TEST REPORT

Product	:	WisePad
Trade mark	:	N/A
Model/Type reference	:	WisePad
Serial number	:	N/A
Ratings	:	Input: 5V⎓, 500mA (Battery: 3,7V⎓ 320mAh), Class III, IPX0
FCC ID	:	2AB7XWISEPAD
Report number	:	EESZG03100008-2
Date	:	Apr. 08, 2014
Regulations	:	See below

Test Standards	Results
☒ 47 CFR FCC Part 15 Subpart C 15.247: 2013	PASS

Prepared for:

BBPOS Limited
RM812, 8/F., Grand City Plaza, No. 1 Sai Lau Kok Road, Tsuen Wan, N.T., Hong Kong

Prepared by:

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Tested by: _____ Reviewed by: _____

Approved by: _____ Date: Apr. 08, 2014

Jimmy Li
Lab manager

Check No.: 1702064607

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N/A means not applicable.

1. GENERAL INFORMATION

Applicant: BBPOS Limited
RM812, 8/F., Grand City Plaza, No. 1 Sai Lau Kok Road, Tsuen Wan, N.T., Hong Kong

Manufacturer: BBPOS Limited
RM812, 8/F., Grand City Plaza, No. 1 Sai Lau Kok Road, Tsuen Wan, N.T., Hong Kong

FCC ID: 2AB7XWISEPAD

Product: WisePad

Trade mark: N/A

Model/Type reference: WisePad

Serial number: NA

Report number: EESZG03100008-2

Sample Received Date: Mar. 11, 2014

Sample tested Date: Mar. 11, 2014 to Apr. 08, 2014

The above equipment was tested by Centre Testing International (Shenzhen) Corporation for compliance with the requirements set forth in the FCC Rules and the measurement procedure according to ANSI C63.4:2009.

2. PRODUCT INFORMATION

Items	Description
Rating	Input: 5V⎓, 500mA (Battery: 3,7V⎓ 320mAh), Class III, IPX0
Intentional Transceiver	Intentional Transceiver
Modulation	Frequency Hopping Spread Spectrum (FHSS), GFSK
Data Rate	1 Mbps
Frequency Range	2402 ~ 2480 MHz
Channel Number	79 (at intervals of 1MHz)
Type	Integral antenna
Connector	fixed on board
Gain	0dBi

3. TEST SUMMARY

No.	Test Item	Rule	Test Result
1	Conducted Emission (CE)	FCC 15.207	**PASS**
2	20dB Bandwidth	FCC 15.247(a)(1)	**PASS**
3	Carrier Frequency Separation	FCC15.247(a)(1)	**PASS**
4	Number of Hopping Frequency	FCC 15.247(a)(iii)	**PASS**
5	Time of Occupancy (Dwell Time)	FCC 15.247(a)(iii)	**PASS**
6	Maximum Peak Conducted Output Power	FCC 15.247(b)(1)	**PASS**
7	Band edge Emission	FCC 15.247(d)	**PASS**
8	Spurious RF Conducted Emission	FCC 15.247(d)	**PASS**
9	Radiated Emission	FCC 15.247(d)	**PASS**
10	Antenna Requirements *	FCC 15.203	**PASS**

*: According to 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. The EUT has a built in antenna which is a short wire solder on the PCB, this is permanently attached antenna and meets the requirements of this section.

4. MEASUREMENT UNCERTAINTY

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement items	Uncertainty
Conducted Emission Test	3.2 dB
Radiated Emissions / Bandedge Emission	4.5 dB

5. SYSTEM TEST CONFIGURATION

5.1 JUSTIFICATION

For emissions testing, the equipment under test (Product) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. It was powered by 3.7VDC. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed the lowest radio frequency signal

generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

5.2 PRODUCT EXERCISING SOFTWARE

The Product exercise program ISRT, (provided by client) used during testing was designed to exercise the various system components in a manner similar to a typical use.

The parameters of test software setting:
During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Channel No.	Data rate	Modulation Type
1 to 79	1 Mbps	GFSK

6. TABLE OF TEST MODE

Preliminary tests were performed the entire possible configuration in different modulation type and different data rate according to the following table to find the worst cases. And only one group of the worst - case data for each test item is shown in the report.

Test Items	Mode	Data Rate	Channel
20dB Bandwidth	GFSK	1 Mbps	1 / 40 / 79
Carrier Frequency Separation	GFSK	1 Mbps	1 and 2 /40 and 41 / 78 and 79
Number of Hopping Frequency	GFSK	1 Mbps	1 to 79
Time of Occupancy (Dwell Time)	GFSK	1 Mbps	1 / 40 / 79
Maximum Peak Conducted Output Power	GFSK	1 Mbps	1 / 40 / 79
Band edge Emission	GFSK	1 Mbps	1 / 79
Spurious RF Conducted Emission	GFSK	1 Mbps	1 / 40 / 79
Radiated Emission	GFSK	1 Mbps	1 / 40 / 79

7. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Due Date
Receiver	R&S	ESCI	100009	07/19/2014
LISN	R&S	ENV216	100098	07/19/2014
3M Chamber & Accessory Equipment	ETS-LINDGREN	FACT-3	3510	07/12/2016
Spectrum Analyzer	Agilent	E4440A	MY46185649	07/06/2014
Spectrum Analyzer	R&S	FSP40	100416	07/06/2014
Receiver	R&S	ESCI	100435	07/19/2014
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	618	06/25/2014
Horn Antenna	ETS-LINGREN	3117	00057362	07/19/2014
Microwave Preamplifier	Agilent	8449B	3008A02425	04/16/2014
Multi device Controller	ETS-LINGREN	2090	00057230	N/A

8. SUPPORT EQUIPMENT LIST

No.	Device Type	Brand	Model	Series No.	Data Cable	Remark
1.	Notebook	DELL	Vostro 3400	GYQTVP1	N/A	FCC DOC
2.	Mouse	L.Selectron	M004	02284699	Un-shielded 1.2M	FCC DOC

Notes:
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

9. CONDUCTED EMISSION TEST

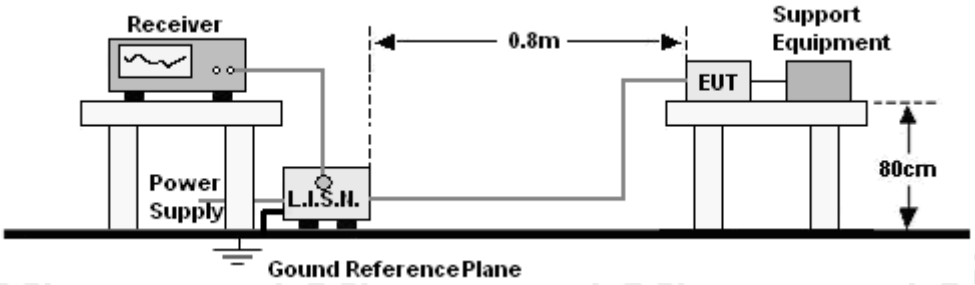
9.1. LIMITS

Frequency range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

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

9.2. BLOCK DIAGRAM OF TEST SETUP



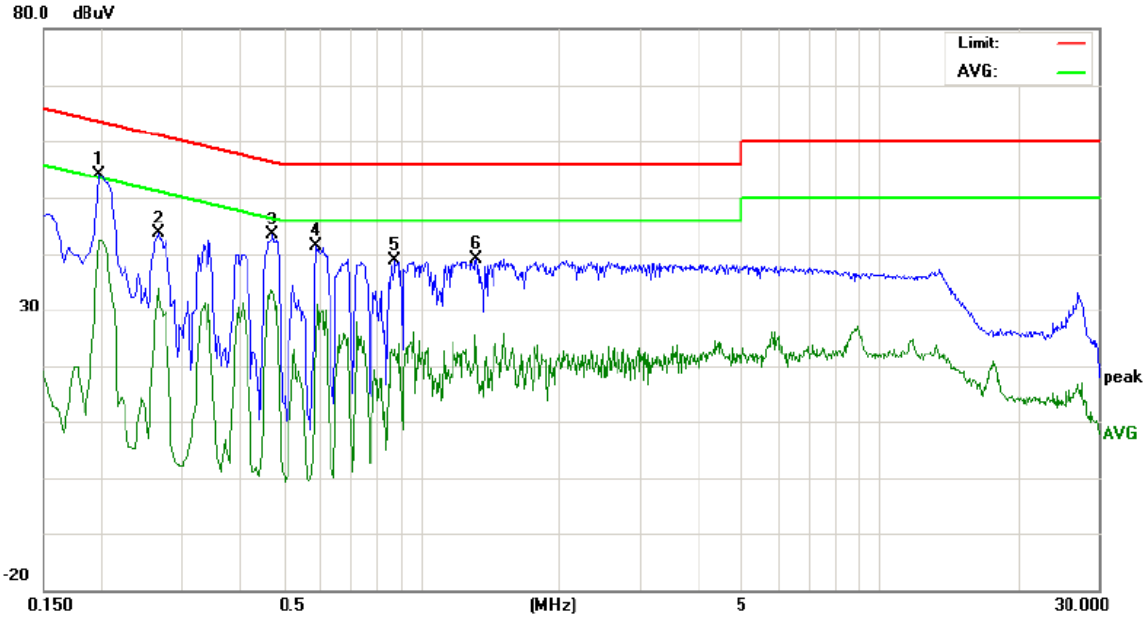
9.3. PROCEDURE OF CONDUCTED EMISSION TEST

a. The Product was placed on a nonconductive table above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

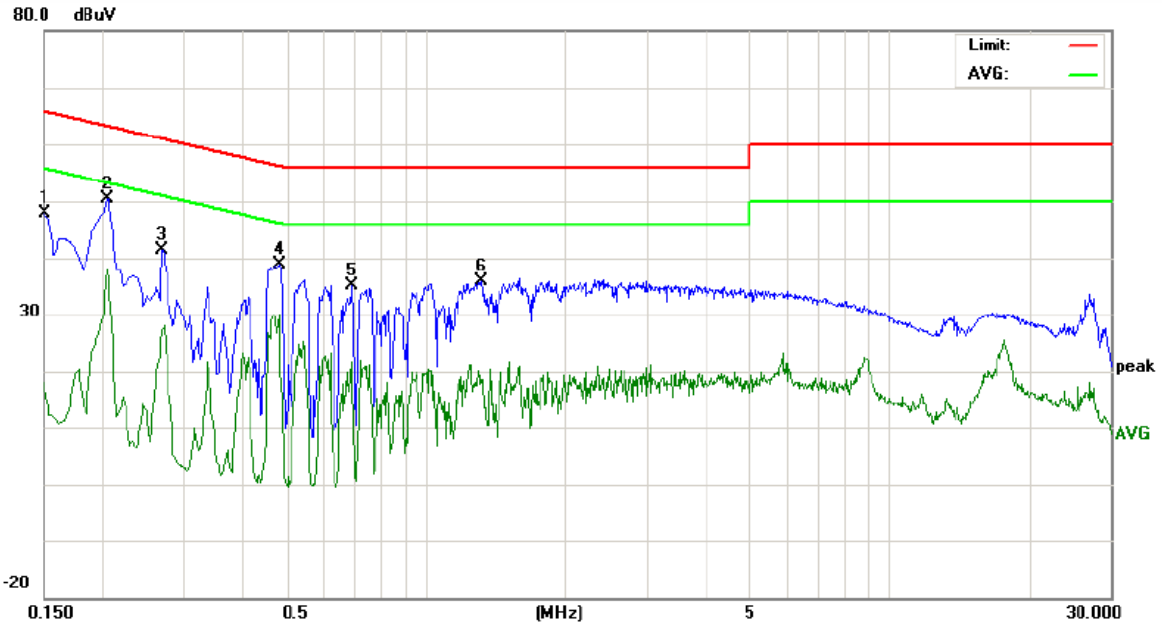
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

