



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Guangzhou Branch**

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Report No.: GZEM190701418202  
Page: 1 of 84  
FCC ID: 2AT6N-N30

## TEST REPORT

**Application No.:** GZEM1907014182CR  
**Applicant:** AUSOUNDS INTELLIGENCE, LLC  
**Address of Applicant:** 929 108TH AVE NE STE 1200 Bellevue WA 98004 United States Of America  
**Manufacturer:** AUSOUNDS INTELLIGENCE, LLC  
**Address of Manufacturer:** 929 108TH AVE NE STE 1200 Bellevue WA 98004 United States Of America  
**Factory:** Jiangxi Lianchuang Hongsheng Electronic Co., Ltd.  
**Address of Factory:** No.1699,Jingdong Avenue,High-tech Industry Development  
Zone,Qingshanhu District,Nanchang City,Jiangxi,P.R.China  
**Equipment Under Test (EUT):**  
**FCC ID: 2AT6N-N30**  
**EUT Name:** AU-Flex ANC  
**Model No.:** AU-Flex ANC  
**Trade Mark:** Ausounds  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2019-07-09  
**Date of Test:** 2019-07-16 to 2019-07-22  
**Date of Issue:** 2019-10-08

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

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

Kobe Jian

Kobe Jian

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-10-08		Original

Authorized for issue by:			
Tested By		2019-07-16 to 2019-07-22 Date	
Checked By		2019-07-25 Date	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Dwell Time	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass



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## 4 General Information

### 4.1 Details of E.U.T.

Power Supply:	DC 5.0V for charging DC 3.7V for built-in rechargeable Li-ion battery
Test Voltage:	DC 5.0V
Cable:	USB-C charging input port
Antenna Gain:	0dBi
Antenna Type:	Integrated Antenna
Channel Spacing:	1MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.5 \times 10^{-8}$
2	Duty cycle	$\pm 0.57\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Conducted power	$\pm 0.68\text{dB}$
5	RF Power Density	$\pm 1.50\text{dB}$
6	Conducted Spurious Emissions	$\pm 1.04\text{dB}$
7	RF Radiated Power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious Emission Test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-18GHz)
9	Temperature	$\pm 0.4^\circ\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
 Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

No tests were sub-contracted.



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#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Hopping Channel Number					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01



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Dwell Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2019-02-24	2020-02-23
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2019-04-05	2020-04-04
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2018-12-08	2019-12-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2018-12-08	2019-12-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

#### 6.1.2 Conclusion

Standard 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best-case gain of the antenna is 0dBi.

## 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

### 6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

> Number of shift register stages: 9

> Length of pseudo-random sequence:  $2^9 - 1 = 511$  bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum bands



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## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation



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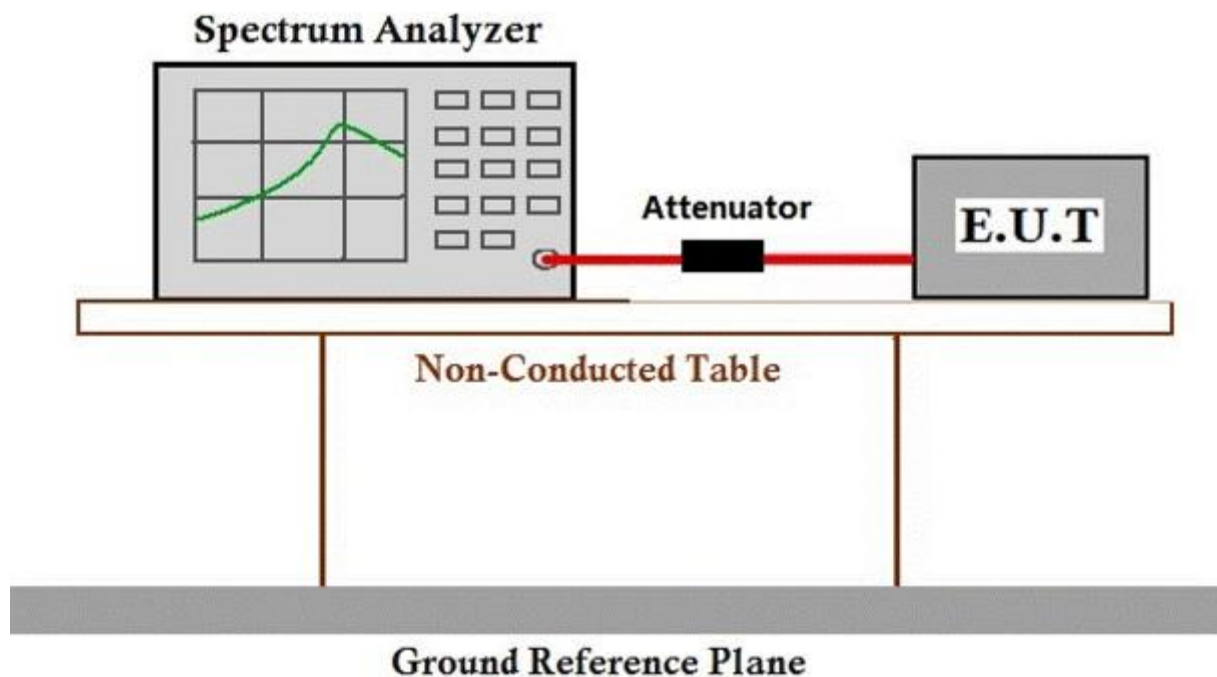
### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 65.9 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.1.2 Test Setup Diagram



### 7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.7

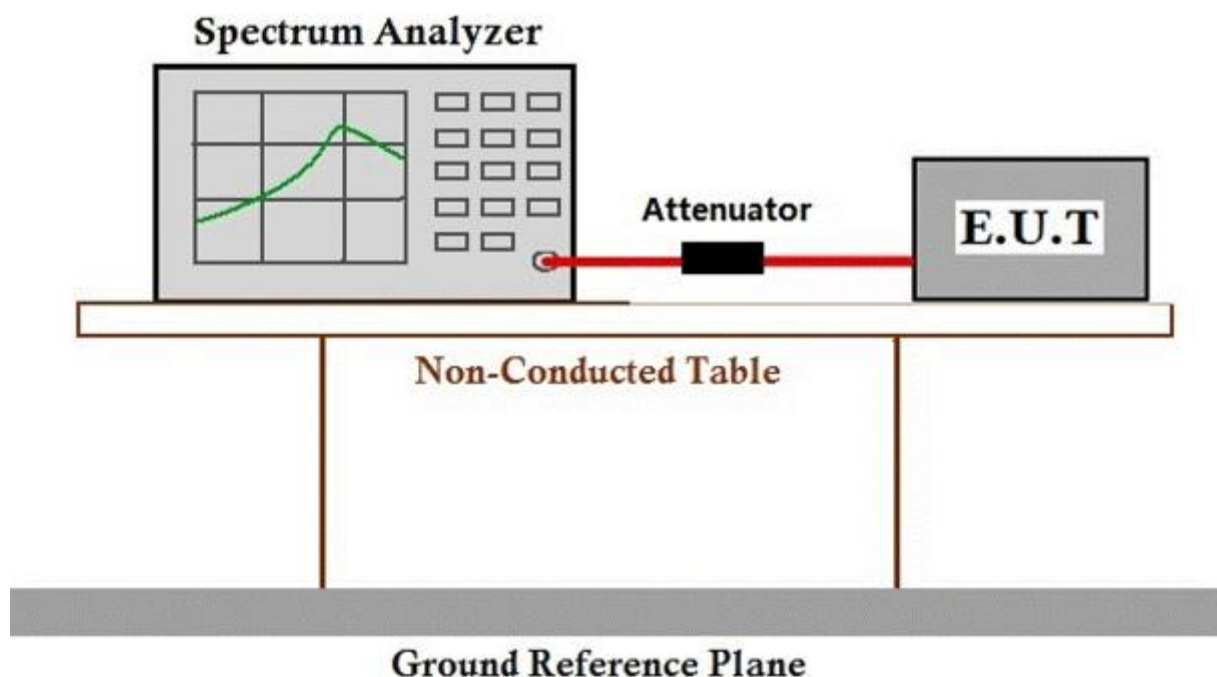
### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 65.9 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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### 7.3 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)  
 Test Method: ANSI C63.10 (2013) Section 7.8.2  
 Limit: 2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

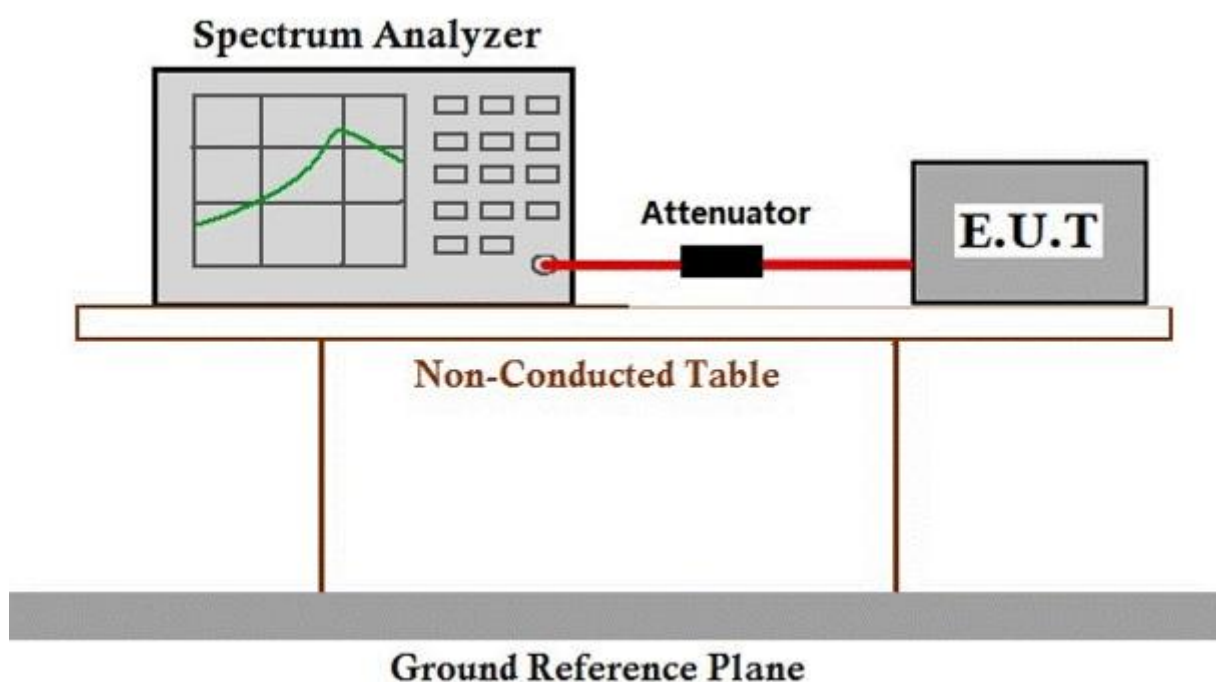
#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 65.9 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.3.2 Test Setup Diagram



