



Product Service

## FCC/IC - TEST REPORT

Report Number : **68.950.12.082.01** Date of Issue: 14 September 2012

Model : **PRSBLE**

Product Type : BLE Proximity Key fob

Applicant : Dayton Industrial Co., Ltd.

Address : 2-12 Kwai Fat Road, 11-A Kwai Chung, New Territories, Hong Kong

Production Facility : Kendy Enterprise Ltd.

Address : 2-12 Kwai Fat Road, 11-A Kwai Chung, NT, Hong Kong

Test Result :  **Positive**     **Negative**

Total pages including Appendices : 36

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## 2 Details about the Test Laboratory

### Details about the Test Laboratory

#### Test Site 1

Company name: Jiangsu TÜV Product Service Ltd. – Shenzhen Branch  
6th Floor, H Hall,  
Century Craftwork Culture Square,  
No. 4001, Fuqiang Road,  
Futian District 518048,  
Shenzhen, P.R.C.

Telephone: 86 755 8828 6998  
Fax: 86 755 8828 5299

#### Test Site 2

Company name: Audix Technology (shenzhen) Co., Ltd  
Block Shenzhen, Science & Industry Park,  
Nantou, Shenzhen,  
Guangdong,  
China

Telephone: 86 755 2663 9496  
Fax: 86 755 2663 2877



### 3 Description of the Equipment Under Test

#### Description of the Equipment Under Test

Product: BLE Proximity Key fob  
Model no.: PRSBLE  
Brand Name: Dayton  
Options and accessories: NIL  
Rating: DC 3V (Supplied by 1pcs 3VDC CR2032 Battery)  
RF Transmission Frequency: 2402MHz-2480MHz  
Description of the EUT: NIL

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
--	--	--	--



#### 4 Summary of Test Standards

<b>Test Standards</b>	
FCC Part 15 Subpart C 10-1-2011 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 3 December 2010	General Requirements and Information for the Certification of Radio Apparatus
RSS-210 Issue 8 December 2010	RSS-210 — Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

## 5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart C, RSS-Gen, RSS-210					
Test Condition	Pages	Test Site	Test Result		
			Pass	Fail	N/A
15.207 & RSS-GEN A7.2.4 Conducted Emission AC Power Port	---	Site 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.247 (b) (1) & RSS-210 A8.4 Conducted peak output power	8	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.247(d) & RSS-210 A8.5 Band edge compliance of RF emissions	10	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.247(d) & RSS-210 A8.5 Spurious RF conducted emissions	16	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.247(d) & 15.209 & RSS-210 2.5 & RSSGEN 7.2.5 & RSSGEN 6.1 Spurious radiated emissions for transmitter and receiver	24	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.247(a)(2) & RSS-210 A8.2(a) 6dB bandwidth	28	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RSSGEN 4.6.1& 4.6.2 99% Occupied Bandwidth and 6dB Bandwidth	32	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.247(e) & RSS-210 A8.2(b) Power spectral density	36	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.247(a)(1) & RSS-210 A8.1(a) 20dB bandwidth*	---	Site 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.247(a)(1) & RSS-210 A8.1(b) Carrier frequency separation*	---	Site 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.247(a)(1)(iii) & RSS-210 A8.1(d) Number of hopping frequencies*	---	Site 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.247(a)(1)(iii) & RSS-210 A8.1(c) Dwell Time*	---	Site 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NOTE1 "\*" The requirement is not applicable to Bluetooth Low Energy device.



## 6 General Remarks

### Remarks

This submittal(s) (test report) is intended for FCC ID: O4GPRSBLE & IC ID: 7666A-PRSBLE complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules; and RSS-210.

All the configurations of the product were tested and only the worst test results are listed in the report.

### SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 30 July 2012

Testing Start Date: 1 August 2012

Testing End Date: 7 August 2012

- Jiangsu TÜV Product Service Ltd. – Shenzhen Branch -

Reviewed by:

Ken Li  
EMC Project Manager

Prepared by:

Cookies Bu  
EMC Project Engineer

Tested by:

Leo.Li  
EMC Test Engineer

## 7 Technical Requirement

### 7.1 Conducted peak output power

#### Test Method

The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the peak power detection.

#### Limits for conducted peak output power measurements

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	$\leq 1$	$\leq 30$

### Conducted peak output power

Frequency MHz	Test Result	
	Conducted Peak Output Power dBm	Result
2402	-8.21	Pass
2442	-6.76	Pass
2480	-5.73	Pass





Product Service

## Test Equipment

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL DUE DATE
Spectrum Analyzer	Agilent	E4446A	US44300459	May 07, 2013

## 7.2 Band edge compliance of RF emissions

### Test Method

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.4 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW and VBW to 1MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.

The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW and VBW to 100kHz, to measure the conducted peak band edge.

### Limits

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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. 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 Section 15.205(c)).

Frequency MHz	Limit Average dBuV/m	Limit Peak dBuV/m
Below 2390 Above 2483.5	54	74

## Band edge compliance of RF emissions

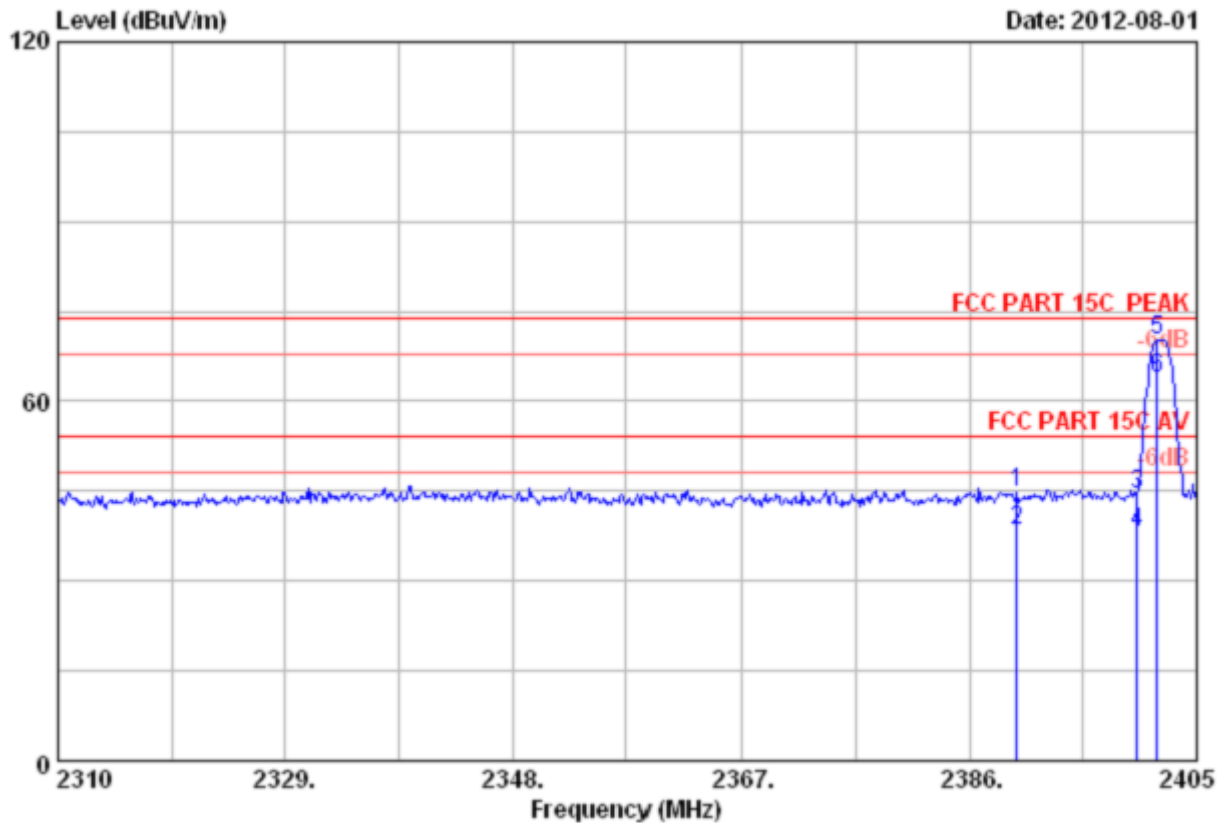
Lower edge Plot:

