



Shenzhen EBO Technology Co., Ltd.

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Report No.: FCC14-RTE031301
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FCC REPORT

Applicant: Shenzhen Fatshark Co., Ltd
Address of Applicant: 8th floor, Building D, Longjing industrial Zone, Bantian,
Shenzhen, PRC

Equipment Under Test (EUT)

Product Name: FSTX5MW

Trade Mark: Fat shark

Model No.: FSV2461

FCC ID: 2ABYQFSV2461

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2013

Date of sample receipt: March 3, 2014

Date of Test: March 3, 2014 To March 13, 2014

Date of report issued: March 13, 2014

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kevin Yu
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	March 13, 2014	Original

Prepared By:



Date:

March 13, 2014

Project Engineer

Check By:



Date:

March 13, 2014

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

N/A: not applicable.

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5 General Information

5.1 Client Information

Applicant:	Shenzhen Fatshark Co., Ltd
Address of Applicant:	8 th floor, Building D, Longjing industrial Zone, Bantian, Shenzhen, PRC
Manufacturer/Factory:	Shenzhen Fatshark Co., Ltd
Address of Manufacturer/Factory:	8 th floor, Building D, Longjing industrial Zone, Bantian, Shenzhen, PRC

5.2 General Description of EUT

Product Name:	FSTX5MW
Brand Name:	Fatshark
Model No.:	FSV2461
Operation Frequency:	5740MHz ~ 5860MHz
Channel numbers:	7
Channel separation:	20MHz
Modulation type:	FM
Antenna Type:	Integral
Antenna gain:	3dBi (declare by Applicant)
Power supply:	6-17V d.c.

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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5740MHz	3	5780MHz	5	5820MHz	7	5860MHz
2	5760MHz	4	5800MHz	6	5840MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	5740MHz
The middle channel	5800MHz
The Highest channel	5860MHz

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5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	99.74	102.70	100.58

Final Test Mode:

According to ANSI C63.4 standards, the test results is "worst setup":

Y axis (see the test setup photo)

5.4 Description of Support Units

None.

5.5 Test Facility

MRT Technology (Suzhou) Co., Ltd FCC Registered Test Site Number: 809388

5.6 Test Location

All tests were performed at:
D8 Building, Youxin Industrial Park, No.2 Tian'e,dang Rd., Wuzhong Economic Development Zone, Suzhou, 215104,China

5.7 Other Information Requested by the Customer

None.

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6 Test Instruments list

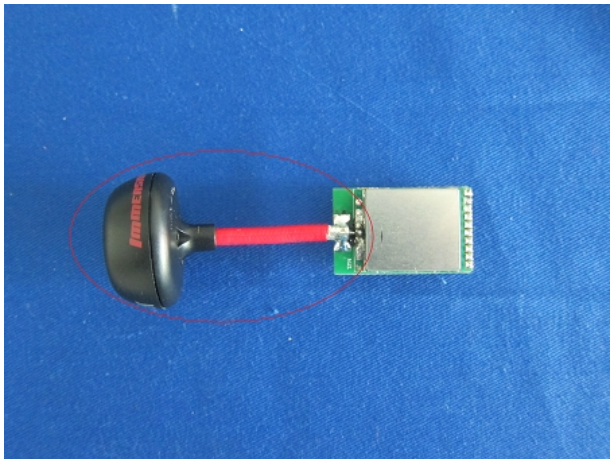
Radiated Test Equipment

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4447A	MY45300136	2014/11/08
EMI Test Receiver	R&S	ESR7	101209	2014/11/08
Preamplifier	MRT	AP01G18	1310002	2014/12/14
Preamplifier	MRT	AP18G40	1310003	2014/10/07
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	2014/11/24
Bilog Period Antenna	Schwarzbeck	VULB9162	9162-047	2014/11/24
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	2014/11/24
Horn Antenna	Schwarzbeck	BBHA9170	9170-549	2014/12/11
Temperature/Humidity Meter	Anymetre	TH101B	AC1-01	2014/11/15

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7 Test results and Measurement Data

7.1 Antenna requirement:

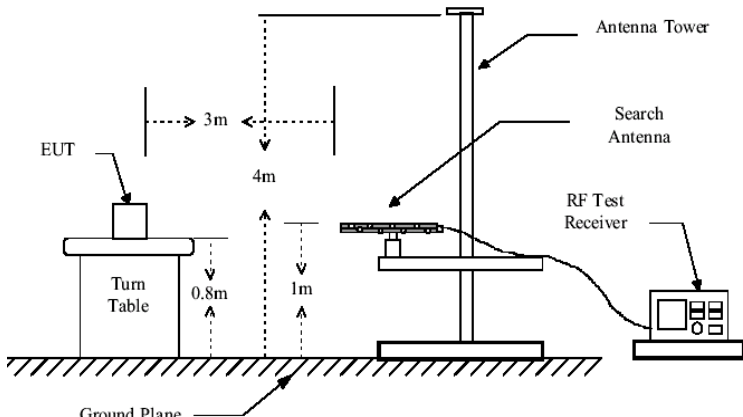
Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna: <i>The antenna is Integral Antenna, the best case gain of the antenna is 3dBi.</i>	
	

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7.2 Radiated Emission Method