#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.4 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

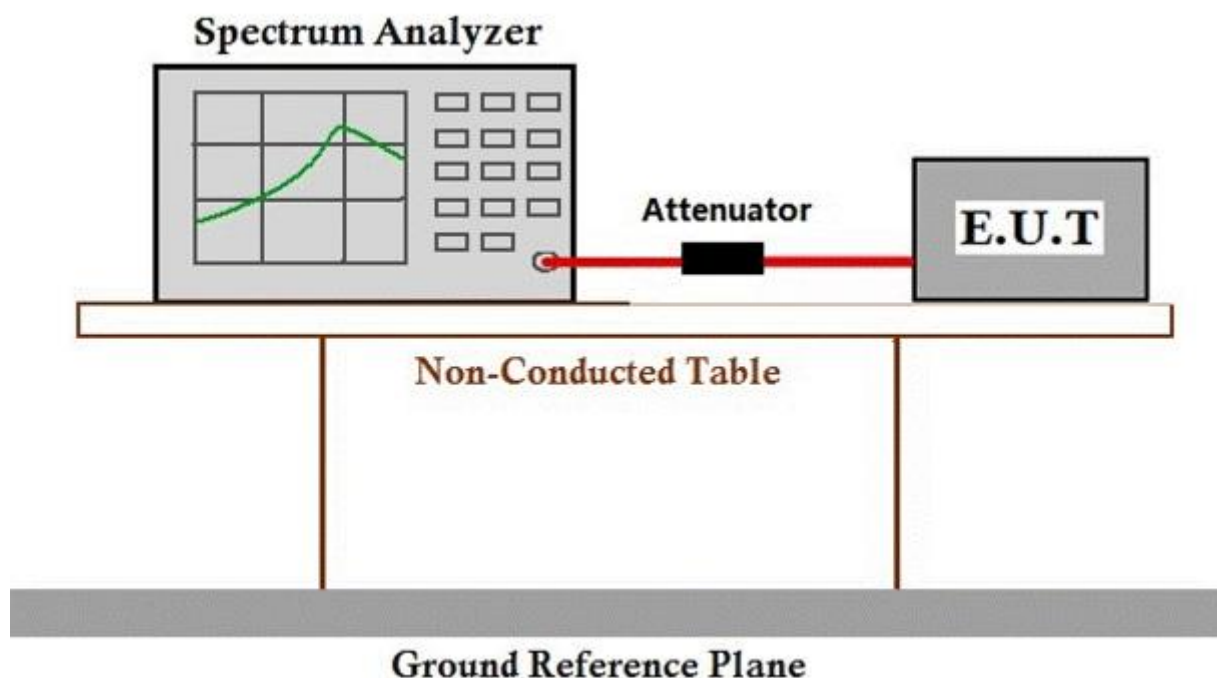
### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 65.9 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.4.2 Test Setup Diagram



### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.5 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number of hopping channels
5725-5850	0.4S within a 30S period

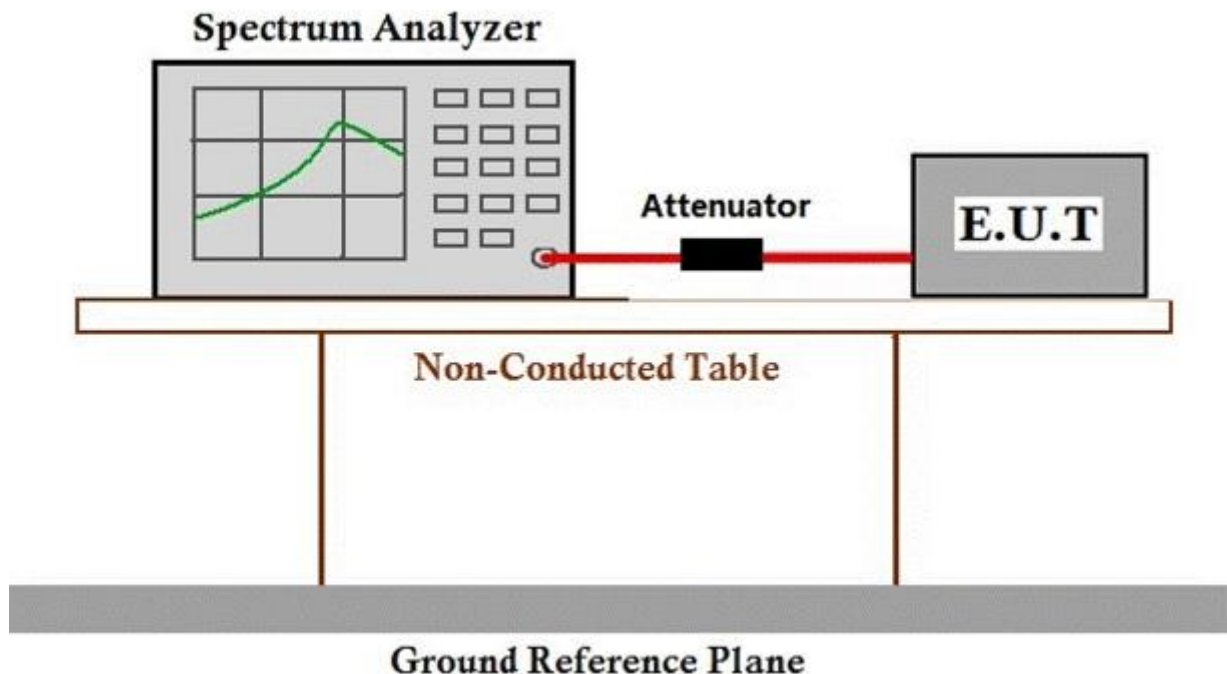
### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 65.9 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.5.2 Test Setup Diagram



### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.6 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit: 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) (see §15.205(c))



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### 7.6.1 E.U.T. Operation

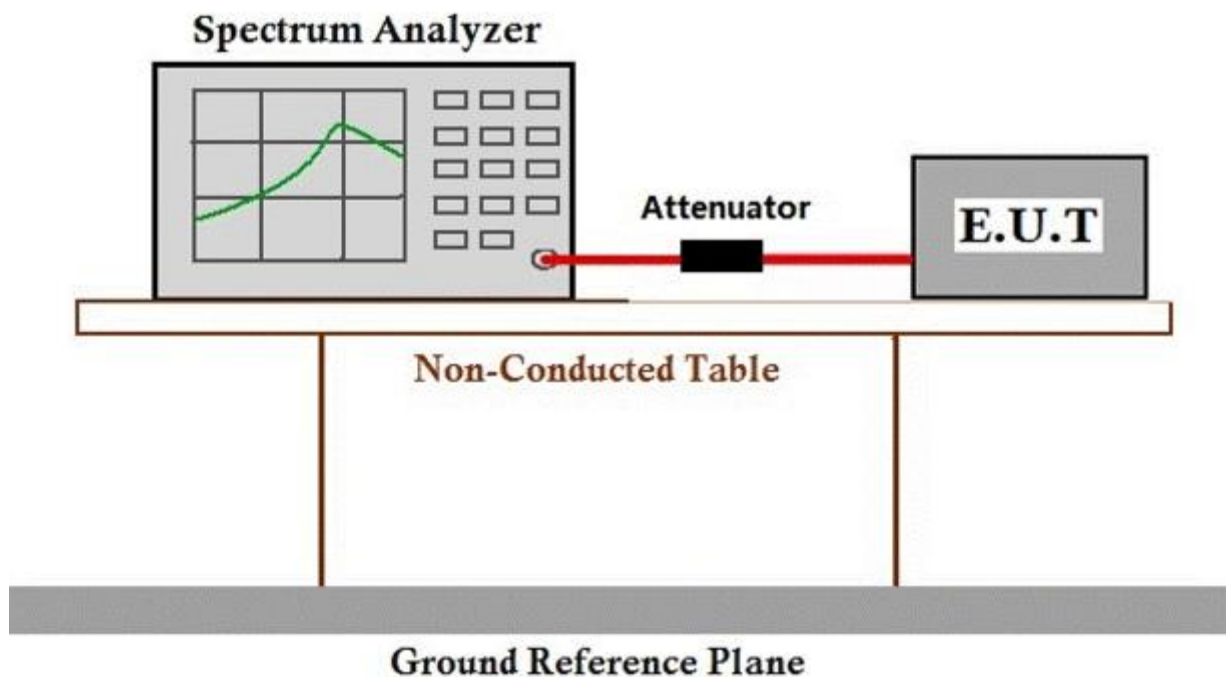
Operating Environment:

Temperature: 25.4 °C Humidity: 65.9 % RH Atmospheric Pressure: 1020 mbar

Test mode: b:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

c:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.6.2 Test Setup Diagram



### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.7 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit: 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) (see §15.205(c))



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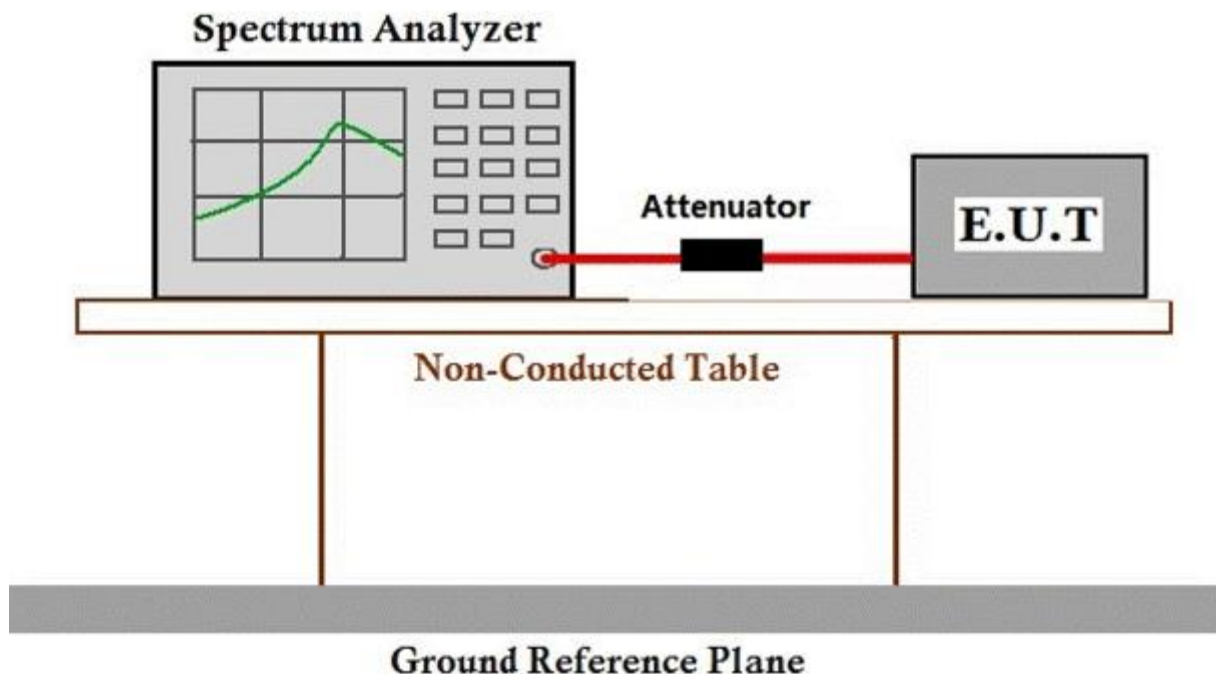
### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 65.9 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ QPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.7.2 Test Setup Diagram