EUT: BLE Proximity Key fob

M/N: PRSBLE

Operating Condition: Tx, 2402MHz

Ant. Polarity: Vertical



	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	45.22	44.75	74.00	29.25	Peak
2	2390.000	27.96	6.01	34.44	38.93	38.46	54.00	15.54	Average
3	2400.000	27.96	6.01	34.44	44.93	44.46	74.00	29.54	Peak
4	2400.000	27.96	6.01	34.44	38.64	38.17	54.00	15.83	Average
5	2401.675	27.96	6.01	34.44	70.74	70.27	74.00	3.73	Peak
6	2401.675	27.96	6.01	34.44	64.45	63.98	54.00	-9.98	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

## Band edge compliance of RF emissions

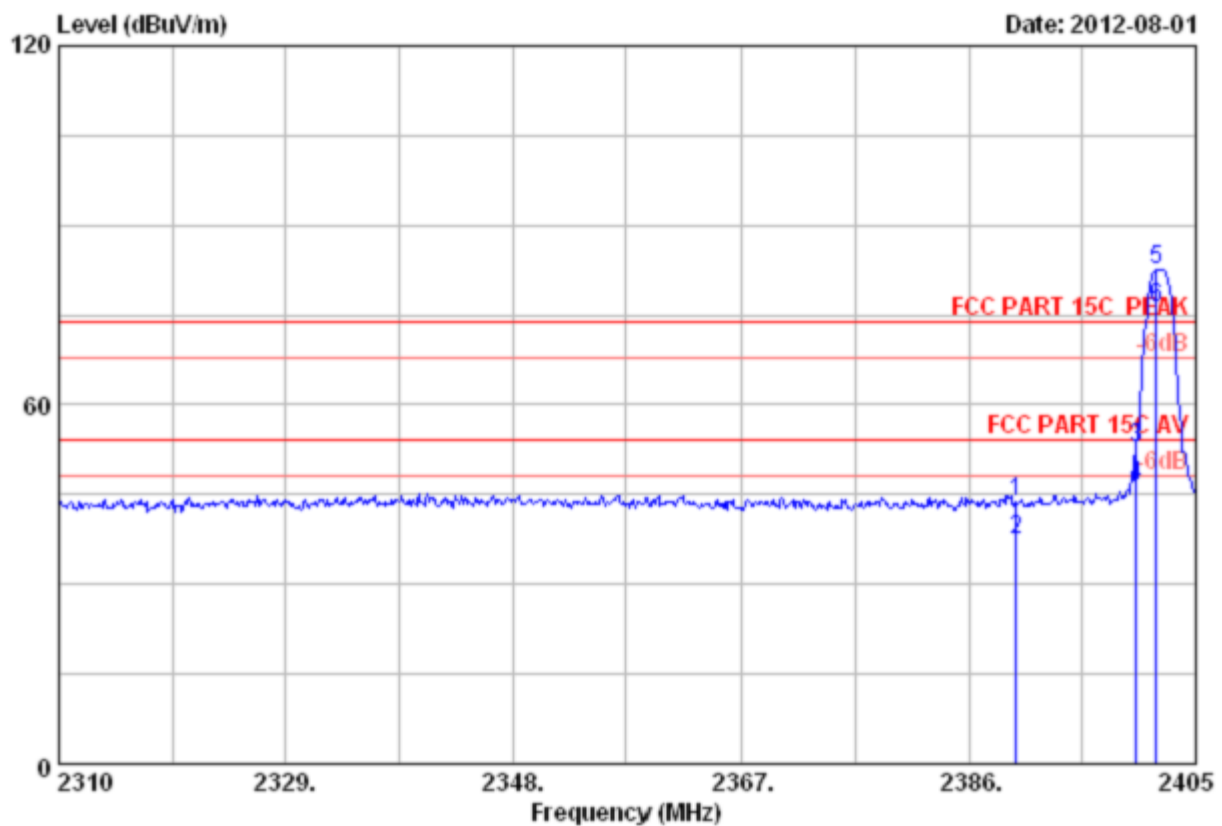
Lower edge Plot:

EUT: BLE Proximity Key fob

M/N: PRSBLE

Operating Condition: Tx, 2402MHz

Ant. Polarity: Horizontal



	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	44.32	43.85	74.00	30.15	Peak
2	2390.000	27.96	6.01	34.44	38.03	37.56	54.00	16.44	Average
3	2400.000	27.96	6.01	34.44	53.12	52.65	74.00	21.35	Peak
4	2400.000	27.96	6.01	34.44	46.83	46.36	54.00	7.64	Average
5	2401.675	27.96	6.01	34.44	83.04	82.57	74.00	-8.57	Peak
6	2401.675	27.96	6.01	34.44	76.75	76.28	54.00	-22.28	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

## Band edge compliance of RF emissions

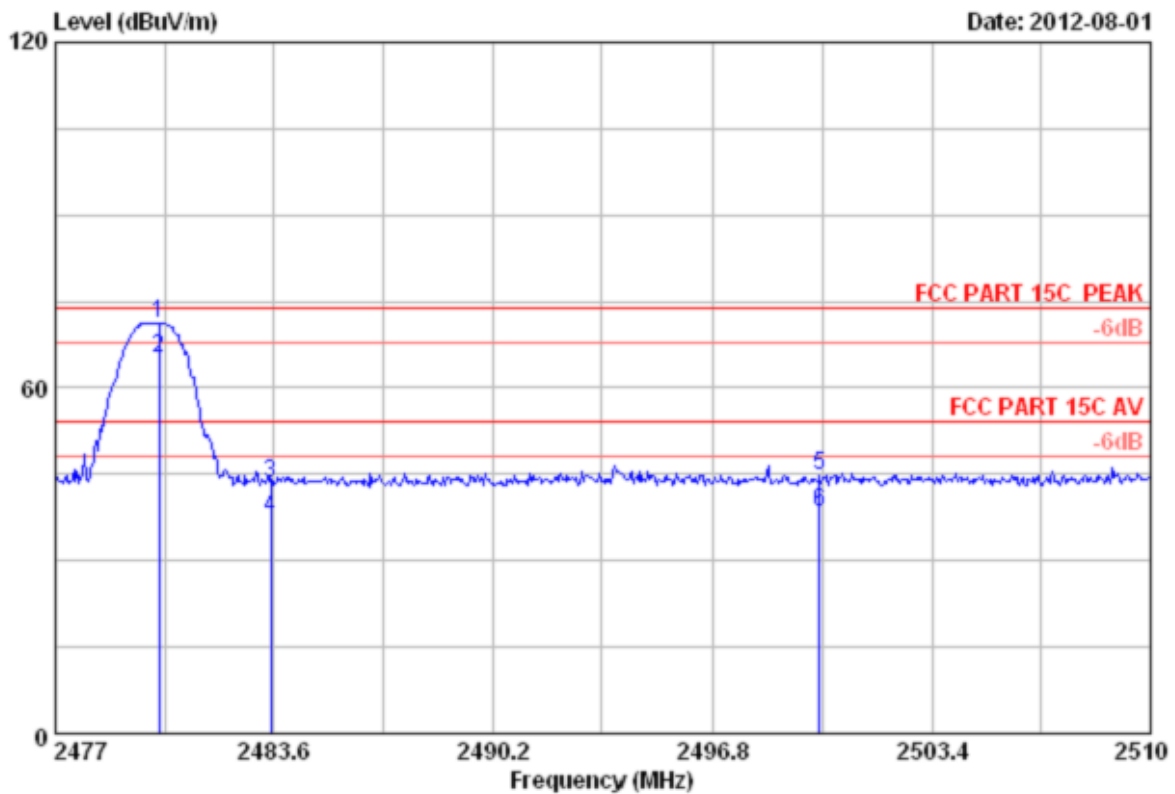
Upper edge Plot:

EUT: BLE Proximity Key fob

M/N: PRSBLE

Operating Condition: Tx, 2480MHz

Ant. Polarity: Vertical



Site no. : 3m Chamber Data no. : 23  
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Bluetooth low energy Proximity key fob  
 Power supply : DC 3.0V  
 Test mode : High channel 2480MHz Tx  
 M/N : PRSBLE

