
FCC Test Report

Report No.: AGC01475200410FE02

FCC ID : 2AF8Q-JT20

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Wireless Earphone

BRAND NAME : N/A

MODEL NAME : JT20

APPLICANT : Shenzhen Na Yin Technology Co.,Ltd

DATE OF ISSUE : May 15, 2020

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 15, 2020	Valid	Initial Release



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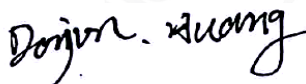
1. VERIFICATION OF COMPLIANCE

Applicant	Shenzhen Na Yin Technology Co.,Ltd
Address	6th Floor, Building A, Area C, Shangxue Industrial Park, Xinxue Community, Bantian Street, Longgang District, Shenzhen
Manufacturer	Shenzhen Na Yin Technology Co.,Ltd
Address	6th Floor, Building A, Area C, Shangxue Industrial Park, Xinxue Community, Bantian Street, Longgang District, Shenzhen
Factory	Shenzhen Na Yin Technology Co.,Ltd
Address	6th Floor, Building A, Area C, Shangxue Industrial Park, Xinxue Community, Bantian Street, Longgang District, Shenzhen
Product Designation	Wireless Earphone
Brand Name	N/A
Test Model	JT20
Date of test	May 06, 2020 to May 15, 2020
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

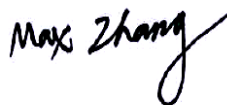
Prepared By



Donjon Huang
Project Engineer

May 15, 2020

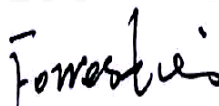
Reviewed By



Max Zhang
Reviewer

May 15, 2020

Approved By



Forrest Lei
Authorized Officer

May 15, 2020



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a “Wireless Earphone”. It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	3.484dBm(Max) for 1Mbps 3.749dBm(Max) for 2Mbps
Bluetooth Version	V5.0
Modulation	BR ☒ GFSK, EDR ☒ π /4-DQPSK, ☒ 8DPSK BLE ☒ GFSK 1Mbps ☒ GFSK 2Mbps
Number of channels	40 Channel
Antenna Designation	Ceramic Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	3.32dBi
Hardware Version	V1.1
Software Version	V2.3
Power Supply	DC 3.7V by battery
Note: The EUT comprises left and right channel earphone, both are the same and have been tested, Only the test data of left earphone recorded in this report.	

2.2.TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ



2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AF8Q-JT20** filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 2.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.1$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 4.0$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, $U_c = \pm 2.6$ dB
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

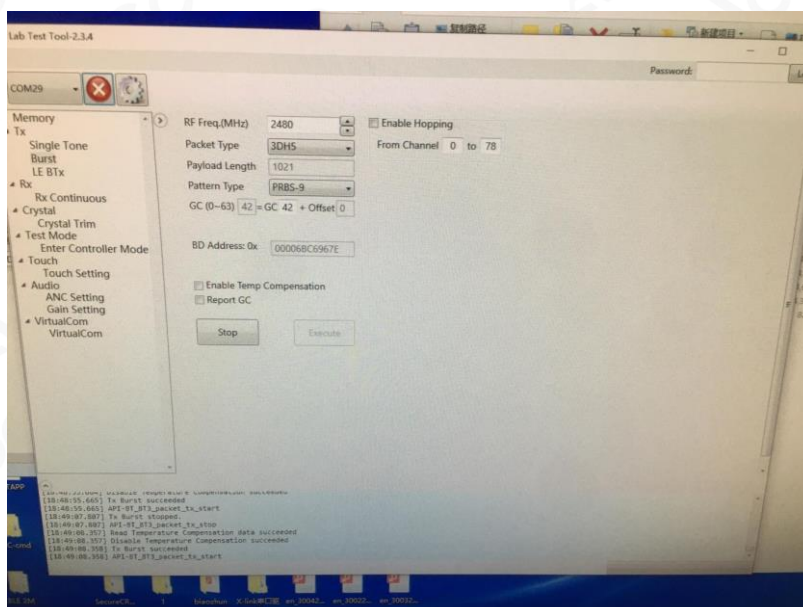


4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX 1Mbps
2	Middle channel TX 1Mbps
3	High channel TX 1Mbps
4	Low channel TX 2Mbps
5	Middle channel TX 2Mbps
6	High channel TX 2Mbps

Note: 1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

Software Setting



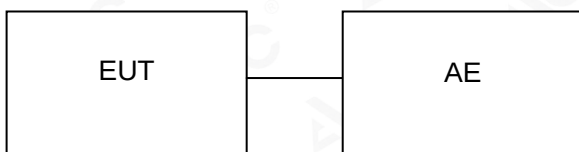
5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Earphone	JT20	2AF8Q-JT20	EUT
2	Control Box	N/A	USB-TTL	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	N/A

Note: The EUT can not use the BT function with charging.



6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 13, 2018	Jun. 12, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2018	May 16, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A



7. PEAK OUTPUT POWER

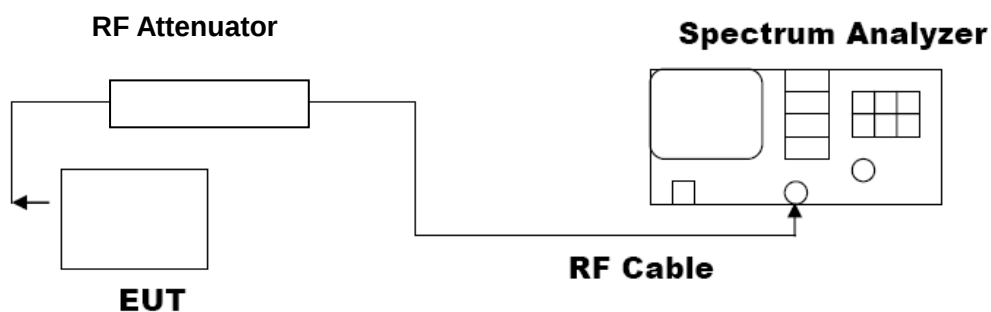
7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. $RBW \geq DTS \text{ bandwidth}$
3. $VBW \geq 3 * RBW$.
4. $SPAN \geq VBW$.
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP

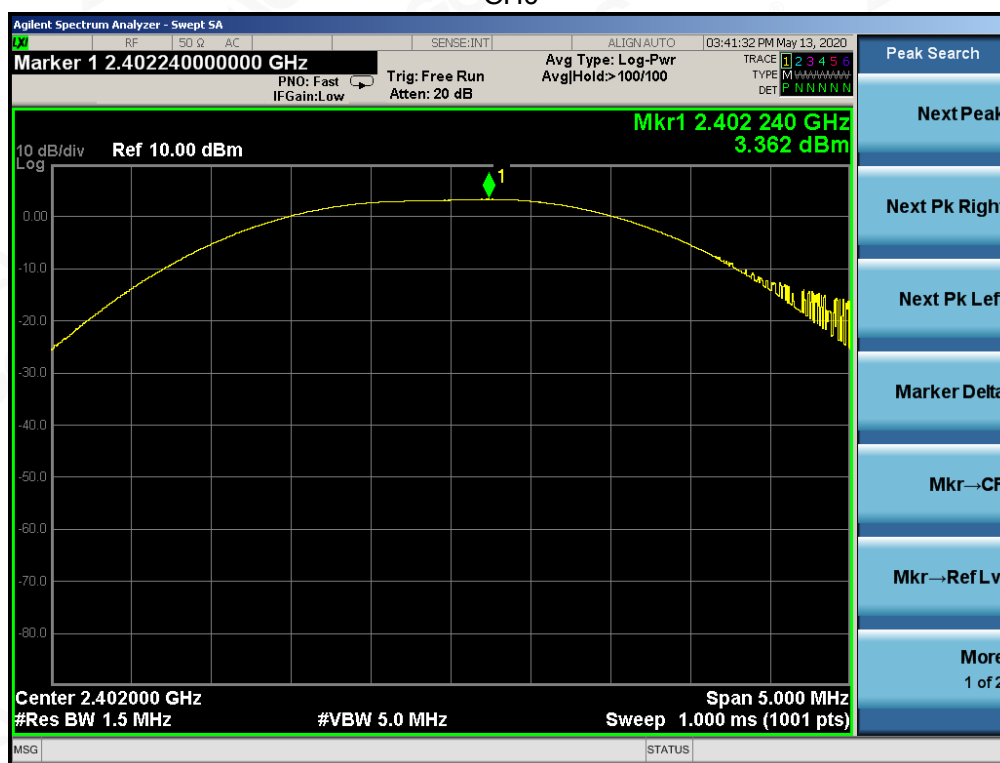


7.3. LIMITS AND MEASUREMENT RESULT

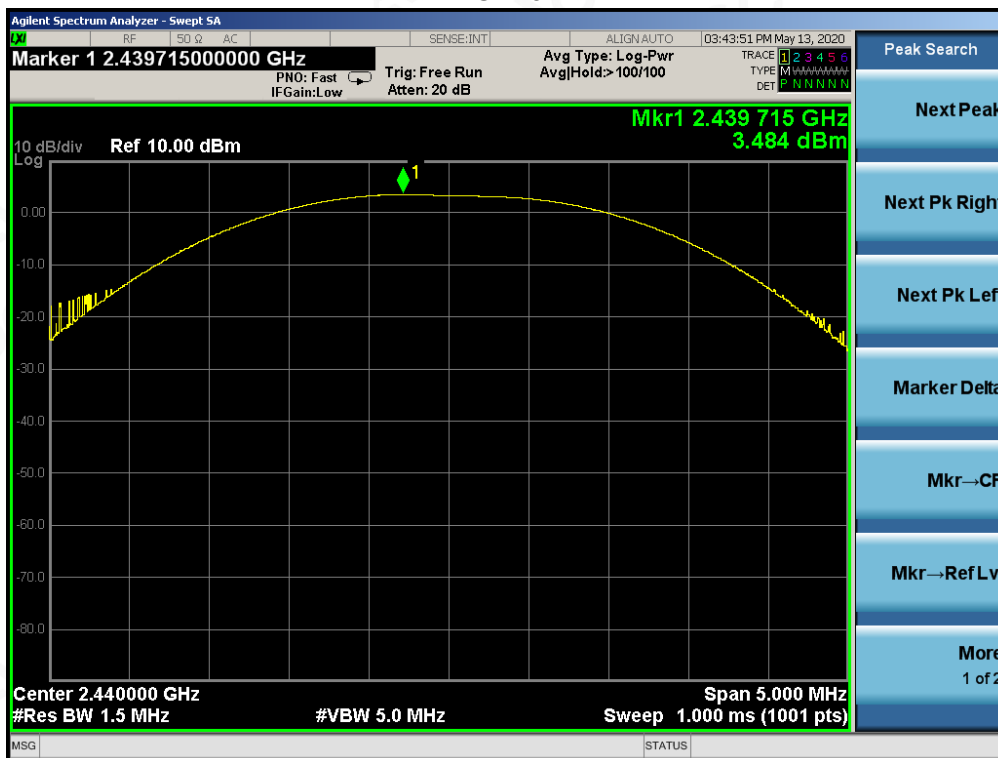
1M

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	3.362	30	Pass
2.440	3.484	30	Pass
2.480	3.442	30	Pass

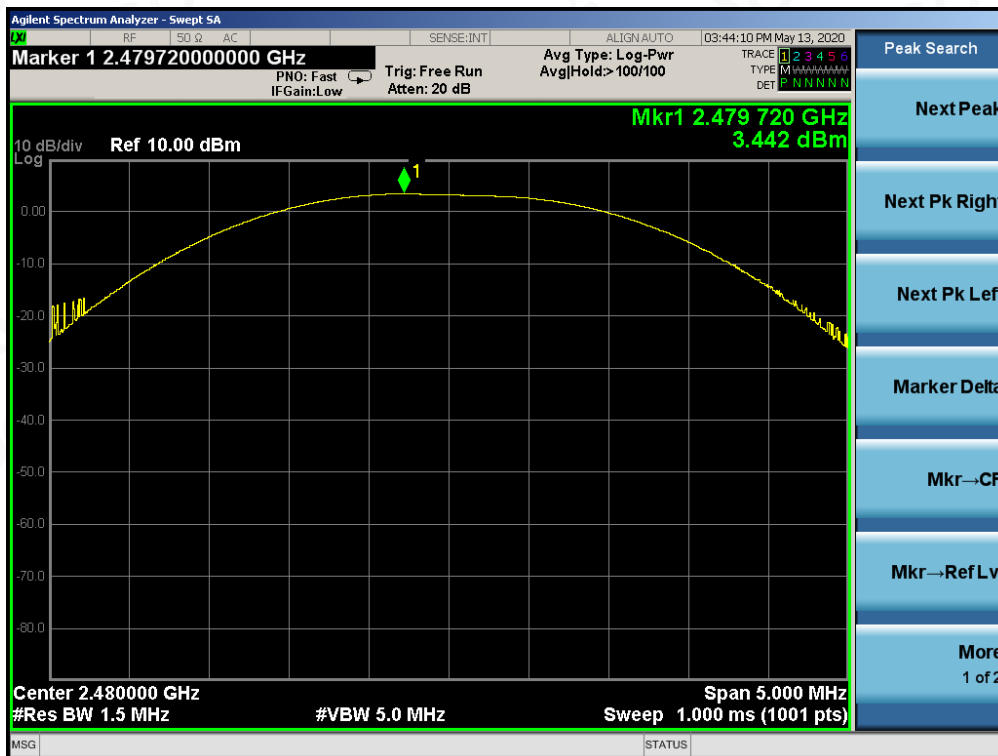
CH0



CH19



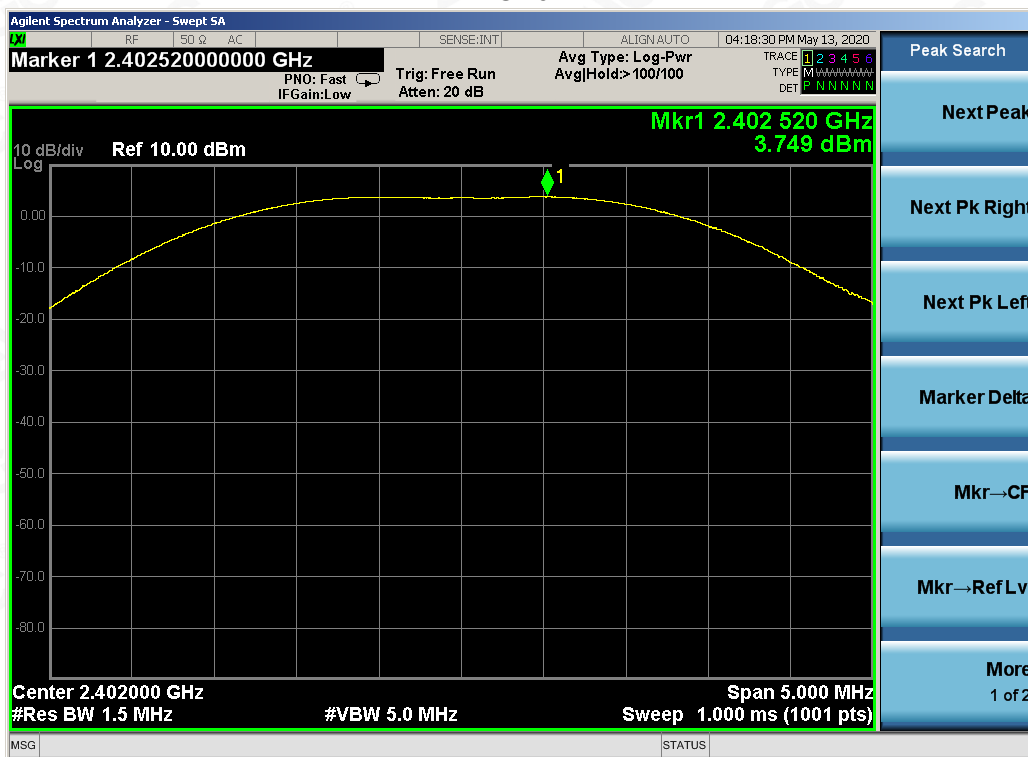
CH39



2M

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	3.749	30	Pass
2.440	3.415	30	Pass
2.480	3.356	30	Pass

CH0



Agilent Spectrum Analyzer - Swept SA

Marker 1 2.439435000000 GHz

PNO: Fast IFGain:Low Trig: Free Run Atten: 20 dB

Avg Type: Log-Pwr AvgHld: 100/100

04:19:14 PM May 13, 2020

Ref 10.00 dBm

10 dB/div Log

Mkr1 2.439 435 GHz 3.415 dBm

The figure shows a spectrum analyzer display with a black background and a white grid. A yellow trace represents the signal, showing a broad peak centered around 2.439435 GHz. A green diamond marker labeled '1' is placed on the peak. The y-axis is labeled '10 dB/div Log' and ranges from -80.0 to 10.0. The x-axis represents frequency, with a center frequency of 2.440000 GHz and a span of 5.000 MHz. The resolution bandwidth is 1.5 MHz and the video bandwidth is 5.0 MHz. The sweep rate is 1.000 ms (1001 pts). The reference level is 10.00 dBm. The peak power is 3.415 dBm. The display also shows various settings like PNO: Fast, IFGain:Low, Trig: Free Run, Atten: 20 dB, and Avg Type: Log-Pwr.

Center 2.440000 GHz Span 5.000 MHz

#Res BW 1.5 MHz #VBW 5.0 MHz Sweep 1.000 ms (1001 pts)

Agilent Spectrum Analyzer - Swept SA

Marker 1 2.479480000000 GHz

PNO: Fast
IF Gain: Low

Trig: Free Run
Atten: 20 dB

Avg Type: Log-Pwr
Avg/Hold: >100/100

TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N

04:19:28 PM May 13, 2020

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr→CF

Mkr→Ref Lvl

More

1 of 2

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a graph of power spectral density (PSD) versus frequency. The y-axis is labeled '10 dB/div Log' and ranges from -80.0 to 10.0 dBm. The x-axis is labeled 'Center 2.480000 GHz' and ranges from 2.475 GHz to 2.485 GHz. A yellow trace shows a broad peak centered at 2.48 GHz. A green diamond marker labeled '1' is placed on the trace at 2.47948 GHz. The peak power is indicated as 3.356 dBm. The span is 5.000 MHz, and the resolution bandwidth (RBW) is 1.5 MHz. The sweep rate is 1.000 ms (1001 pts). The display also shows various settings like 'Ref 10.00 dBm', 'PNO: Fast', 'IF Gain: Low', 'Trig: Free Run', 'Atten: 20 dB', 'Avg Type: Log-Pwr', 'Avg/Hold: >100/100', and 'TRACE 1 2 3 4 5 6'. The date and time are 04:19:28 PM May 13, 2020. On the right side, there is a 'Peak Search' menu with options like 'Next Peak', 'Next Pk Right', 'Next Pk Left', 'Marker Delta', 'Mkr→CF', 'Mkr→Ref Lvl', and 'More'.