### 7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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## 7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.8.1 E.U.T. Operation

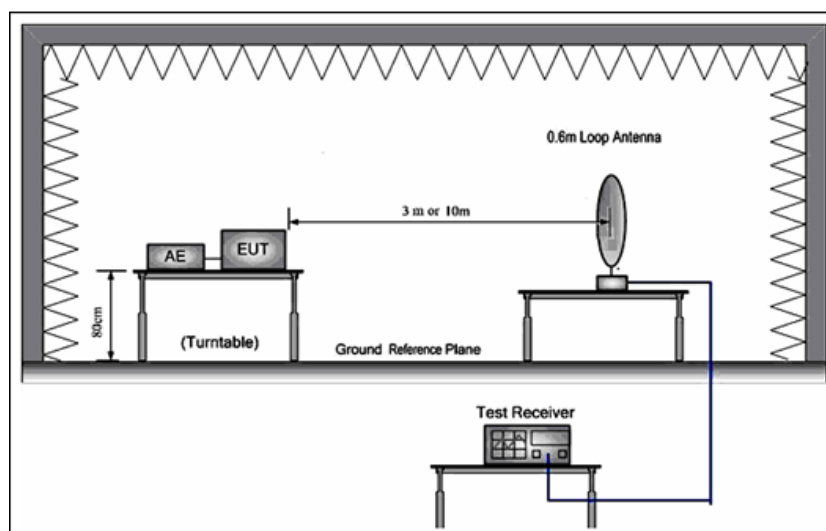
Operating Environment:

Temperature: 21 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.8.2 Test Setup Diagram

9kHz to 30MHz

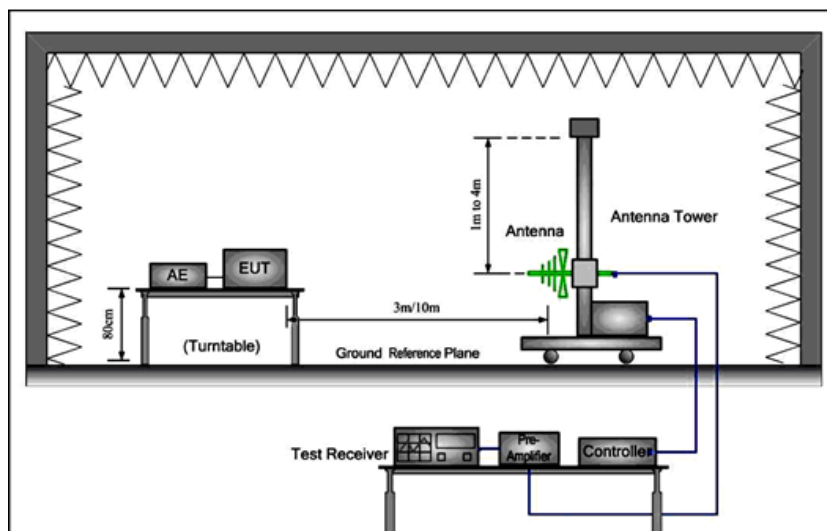


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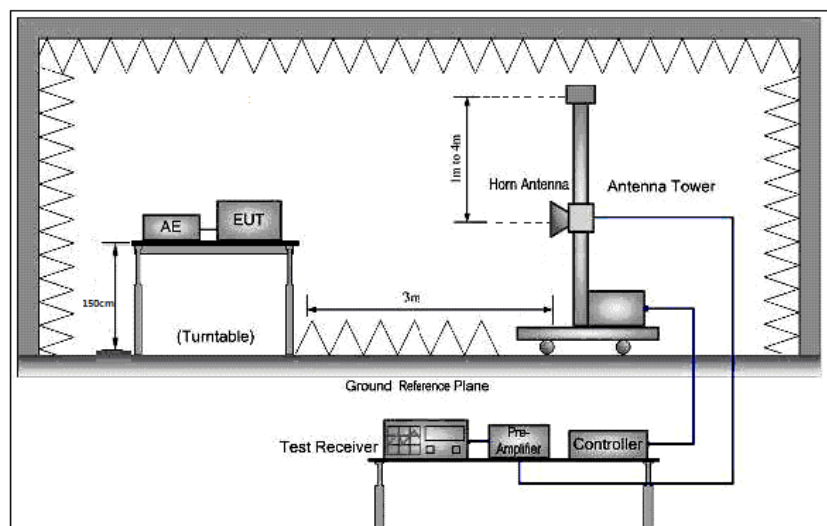
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30MHz to 1GHz



Above 1GHz



### 7.8.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	33.59	26.25	5.03	37.44	27.43	54.00	-26.57 HORIZONTAL Average
2	2310.000	46.45	26.25	5.03	37.44	40.29	74.00	-33.71 HORIZONTAL Peak
3	2390.000	35.02	26.43	4.88	37.42	28.91	54.00	-25.09 HORIZONTAL Average
4	2390.000	46.15	26.43	4.88	37.42	40.04	74.00	-33.96 HORIZONTAL Peak
5	2483.500	34.51	26.58	5.23	37.40	28.92	54.00	-25.08 HORIZONTAL Average
6	2483.500	47.18	26.58	5.23	37.40	41.59	74.00	-32.41 HORIZONTAL Peak
7	2500.000	34.83	26.60	4.95	37.39	28.99	54.00	-25.01 HORIZONTAL Average
8	2500.000	47.56	26.60	4.95	37.39	41.72	74.00	-32.28 HORIZONTAL Peak

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	34.88	26.25	5.03	37.44	28.72	54.00	-25.28 VERTICAL Average
2	2310.000	47.57	26.25	5.03	37.44	41.41	74.00	-32.59 VERTICAL Peak
3	2390.000	33.82	26.43	4.88	37.42	27.71	54.00	-26.29 VERTICAL Average
4	2390.000	46.45	26.43	4.88	37.42	40.34	74.00	-33.66 VERTICAL Peak
5	2483.500	34.26	26.58	5.23	37.40	28.67	54.00	-25.33 VERTICAL Average
6	2483.500	49.93	26.58	5.23	37.40	44.34	74.00	-29.66 VERTICAL Peak
7	2500.000	34.27	26.60	4.95	37.39	28.43	54.00	-25.57 VERTICAL Average
8	2500.000	47.55	26.60	4.95	37.39	41.71	74.00	-32.29 VERTICAL Peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	34.65	26.25	5.03	37.44	28.49	54.00	-25.51 HORIZONTAL Average
2	2310.000	46.52	26.25	5.03	37.44	40.36	74.00	-33.64 HORIZONTAL Peak
3	2390.000	34.47	26.43	4.88	37.42	28.36	54.00	-25.64 HORIZONTAL Average
4	2390.000	47.34	26.43	4.88	37.42	41.23	74.00	-32.77 HORIZONTAL Peak
5	2483.500	43.71	26.58	5.23	37.40	38.12	54.00	-15.88 HORIZONTAL Average
6	2483.500	60.45	26.58	5.23	37.40	54.86	74.00	-19.14 HORIZONTAL Peak
7	2500.000	35.34	26.60	4.95	37.39	29.50	54.00	-24.50 HORIZONTAL Average
8	2500.000	46.90	26.60	4.95	37.39	41.06	74.00	-32.94 HORIZONTAL Peak

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	33.04	26.25	5.03	37.44	26.88	54.00	-27.12 VERTICAL Average
2	2310.000	47.00	26.25	5.03	37.44	40.84	74.00	-33.16 VERTICAL Peak
3	2390.000	33.24	26.43	4.88	37.42	27.13	54.00	-26.87 VERTICAL Average
4	2390.000	46.86	26.43	4.88	37.42	40.75	74.00	-33.25 VERTICAL Peak
5	2483.500	33.61	26.58	5.23	37.40	28.02	54.00	-25.98 VERTICAL Average
6	2483.500	47.44	26.58	5.23	37.40	41.85	74.00	-32.15 VERTICAL Peak
7	2500.000	34.38	26.60	4.95	37.39	28.54	54.00	-25.46 VERTICAL Average
8	2500.000	47.54	26.60	4.95	37.39	41.70	74.00	-32.30 VERTICAL Peak



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## 7.9 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.9.1 E.U.T. Operation

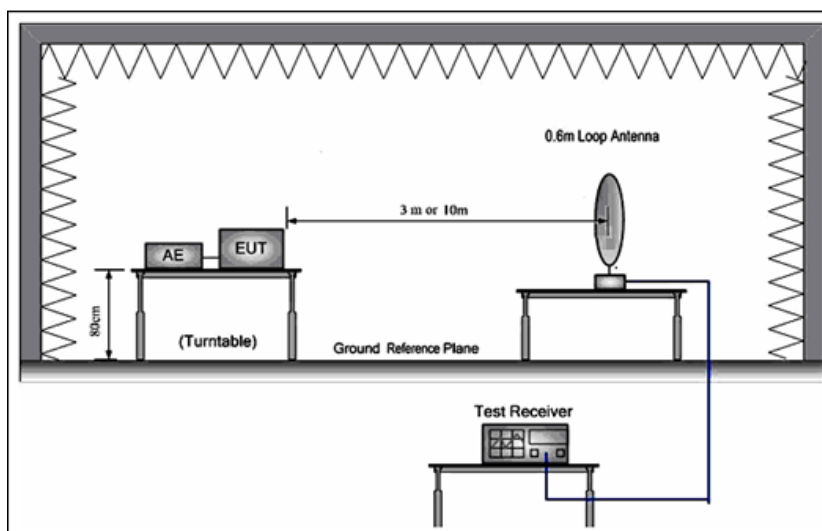
Operating Environment:

Temperature: 21 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test mode c:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.9.2 Test Setup Diagram