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.135	28.08	6.15	34.45	71.53	71.31	74.00	2.69	Peak
2	2480.135	28.08	6.15	34.45	65.25	65.03	54.00	-11.03	Average
3	2483.500	28.08	6.15	34.45	43.79	43.57	74.00	30.43	Peak
4	2483.500	28.08	6.15	34.45	37.51	37.29	54.00	16.71	Average
5	2500.000	28.10	6.18	34.45	44.82	44.65	74.00	29.35	Peak
6	2500.000	28.10	6.18	34.45	38.54	38.37	54.00	15.63	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

## Band edge compliance of RF emissions

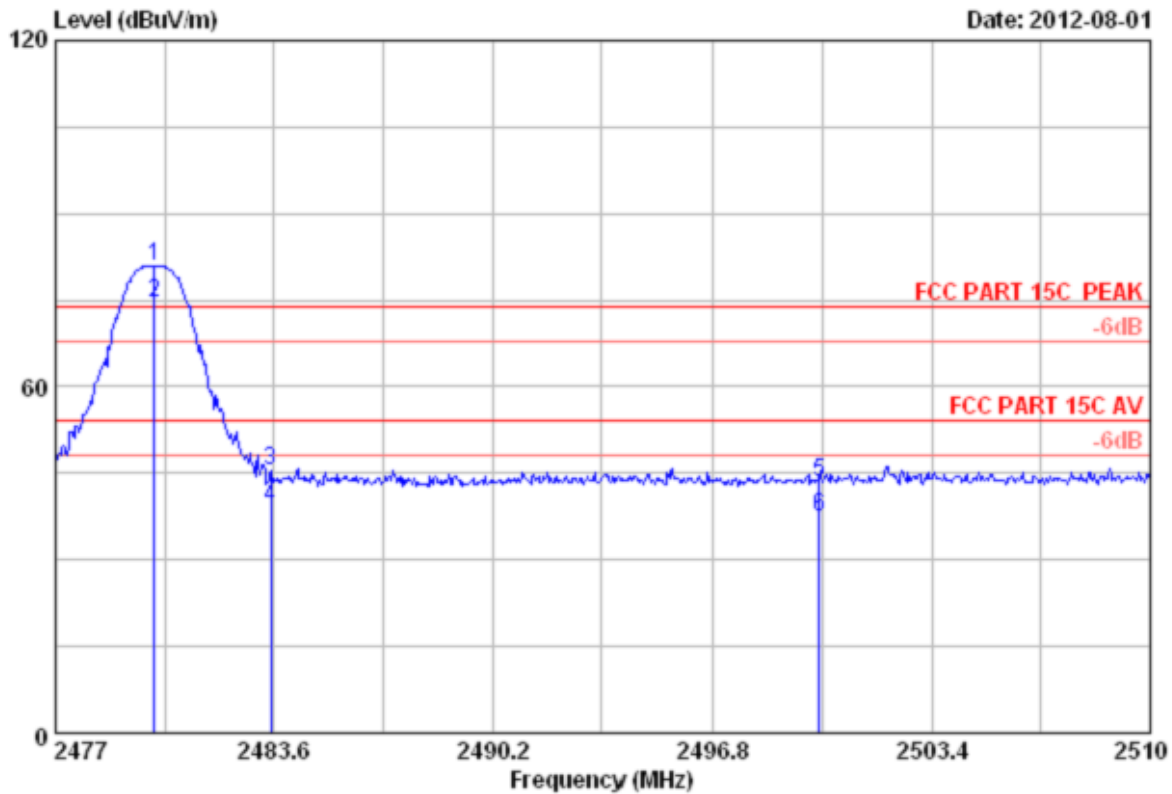
Upper edge Plot:

EUT: BLE Proximity Key fob

M/N: PRSBLE

Operating Condition: Tx, 2480MHz

Ant. Polarity: Horizontal



```

Site no.       : 3m Chamber                Data no.   : 24
Dis. / Ant.    : 3m 2011 3115 4580        Ant. pol.  : HORIZONTAL
Limit          : FCC PART 15C PEAK
Env. / Ins.    : 23°C/54%                 Engineer   : Leo-Li
EUT            : Bluetooth low energy Proximity key fob
Power supply   : DC 3.0V
Test mode      : High channel 2480MHz Tx
M/N            : PRSBLE
  
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.970	28.08	6.15	34.45	81.11	80.89	74.00	-6.89	Peak
2	2479.970	28.08	6.15	34.45	74.83	74.61	54.00	-20.61	Average
3	2483.500	28.08	6.15	34.45	45.65	45.43	74.00	28.57	Peak
4	2483.500	28.08	6.15	34.45	39.37	39.15	54.00	14.85	Average
5	2500.000	28.10	6.18	34.45	43.74	43.57	74.00	30.43	Peak
6	2500.000	28.10	6.18	34.45	37.46	37.29	54.00	16.71	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

**Test Equipment List**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL DUE DATE
Spectrum	Agilent	E4446A	US44300459	May 07, 2013
Amp	HP	8449B	3008A02495	May 07, 2013
Antenna	EMCO	3115	9607-4877	May 16, 2013
Bilog Antenna	Schaffner	CBL6111C	2598	Dec.13, 2012
HF Cable	Hubersuhne	Sucoflex104	---	May 07, 2013

## 7.3 Spurious RF conducted emissions

### Test Method

The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the peak power detection.

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyzer were respectively set to 100 kHz and 100 kHz.

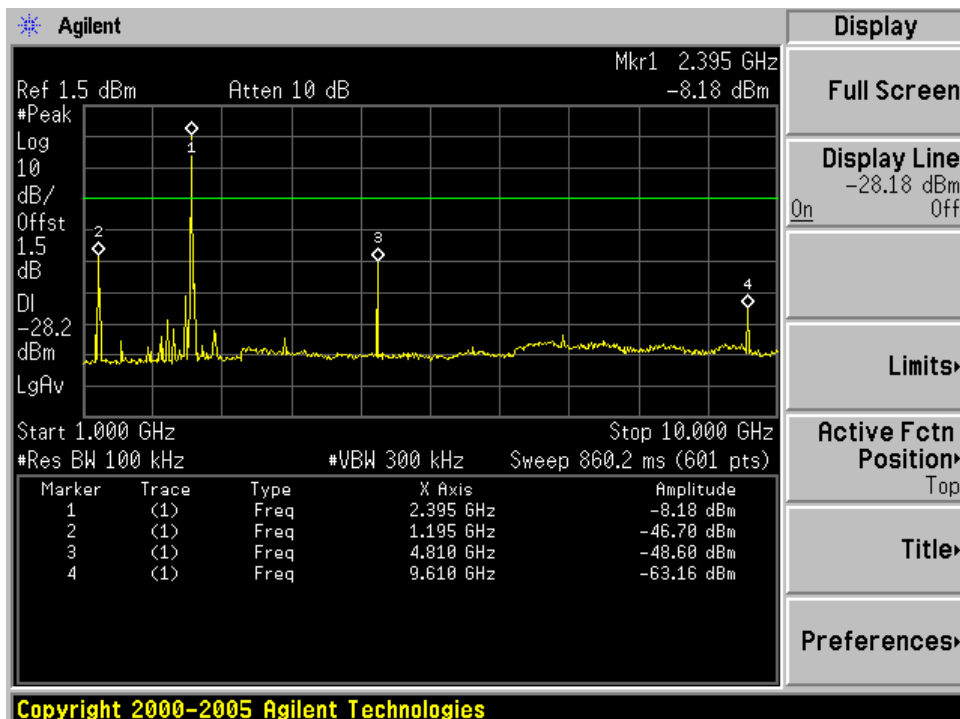