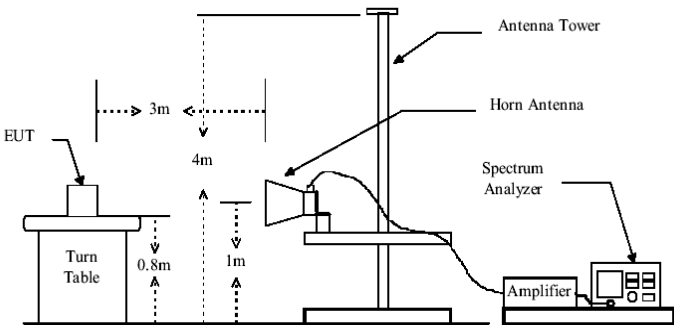
Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
	For field strength test, the RBW and VBW were set to 10MHz and 10MHz. PK detector is used for PK value, AV detector is used for AV value				
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	5725 ~ 5875MHz	94.00		Average Value	
		114.00		Peak Value	
Limit: (Spurious Emissions)	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.00		Quasi-peak Value	
	88MHz-216MHz	43.50		Quasi-peak Value	
	216MHz-960MHz	46.00		Quasi-peak Value	
	960MHz-1GHz	54.00		Quasi-peak Value	
	Above 1GHz	54.00		Average Value	
		74.00		Peak Value	
Limit: (band edge)	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, whichecker is the lesser attenuation.				
Test setup:	Below 1GHz 				

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	Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:

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7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization
5740.00	63.47	37.37	100.84	114.00	-13.16	Horizontal
5740.00	64.81	37.36	102.17	114.00	-11.83	Vertical
5800.00	64.69	37.59	102.28	114.00	-11.72	Horizontal
5800.00	64.03	37.59	101.62	114.00	-12.38	Vertical
5860.00	64.92	37.78	102.70	114.00	-11.30	Horizontal
5860.00	64.71	37.77	102.48	114.00	-11.52	Vertical

Average value:

Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization
5740.00	56.51	37.37	93.88	94.00	-0.12	Horizontal
5740.00	54.62	37.36	91.98	94.00	-2.02	Vertical
5800.00	55.58	37.59	93.17	94.00	-0.83	Horizontal
5800.00	55.26	37.59	92.85	94.00	-1.15	Vertical
5860.00	55.71	37.78	93.49	94.00	-0.51	Horizontal
5860.00	55.44	37.77	93.21	94.00	-0.79	Vertical

Remark:

1. Factor = Antenna Factor + Cable Loss – Preamp Factor
2. Measured Level = Reading Level + Factor

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7.2.2 Spurious emissions

Measurement Data:

Below 1GHz

The lowest/middle/highest channels were tested. The worst case is middle channel mode. Only the worst case's data was showing in the report.

Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization
139.13	53.67	-24.34	29.33	43.50	-14.17	Horizontal
196.36	45.83	-21.88	23.95	43.50	-19.55	Vertical
328.28	48.02	-19.23	28.79	46.00	-17.21	Horizontal
300.15	44.06	-19.78	24.28	46.00	-21.72	Vertical

Remark:

1. Factor = Antenna Factor + Cable Loss – Preamp Factor
2. Measured Level = Reading Level + Factor

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Above 1GHz:

Test Frequency: 5740MHz						
Peak value						
Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization
11480.50	39.66	19.39	59.05	74.00	-14.95	Horizontal
11480.50	38.54	19.39	57.93	74.00	-16.07	Vertical
17226.50	37.59	24.13	61.72	74.00	-12.28	Horizontal
17220.00	36.09	23.97	60.06	74.00	-13.94	Vertical
Average value:						
Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization
11480.42	31.65	19.39	51.04	54.00	-2.96	Horizontal
11480.36	30.31	19.39	49.70	54.00	-4.30	Vertical
17226.42	26.34	24.13	50.47	54.00	-3.53	Horizontal
17220.10	25.67	23.97	49.64	54.00	-4.36	Vertical

Test Frequency: 5800MHz						
Peak value						
Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization
11599.50	38.26	19.48	57.74	74.00	-16.26	Horizontal
11599.50	38.83	19.48	58.31	74.00	-15.69	Vertical
17400.00	36.11	25.52	61.63	74.00	-12.37	Horizontal
17400.00	34.64	25.52	60.16	74.00	-13.84	Vertical
Average value:						
Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization
11599.45	28.35	19.49	47.84	54.00	-6.16	Horizontal
11599.45	27.42	19.49	46.91	54.00	-7.09	Vertical
17400.00	27.45	25.52	52.97	54.00	-1.03	Horizontal
17400.20	25.64	25.53	51.17	54.00	-2.83	Vertical

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Test Frequency: 5860MHz						
Peak value						
Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization
11718.50	37.23	19.30	56.53	74.00	-17.47	Horizontal
11727.00	37.35	19.21	56.56	74.00	-17.44	Vertical
17580.00	36.59	26.46	63.05	74.00	-10.95	Horizontal
17580.00	33.44	26.46	59.90	74.00	-14.10	Vertical
Average value:						
Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization
11718.42	27.41	19.30	46.71	54.00	-7.29	Horizontal
11727.03	26.54	19.21	45.75	54.00	-8.25	Vertical
17580.31	25.02	26.47	51.49	54.00	-2.51	Horizontal
17580.85	23.54	26.47	50.01	54.00	-3.99	Vertical

Note 1: The test trace is same as the ambient noise (the test frequency range:18GHz~40GHz), therefore no data appear in the report.

2: Factor = Antenna Factor + Cable Loss – Preamp Factor

3: Measure Level = Reading Level + Factor.

