Report No.: NTC1904035FV00

FCC ID: 2AHU2MA110



**8DPSK Highest Channel** 





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### 11. Antenna Application

#### 11.1 Antenna requirement

According to of FCC part 15C section 15.203 and 15.240:

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.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

#### 11.2 Measurement Results

The antenna is PCB antenna and no consideration of replacement, and the best case gain of the antenna is 0 dBi. So, the antenna is consider meet the requirement.

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## 12. Conducted Spurious Emissions

#### 12.1 Measurement Procedure

Out of Band Conducted Spurious Emissions, FCC Rule 15.247(d):

The transmitter output is connected to spectrum analyzer. All spurious emission and up to the tenth harmonic was measured and they were found to be at least 20dB below the highest level of the desired power in the passband.

#### 12.2. Measurement Results

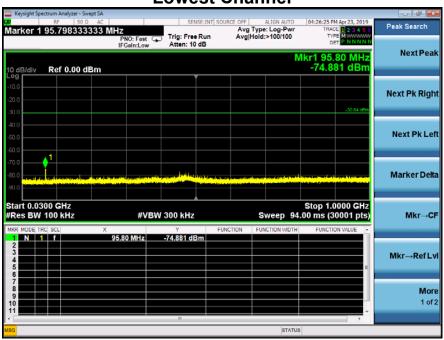
Please refer to following plots, the worst case (**GFSK**) was shown.

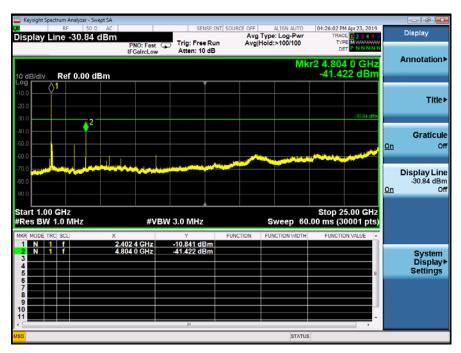
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### **Lowest Channel**



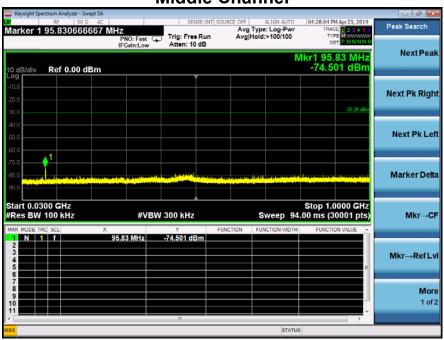


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### **Middle Channel**



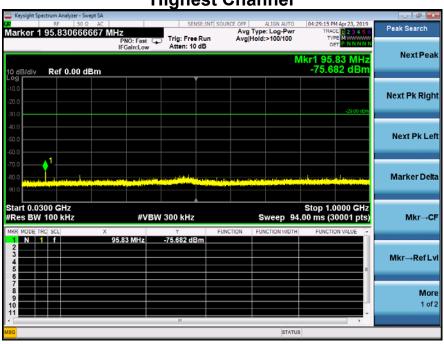


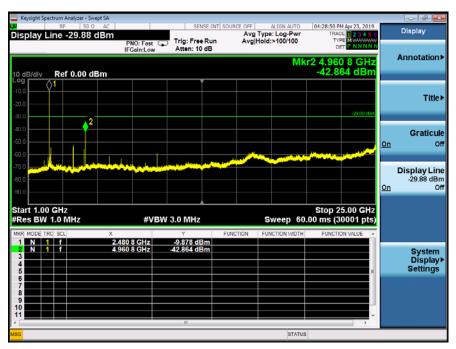
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**Highest Channel** 





Note: Sweep points=30001pts

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# 13. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 13, 2019	Mar. 12, 2020
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 14, 2019	Mar. 13, 2020
Cable	Huber+Suhner	CBL2-NN-1M	22390001	9KHz~7GHz	Mar. 13, 2019	Mar. 12, 2020
Cable	Huber+Suhner	CIL02	N/A	9KHz~7GHz	Mar. 13, 2019	Mar. 12, 2020
RF Cable	Huber+Suhner	SF-104	MY16559/4	9KHz~25GHz	Apr. 25, 2019	Apr. 25, 2020
Power Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 13, 2019	Mar. 12, 2020
Horn Antenna	Schwarzbeck	BBHA9170	9170-242	15GHz~40GHz	Mar. 13, 2019	Mar. 12, 2020
Horn Antenna	Com-Power	AH-118	071078	1GHz~18GHz	Mar. 14, 2019	Mar. 13, 2020
RF Cable	Huber+Suhner	SF-104	N/A	9KHz~40GHz	Apr. 25, 2019	Apr. 25, 2020
Loop antenna	Daze	ZA30900A	0708	9KHz~30MHz	Apr. 25, 2019	Apr. 25, 2020
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Apr. 25, 2019	Apr. 25, 2020
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	Apr. 06, 2019	Apr. 05, 2020
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Nov. 02, 2018	Nov. 01, 2019
Pre-Amplifier	Agilent	8449B	3008A02964	1GHz~26.5GHz	Apr. 25, 2019	Apr. 25, 2020
L.I.S.N.	Rohde & Schwarz	ENV 216	101317	9KHz~30MHz	Mar. 13, 2019	Mar. 12, 2020
Temporary antenna connector	TESCOM	SS402	N/A	9KHz-25GHz	N/A	N/A
Power Meter	Anritsu	ML2495A	1139001	100k-65GHz	Nov. 02, 2018	Nov. 01, 2019
Power Sensor	Anritsu	MA2411B	100345	300M-40GHz	Nov. 02, 2018	Nov. 01, 2019

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna coSnnector is listed in the equipment list.