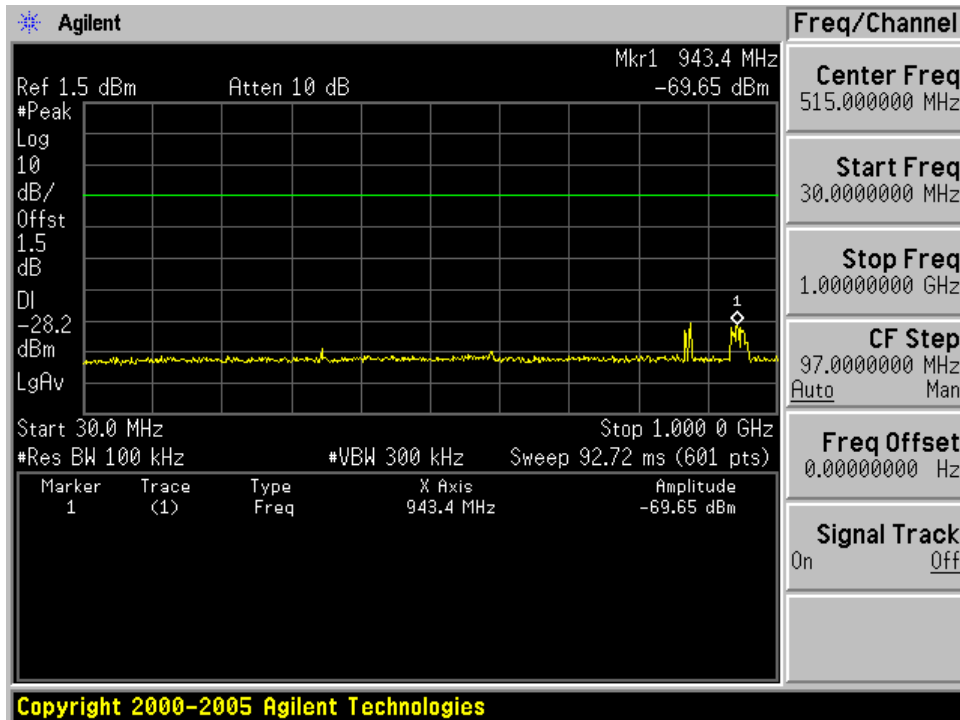
### Limit

Frequency Range MHz	Limit (dBc)
1000-25000	-20

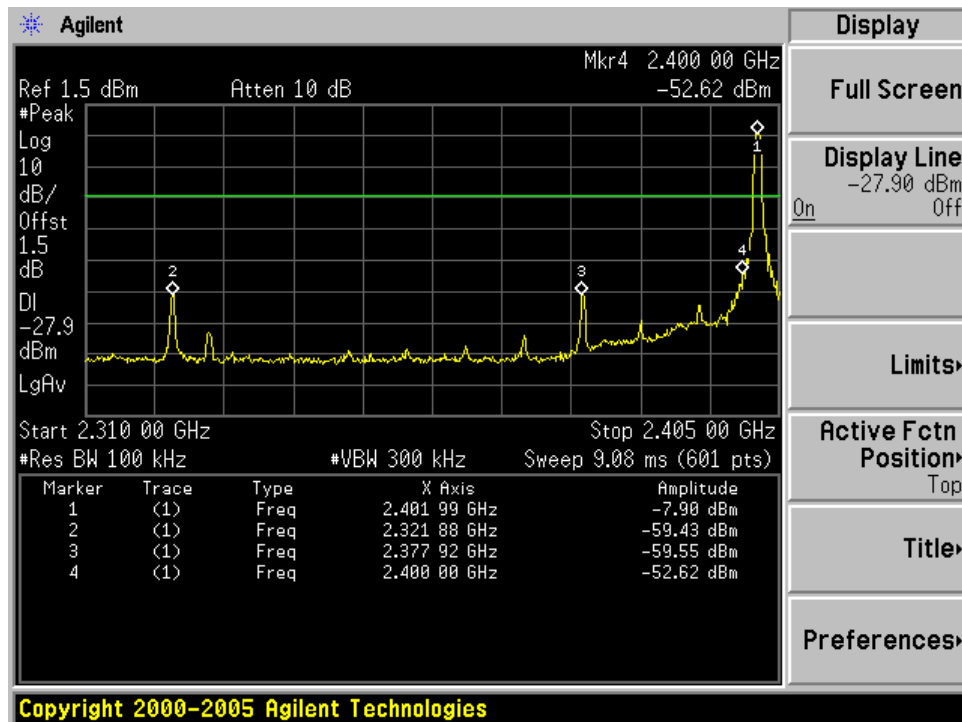
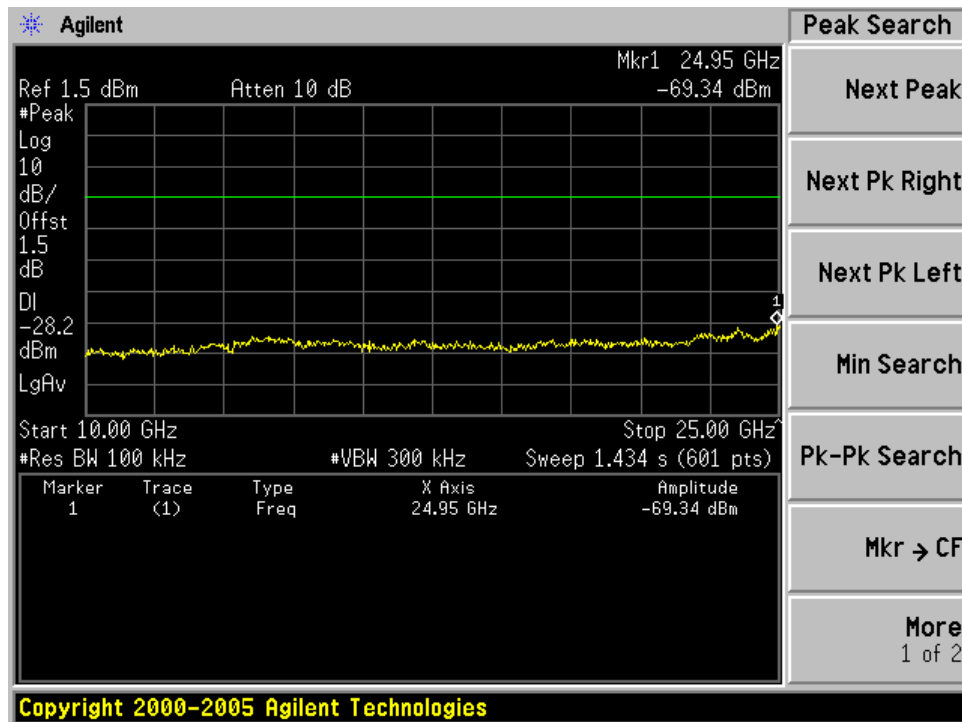


## Spurious RF conducted emissions

Test Result:  
2402MHz

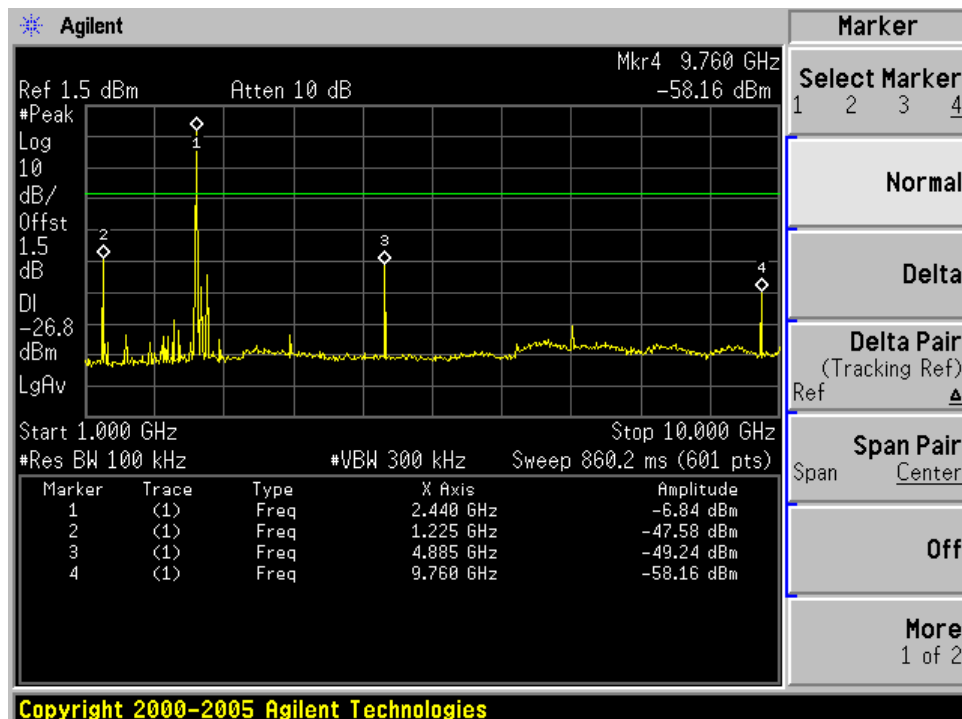
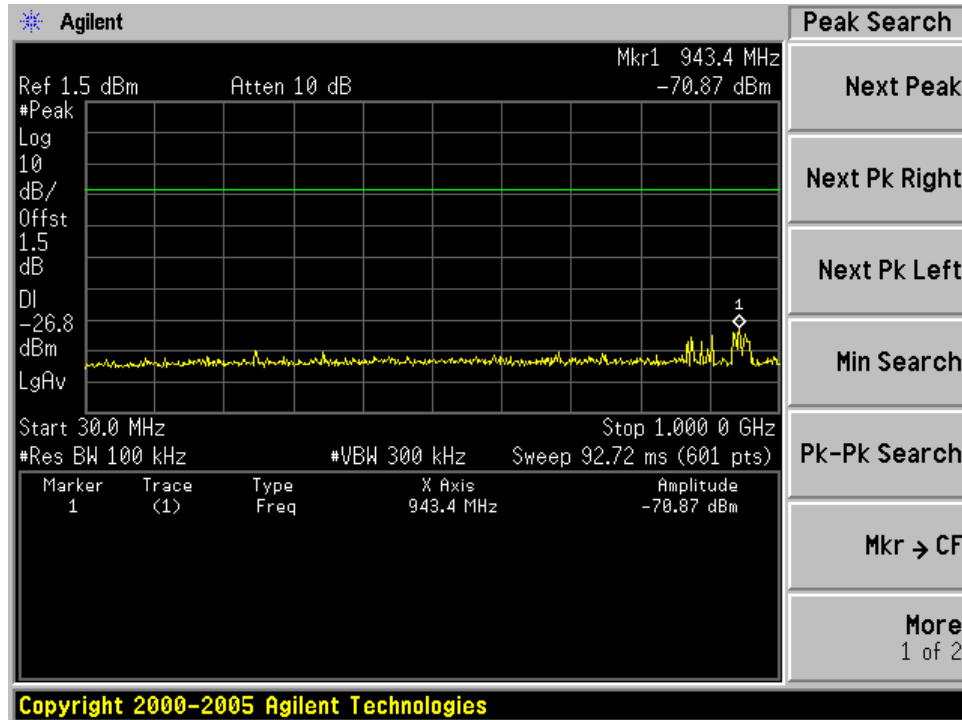


## Spurious RF conducted emissions

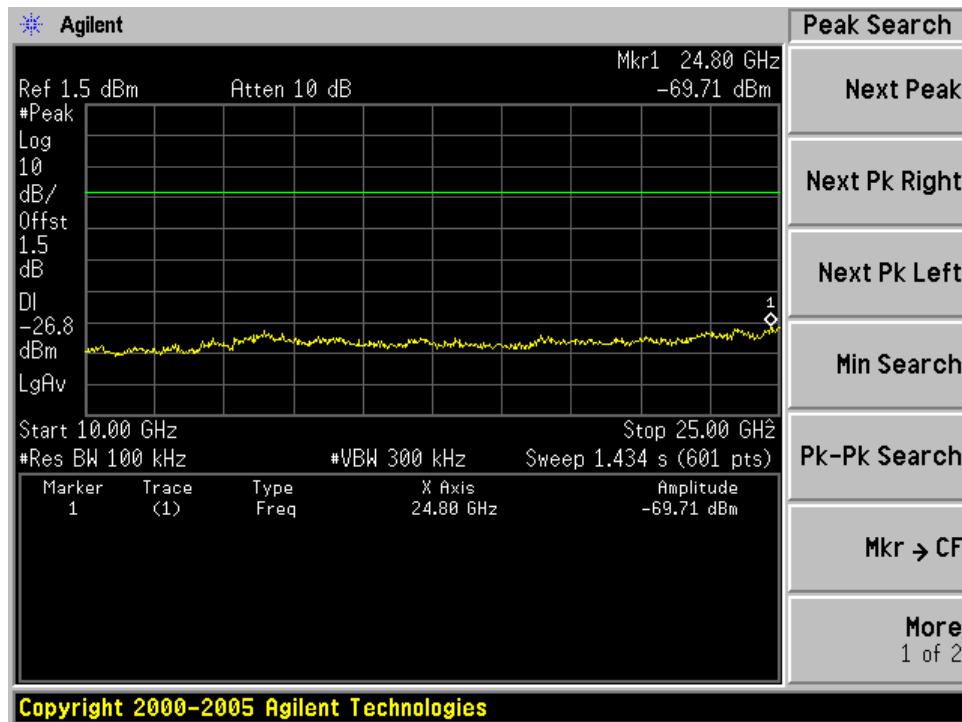


## Spurious RF conducted emissions

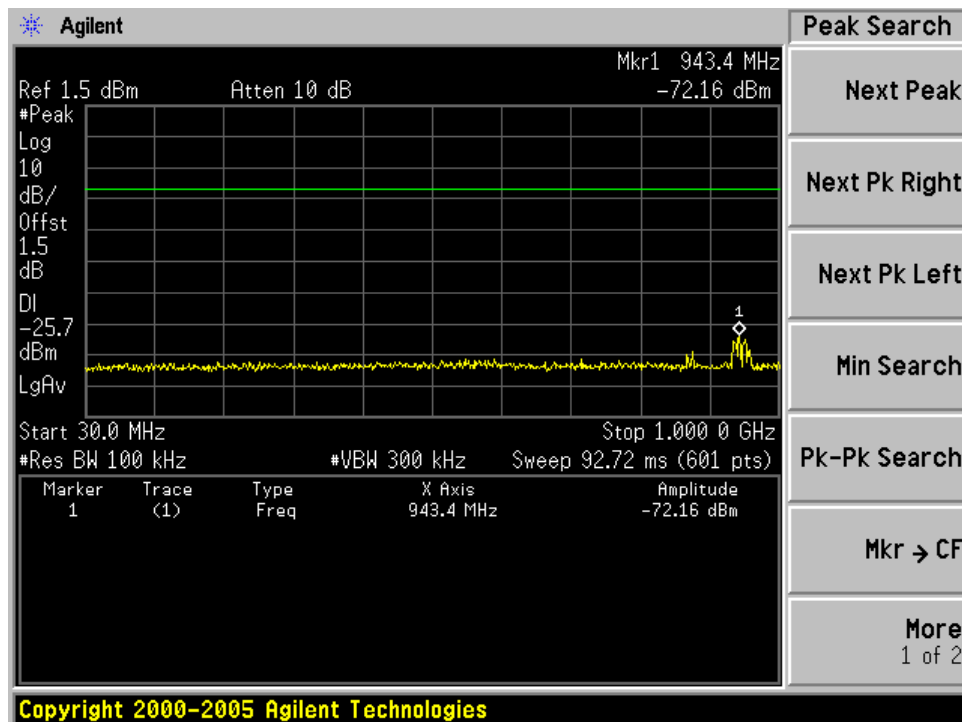
2442MHz



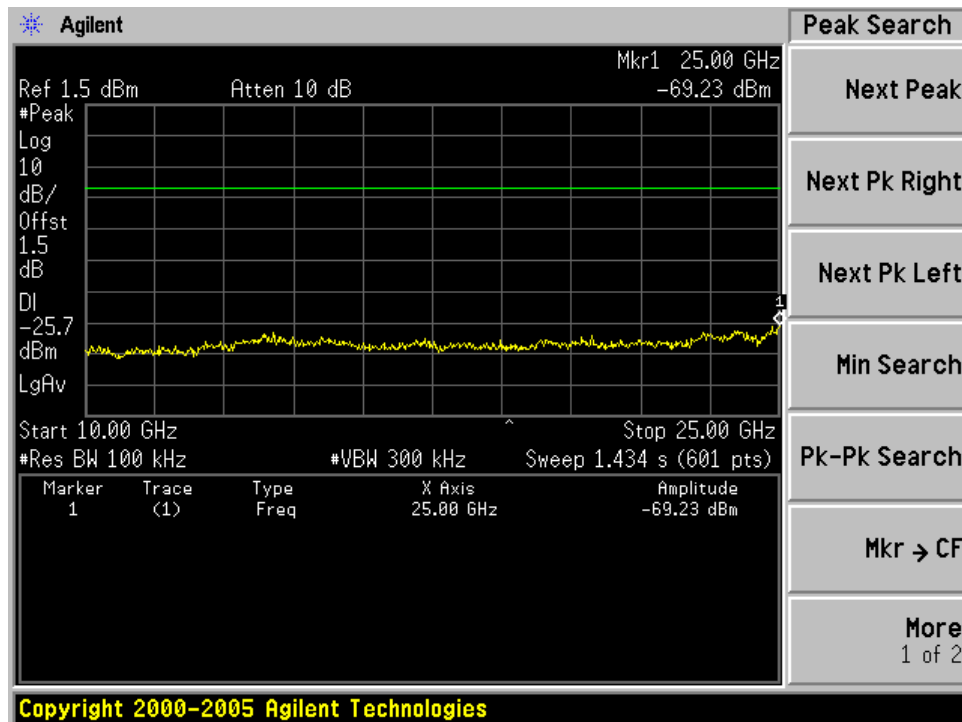
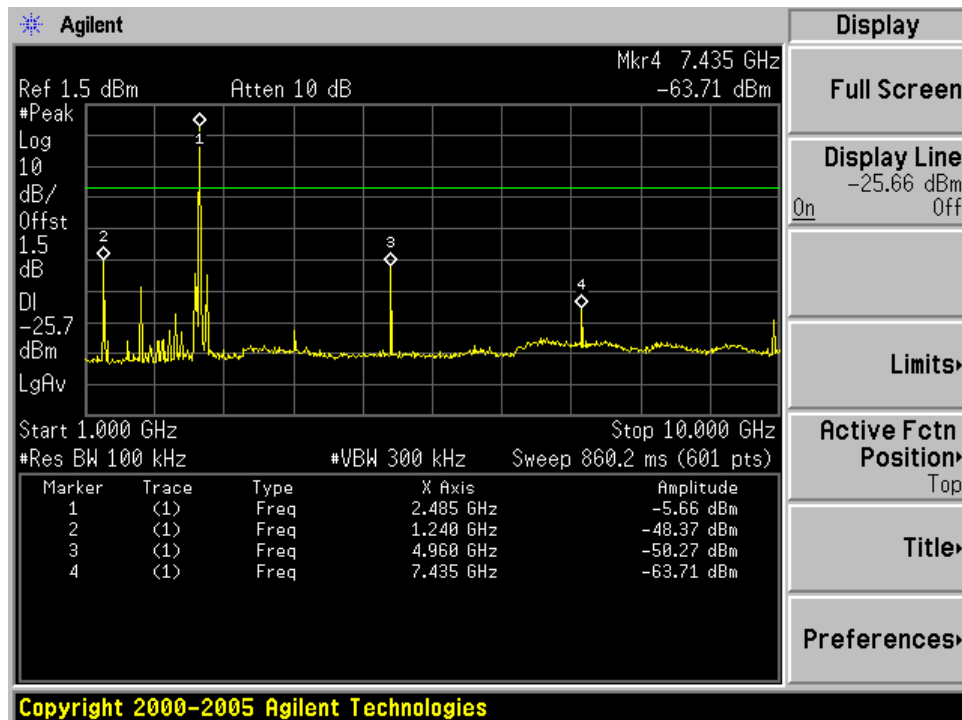
## Spurious RF conducted emissions



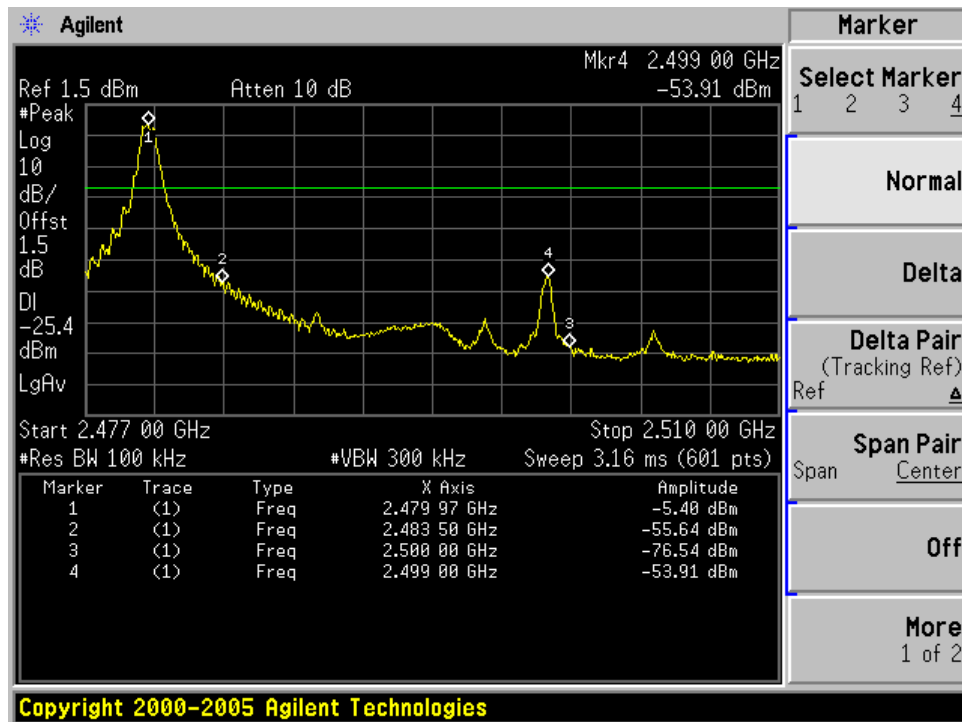
2480MHz



## Spurious RF conducted emissions



## Spurious RF conducted emissions





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## Test Equipment List

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL.DUE.DATE
Spectrum Analyzer	Agilent	E4446A	US44300459	May 07, 2013

## 7.4 Spurious radiated emissions for transmitter and receiver

### Test Method

- 1 The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2 The turntable shall be rotated for 360 degrees to determine the position of maximum emission level
- 3 EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4 Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5 Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

### Limit

Frequency MHz	Field Strength uV/m	Field Strength dB $\mu$ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