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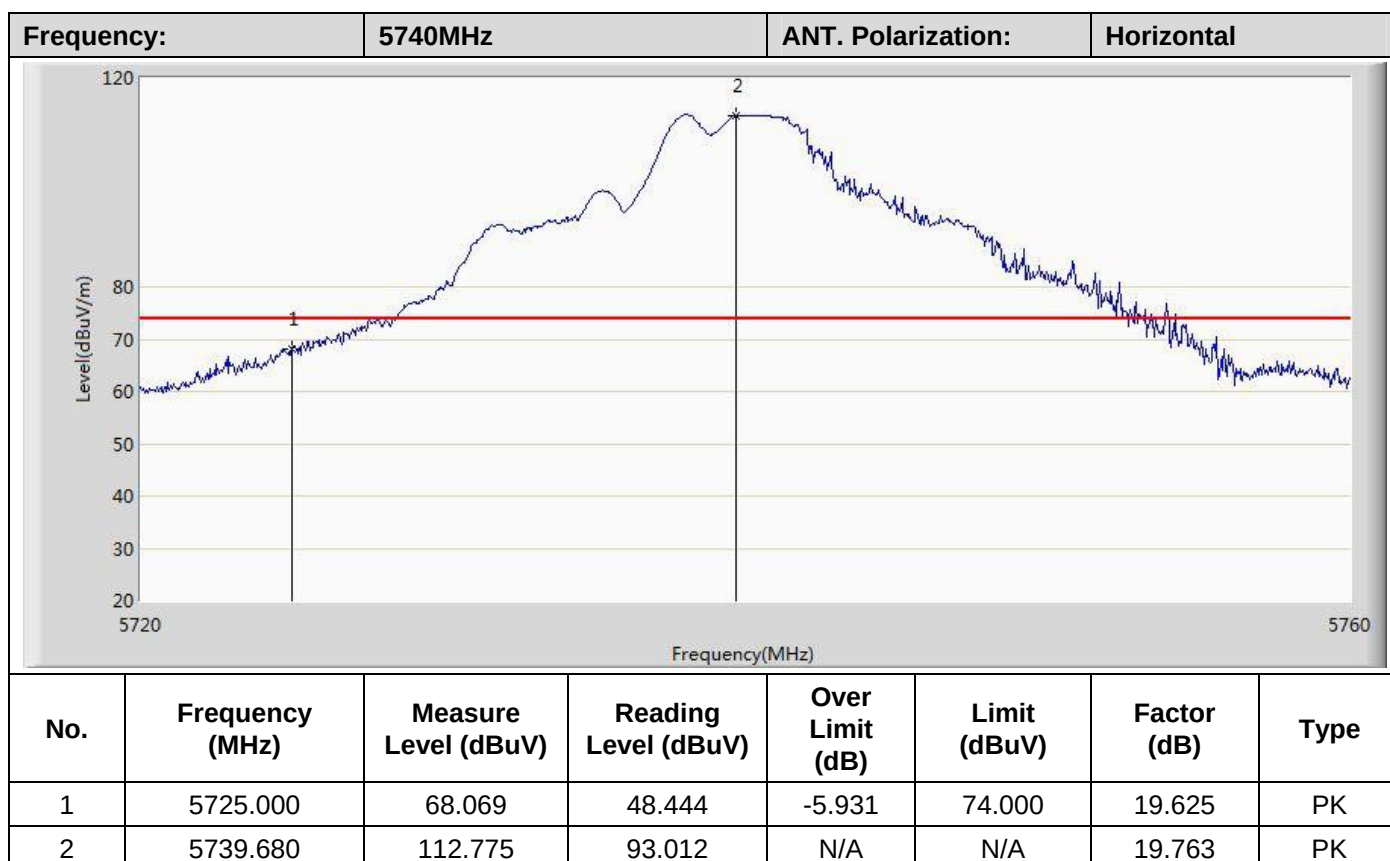
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7.2.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.



Remark:

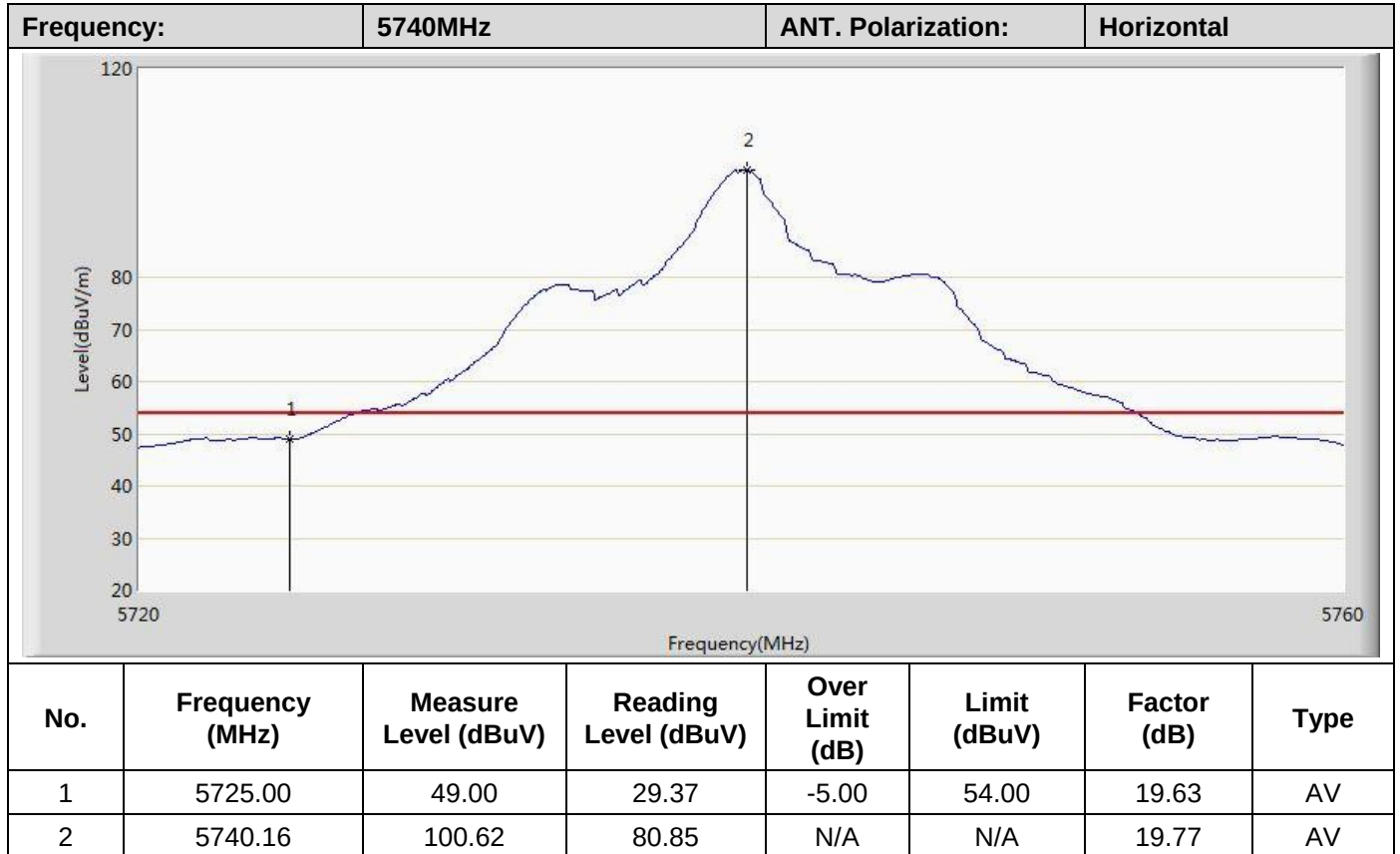
1. Factor = Antenna Factor + Cable Loss
2. Measured Level = Reading Level + Factor