9.4. GRAPHS AND DATA



Site site #1 Phase: L1 Temperature: 18
Limit: FCC CE Power: AC 120V/60Hz Humidity: 58 %
EUT: WisePad
M/N: WisePad
Mode: hopping off keeping TX
Note:

No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1980	44.25		32.56	9.81	54.06		42.37	63.69	53.69	-9.63	-11.32	P	
2	0.2660	33.84		24.18	9.81	43.65		33.99	61.24	51.24	-17.59	-17.25	P	
3	0.4740	33.53		23.45	9.81	43.34		33.26	56.44	46.44	-13.10	-13.18	P	
4	0.5899	31.66		13.19	9.82	41.48		23.01	56.00	46.00	-14.52	-22.99	P	
5	0.8780	28.99		12.24	9.85	38.84		22.09	56.00	46.00	-17.16	-23.91	P	
6	1.3180	29.28		12.21	9.87	39.15		22.08	56.00	46.00	-16.85	-23.92	P	



Site site #1 Phase: N Temperature: 18

Limit: FCC CE Power: AC 120V/60Hz Humidity: 58 %

EUT: WisePad

M/N: WisePad

Mode: hopping off keeping TX

Note:

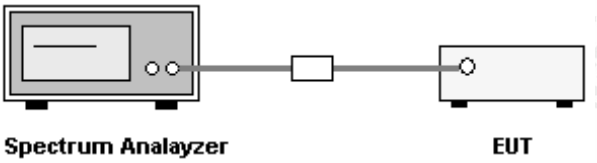
No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1500	38.19		8.46	9.79	47.98		18.25	65.99	55.99	-18.01	-37.74	P	
2	0.2060	40.66		28.36	9.81	50.47		38.17	63.36	53.36	-12.89	-15.19	P	
3	0.2700	31.68		17.51	9.81	41.49		27.32	61.12	51.12	-19.63	-23.80	P	
4	0.4820	29.12		20.42	9.81	38.93		30.23	56.30	46.30	-17.37	-16.07	P	
5	0.6940	25.39		6.25	9.84	35.23		16.09	56.00	46.00	-20.77	-29.91	P	
6	1.3180	25.88		8.23	9.87	35.75		18.10	56.00	46.00	-20.25	-27.90	P	

10. 20DB BANDWIDTH OCCUPIED BANDWIDTH MEASUREMENT

10.1. LIMITS

None

10.2. BLOCK DIAGRAM OF TEST SETUP

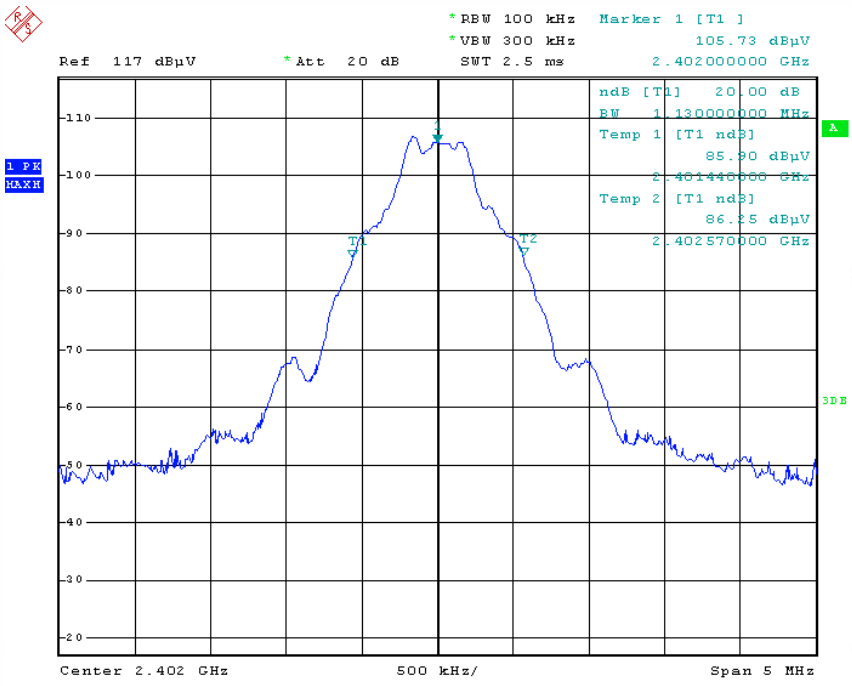


10.3. TEST PROCEDURE

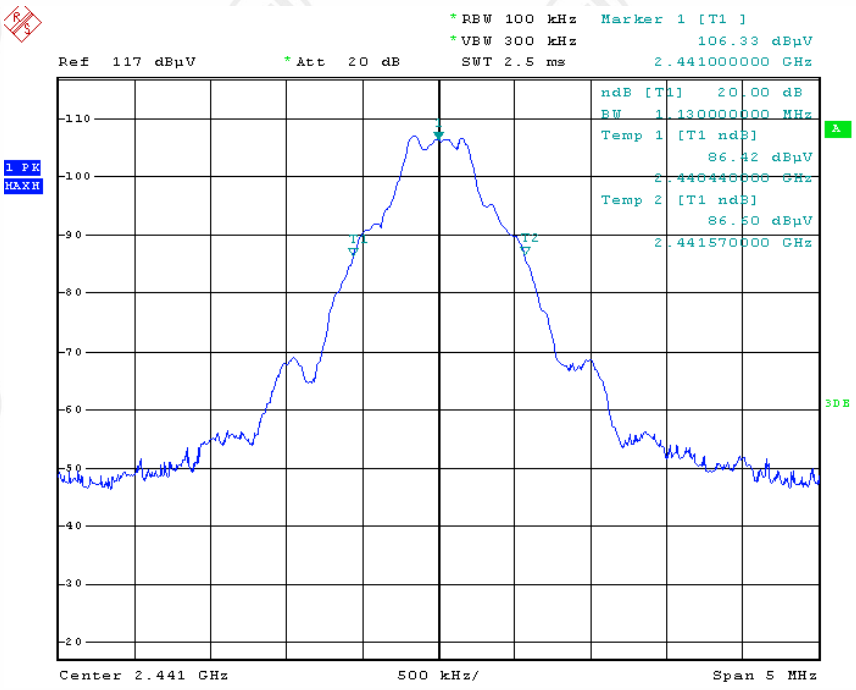
1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Set spectrum analyzer's RBW and VBW to applicable value with Peak in Max Hold.
3. A PEAK output reading and 20dB OBW function in spectrum analyzer were taken.

10.4. TEST RESULT

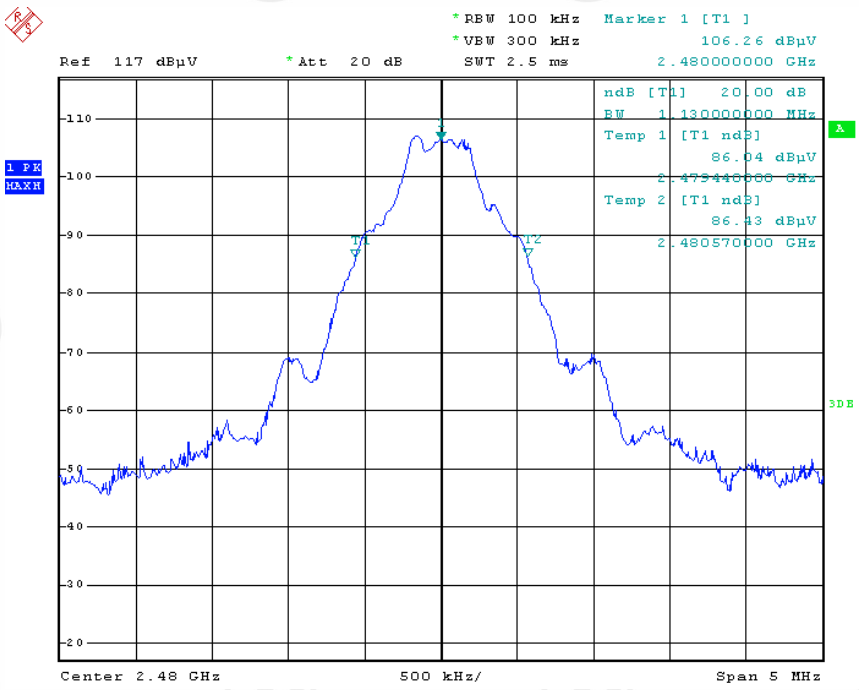
Frequency (MHz)	20 dB BW (MHz)
2402	1.13
2441	1.13
2480	1.13



2402 MHz



2441 MHz



2480 MHz

11. CARRIER FREQUENCY SEPARATION

11.1. LIMITS

Frequency hopping systems operating in the 2400-2483.5MHz 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 125mW.

11.2. BLOCK DIAGRAM OF TEST SETUP

11.3. TEST PROCEDURE

1. The transmitter output (antenna port) was connected to the spectrum analyzer.

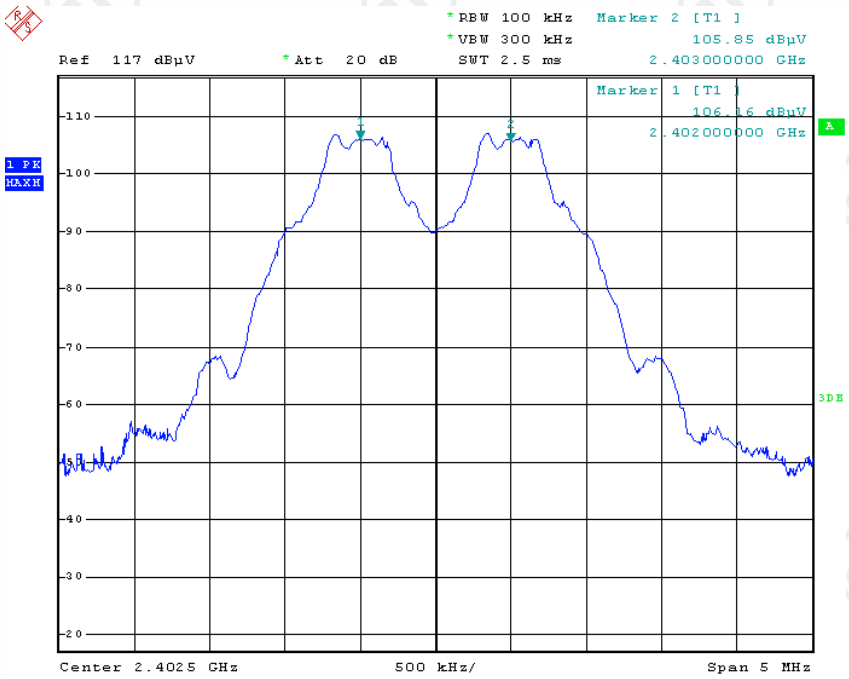
2. Set spectrum analyzer's RBW and VBW to applicable value with Peak in Max Hold. The original channel's carrier frequency was taken.