### Spurious radiated emissions for transmitter and receiver

Remark: According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

#### Transmitting spurious emission test result as below:

##### 2402MHz Test Result:

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Amp. Factor dB	Reading dB $\mu$ V	Emission Level dB $\mu$ V/m	Polarization	Limit dB $\mu$ V/m	Detector	Result
below 1GHz *	-	-	-	-	-	-	-	-	Pass
1595.00	25.72	4.76	34.6	43.84	39.72	Vertical	74	PK	Pass
1595.00	-	-	-	-	-	Horizontal	-	-	Pass
4804.00	-	-	-	-	-	Vertical	-	-	Pass
4804.00	32.86	8.52	34.6	41.93	48.71	Horizontal	74	PK	Pass
7206.00	-	-	-	-	-	-	-	-	Pass
7206.00	-	-	-	-	-	-	-	-	Pass

Note “\*”:Data of measurement within this frequency range shown “-- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

##### 2442MHz Test Result:

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Amp. Factor dB	Reading dB $\mu$ V	Emission Level dB $\mu$ V/m	Polarization	Limit dB $\mu$ V/m	Detector	Result
below 1GHz *	-	-	-	-	-	-	-	-	Pass
1595.00	25.72	4.76	34.6	45.04	40.92	Vertical	74	PK	Pass
1595.00	-	-	-	-	-	Horizontal	-	-	Pass
4884.00	-	-	-	-	-	Vertical	-	-	Pass
4884.00	32.98	8.58	34.6	40.62	47.58	Horizontal	74	PK	Pass
7326.00	-	-	-	-	-	-	-	-	Pass
7326.00	-	-	-	-	-	-	-	-	Pass

Note “\*”:Data of measurement within this frequency range shown “-- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

**Spurious radiated emissions for transmitter and receiver**

## 2480MHz Test Result

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Amp. Factor dB	Reading dB $\mu$ V	Emission Level dB $\mu$ V/m	Polarization	Limit dB $\mu$ V/m	Detector	Result