9kHz to 30MHz



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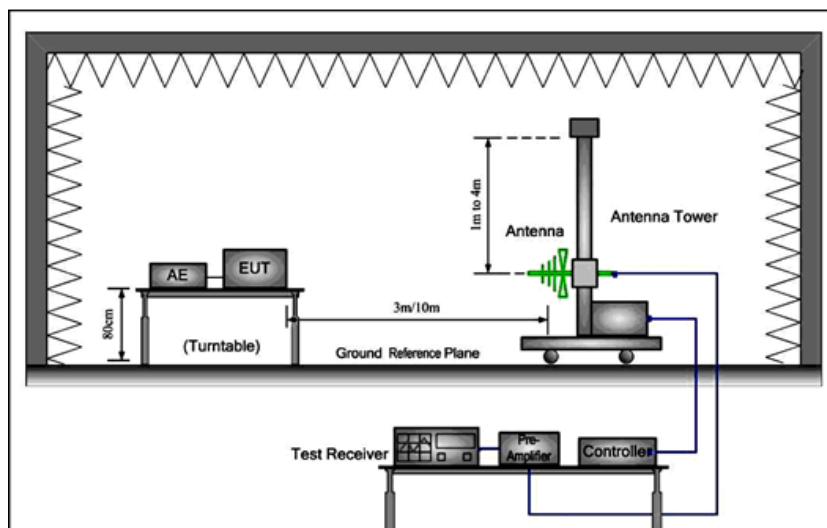
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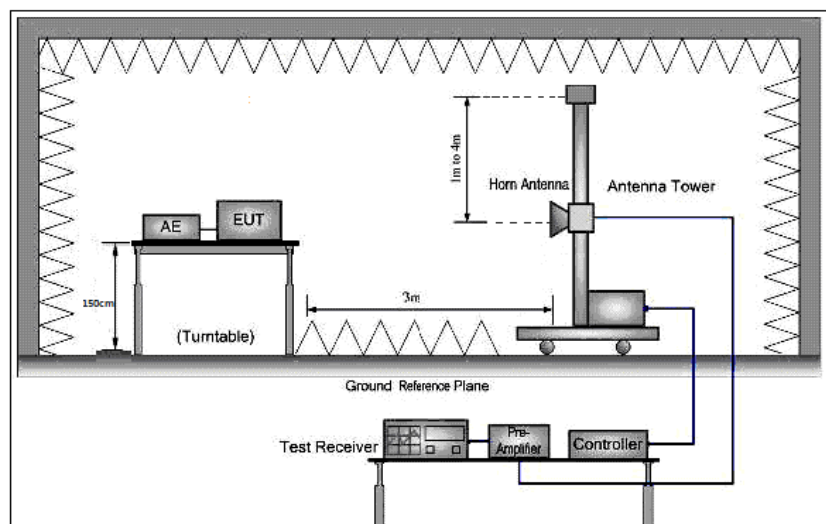
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30MHz to 1GHz



Above 1GHz





### 7.9.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	31.620	20.77	12.24	0.10	21.79	11.32	40.00	-28.68 HORIZONTAL QP
2	50.409	24.01	12.98	0.60	24.88	12.71	40.00	-27.29 HORIZONTAL QP
3	137.903	27.26	13.01	1.02	28.16	13.13	43.50	-30.37 HORIZONTAL QP
4	191.745	27.72	11.74	1.26	28.22	12.50	43.50	-31.00 HORIZONTAL QP
5	515.437	28.08	18.47	2.28	29.88	18.95	46.00	-27.05 HORIZONTAL QP
6	807.429	28.61	22.78	2.76	28.63	25.52	46.00	-20.48 HORIZONTAL QP

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	4804.110	42.41	30.79	5.87	36.94	42.13	54.00	-11.87 HORIZONTAL Average
2	4804.110	53.33	30.79	5.87	36.94	53.05	74.00	-20.95 HORIZONTAL Peak
3	5864.443	32.23	32.22	7.44	37.00	34.89	54.00	-19.11 HORIZONTAL Average
4	5864.443	45.51	32.22	7.44	37.00	48.17	74.00	-25.83 HORIZONTAL Peak
5	7206.070	33.81	35.45	7.34	36.93	39.67	54.00	-14.33 HORIZONTAL Average
6	7206.070	44.56	35.45	7.34	36.93	50.42	74.00	-23.58 HORIZONTAL Peak
7	8588.607	32.53	36.16	7.98	36.95	39.72	54.00	-14.28 HORIZONTAL Average
8	8588.607	44.18	36.16	7.98	36.95	51.37	74.00	-22.63 HORIZONTAL Peak
9	9608.577	32.80	37.51	8.15	37.08	41.38	54.00	-12.62 HORIZONTAL Average
10	9608.577	44.44	37.51	8.15	37.08	53.02	74.00	-20.98 HORIZONTAL Peak
11	12010.160	31.31	39.50	10.67	37.20	44.28	54.00	-9.72 HORIZONTAL Average
12	12010.160	42.65	39.50	10.67	37.20	55.62	74.00	-18.38 HORIZONTAL Peak



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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	30.000	23.60	12.20	0.05	21.45	14.40	40.00	-25.60 VERTICAL QP
2	37.812	22.37	12.55	0.46	23.31	12.07	40.00	-27.93 VERTICAL QP
3	57.999	23.74	12.30	0.58	25.18	11.44	40.00	-28.56 VERTICAL QP
4	138.874	26.38	13.06	1.03	28.16	12.31	43.50	-31.19 VERTICAL QP
5	188.413	26.81	12.10	1.29	28.17	12.03	43.50	-31.47 VERTICAL QP
6	824.597	28.81	22.97	2.82	28.57	26.03	46.00	-19.97 VERTICAL QP

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3598.203	35.27	28.14	6.39	36.94	32.86	54.00	-21.14 VERTICAL Average
2	3598.203	46.00	28.14	6.39	36.94	43.59	74.00	-30.41 VERTICAL Peak
3	4804.058	37.31	30.79	5.87	36.94	37.03	54.00	-16.97 VERTICAL Average
4	4804.058	48.92	30.79	5.87	36.94	48.64	74.00	-25.36 VERTICAL Peak
5	7206.461	34.42	35.45	7.34	36.93	40.28	54.00	-13.72 VERTICAL Average
6	7206.461	45.02	35.45	7.34	36.93	50.88	74.00	-23.12 VERTICAL Peak
7	9608.710	31.97	37.51	8.15	37.08	40.55	54.00	-13.45 VERTICAL Average
8	9608.710	44.85	37.51	8.15	37.08	53.43	74.00	-20.57 VERTICAL Peak
9	12010.350	31.08	39.50	10.67	37.20	44.05	54.00	-9.95 VERTICAL Average
10	12010.350	44.60	39.50	10.67	37.20	57.57	74.00	-16.43 VERTICAL Peak
11	13797.090	21.11	40.87	12.22	35.30	38.90	54.00	-15.10 VERTICAL Average
12	13797.090	33.66	40.87	12.22	35.30	51.45	74.00	-22.55 VERTICAL Peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3725.195	34.16	28.64	7.42	36.92	33.30	54.00	-20.70 HORIZONTAL Average
2	3725.195	45.32	28.64	7.42	36.92	44.46	74.00	-29.54 HORIZONTAL Peak
3	4882.043	43.49	30.95	6.86	36.95	44.35	54.00	-9.65 HORIZONTAL Average
4	4882.043	53.82	30.95	6.86	36.95	54.68	74.00	-19.32 HORIZONTAL Peak
5	6507.536	35.92	34.30	7.07	36.98	40.31	54.00	-13.69 HORIZONTAL Average
6	6507.536	47.60	34.30	7.07	36.98	51.99	74.00	-22.01 HORIZONTAL Peak
7	7323.254	35.87	35.74	7.39	36.92	42.08	54.00	-11.92 HORIZONTAL Average
8	7323.254	46.12	35.74	7.39	36.92	52.33	74.00	-21.67 HORIZONTAL Peak
9	9764.916	33.37	37.70	8.33	37.09	42.31	54.00	-11.69 HORIZONTAL Average
10	9764.916	45.28	37.70	8.33	37.09	54.22	74.00	-19.78 HORIZONTAL Peak
11	12205.540	30.44	39.21	10.98	37.06	43.57	54.00	-10.43 HORIZONTAL Average
12	12205.540	43.69	39.21	10.98	37.06	56.82	74.00	-17.18 HORIZONTAL Peak

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3924.135	35.06	29.35	7.47	36.91	34.97	54.00	-19.03 VERTICAL Average
2	3924.135	45.73	29.35	7.47	36.91	45.64	74.00	-28.36 VERTICAL Peak
3	4882.307	39.14	30.95	6.86	36.95	40.00	54.00	-14.00 VERTICAL Average
4	4882.307	52.87	30.95	6.86	36.95	53.73	74.00	-20.27 VERTICAL Peak
5	6377.195	32.84	33.91	6.99	36.99	36.75	54.00	-17.25 VERTICAL Average
6	6377.195	43.82	33.91	6.99	36.99	47.73	74.00	-26.27 VERTICAL Peak
7	7323.070	33.85	35.74	7.39	36.92	40.06	54.00	-13.94 VERTICAL Average
8	7323.070	45.25	35.74	7.39	36.92	51.46	74.00	-22.54 VERTICAL Peak
9	9764.371	32.99	37.70	8.33	37.09	41.93	54.00	-12.07 VERTICAL Average
10	9764.371	44.69	37.70	8.33	37.09	53.63	74.00	-20.37 VERTICAL Peak
11	12205.210	30.74	39.21	10.98	37.06	43.87	54.00	-10.13 VERTICAL Average
12	12205.210	41.46	39.21	10.98	37.06	54.59	74.00	-19.41 VERTICAL Peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3790.361	34.33	28.97	7.83	36.92	34.21	54.00	-19.79 HORIZONTAL Average
2	3790.361	44.65	28.97	7.83	36.92	44.53	74.00	-29.47 HORIZONTAL Peak
3	4960.307	44.63	31.05	7.84	36.96	46.56	54.00	-7.44 HORIZONTAL Average
4	4960.307	54.66	31.05	7.84	36.96	56.59	74.00	-17.41 HORIZONTAL Peak
5	7440.052	31.16	35.92	7.43	36.92	37.59	54.00	-16.41 HORIZONTAL Average
6	7440.052	43.90	35.92	7.43	36.92	50.33	74.00	-23.67 HORIZONTAL Peak
7	9920.272	32.15	37.92	8.63	37.10	41.60	54.00	-12.40 HORIZONTAL Average
8	9920.272	44.00	37.92	8.63	37.10	53.45	74.00	-20.55 HORIZONTAL Peak
9	12400.920	31.28	38.93	11.17	36.90	44.48	54.00	-9.52 HORIZONTAL Average
10	12400.920	43.75	38.93	11.17	36.90	56.95	74.00	-17.05 HORIZONTAL Peak
11	13984.540	24.37	41.20	11.95	35.20	42.32	54.00	-11.68 HORIZONTAL Average
12	13984.540	36.10	41.20	11.95	35.20	54.05	74.00	-19.95 HORIZONTAL Peak