3. Make Product transmit in adjacent channel.

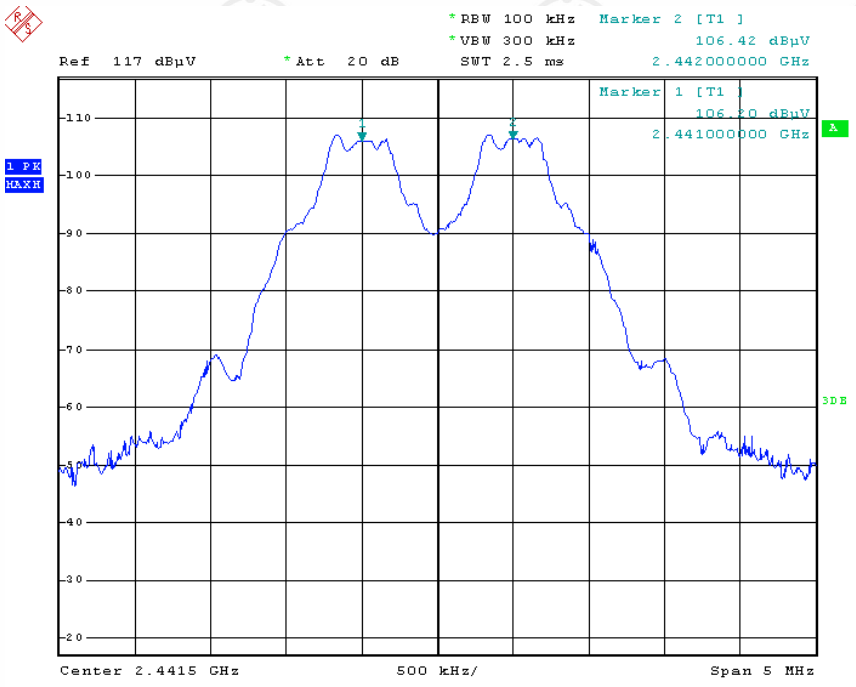
4. Use the delta maker button on spectrum analyzer to read the channel separation from the adjacent channel to original channel.

11.4. TEST RESULT

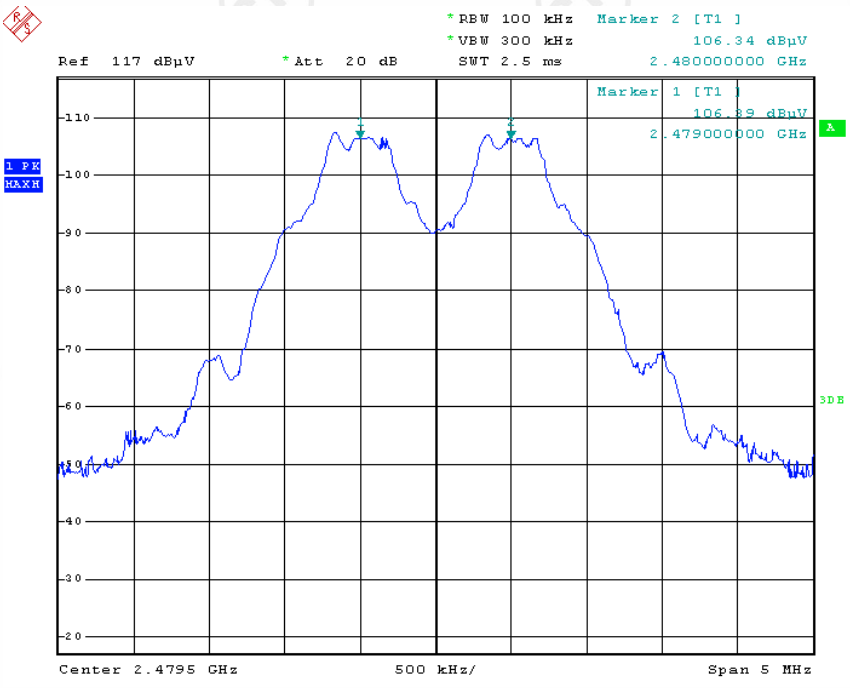
Carrier Frequency Separation: 1 MHz



2402 MHz



2441 MHz



2480 MHz

12. NUMBER OF HOPPING FREQUENCY

12.1. LIMITS

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

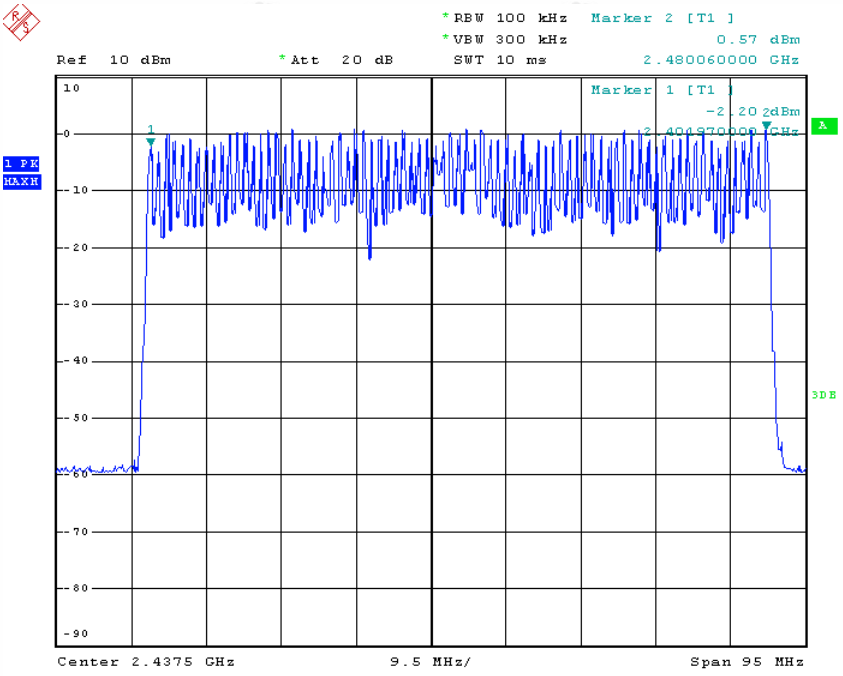
12.2. BLOCK DIAGRAM OF TEST SETUP

12.3. TEST PROCEDURE

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Set spectrum analyzer to Peak in Max Hold.
3. Make Product work continually, till all operation channels were recorded.

12.4. TEST RESULT

Number of Hopping Frequency is 79, with frequency space = 1MHz.

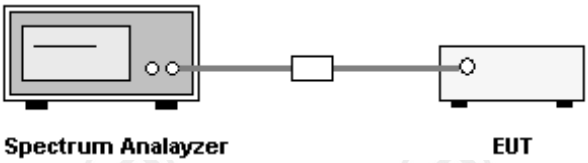


13. TIME OF OCCUPANCY (DWELL TIME)

13.1. LIMITS

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.

13.2. BLOCK DIAGRAM OF TEST SETUP



13.3. TEST PROCEDURE

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Set spectrum analyzer's RBW and VBW to applicable value with Peak in Max Hold.
3. Measured pulse time and Time separation.

13.4. TEST RESULT

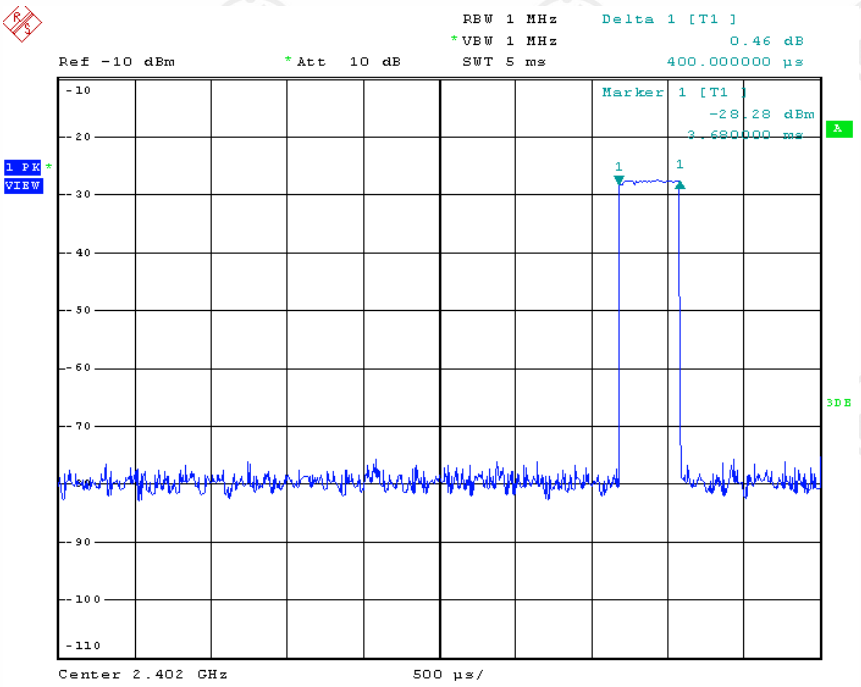
Frequency (MHz)	Pulse Wide(ms)		Dwell Time (ms)	Limit (s)	Result (Pass / Fail)
2402	DH1	0.40	128.0	0.4	Pass
	DH3	1.66	265.6		
	DH5	2.90	309.3		
2441	DH1	0.40	128.0	0.4	Pass
	DH3	1.64	262.4		
	DH5	2.90	309.3		
2480	DH1	0.39	124.8	0.4	Pass
	DH3	1.64	262.4		
	DH5	2.90	309.3		

Remark:

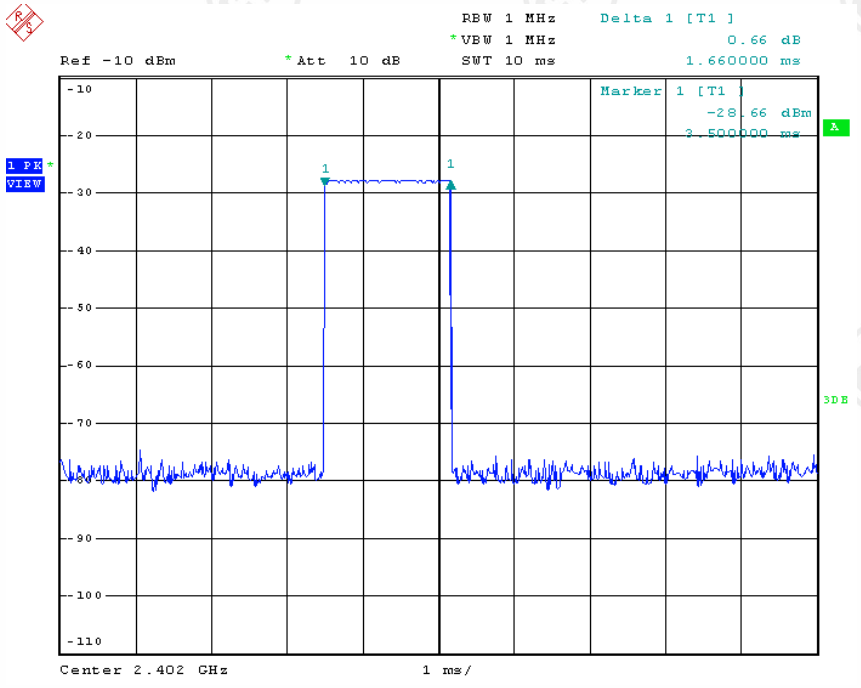
DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, total hops is 10.12 x 31.6 = 320

DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So, total hops is 5.06 x 31.6 = 160

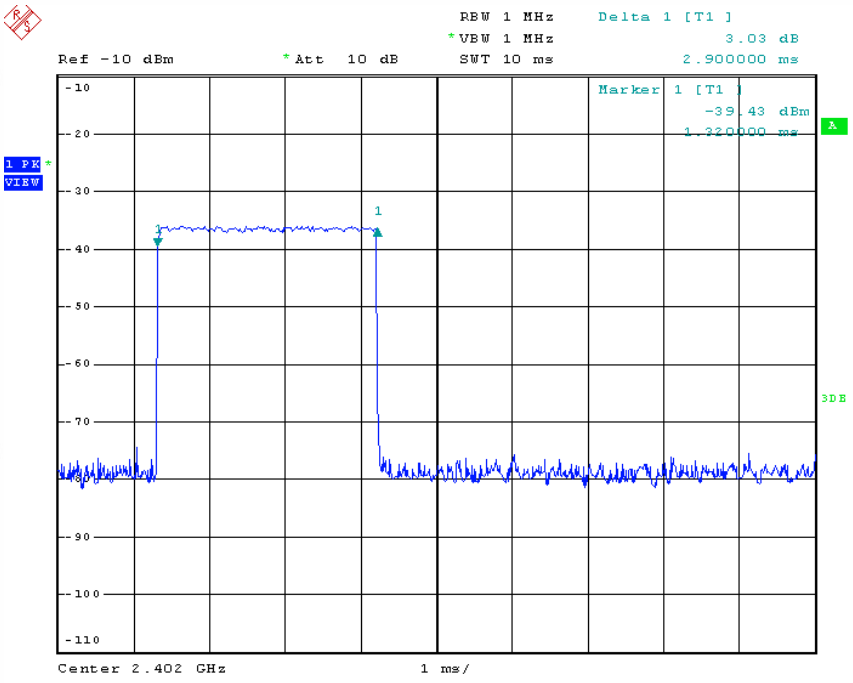
DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, total hops is 3.37 x 31.6 = 106.67



