -34.55 Peak



Reference No.: 282967

#### 6. 20dB Bandwidth Test

#### **6.1 Test Procedure**

### Section 15.215 (c):

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

- 1. Set resolution bandwidth (RBW) = 100 kHz.
- 2. Set the video bandwidth (VBW)>= RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

### 6.2 Measurement Equipment

	Equipment	Calibration due	Туре	Serial No.	Manufacturer
$\boxtimes$	Spectrum	Jul. 04 2015	FSP30	GTS208	RS

## 6.3 Test Result

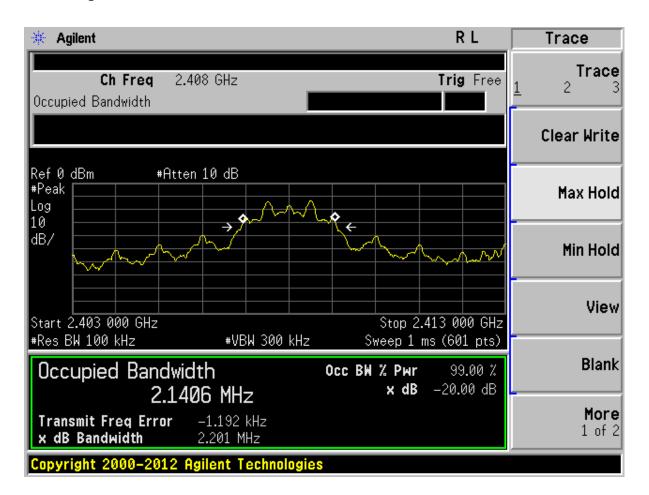
Remark: Conducted measurement.

#### 20dB Bandwidth:

GFSK			
Channel	Diagram	20dB bandwidth (MHz)	Result
CH LOW	6-1	2.201	PASS
CH MID	6-2	2.195	PASS
CH HIGH	6-3	2.198	PASS

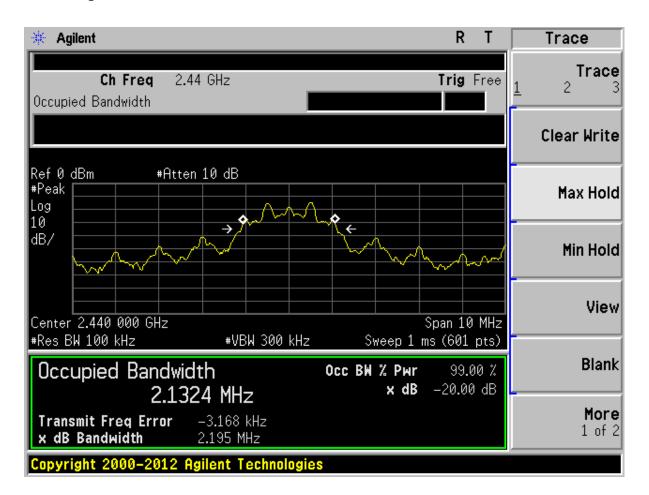


## 6.3.1 Diagram 6-1



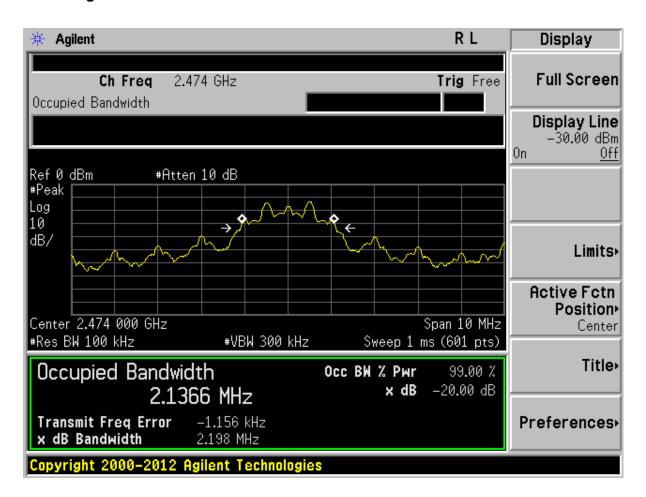


## 6.3.2 Diagram 6-2





## 6.3.3 Diagram 6-3





Reference No.: 282967

## 7. Antenna requirement

## 7.1 Requirement

For intentional device, according to FCC 47 CFR Section 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.

## 7.2 Result

The antenna used for this product is Internal Print PCB antenna that no antenna other than that furnished by the responsible party shall be used with the device.

The maximum peak gain of this antenna is 0dBi.

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