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3347.371	36.46	27.90	5.57	36.98	32.95	54.00	-21.05 VERTICAL Average
2	3347.371	46.18	27.90	5.57	36.98	42.67	74.00	-31.33 VERTICAL Peak
3	4960.110	44.01	31.05	7.84	36.96	45.94	54.00	-8.06 VERTICAL Average
4	4960.110	53.40	31.05	7.84	36.96	55.33	74.00	-18.67 VERTICAL Peak
5	6414.167	36.56	34.03	7.01	36.99	40.61	54.00	-13.39 VERTICAL Average
6	6414.167	48.74	34.03	7.01	36.99	52.79	74.00	-21.21 VERTICAL Peak
7	7440.309	38.15	35.92	7.43	36.92	44.58	54.00	-9.42 VERTICAL Average
8	7440.309	49.29	35.92	7.43	36.92	55.72	74.00	-18.28 VERTICAL Peak
9	9920.795	34.20	37.92	8.63	37.10	43.65	54.00	-10.35 VERTICAL Average
10	9920.795	45.26	37.92	8.63	37.10	54.71	74.00	-19.29 VERTICAL Peak
11	12400.020	28.73	38.93	11.17	36.90	41.93	54.00	-12.07 VERTICAL Average
12	12400.020	41.96	38.93	11.17	36.90	55.16	74.00	-18.84 VERTICAL Peak



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## 8 Appendix

### 8.1 Appendix 15.247

#### 1.20 dB Bandwidth

Test Mode	Test Channel	OBW[MHz]	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.94874	1.037	---	PASS
DH5	2441	0.93232	1.042	---	PASS
DH5	2480	0.94419	1.029	---	PASS
2DH5	2402	1.1454	1.183	---	PASS
2DH5	2441	1.1445	1.183	---	PASS
2DH5	2480	1.1461	1.182	---	PASS
3DH5	2402	1.1390	1.199	---	PASS
3DH5	2441	1.1403	1.198	---	PASS
3DH5	2480	1.1372	1.195	---	PASS

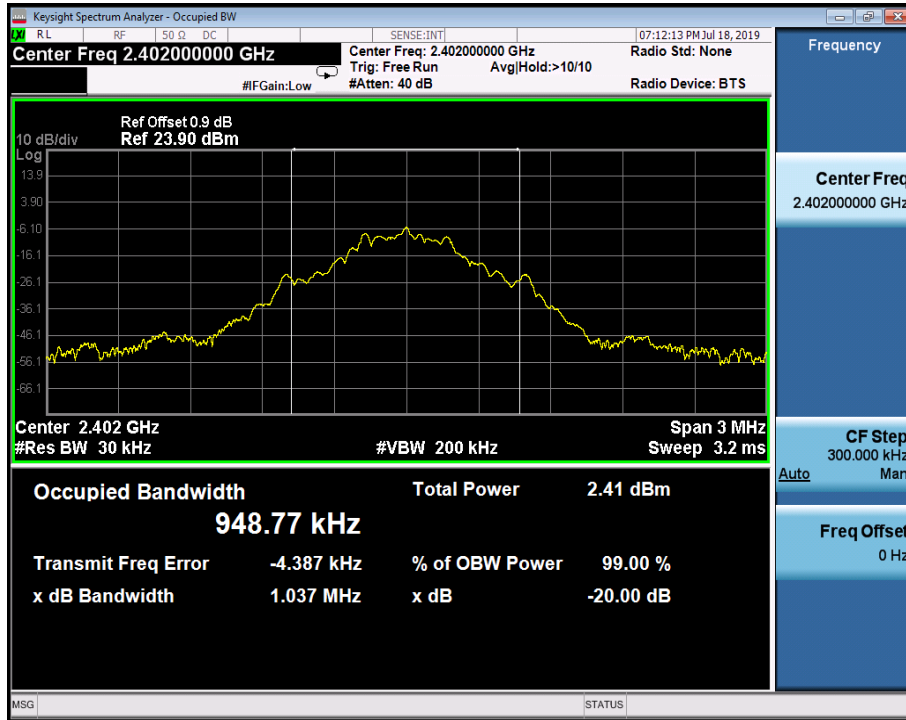


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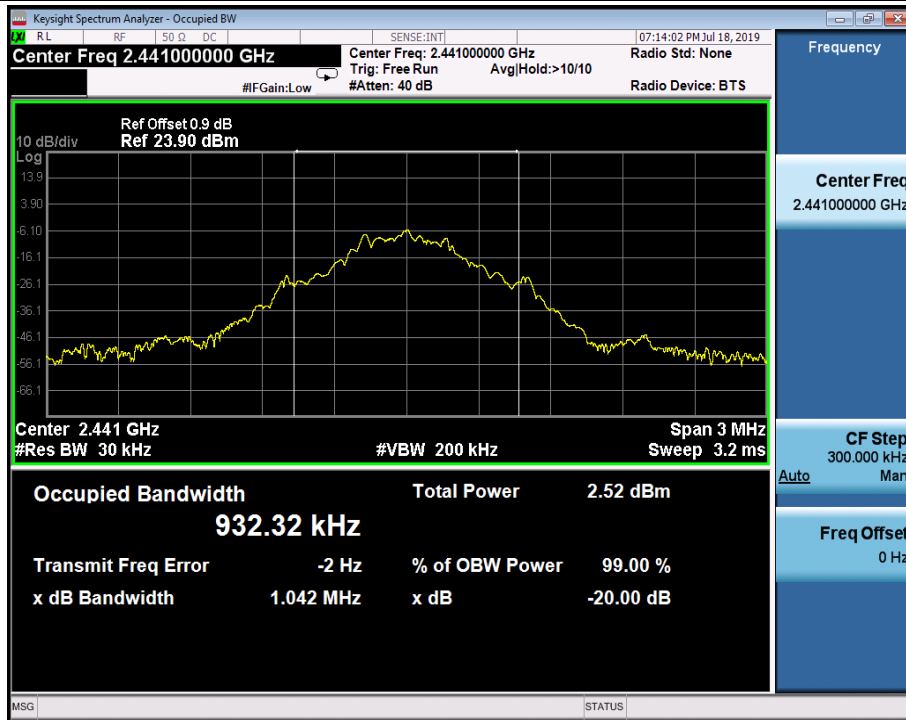
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## TEST PLOT

### 20 dB Bandwidth\_DH5\_2402



### 20 dB Bandwidth\_DH5\_2441

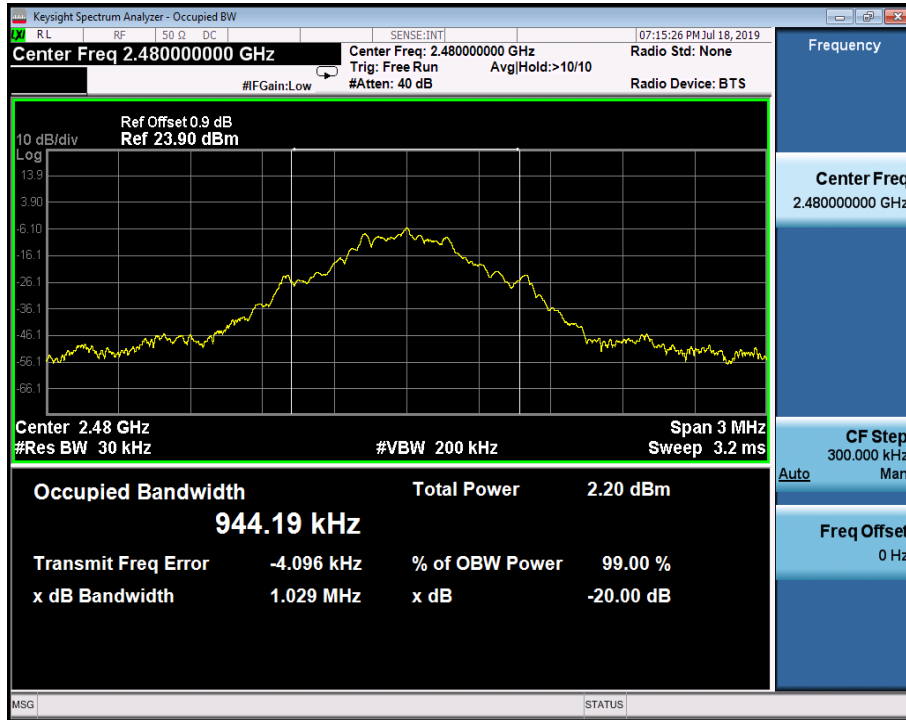


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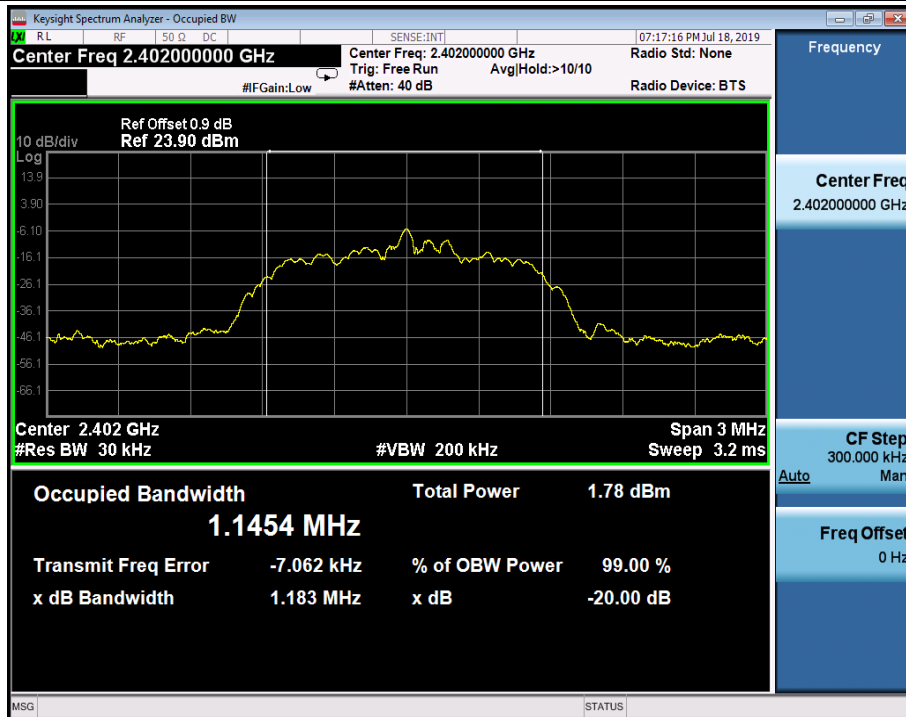
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## 20 dB Bandwidth\_DH5\_2480