below 1GHz *	-	-	-	-	-	-	-	-	Pass
1595.00	25.72	4.76	34.6	48	43.88	Vertical	74	PK	Pass
1595.00	-	-	-	-	-	Horizontal	-	-	Pass
4960.00	-	-	-	-	-	Vertical	-	-	Pass
4960.00	33.14	8.65	34.6	39.34	46.53	Horizontal	74	PK	Pass
7440.00	-	-	-	-	-	-	-	-	Pass
7440.00	-	-	-	-	-	-	-	-	Pass

Note “\*”:Data of measurement within this frequency range shown “-- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

**Receiving spurious emission test result as below:**

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Amp. Factor dB	Reading dB $\mu$ V	Emission Level dB $\mu$ V/m	Polarization	Limit dB $\mu$ V/m	Detector	Result
below 1GHz *	-	-	-	-	-	-	-	-	Pass
1595.00	25.72	4.76	34.6	46.89	42.77	Vertical	74	PK	Pass
1595.00	-	-	-	-	-	Horizontal	-	-	Pass

Note “\*”:Data of measurement within this frequency range shown “-- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

**Test Equipment List**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL DUE DATE
Spectrum	Agilent	E4446A	US44300459	May 07, 2013
Amp	HP	8449B	3008A02495	May 07, 2013
Antenna	EMCO	3115	9607-4877	May 16, 2013
Bilog Antenna	Schaffner	CBL6111C	2598	Dec.13, 2012
HF Cable	Hubersuhne	Sucoflex104	---	May 07, 2013

## 7.5 6 dB bandwidth & 99% bandwidth

### Test Method

- 1 Place the EUT on the table and set it in the transmitting mode.
- 2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3 Mark the peak frequency and  $-6\text{dB}$  (upper and lower) frequency.

### Limit

Limit [kHz]

---

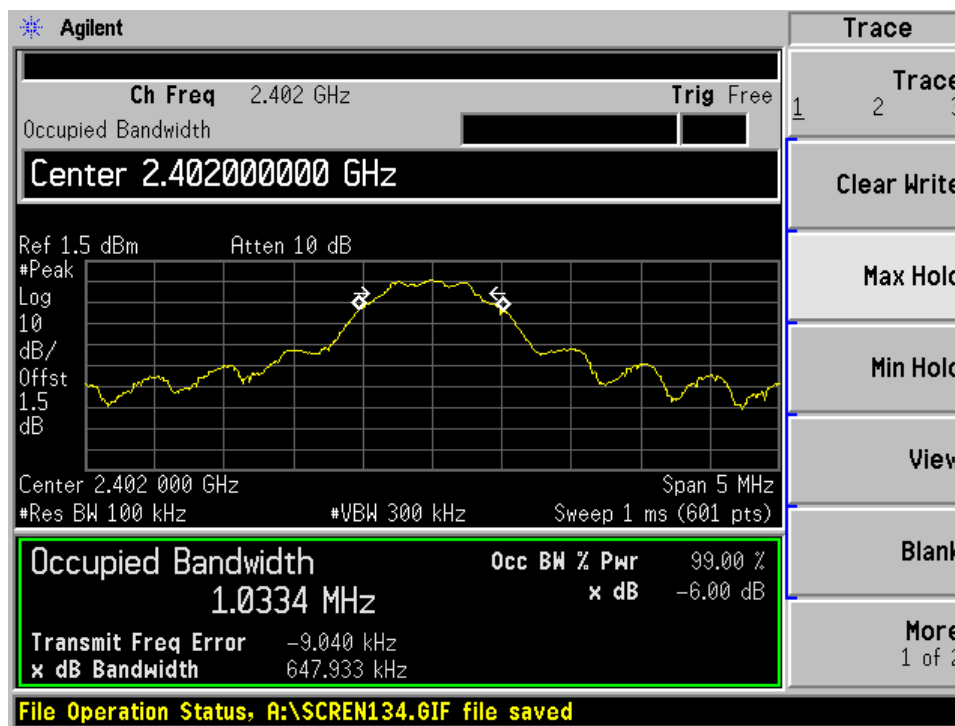