10 dB/div Log

Ref 10.00 dBm

Mkr1 2.479 480 GHz
3.356 dBm

Center 2.480000 GHz

#Res BW 1.5 MHz

#VBW 5.0 MHz

Span 5.000 MHz

Sweep 1.000 ms (1001 pts)



8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq$ 3 $\times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

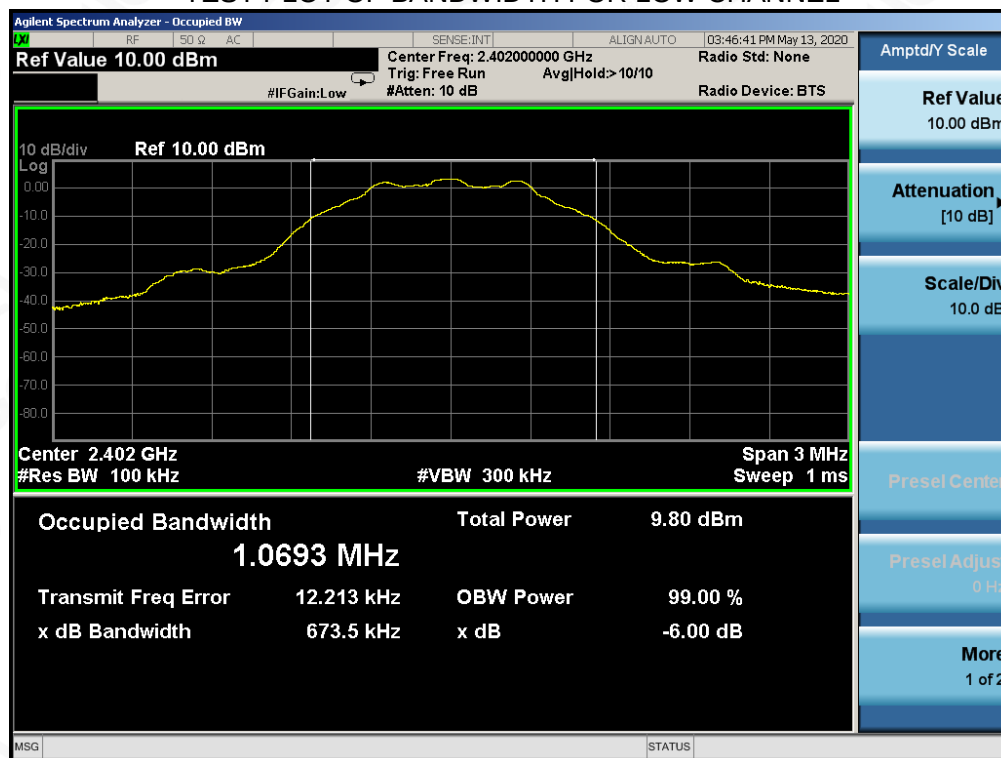
The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

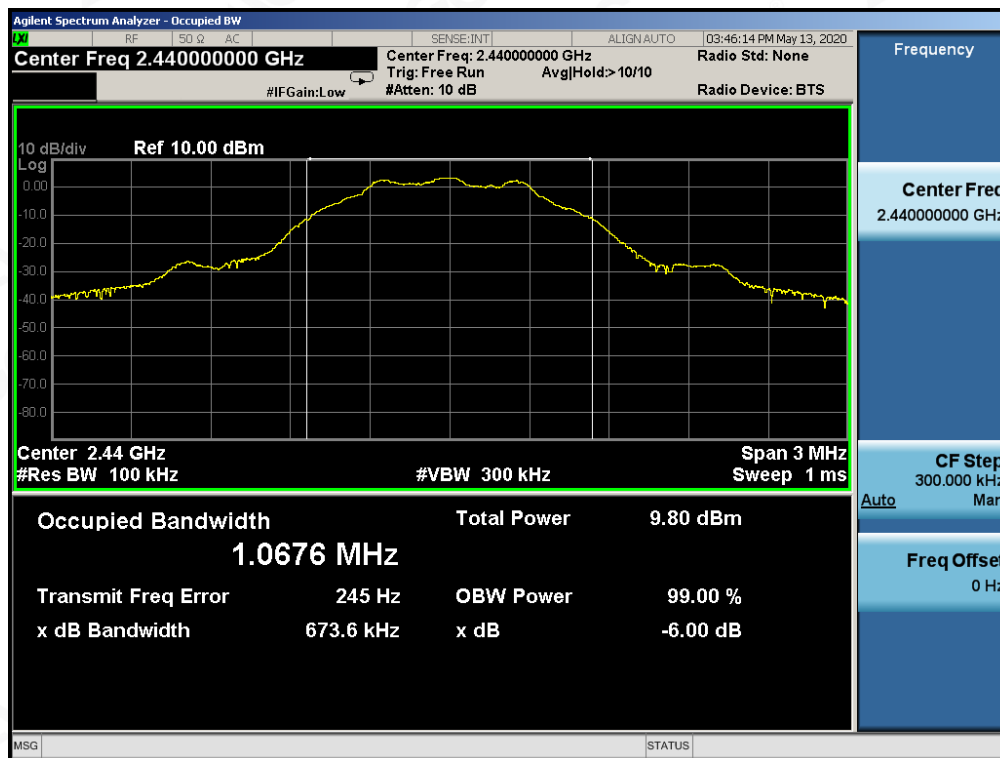
1M

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (kHz)		Criteria
>500KHZ	Low Channel	673.5	PASS
	Middle Channel	673.6	PASS
	High Channel	679.4	PASS

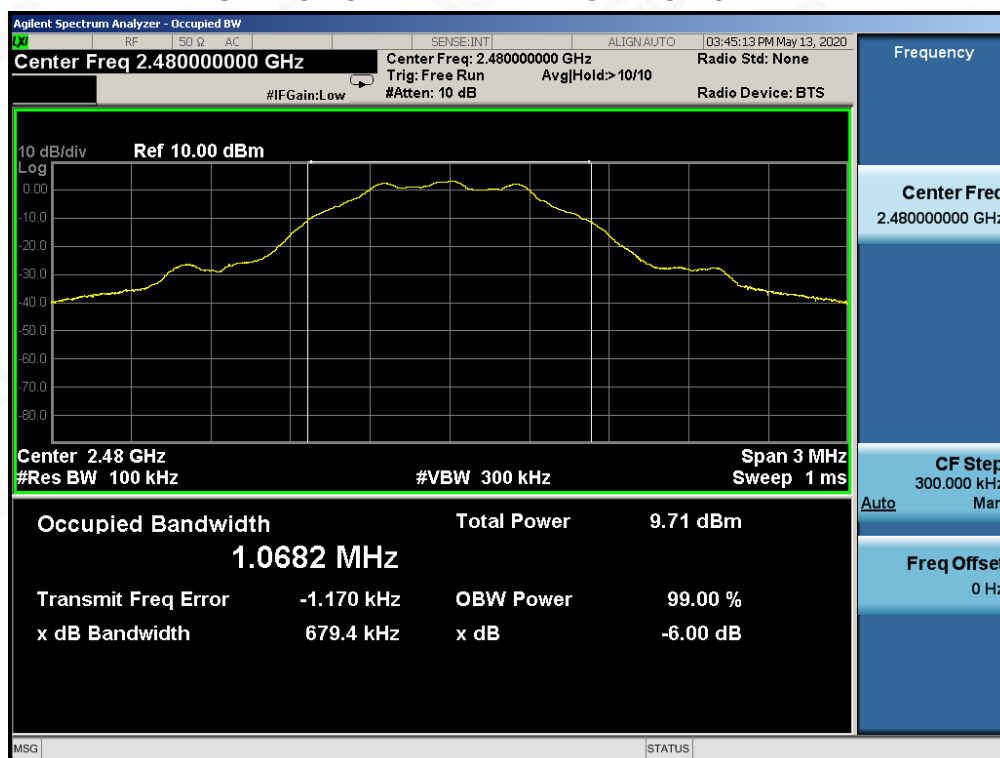
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