## 20 dB Bandwidth\_2DH5\_2402



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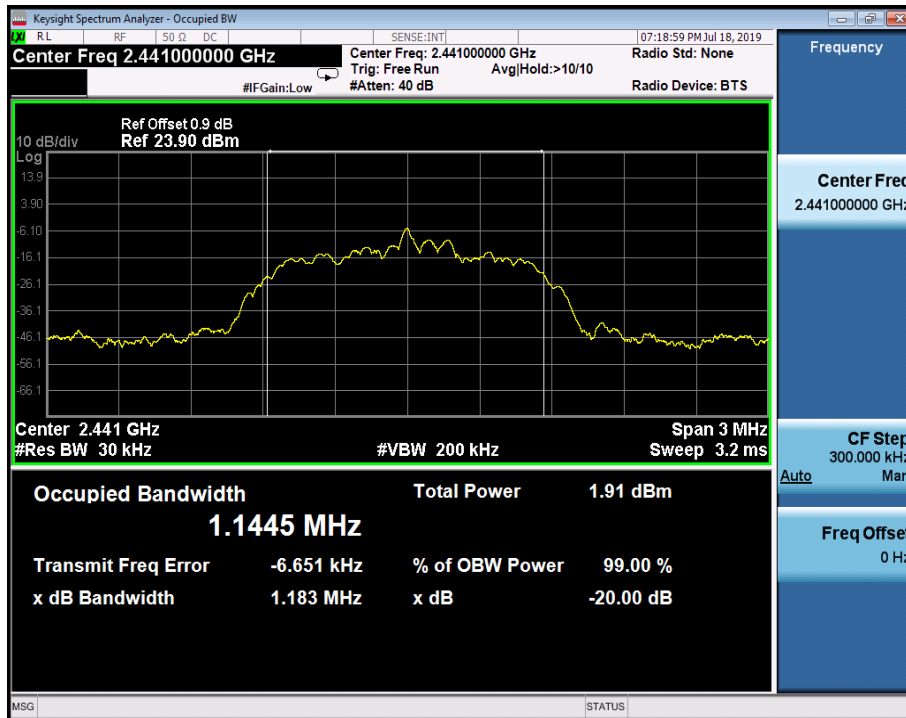
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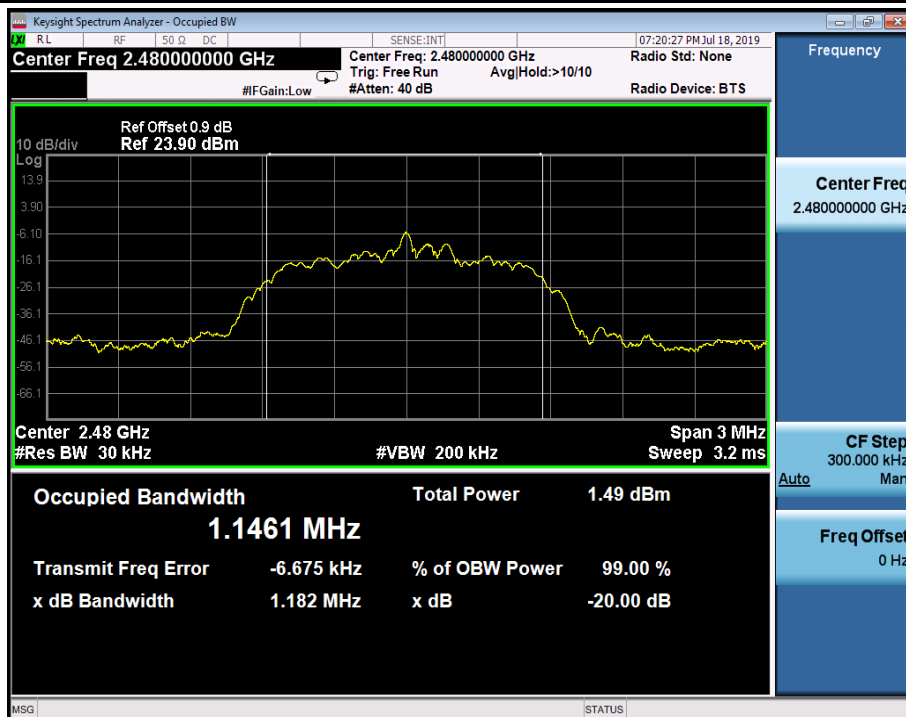
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## 20 dB Bandwidth\_2DH5\_2441



## 20 dB Bandwidth\_2DH5\_2480



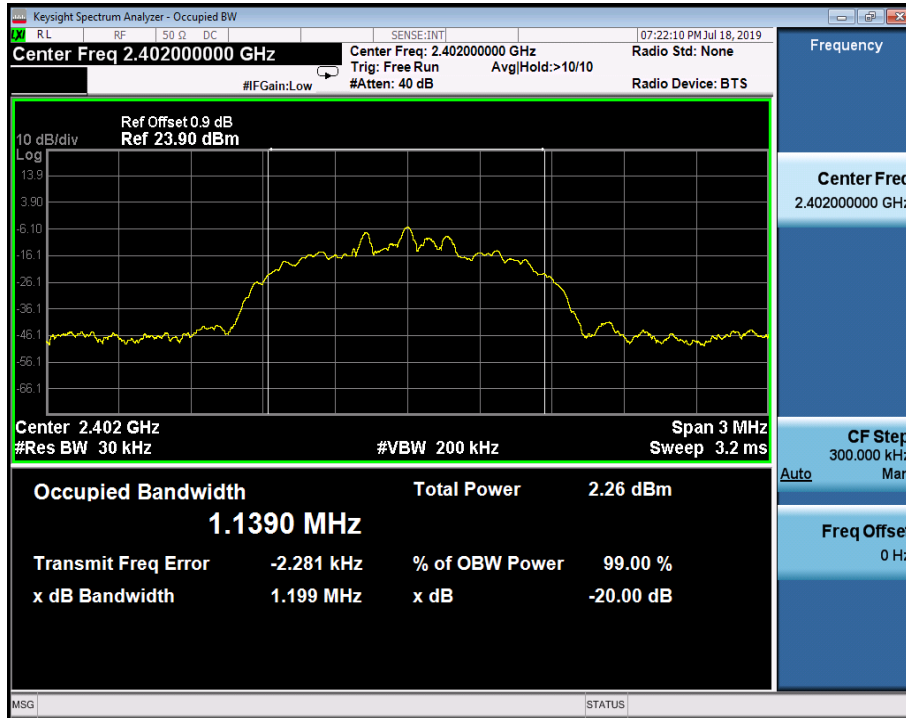
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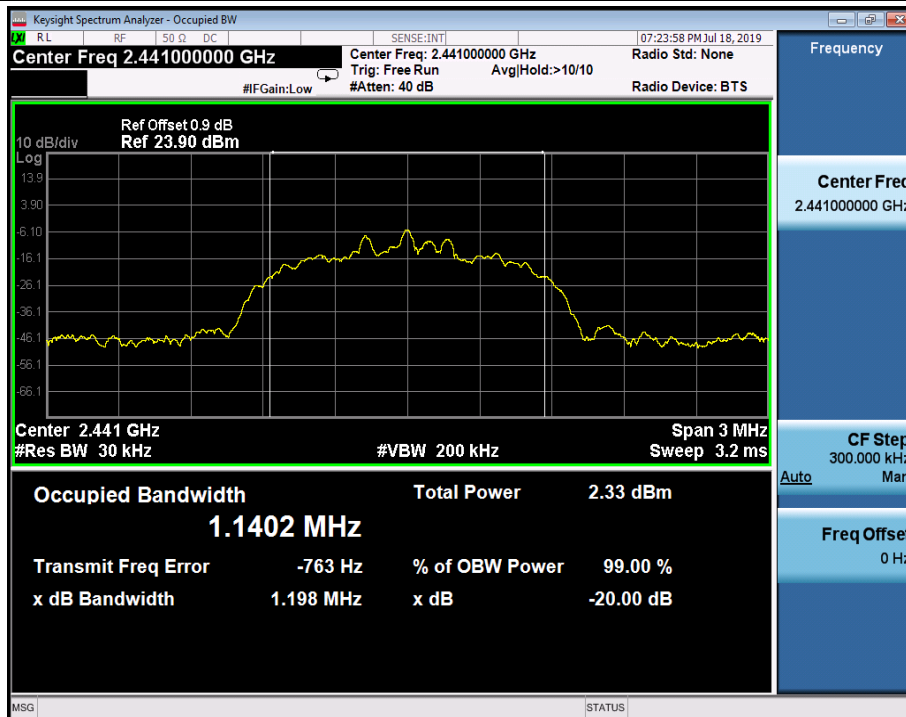
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## 20 dB Bandwidth\_3DH5\_2402



## 20 dB Bandwidth\_3DH5\_2441



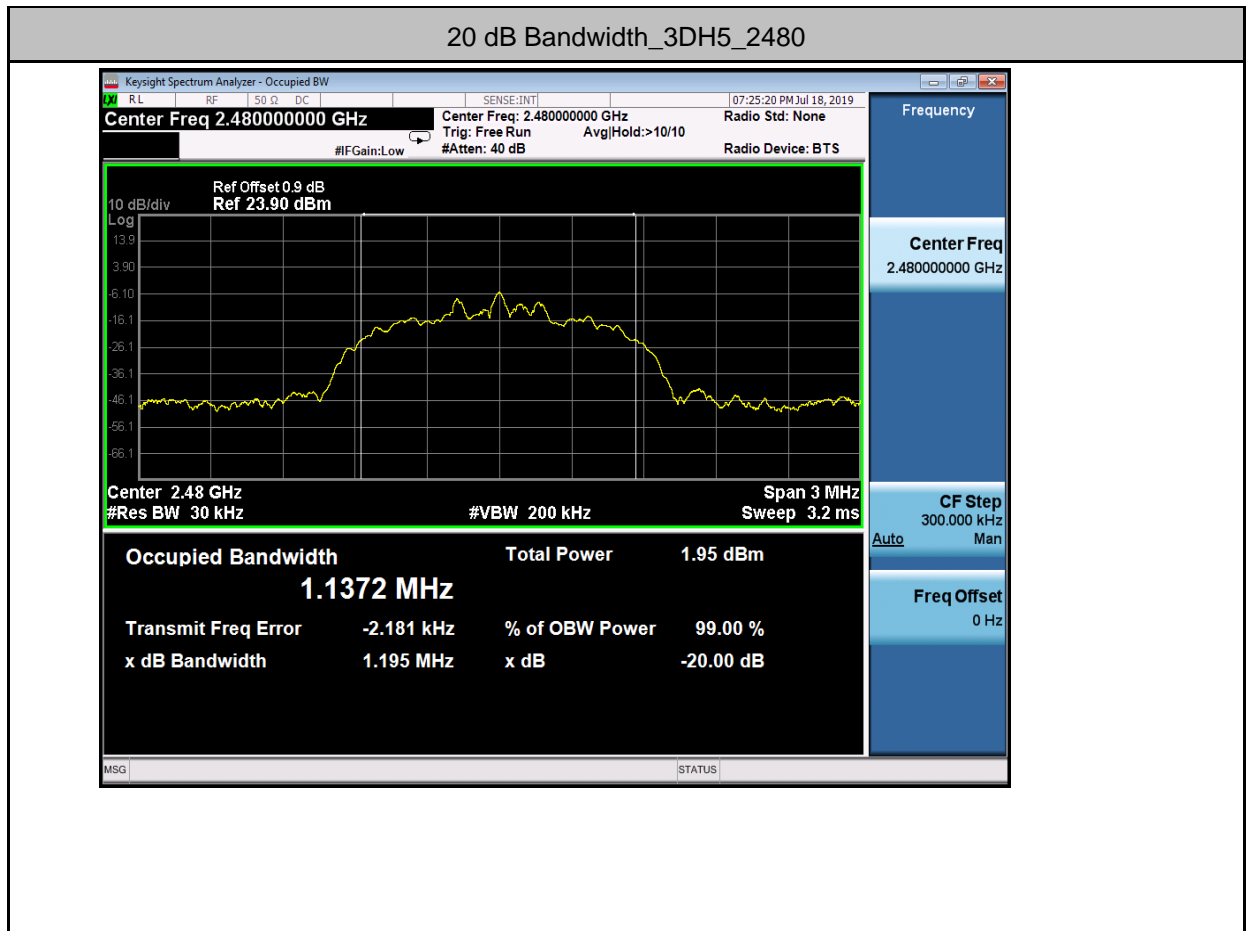
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## 2. Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	-5.024	20.9	PASS
DH5	2441	-4.896	20.9	PASS
DH5	2480	-5.185	20.9	PASS
2DH5	2402	-4.381	20.9	PASS
2DH5	2441	-4.325	20.9	PASS
2DH5	2480	-4.683	20.9	PASS
3DH5	2402	-3.796	20.9	PASS
3DH5	2441	-3.757	20.9	PASS
3DH5	2480	-4.331	20.9	PASS