$\geq 500$

## 20 dB bandwidth

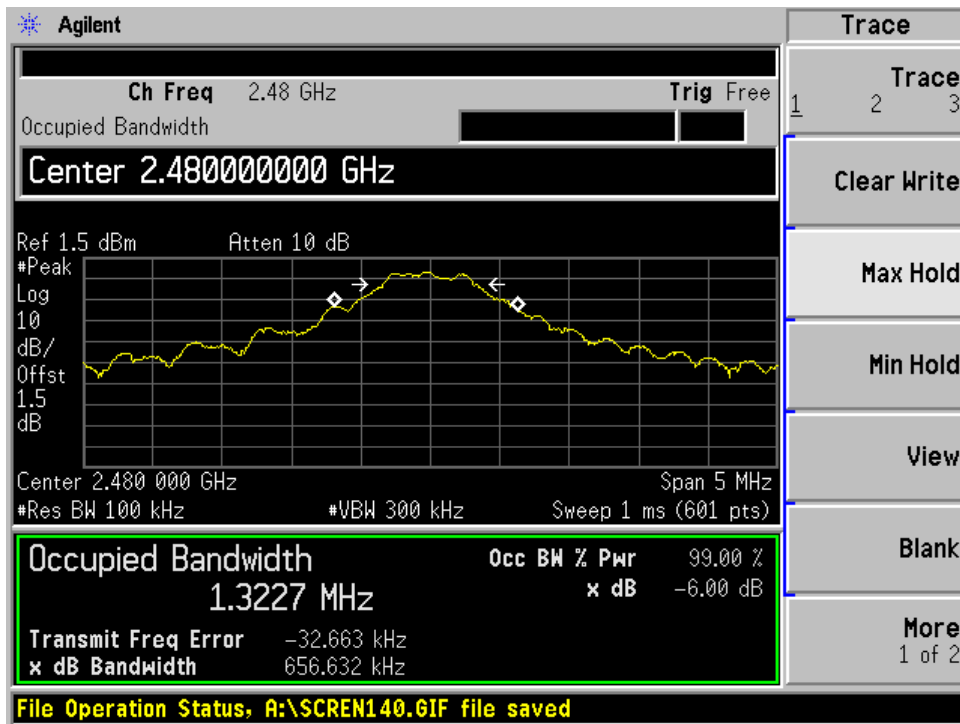
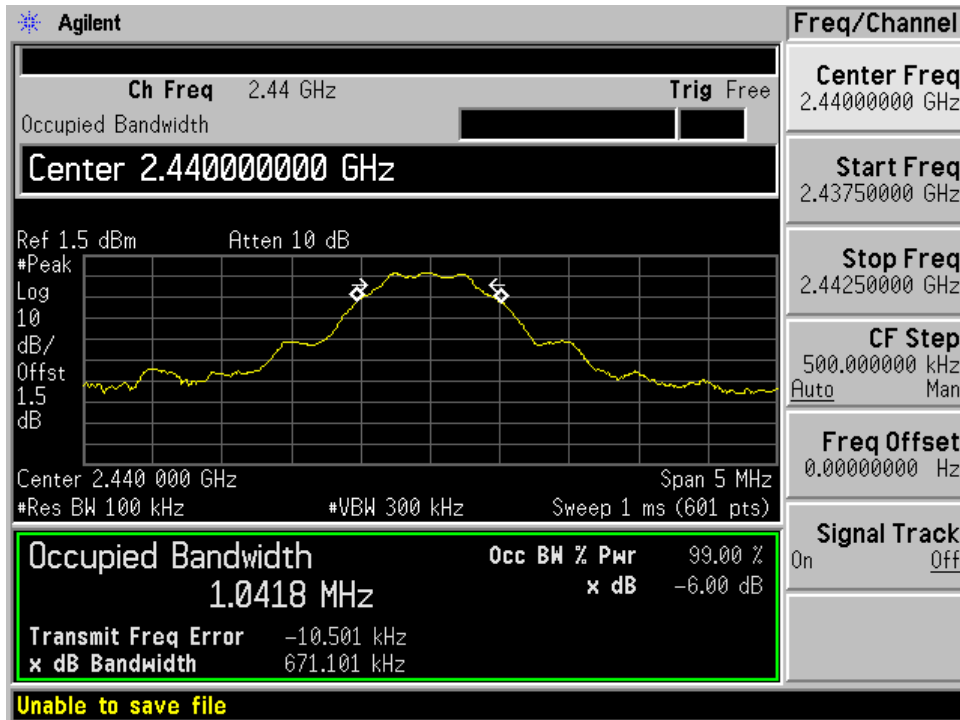
### Test result

Frequency MHz	6 dB Bandwidth kHz	Limit kHz	Result
2402	647.933	≥ 500	Pass
2442	671.101	≥ 500	Pass
2480	656.632	≥ 500	Pass

Frequency MHz	%99 Bandwidth MHz	Limit kHz	Result
2402	1.0334	--	Pass
2442	1.0418	--	Pass
2480	1.3227	--	Pass



20 dB bandwidth





Product Service

## Test Equipment

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL.DUE.DATE
Spectrum Analyzer	Agilent	E4446A	US44300459	May 07, 2013

## 7.6 Power spectral density

### Test Method

- 1 Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2 Set the spectrum analyzer as RBW = 3 kHz, VBW = 10 kHz, Span = 300 kHz, Sweep = 100 s
- 3 Record the max reading.

### Limit

Limit  
dBm / 3 kHz

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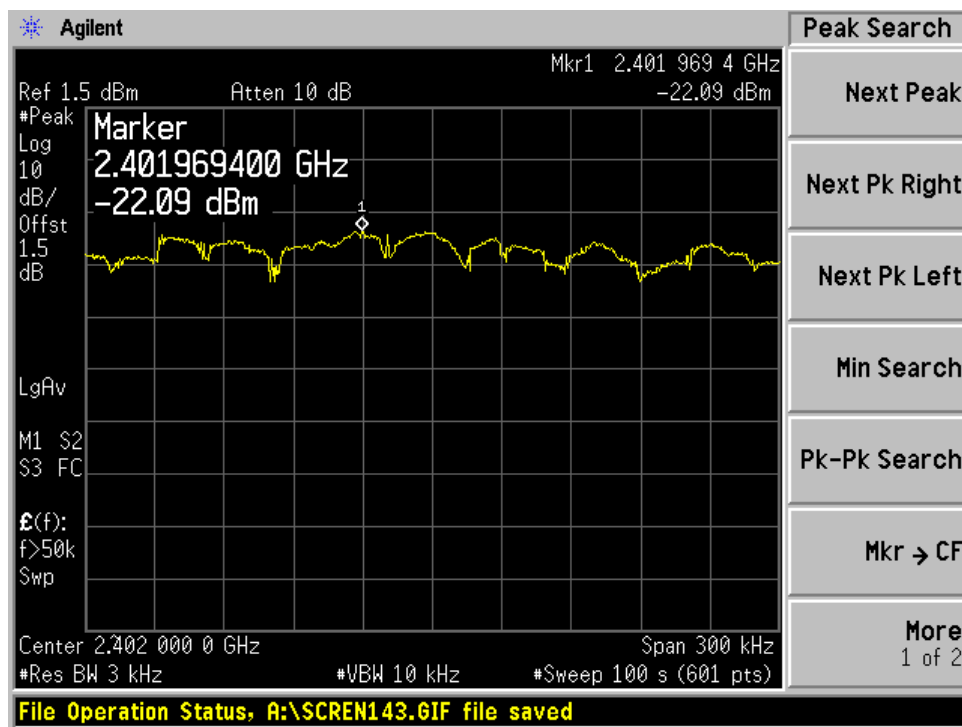
8



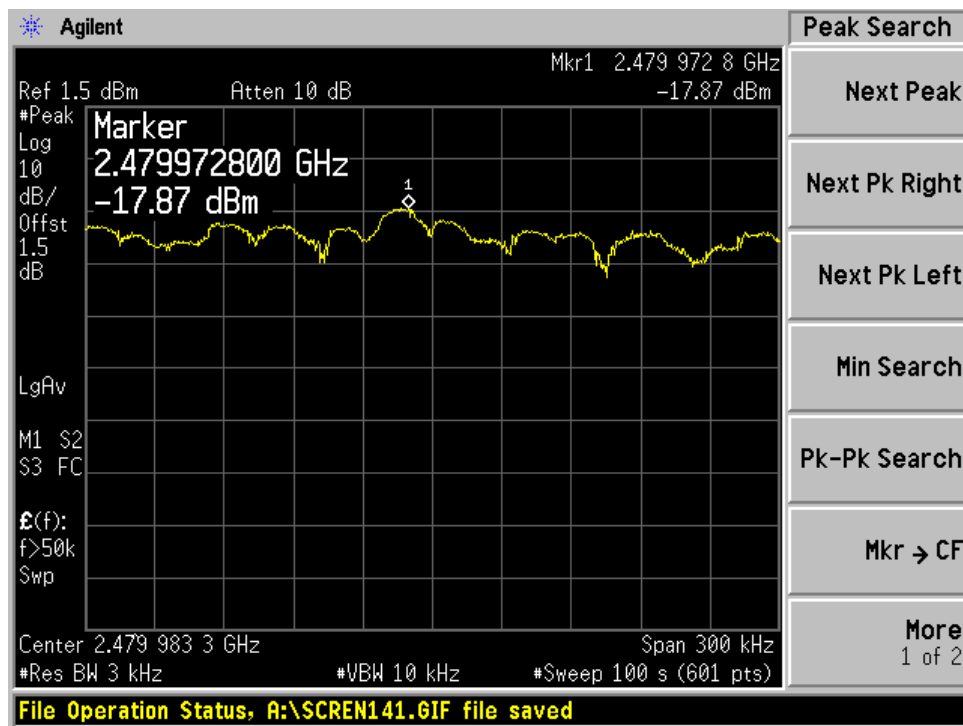
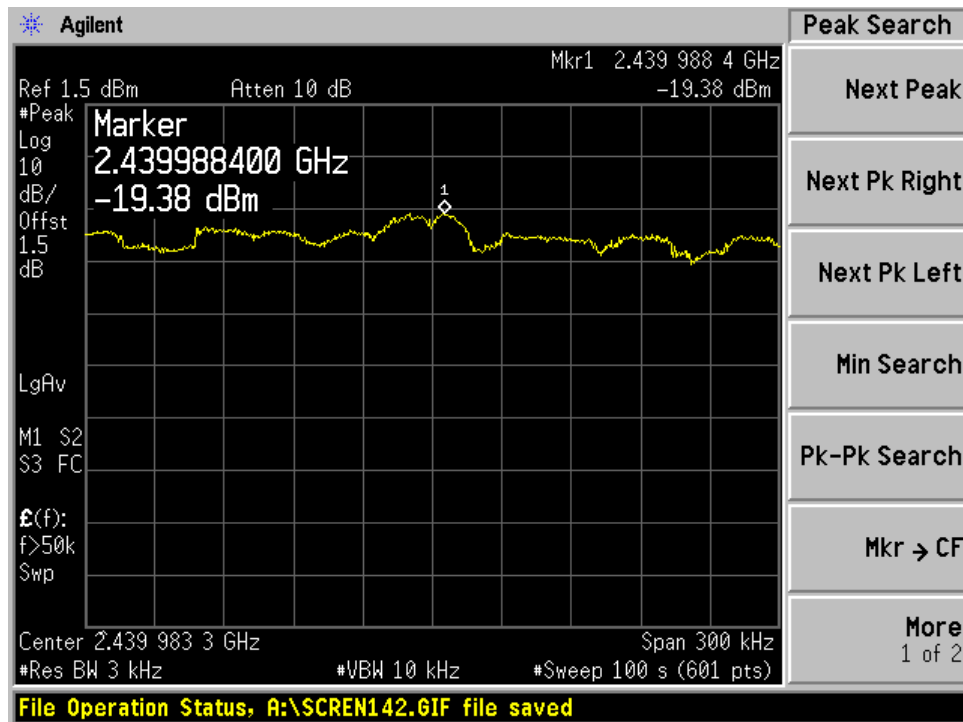
## Power spectral density

### Test Result

Frequency MHz	P dBm	Result
2402	-22.09	Pass
2442	-19.38	Pass
2480	-17.87	Pass



## Power spectral density





Product Service

## Test Equipment

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL.DUE.DATE
Spectrum Analyzer	Agilent	E4446A	US44300459	May 07, 2013



## 8 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

**System Measurement Uncertainty**

Items		Extended Uncertainty
RE	Field strength (dB $\mu$ V/m)	U=4.32dB (30MHz-25GHz)
CE	Disturbance Voltage (dB $\mu$ V)	U=2.4dB