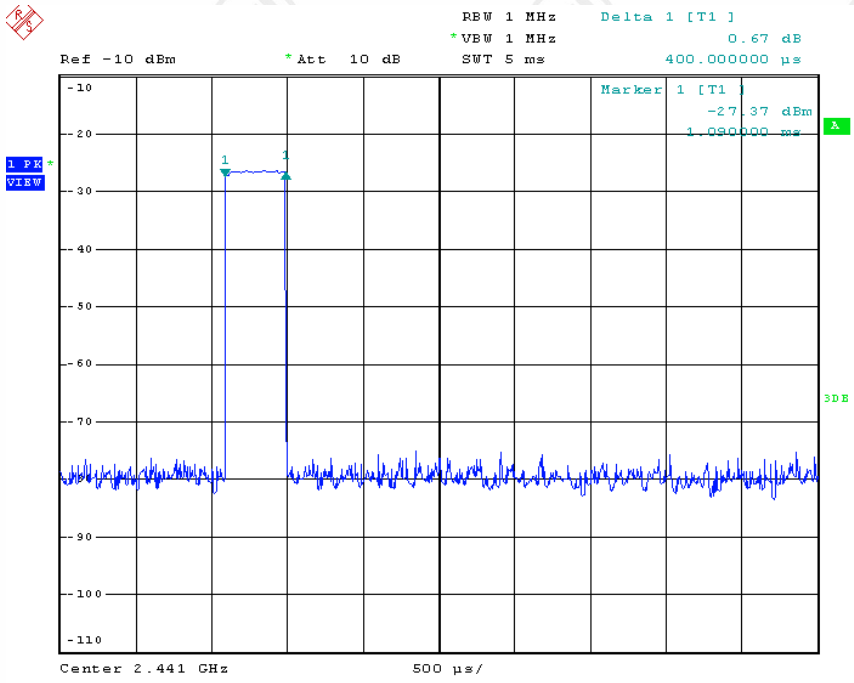
Channel 1_ 2402 MHz_DH1



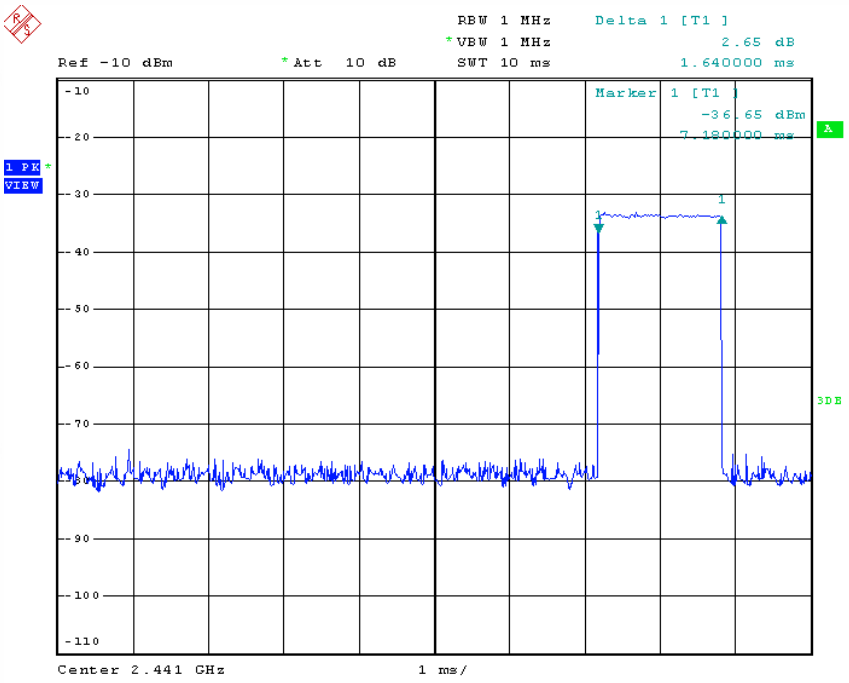
Channel 1_ 2402 MHz_DH3



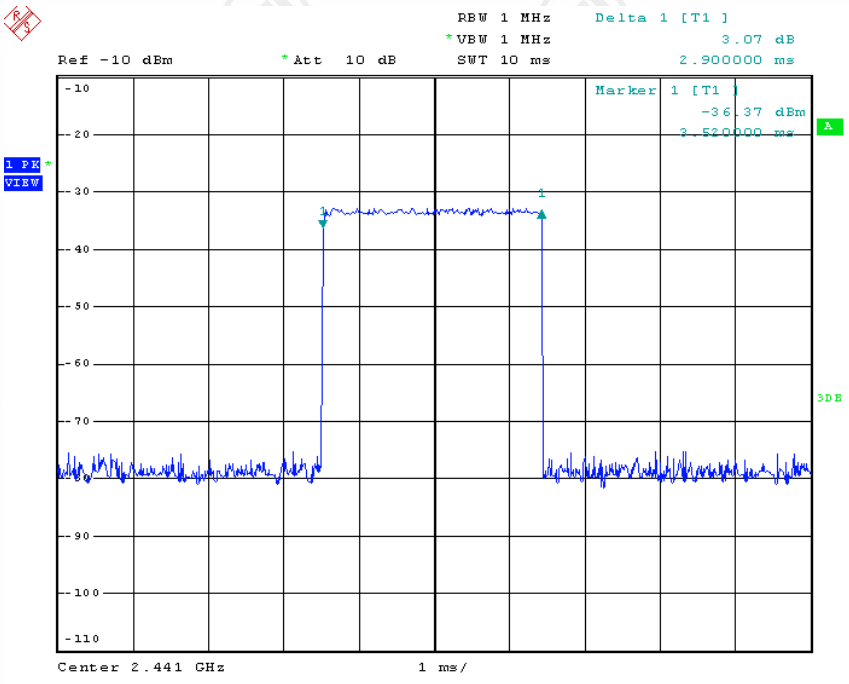
Channel 1_ 2402 MHz_DH5



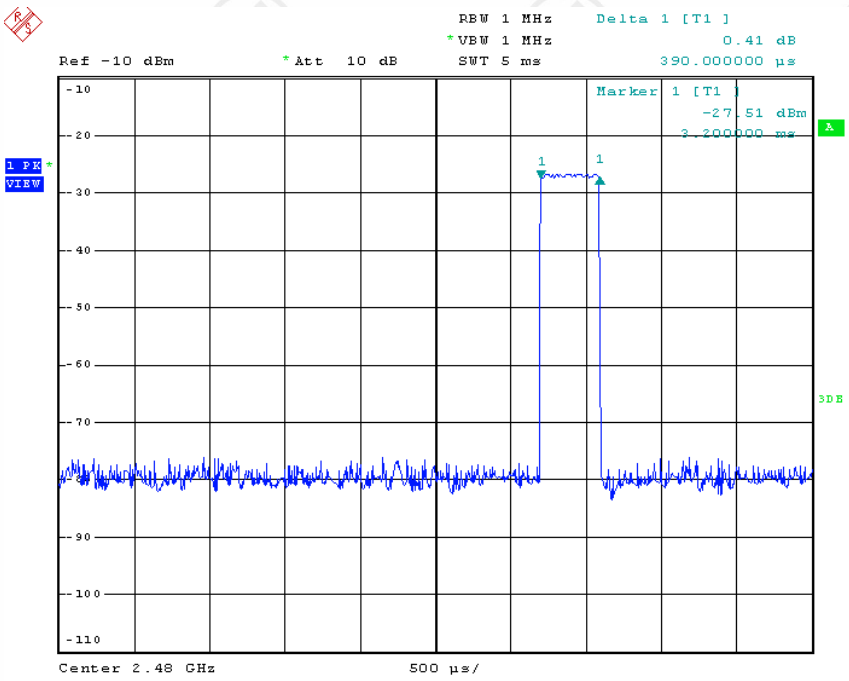
Channel 40_ 2441 MHz_DH1



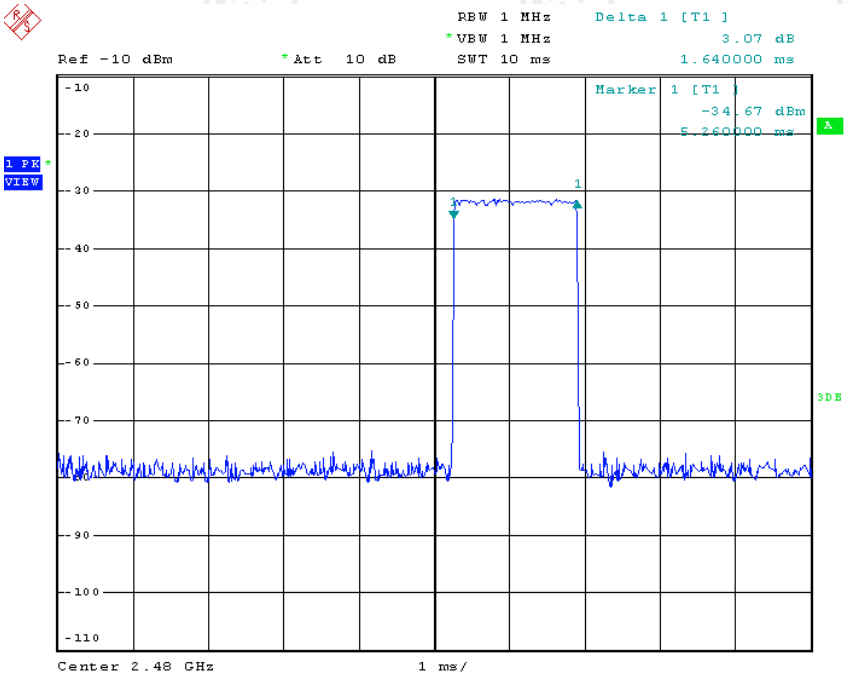
Channel 40_ 2441 MHz_DH3



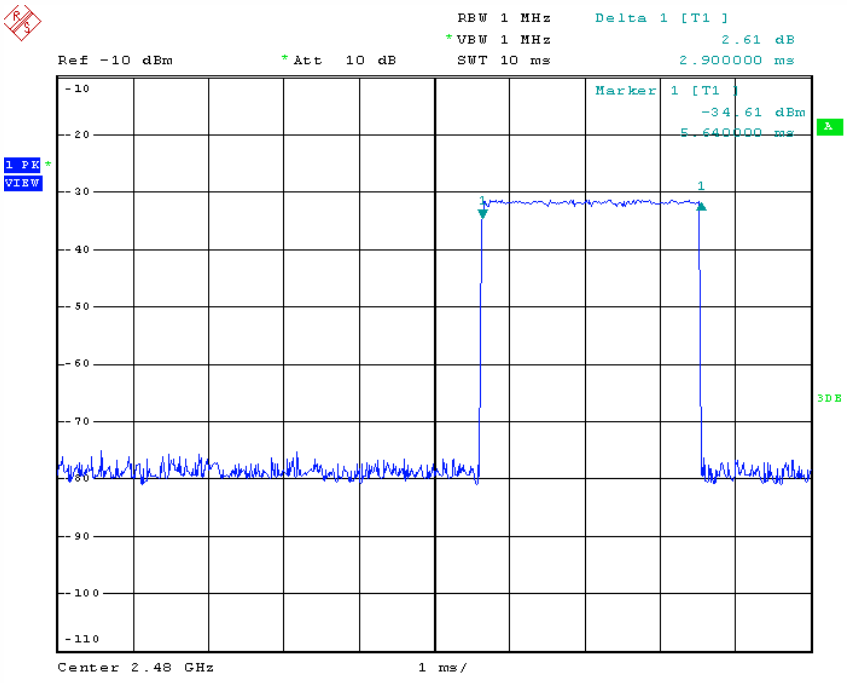
Channel 40_ 2441 MHz_DH5



Channel 79_ 2480 MHz_DH1



Channel 79_ 2480 MHz_DH3



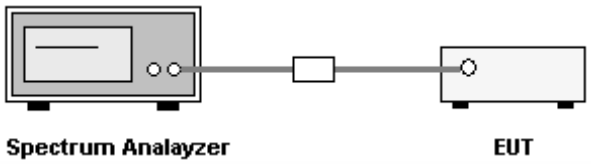
Channel 79_ 2480 MHz_DH5

14. MAXIMUM PEAK CONDUCTED OUTPUT POWER MEASUREMENT

14.1. LIMITS

The limit for peak output power is 0.125Watt (21dBm).

14.2. BLOCK DIAGRAM OF TEST SETUP

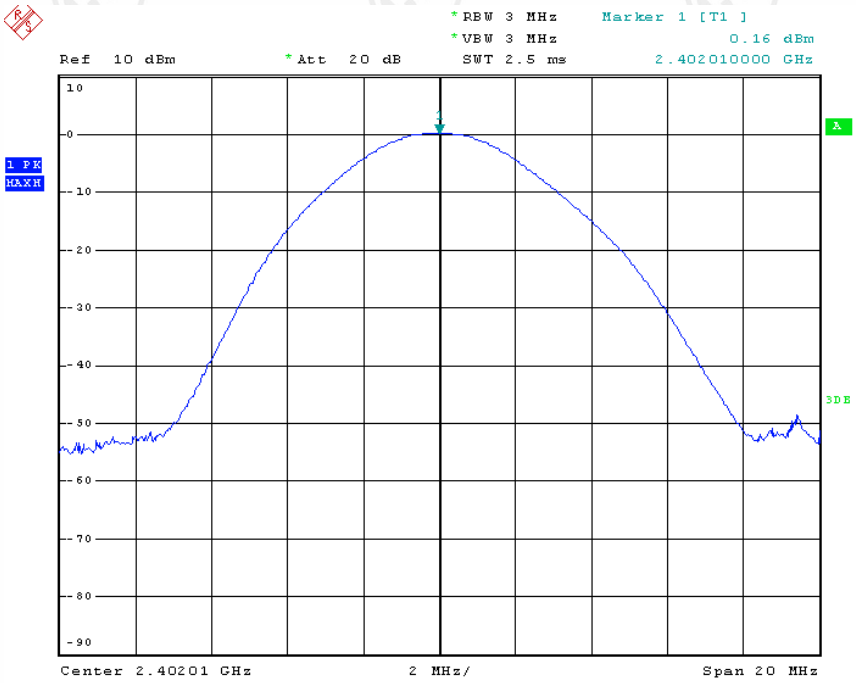


14.3. TEST PROCEDURE

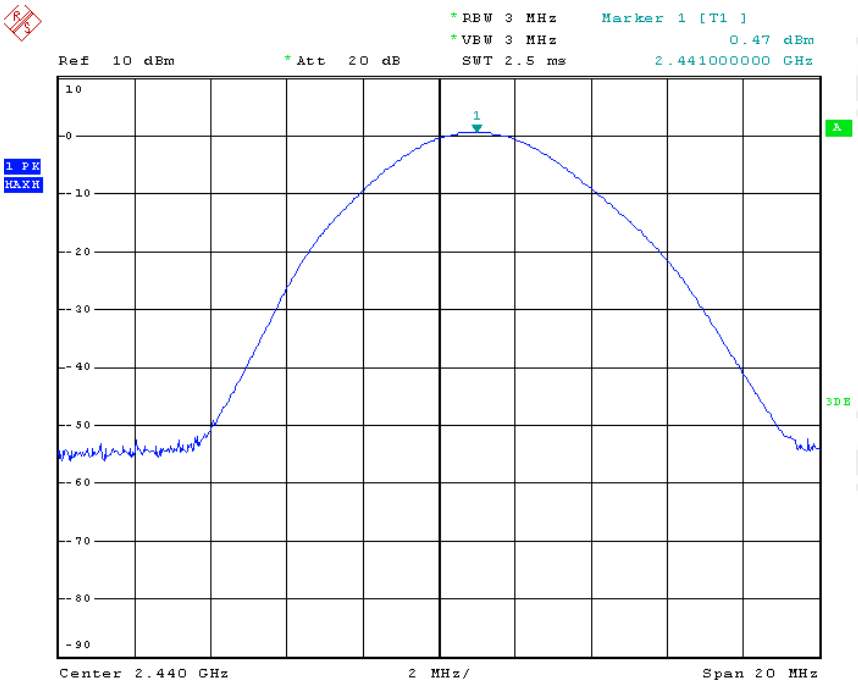
1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Set spectrum analyzer's RBW and VBW to applicable value with Peak in Max Hold.
3. Record the channel power directly from the spectrum analyzer.

14.4. TEST RESULT

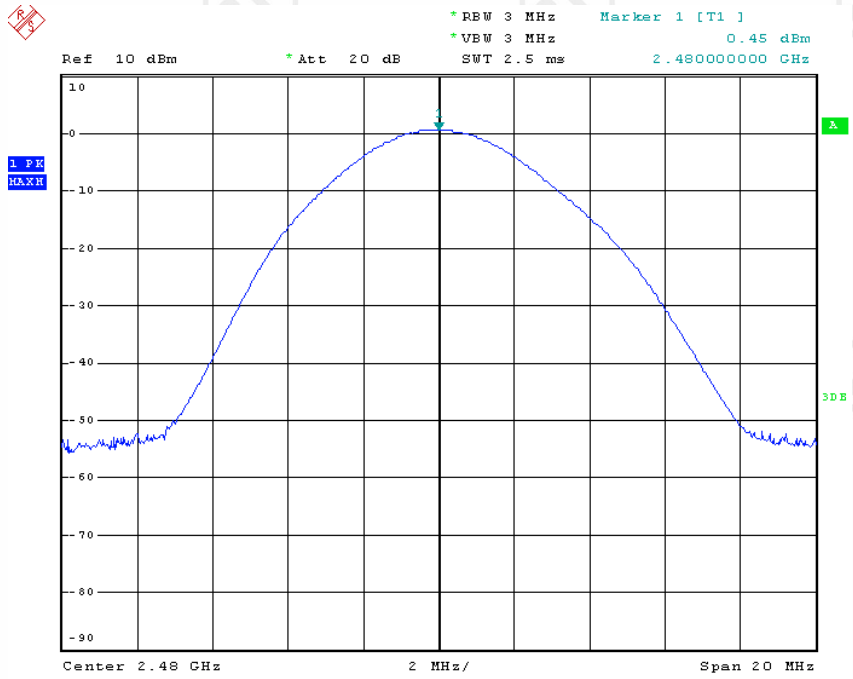
Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result (Pass / Fail)
2402	0.16	21	Pass
2441	0.47	21	Pass
2480	0.45	21	Pass



2402MHz



2441MHz



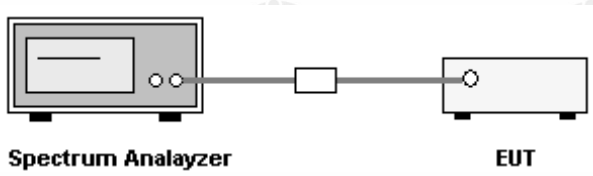
2480MHz

15. BAND EDGE EMISSION MEASUREMENT

15.1. LIMITS

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).