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Remark:

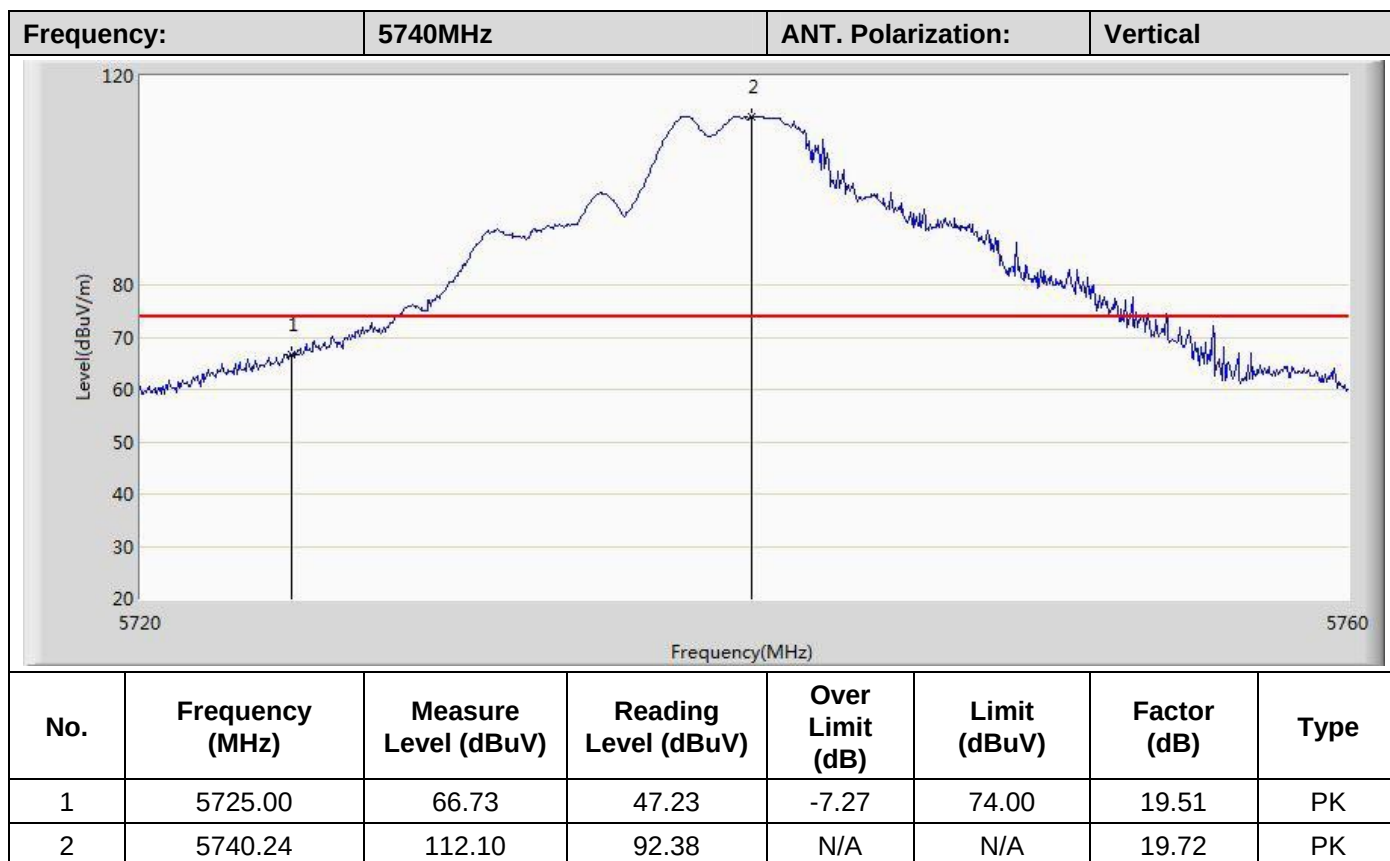
1. Factor = Antenna Factor + Cable Loss
2. Measured Level = Reading Level + Factor

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Remark:

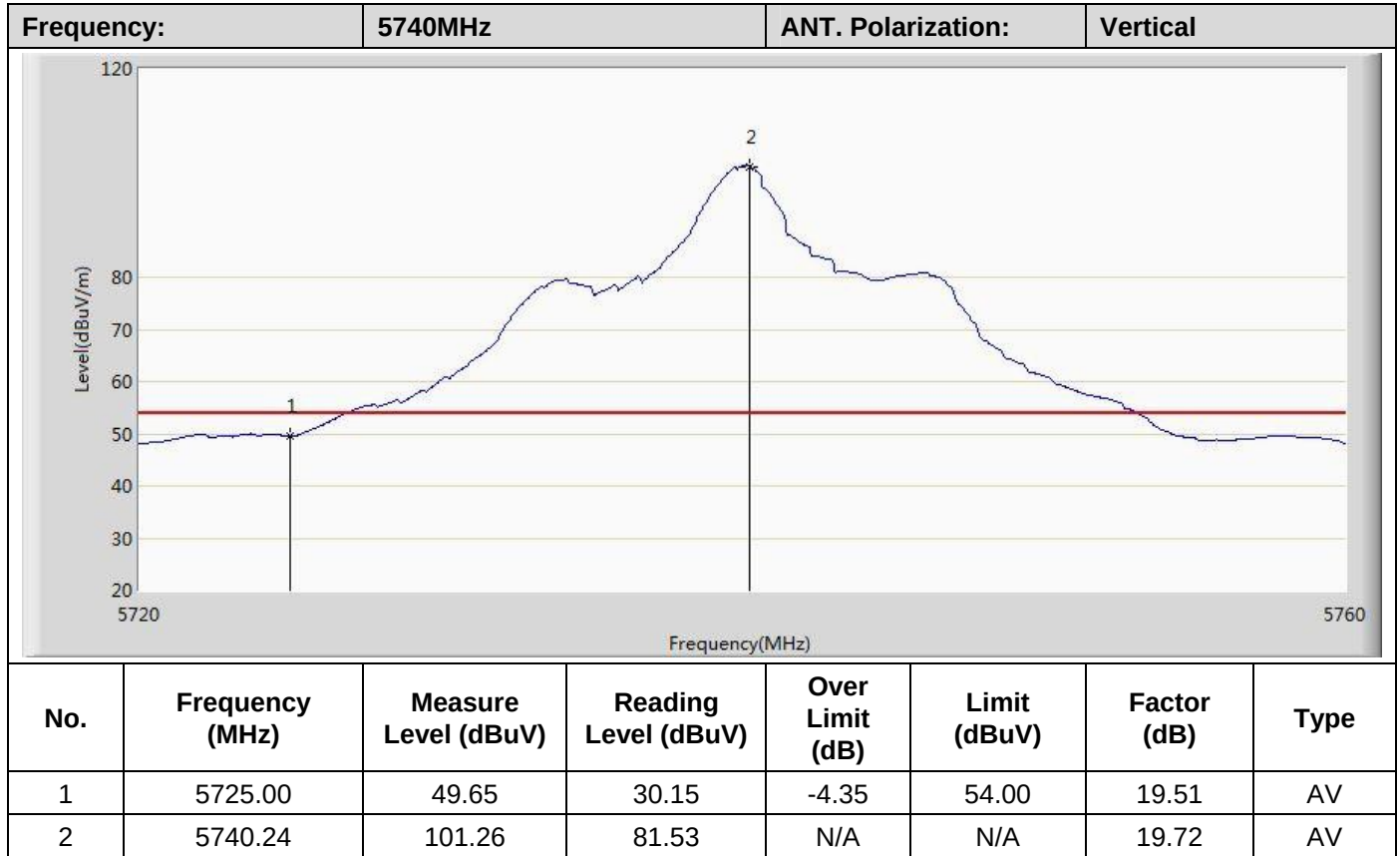
1. Factor = Antenna Factor + Cable Loss
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Remark:

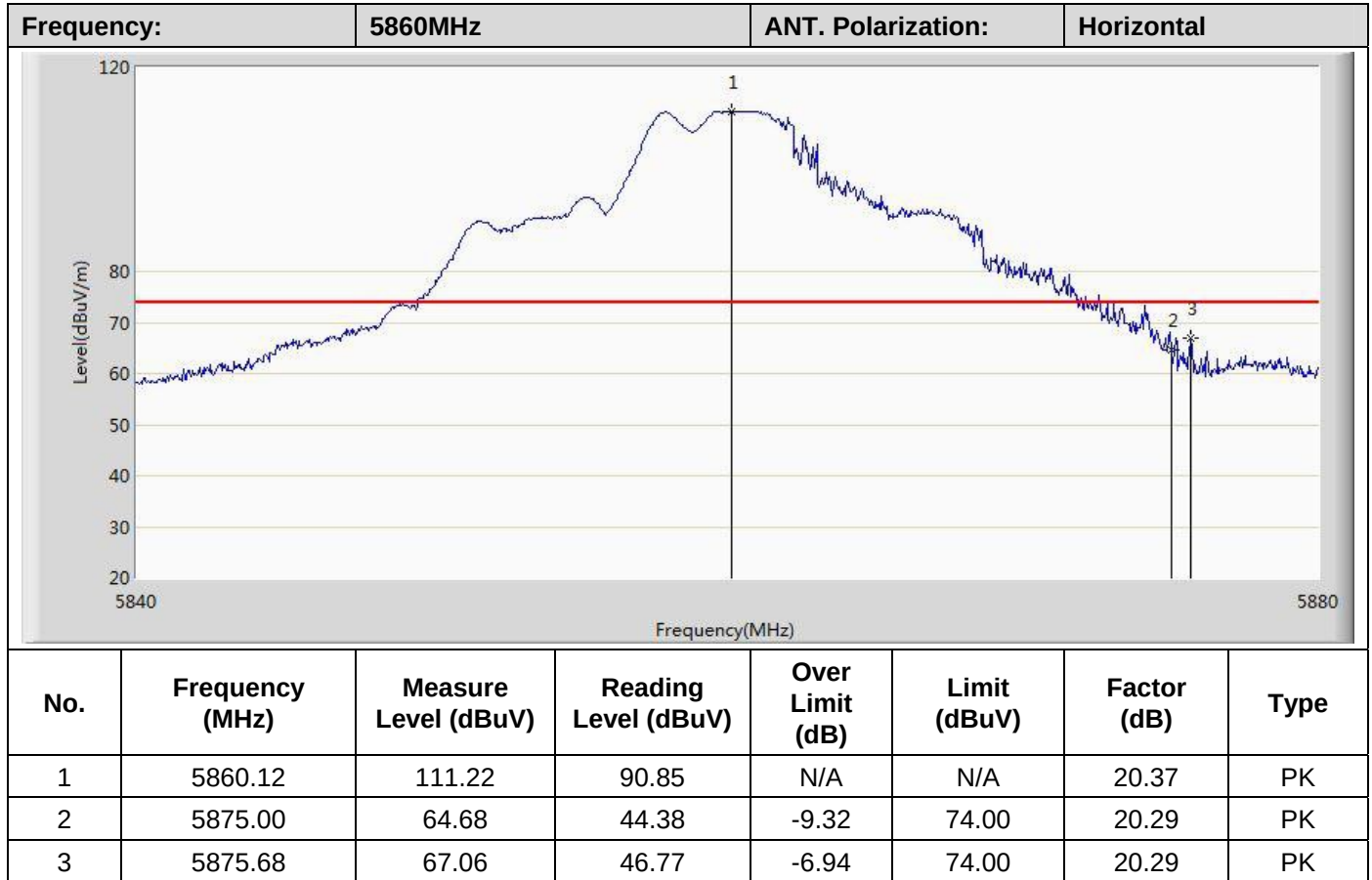
1. Factor = Antenna Factor + Cable Loss
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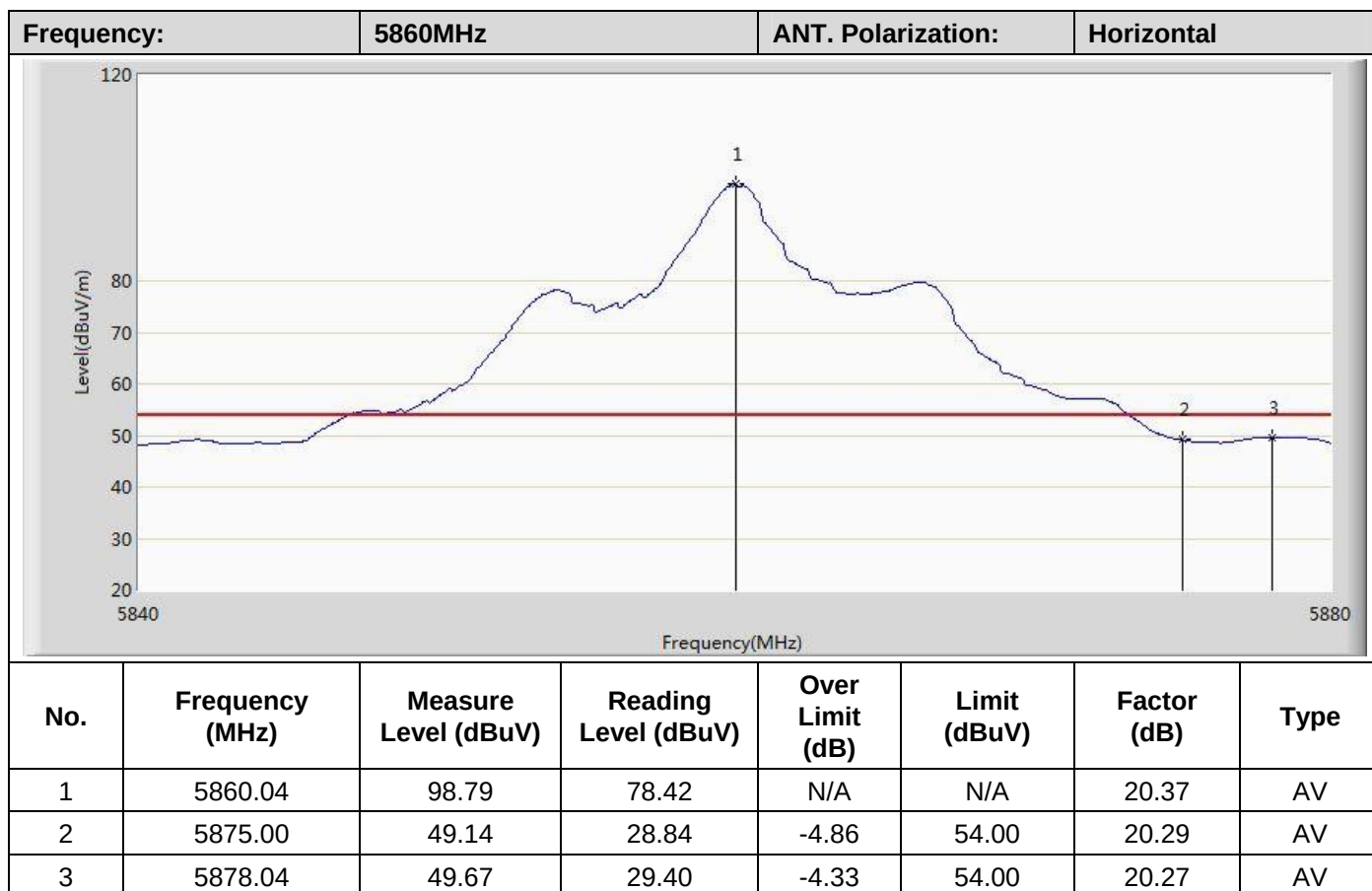
1. Factor = Antenna Factor + Cable Loss
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Remark:

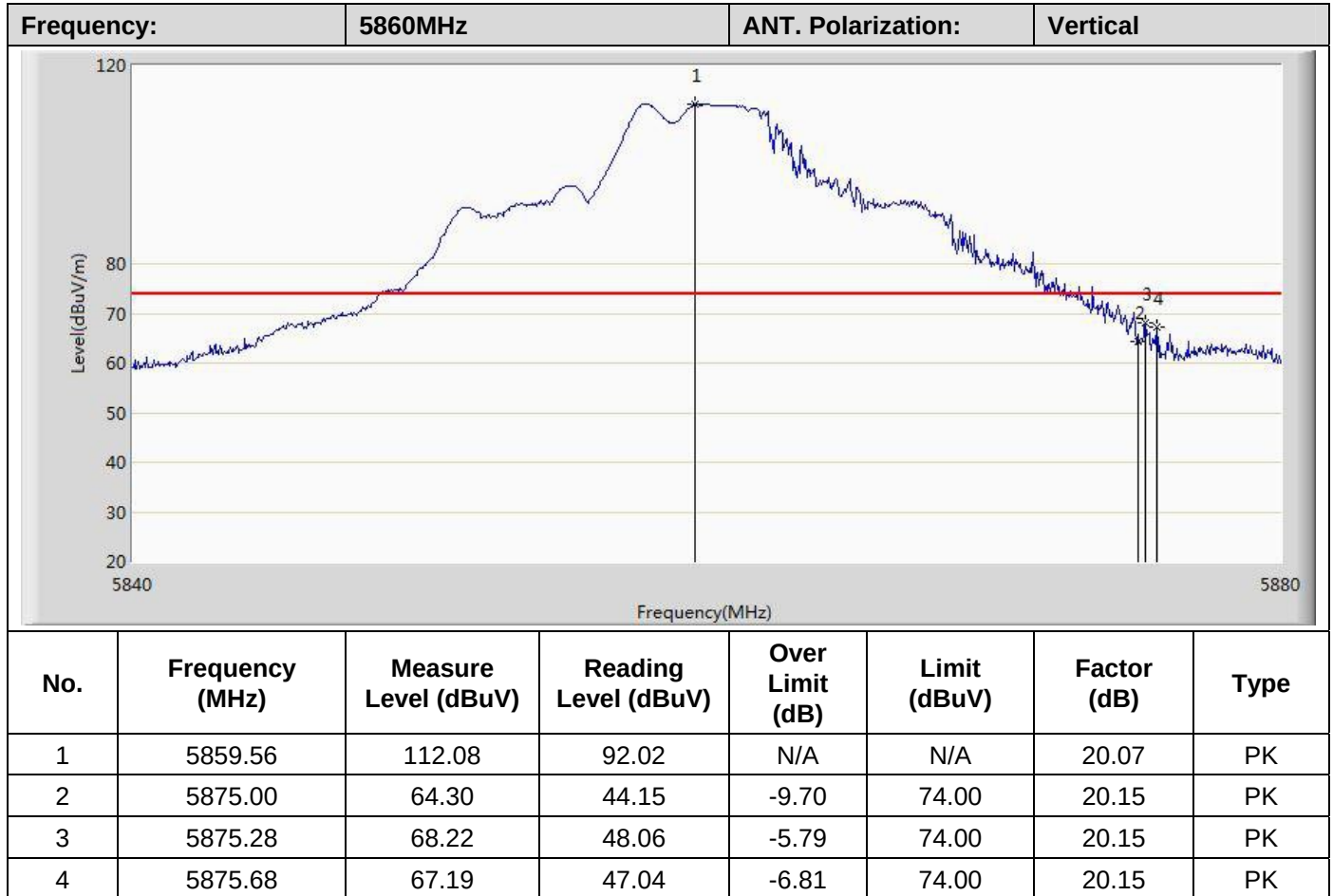
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Remark:

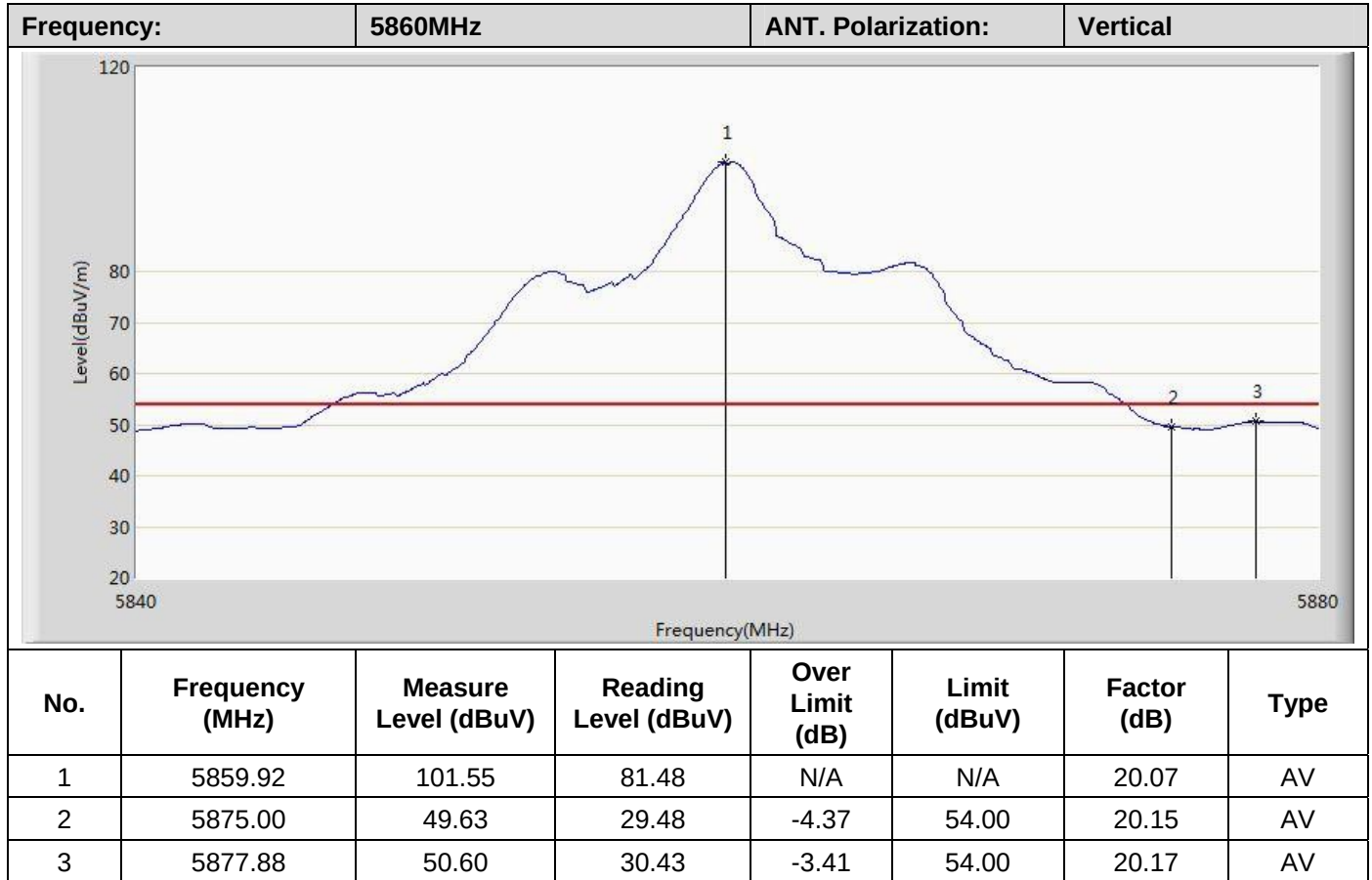
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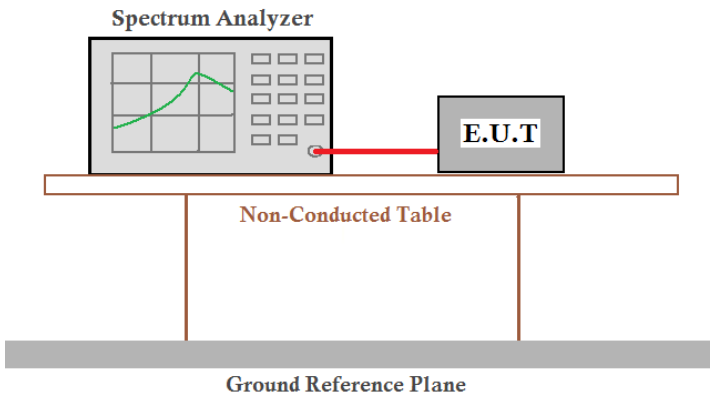


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7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2003
Limit:	Operation Frequency range 5740MHz ~ 5860MHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

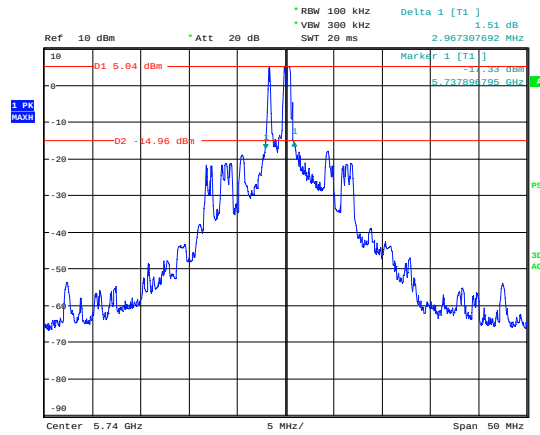
Test channel	20dB bandwidth(MHz)	Result
Lowest	2.967	Pass
Middle	3.205	Pass
Highest	3.205	Pass

Test plot as follows:

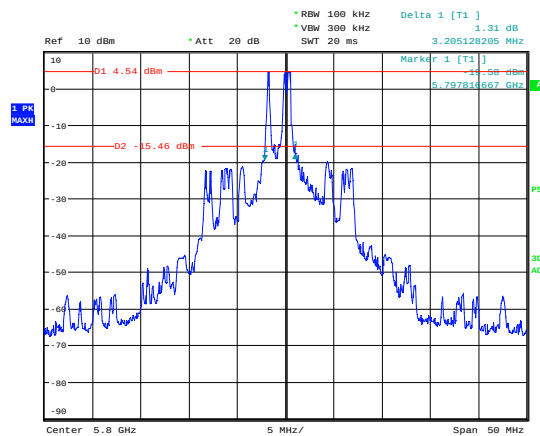
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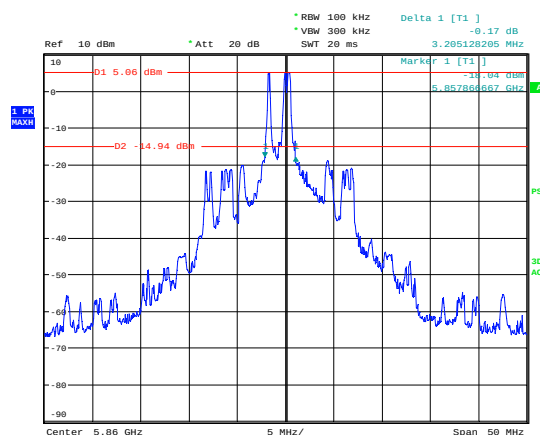
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Lowest channel



Middle channel



Highest channel

End

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