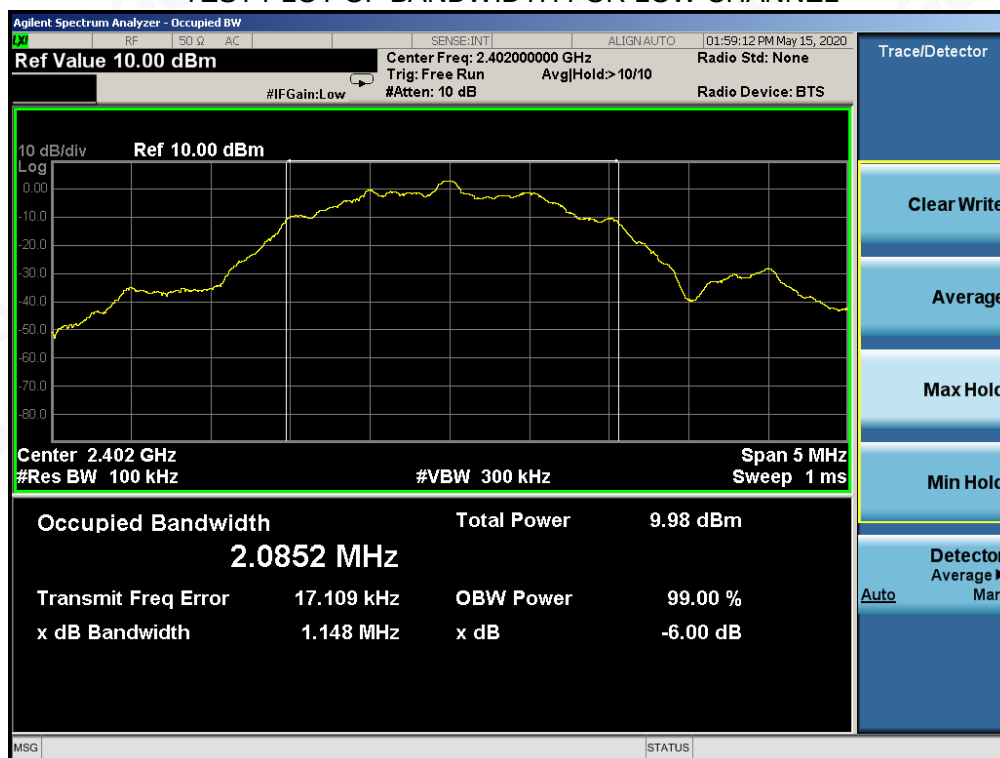
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



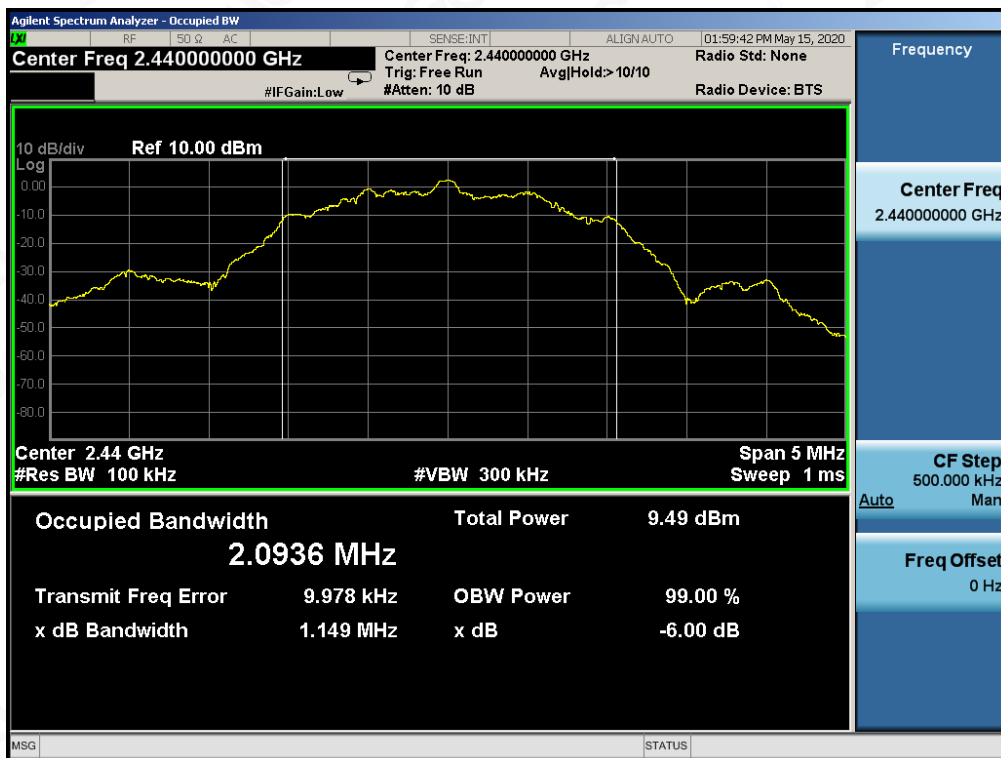
2M

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (kHz)		Criteria
>500KHZ	Low Channel	1148	PASS
	Middle Channel	1149	PASS
	High Channel	1159	PASS

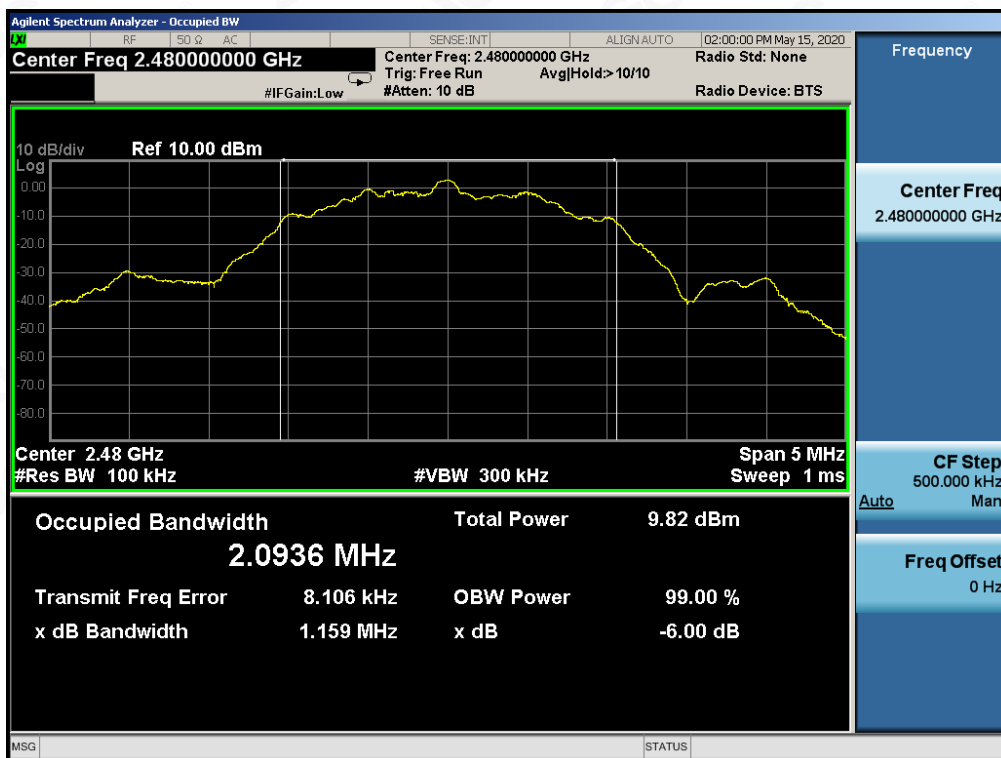
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

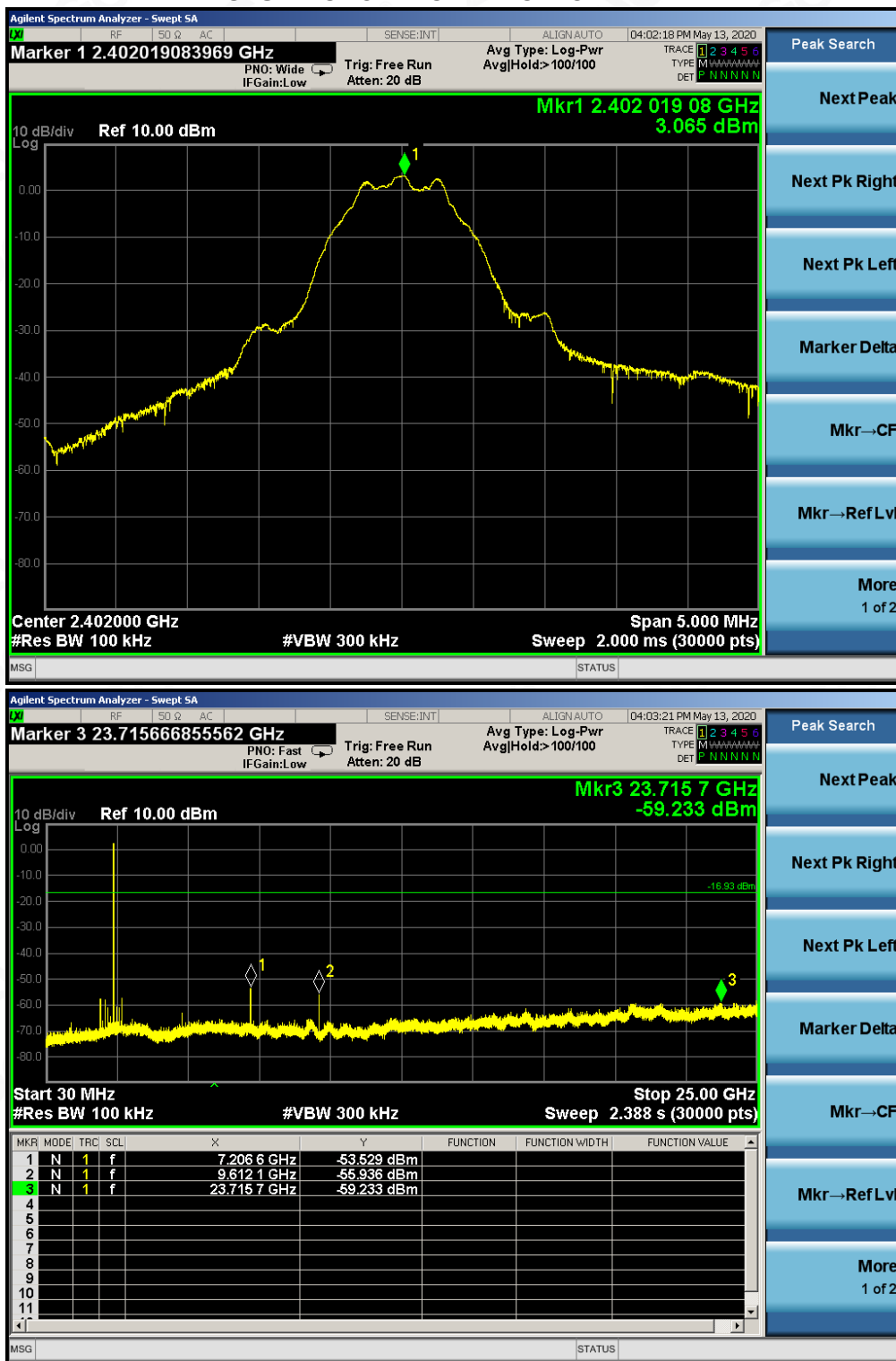
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS

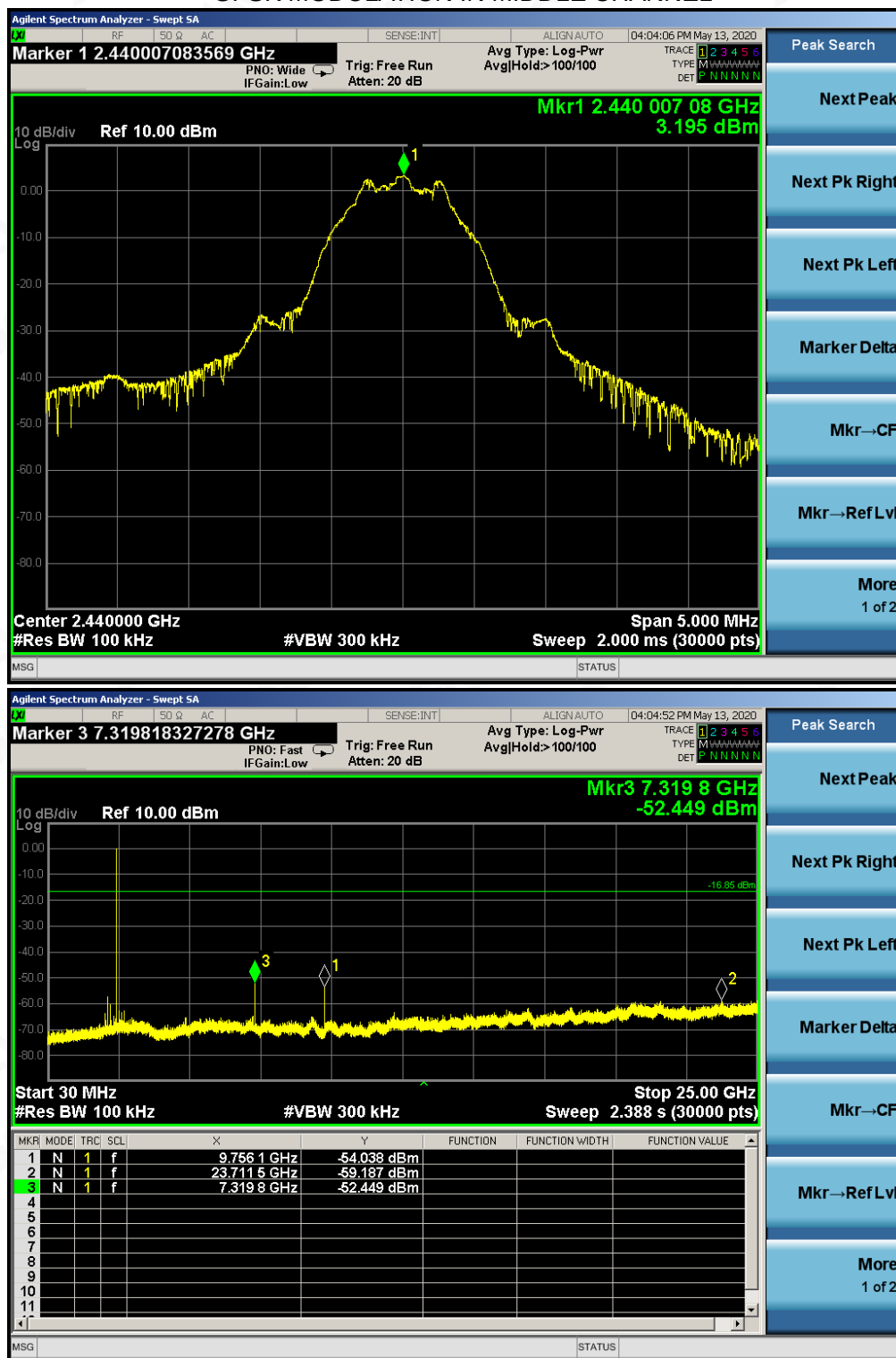


1M

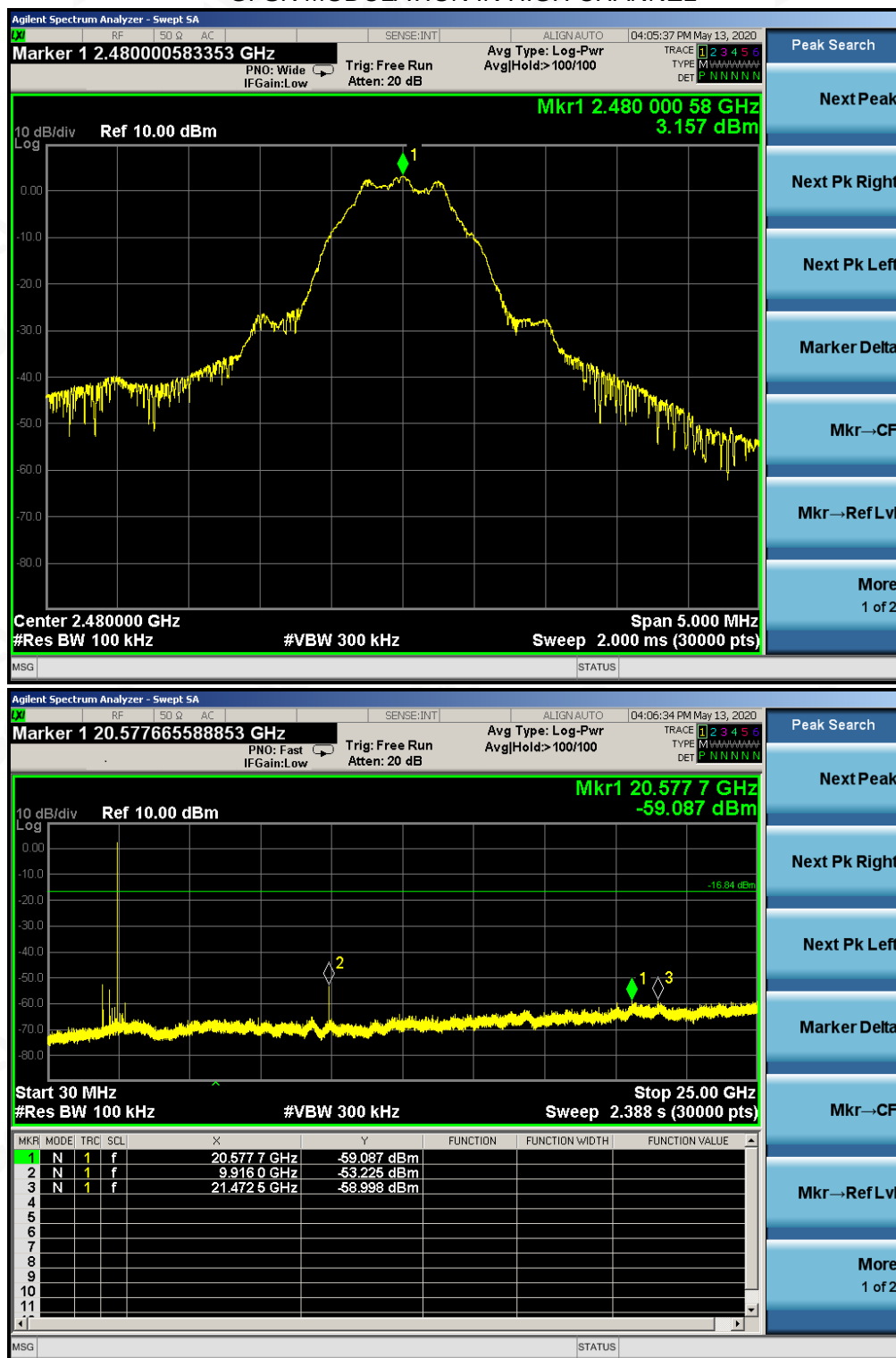
TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN MIDDLE CHANNEL