15.2. BLOCK DIAGRAM OF TEST SETUP



15.3. TEST PROCEDURE

1. Set spectrum analyzer's RBW and VBW to applicable value with Peak in Max Hold.

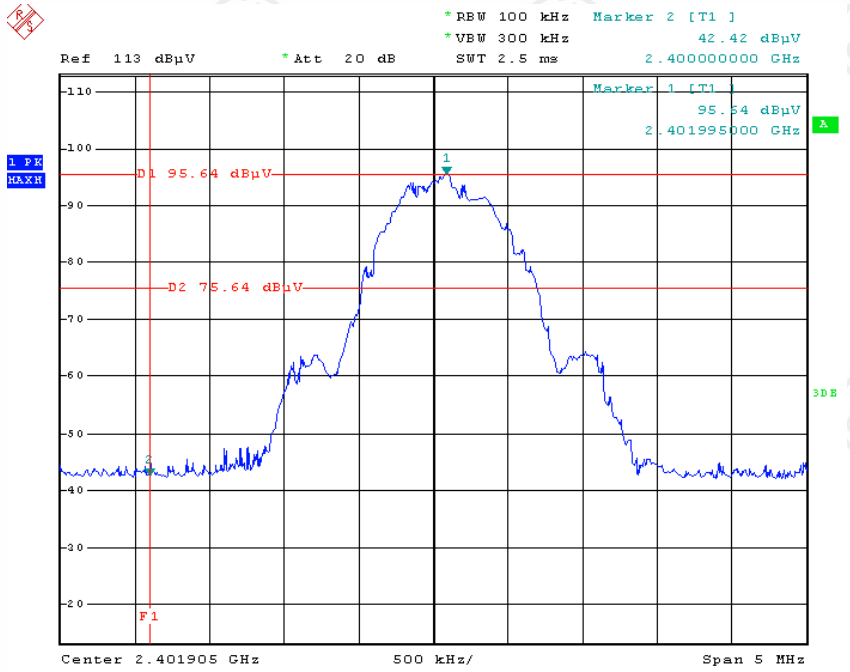
2. Record the emission drops at the band-edge relative to the highest fundamental emission level.

3. Use the marker-delta method to determine band-edge compliance as required.

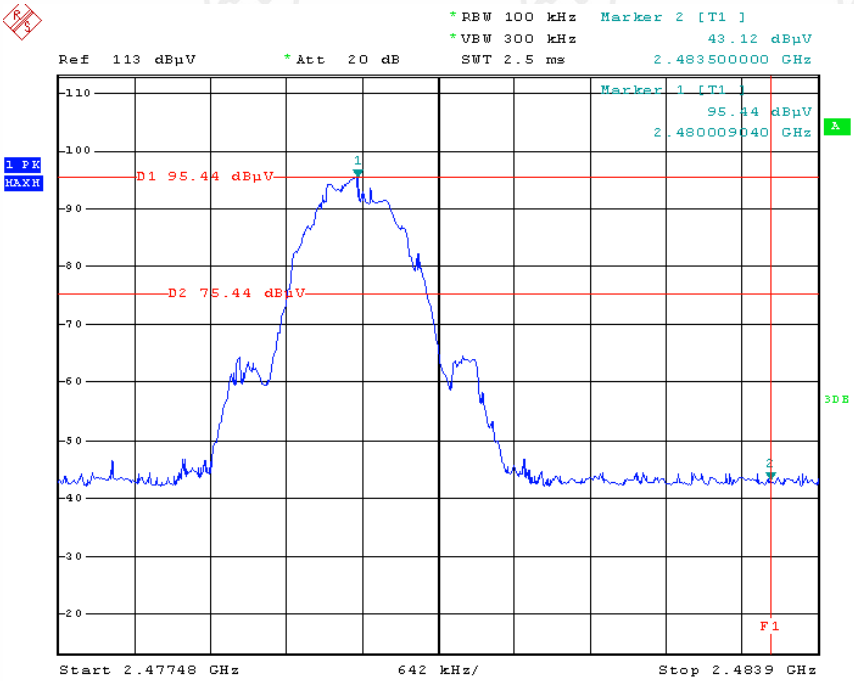
15.4. TEST RESULT

Pass.

Hopping off mode:

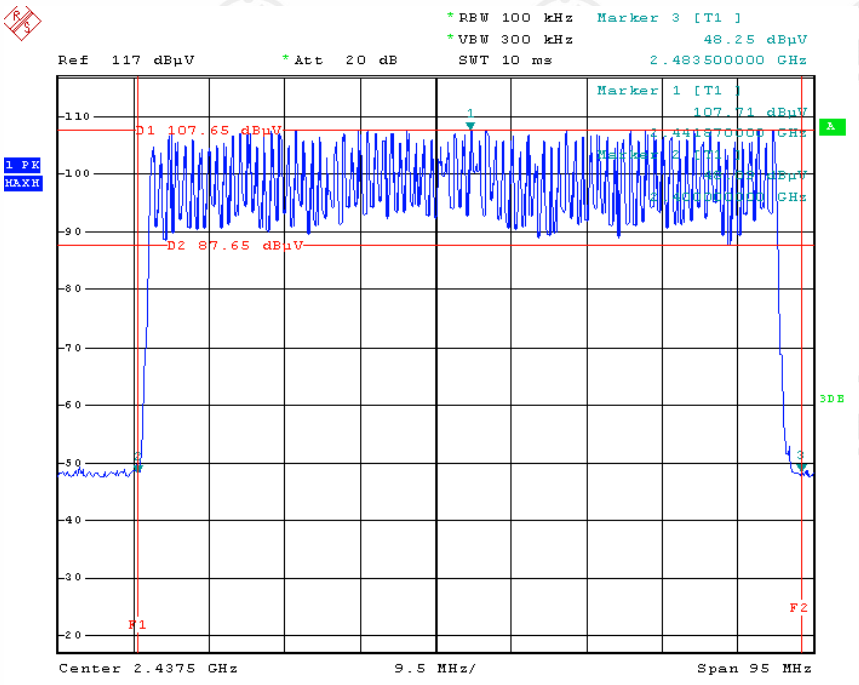


2402MHz



2480MHz

Hopping mode:

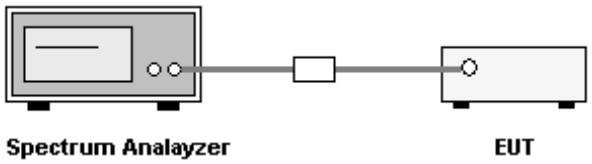


16. SPURIOUS RF CONDUCTED EMISSIONS MEASUREMENT

16.1. LIMITS

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.

16.2. BLOCK DIAGRAM OF TEST SETUP



16.3. TEST PROCEDURE

1. The transmitter output (antenna port) was connected to the spectrum analyzer.

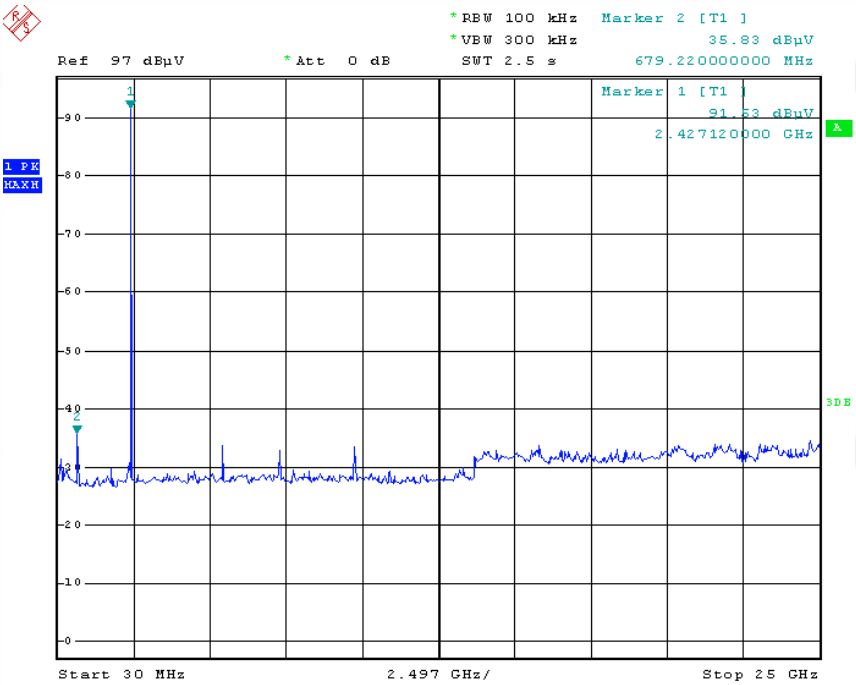
2. Set spectrum analyzer's RBW and VBW to applicable value with Peak in Max Hold.

3. Record the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the Product up through the 10th harmonic.

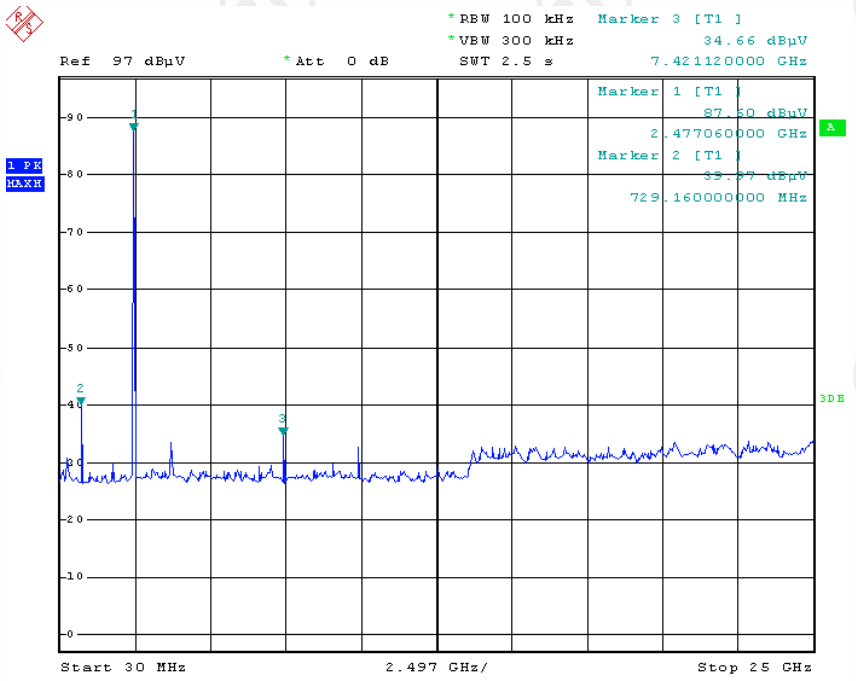
16.4. TEST RESULT

Please see the following plots.