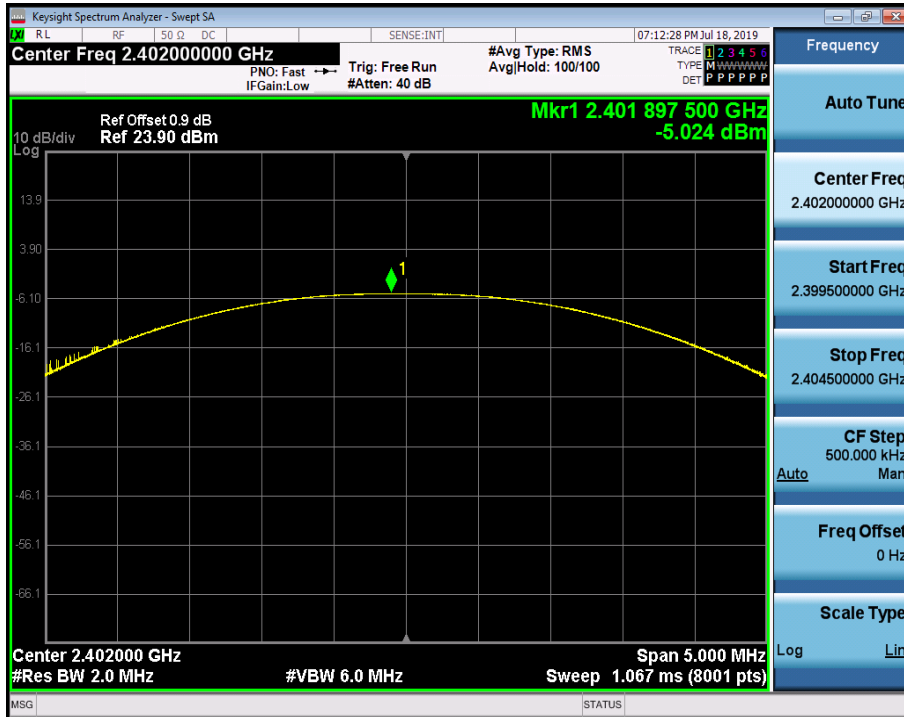
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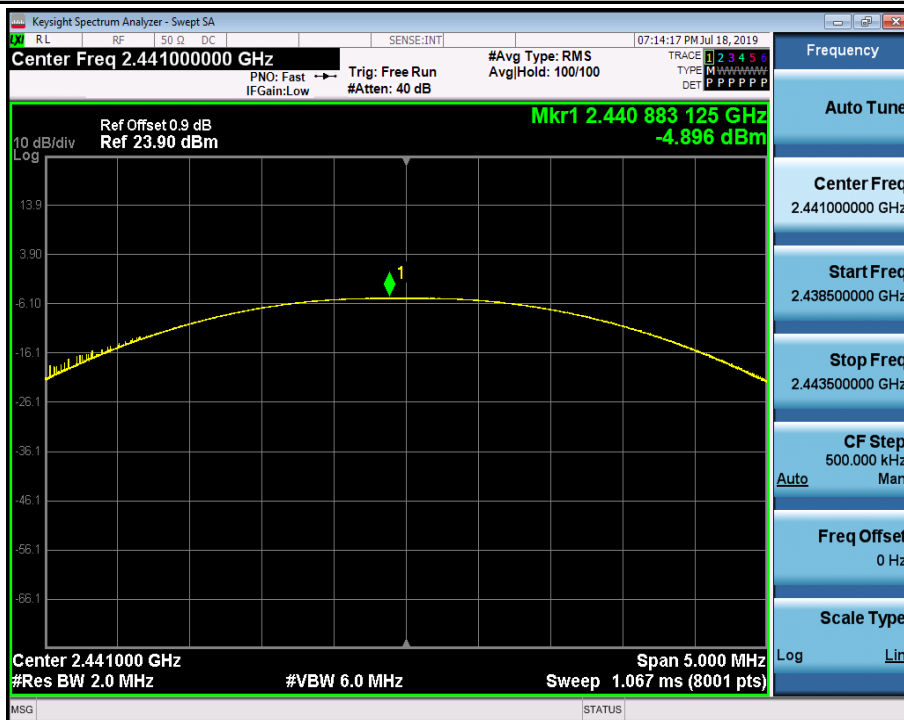


## TEST PLOT

### Conducted Peak Output Power\_DH5\_2402



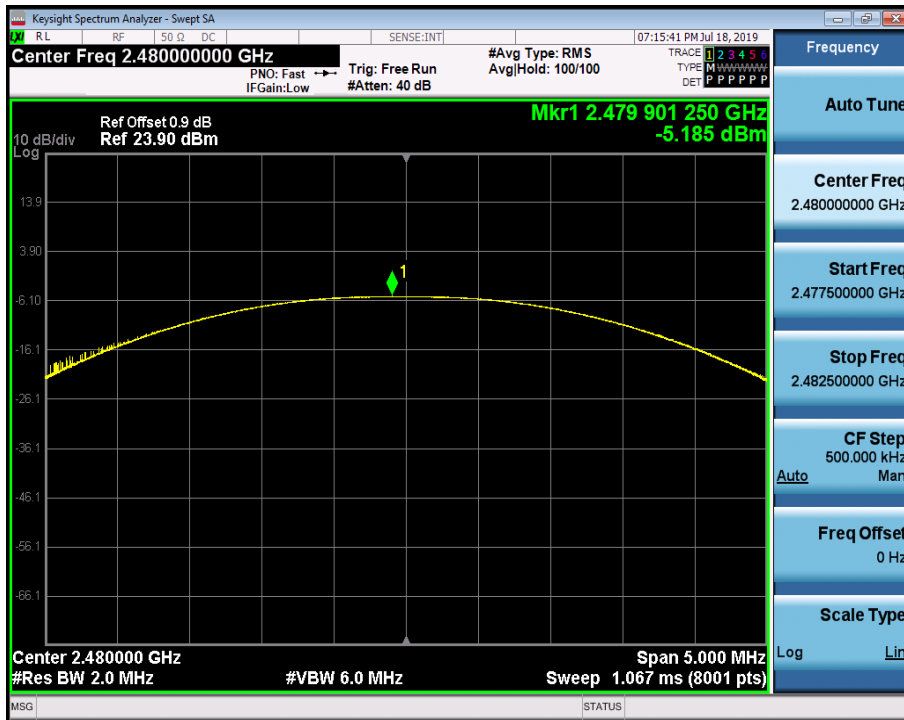
### Conducted Peak Output Power\_DH5\_2441



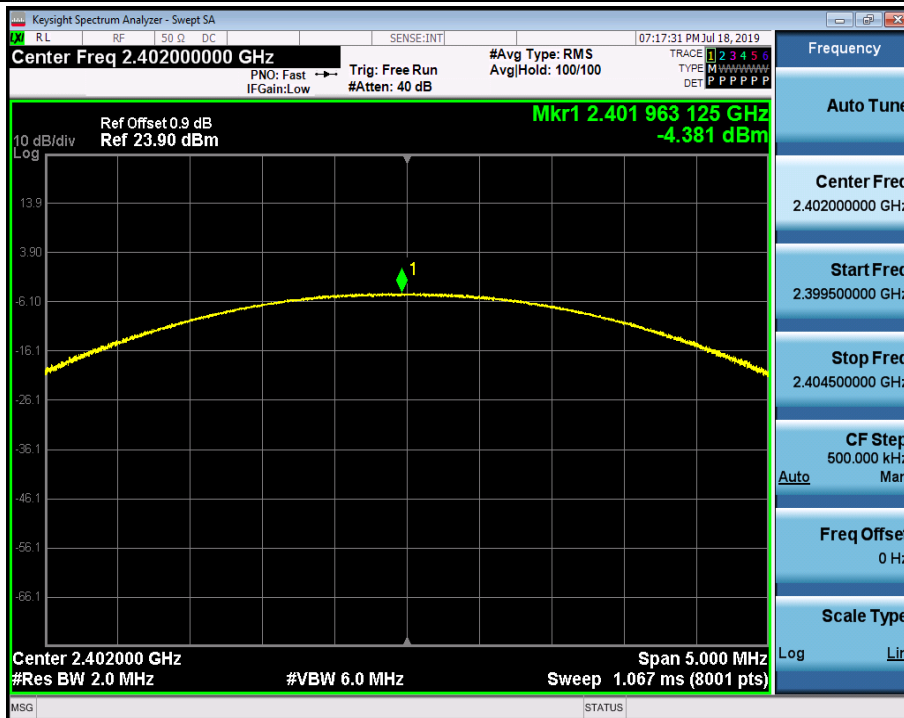
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## Conducted Peak Output Power\_DH5\_2480