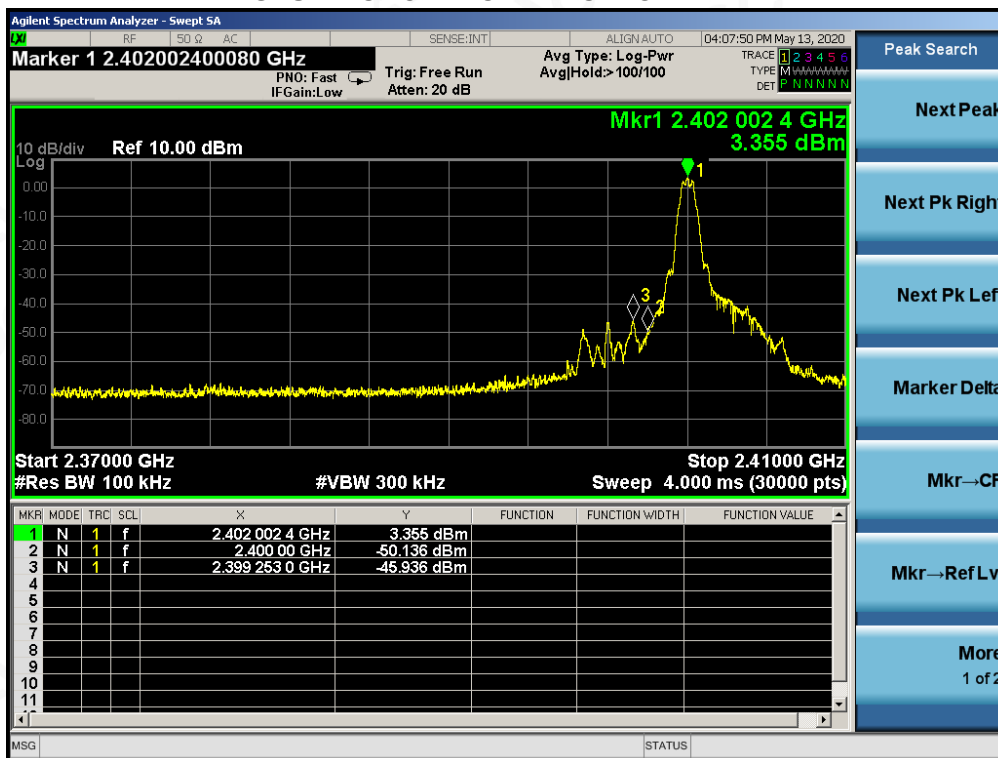
GFSK MODULATION IN HIGH CHANNEL



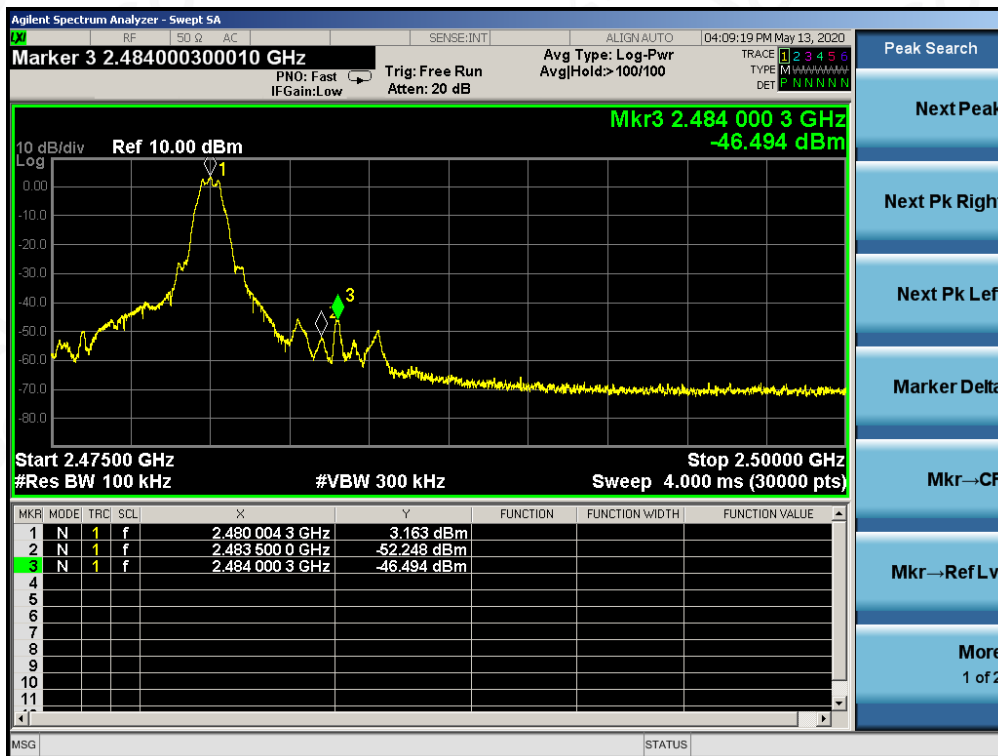
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



2M

TEST RESULT FOR ENTIRE FREQUENCY RANGE

GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN MIDDLE CHANNEL



Agilent Spectrum Analyzer - Swept SA

Marker 1 2.480008916964 GHz

Ref 10.00 dBm

10 dB/div Log

Center 2.480000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 5.000 MHz

Sweep 2.000 ms (30000 pts)

Mkr1 2.480 008 92 GHz

3.019 dBm

Agilent Spectrum Analyzer - Swept SA

Marker 3 24.806059868662 GHz

Ref 10.00 dBm

10 dB/div Log

Start 30 MHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 25.00 GHz

Sweep 2.388 s (30000 pts)

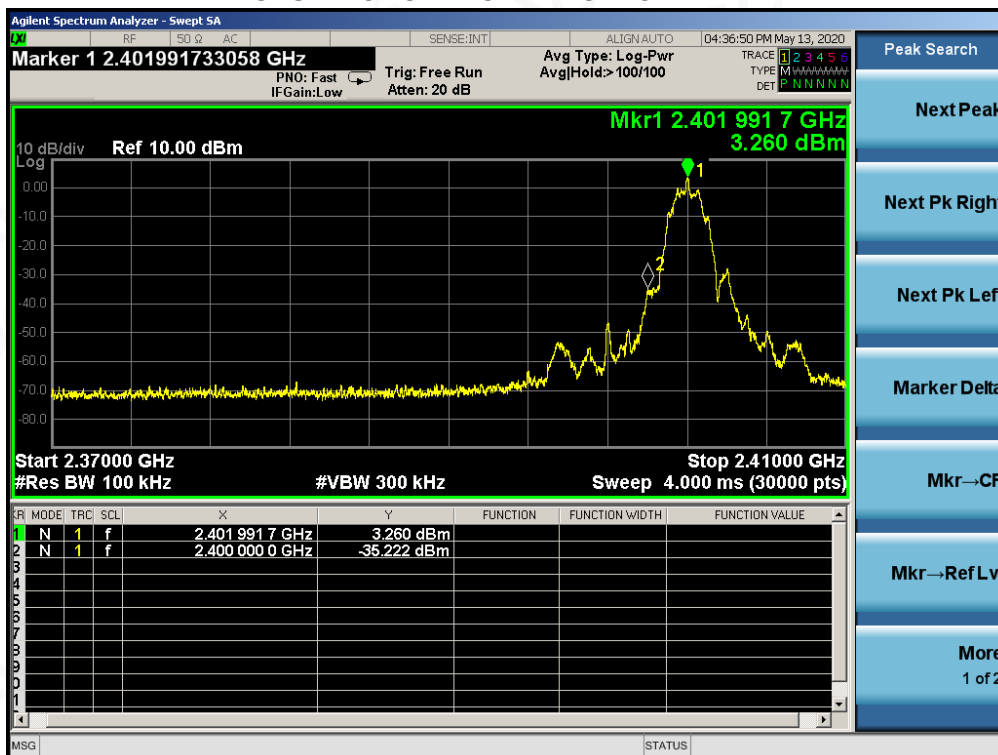
Mkr3 24.806 1 GHz

-58.765 dBm

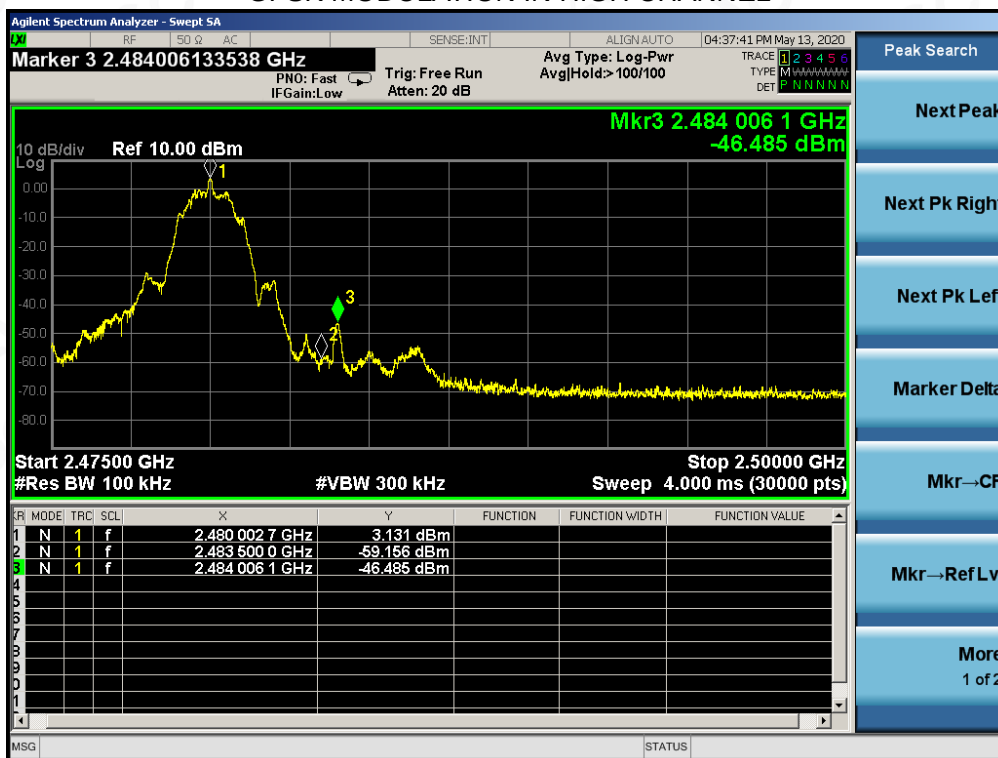
TR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	7.441 3 GHz	-54.933 dBm			
2	N	1	f	21.477 4 GHz	-59.011 dBm			
3	N	1	f	24.806 1 GHz	-58.765 dBm			



TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3. MEASUREMENT EQUIPMENT USED

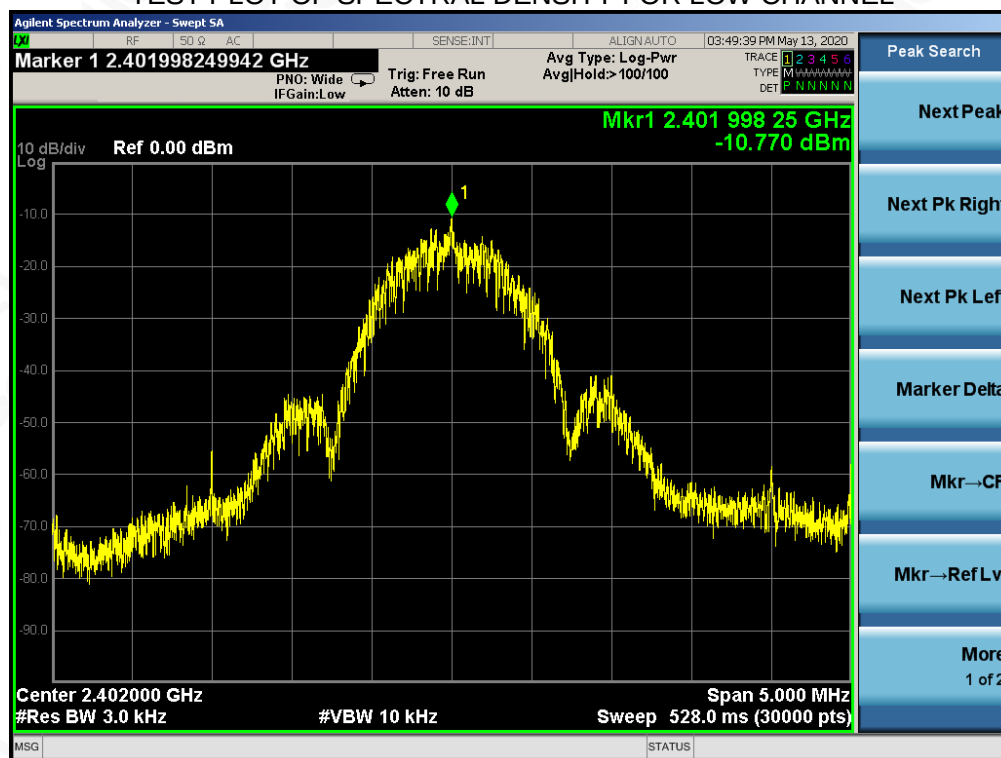
Refer To Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

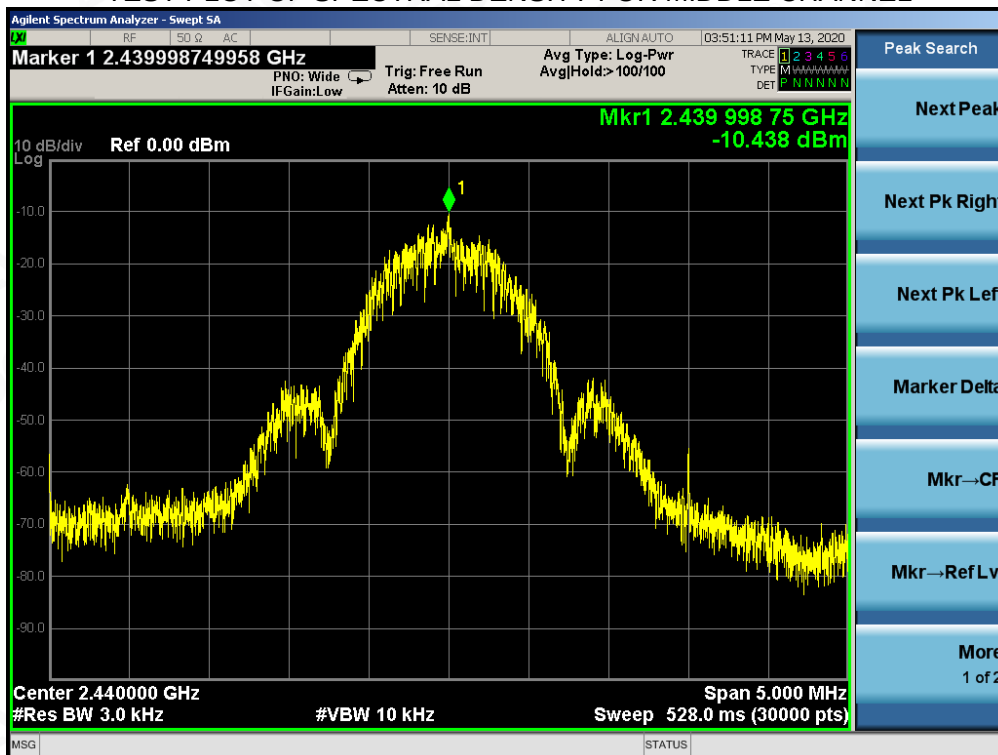
1M

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-10.770	8	Pass
Middle Channel	-10.438	8	Pass
High Channel	-11.110	8	Pass

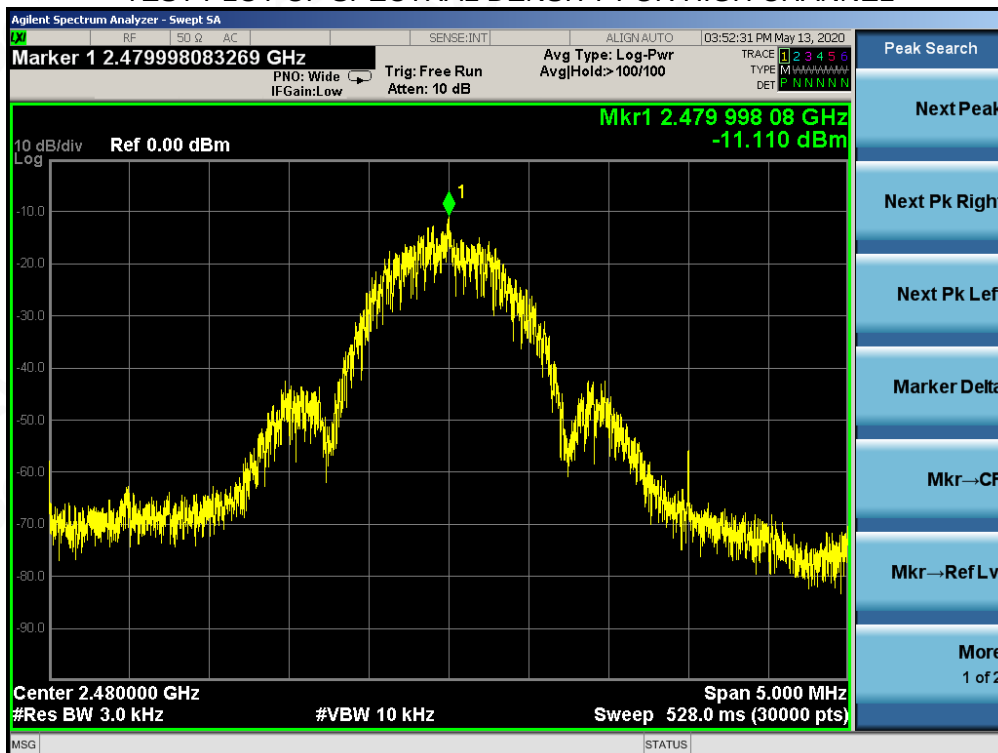
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