2402MHz



2441MHz



2480MHz

17. RADIATED EMISSIONS MEASUREMENT

17.1. LIMITS

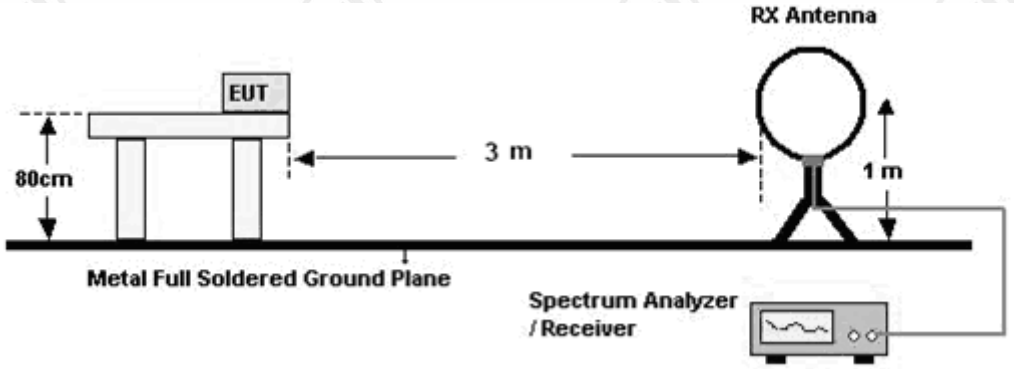
The field strength of any emissions, which appear outside of operating frequency band and restricted band specified on FCC 15.205(a), shall not exceed the general radiated emission limits as below.

Frequency (MHz)	Field strength (μV/m)	Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

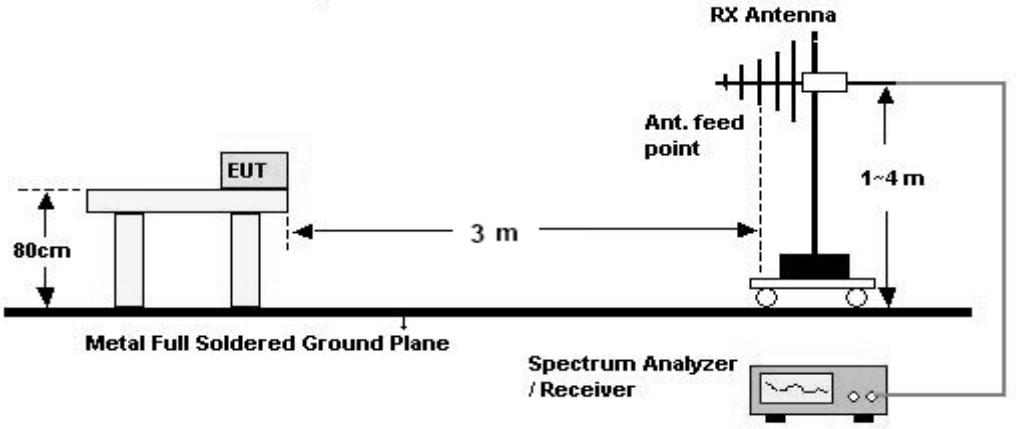
Note: the tighter limit applies at the band edges.

17.2. BLOCK DIAGRAM OF TEST SETUP

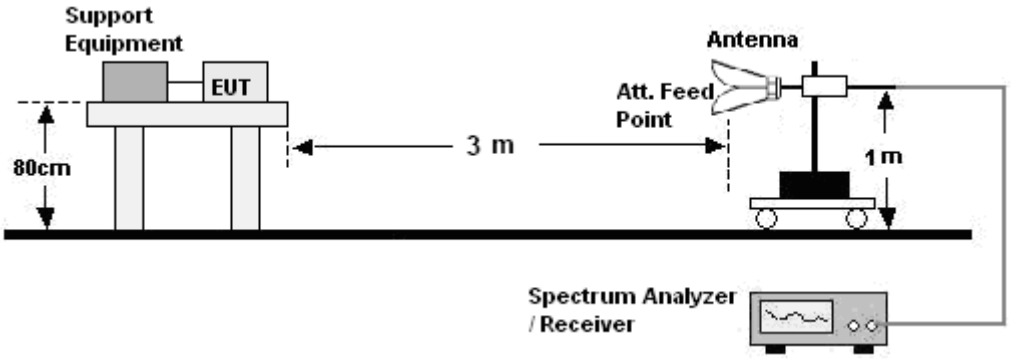
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30 - 1000MHz



For radiated emissions from 1GHz to 25GHz



17.3. TEST PROCEDURE

30MHz ~ 1GHz:

a. The Product was placed on the non-conductive turntable 0.8m above the ground at a chamber.

b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 100 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

c. For each frequency whose maximum record was higher or close to limit, measure its QP value (120 kHz RBW): vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

Below 30MHz

a. The Product is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The maximum values of the field strength are recorded by adjusting the polarizations of the test antenna and rotating the turntable.

b. For each suspected emission, the Product was arranged to its worst case and then turn table was turned from 0 degrees to 360 degrees to find the maximum reading.

c. The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

Above 1GHz:

a. The EUT was placed on the non-conductive turntable 0.8 m above the ground at a chamber.

b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

17.4. TEST RESULT

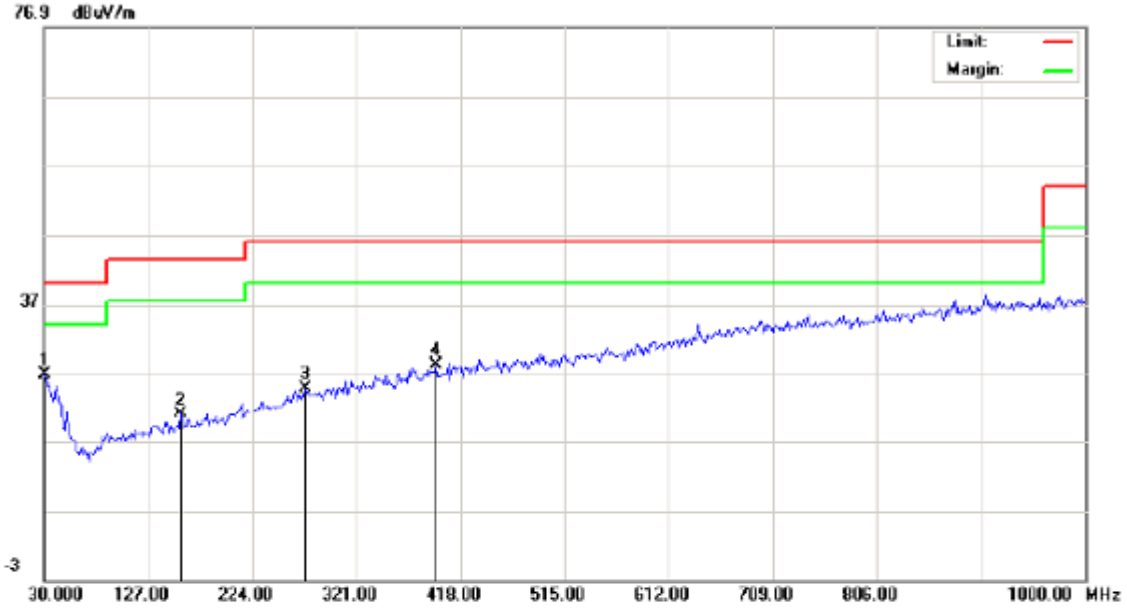
A. Below 30MHz:

No emissions were found higher than the background below 30MHz and background is lower than the limit, so it deems to compliance with the limit without recorded.

B. 30MHz ～ 1GHz:

The test data of low channel, middle channel and high channel are almost same in frequency bands 30MHz to 1GHz, and the data of middle channel are chosen as representative in below:

H:



Site site #1 Polarization: *Horizontal* Temperature: 16

Limit: FCC PART15.207 Power: DC 5V Humidity: 52 %

EUT: Clean Wipe Keyboard Bluetooth

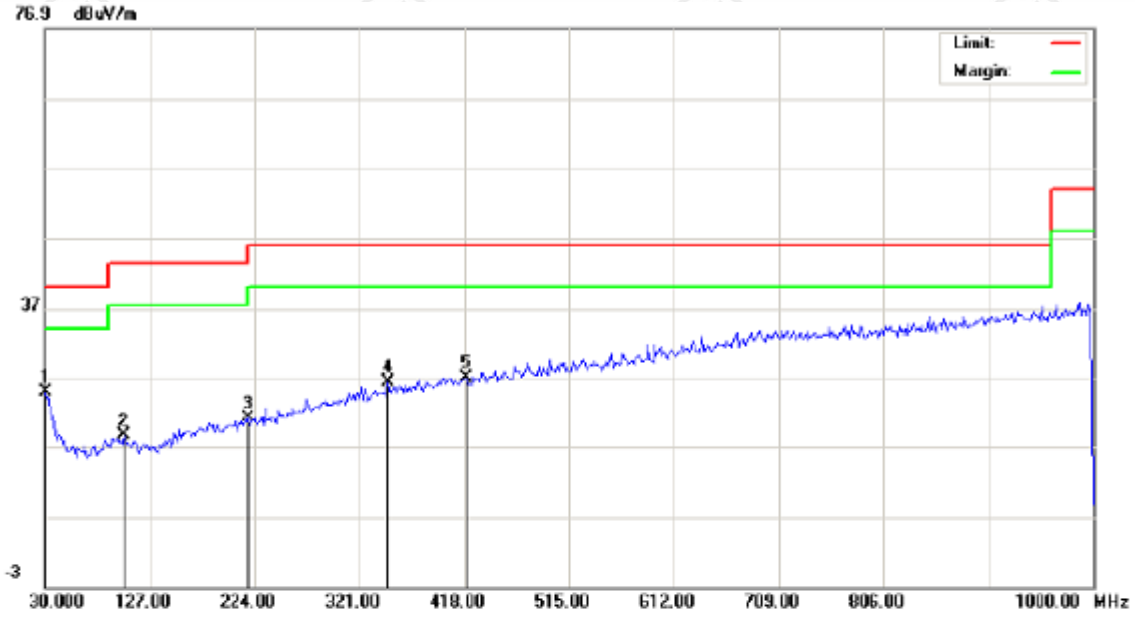
M/N: SSKSV099BT

Mode: hopping off Keeping TX

Note:

No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)		
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F Comment
1	30.0000	7.29			19.55	26.84			40.00		-13.16		P
2	157.7167	9.13			11.81	20.94			43.50		-22.56		P
3	274.1167	8.95			15.86	24.81			46.00		-21.19		P
4	395.3667	9.11			19.11	28.22			46.00		-17.78		P

V:



Site site #1 Polarization: *Vertical* Temperature: 16

Limit: FCC PART15.207 Power: DC 5V Humidity: 52 %

EUT: Clean Wipe Keyboard Bluetooth

M/N: SSKSV099BT

Mode: hopping off Keeping TX

Note:

No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	30.0000	7.34			17.63	24.97			40.00		-15.03		P	
2	102.7500	8.30			10.24	18.54			43.50		-24.96		P	
3	217.5333	8.71			12.54	21.25			46.00		-24.75		P	
4	346.8667	9.41			17.03	26.44			46.00		-19.56		P	
5	419.6167	8.27			18.69	26.96			46.00		-19.04		P	