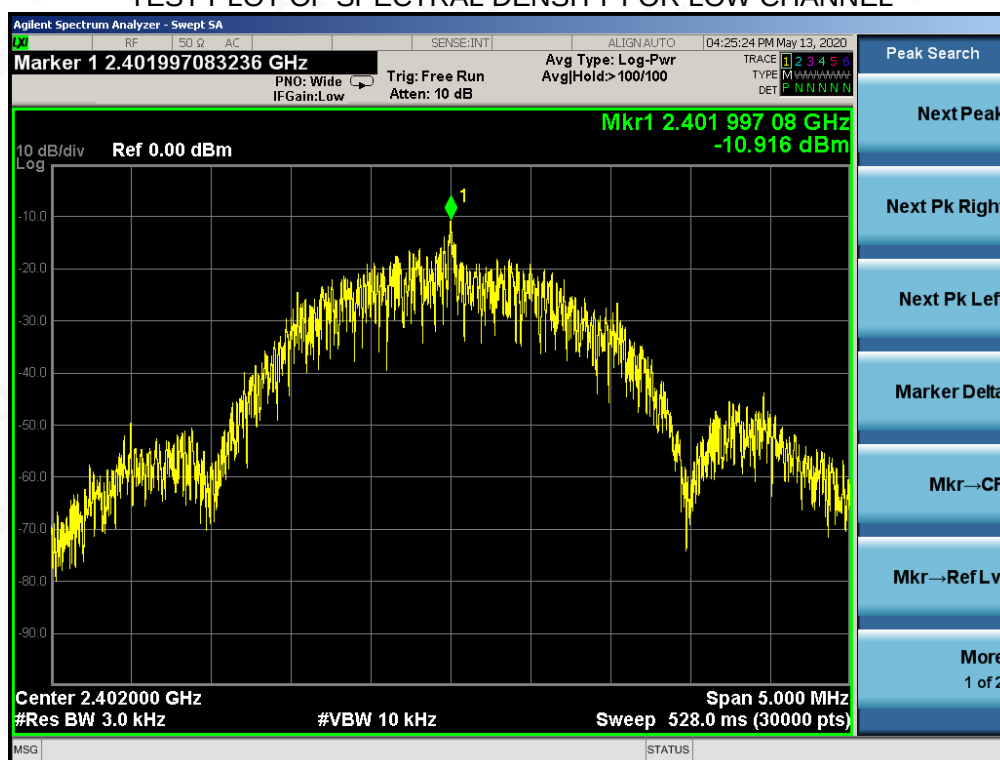
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



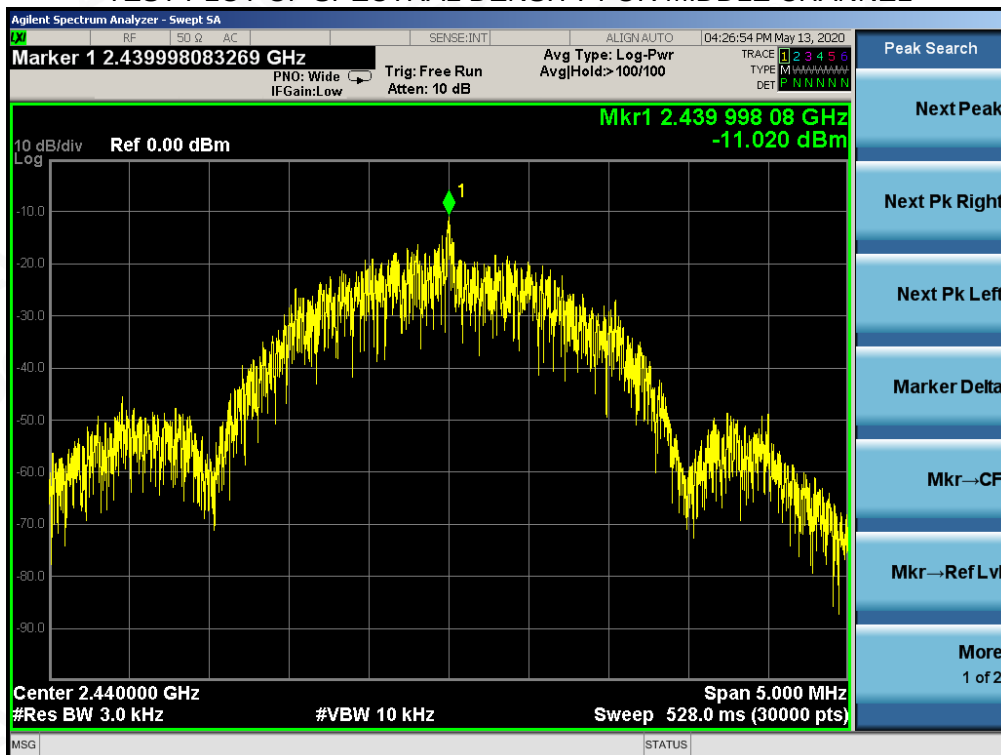
2M

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-10.916	8	Pass
Middle Channel	-11.020	8	Pass
High Channel	-11.613	8	Pass

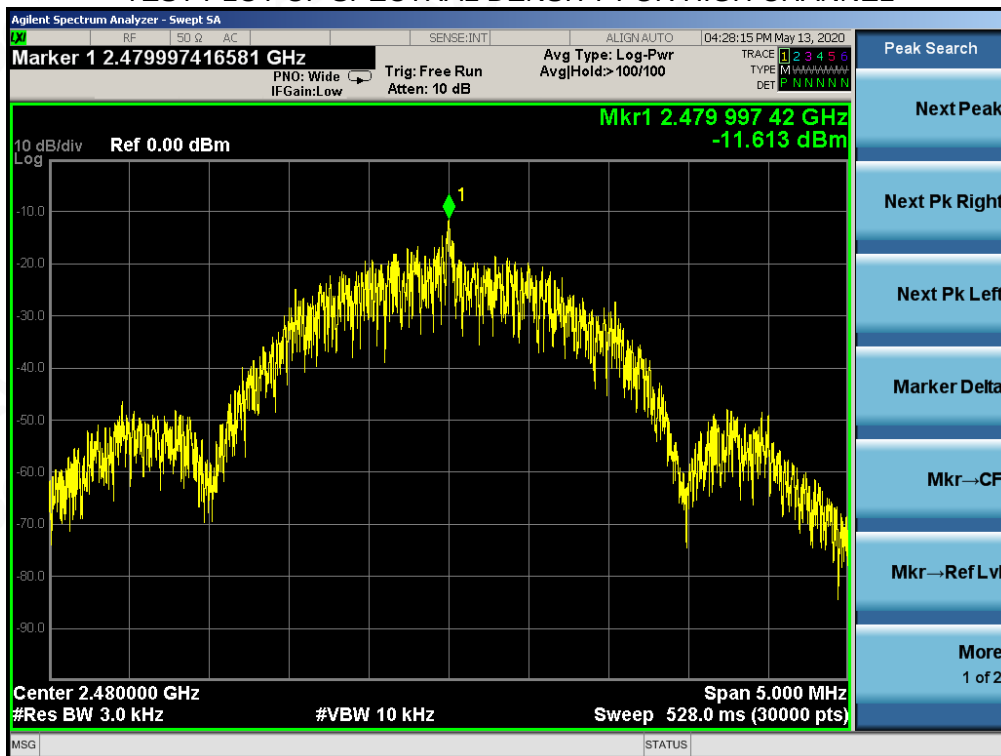
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



11. RADIATED EMISSION

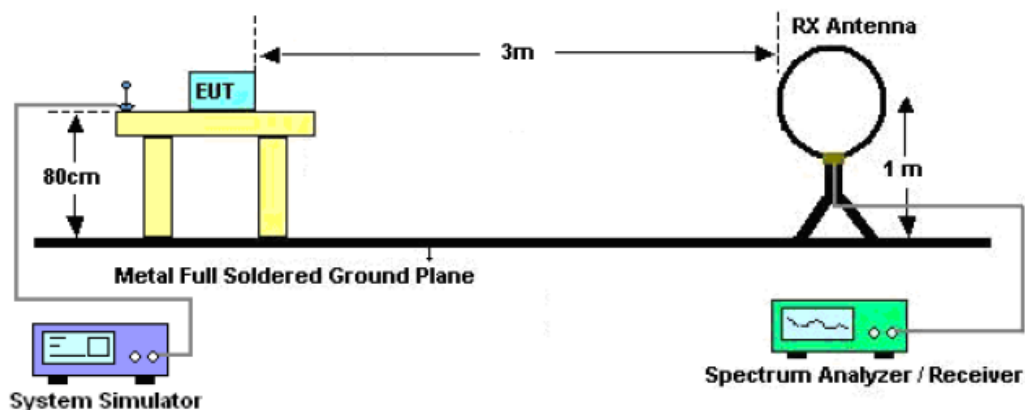
11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

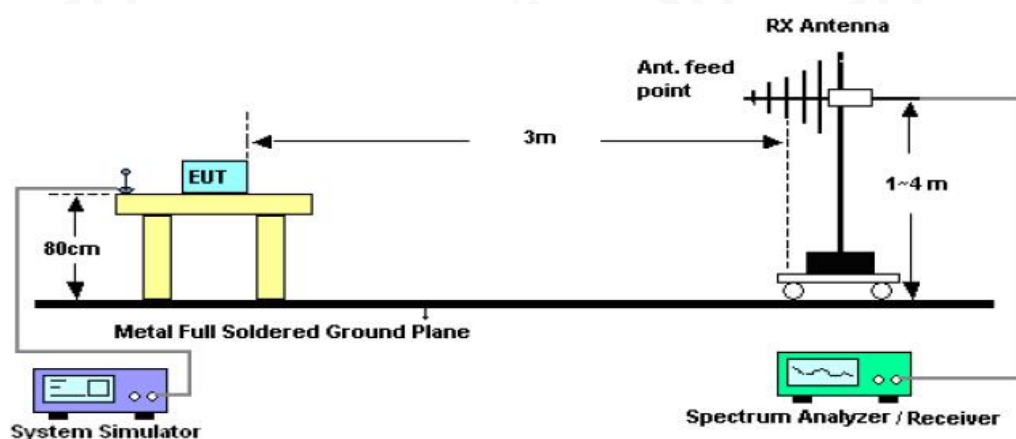


11.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