C. Above 1GHz:

Test Results-(Measurement Distance: 3m)_Channel low							
Frequency (MHz)	Measurement value			Limit		Antenna	Result
	PK (dBμV/m)	AV factor (dB)	AV (dBμV/m)	PK (dBμV/m)	AV (dBμV/m)	(H/V)	(P/F)
2390.000	35.12	---	---	74	54	H	P
2402.000*	105.31	---	---	---	---	H	P
2483.500	42.36	---	---	74	54	H	P
4804.000	45.23	---	---	74	54	H	P
2390.000	34.12	---	---	74	54	V	P
2402.000*	104.02	---	---	---	---	V	P
2483.500	41.02	---	---	74	54	V	P
4804.000	43.21	---	---	74	54	V	P

*: fundamental frequency

Test Results-(Measurement Distance: 3m)_Channel middle							
Frequency (MHz)	Measurement value			Limit		Antenna	Result
	PK (dBμV/m)	AV factor (dB)	AV (dBμV/m)	PK (dBμV/m)	AV (dBμV/m)	(H/V)	(P/F)
2390.000	34.63	---	---	74	54	H	P
2441.000*	106.91	---	---	---	---	H	P
2483.500	44.36	---	---	74	54	H	P
4882.000	44.23	---	---	74	54	H	P
2390.000	33.63	---	---	74	54	V	P
2441.000*	103.63	---	---	---	---	V	P
2483.500	42.96	---	---	74	54	V	P
4882.000	46.21	---	---	74	54	V	P

*: fundamental frequency

Test Results-(Measurement Distance: 3m)_Channel high							
Frequency (MHz)	Measurement value			Limit		Antenna	Result
	PK (dBμV/m)	AV factor (dB)	AV (dBμV/m)	PK (dBμV/m)	AV (dBμV/m)	(H/V)	(P/F)
2390.000	36.21	---	---	74	54	H	P
2480.000*	105.21	---	---	---	---	H	P
2483.500	43.21	---	---	74	54	H	P
4960.000	45.32	---	---	74	54	H	P
2390.000	35.12	---	---	74	54	V	P
2480.000*	102.36	---	---	---	---	V	P
2483.500	42.02	---	---	74	54	V	P
4960.000	44.36	---	---	74	54	V	P

*: fundamental frequency

Remark:
1. The above tables show that the frequencies peak data are all below the average limit, so the average data of these frequencies are deems to fulfill the average limits and not reported.
2. According to the emissions below 18GHz, the data curve is lower than the limit, and the data between 18GHz to 25GHz will be lower than the limit, so they are not recorded in the report.
3. All outside of operating frequency band and restricted band specified are below 15.209.

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

CONDUCTED EMISSION TEST SETUP

TEST SETUP OF RADIATED EMISSION (30MHz-1GHz)

TEST SETUP OF RADIATED EMISSION (above 1GHz)

APPENDIX 2 EXTERNAL PHOTOGRAPHS OF PRODUCT

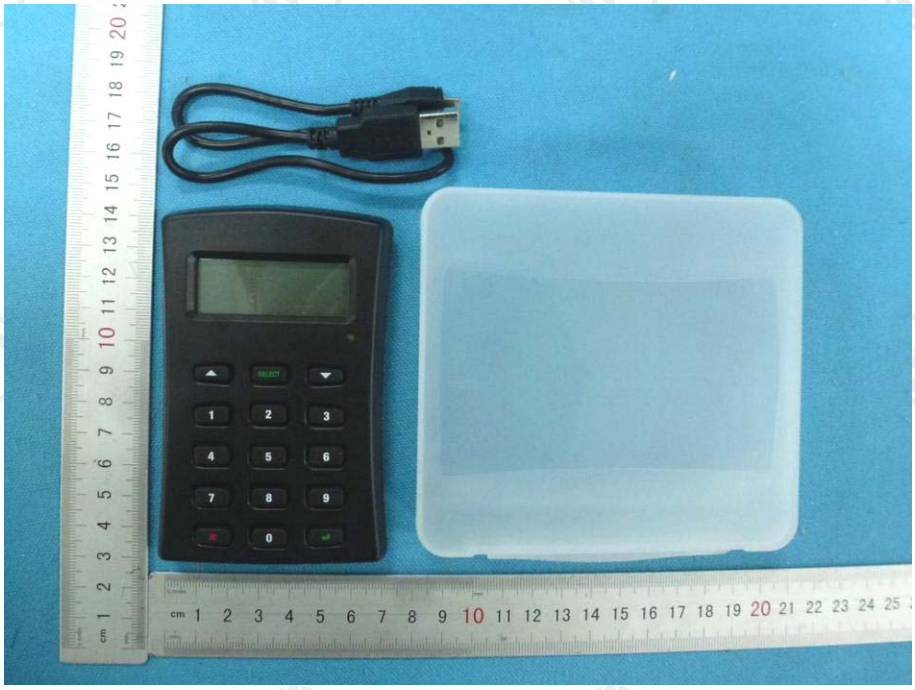


Fig.1- General View

Fig.2- General Front View

Fig.3- General Back View

APPENDIX 3 INTERNAL PHOTOGRAPHS OF PRODUCT

Fig.1- Inner View

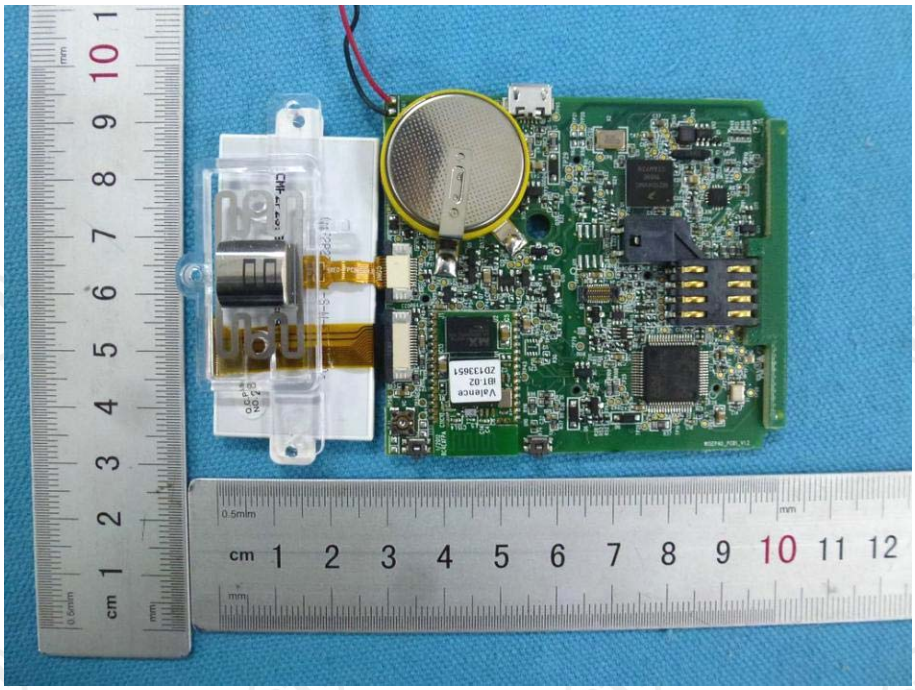


Fig.2- PCB View

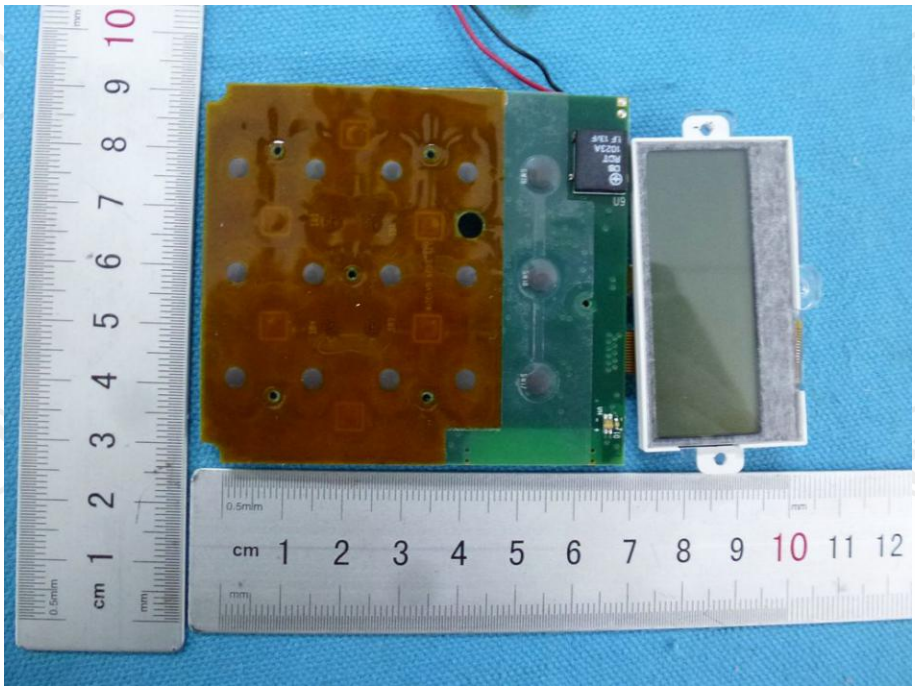


Fig.3- PCB View

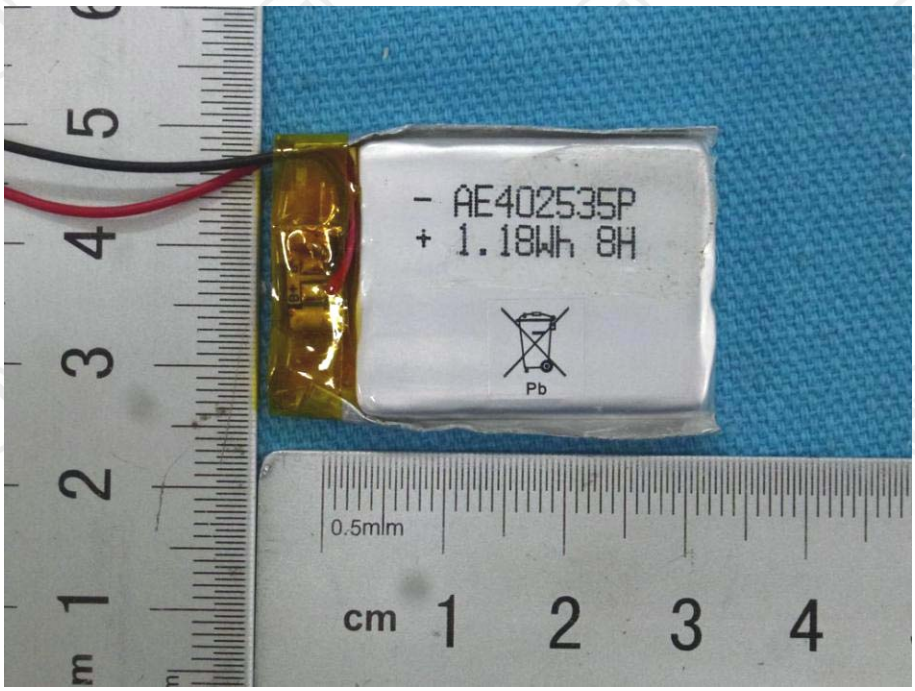


Fig.4- Battery View

*** End of Report ***