## Conducted Peak Output Power\_2DH5\_2402



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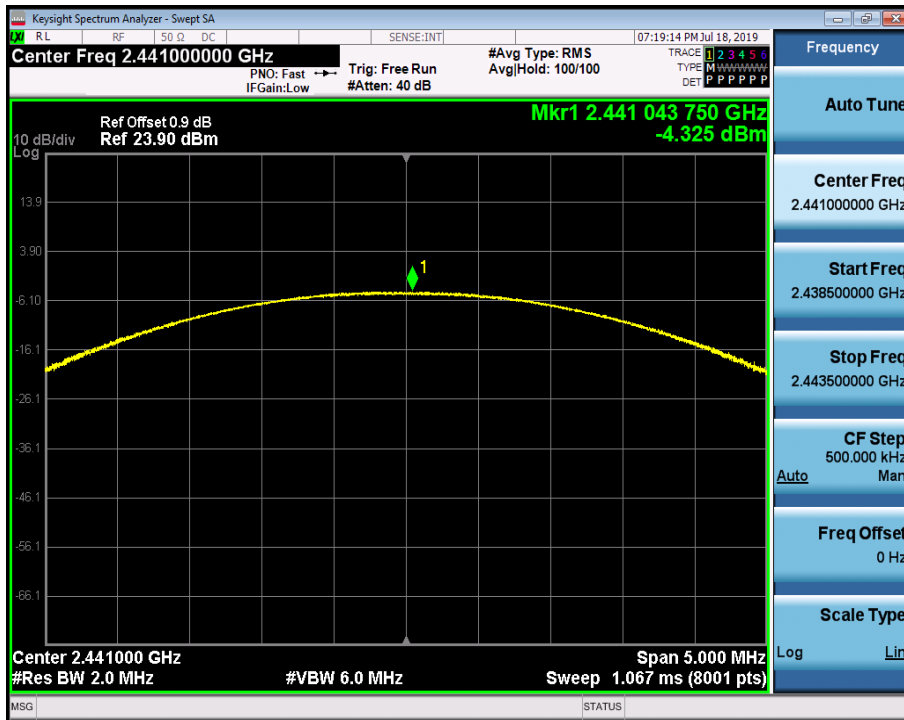
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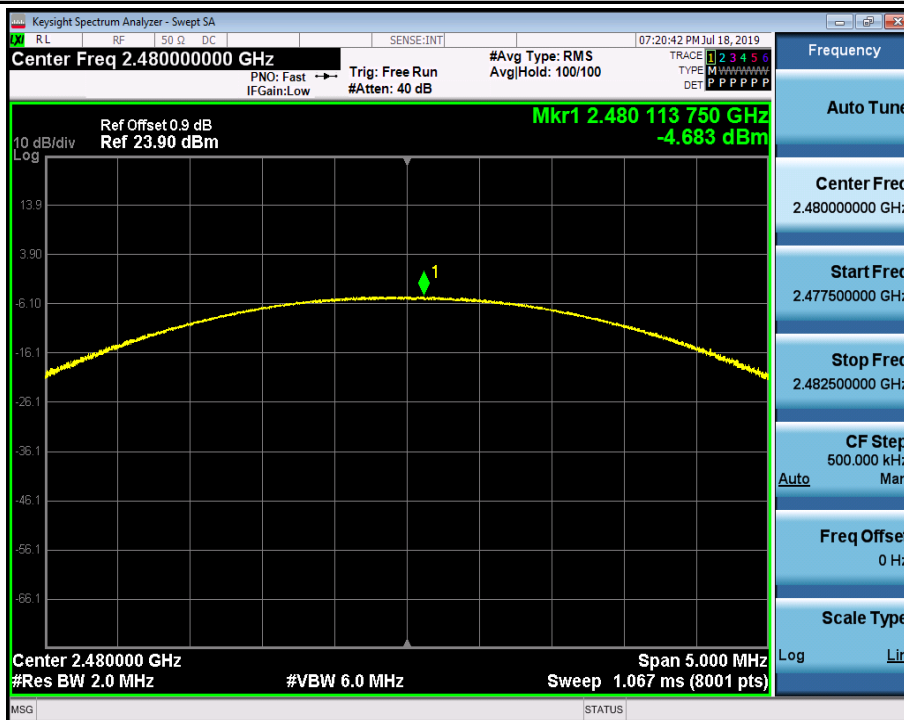
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## Conducted Peak Output Power\_2DH5\_2441



## Conducted Peak Output Power\_2DH5\_2480

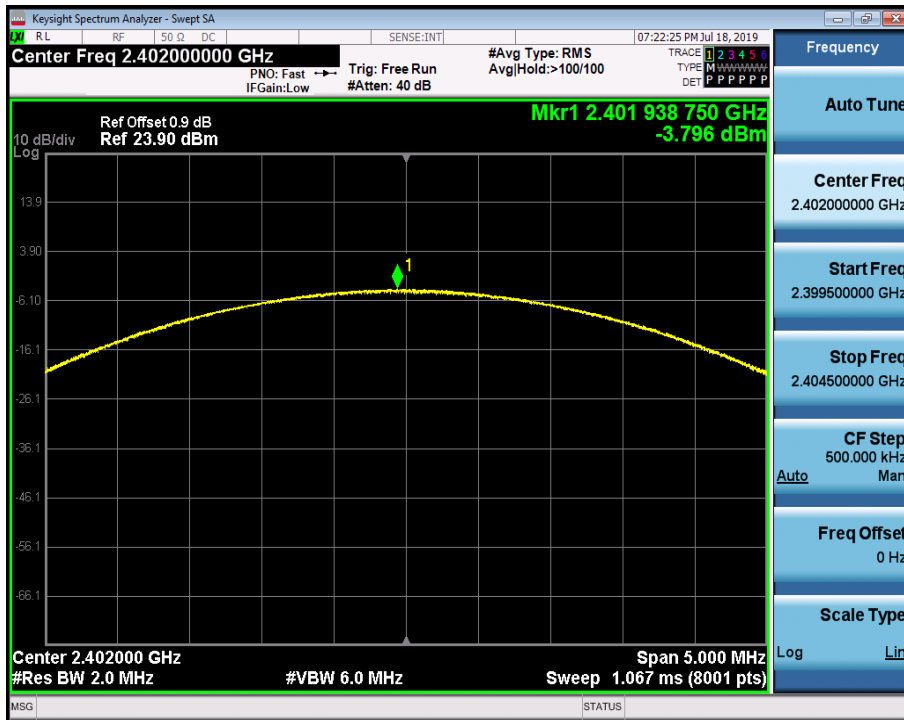


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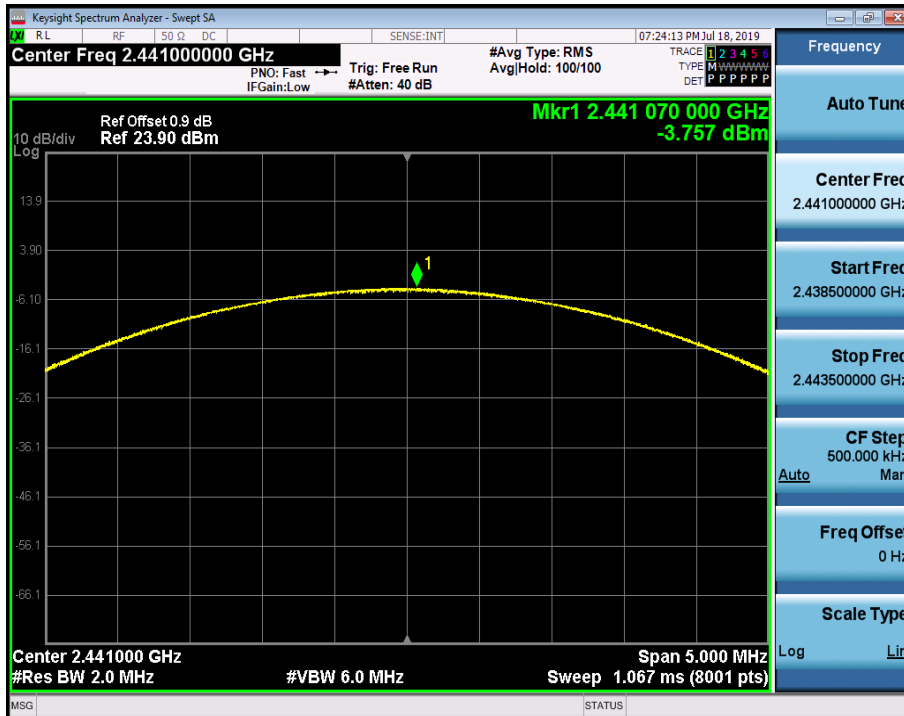
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## Conducted Peak Output Power\_3DH5\_2402



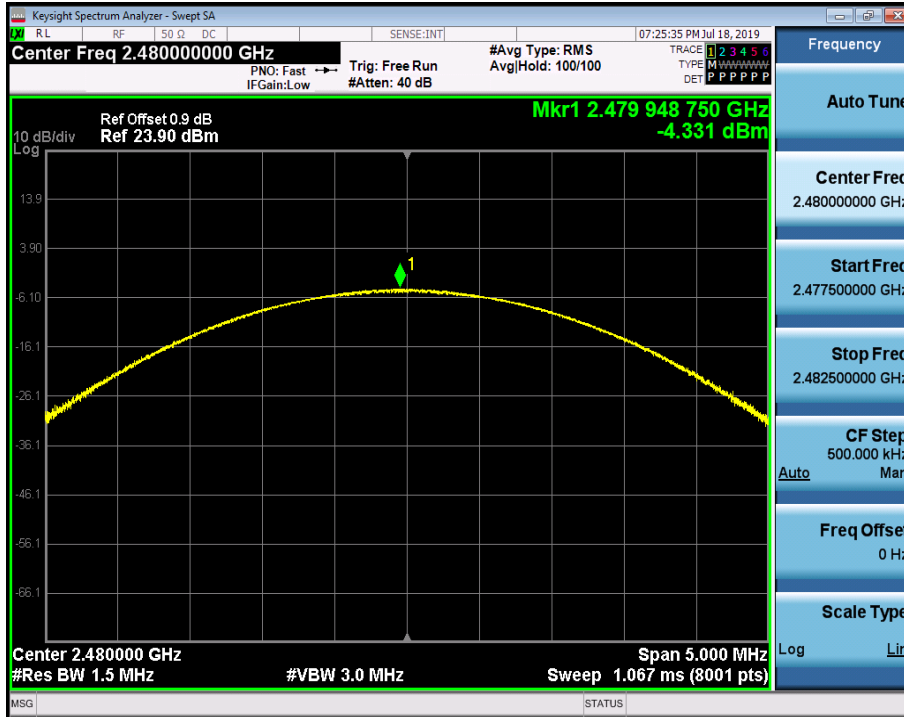
## Conducted Peak Output Power\_3DH5\_2441



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## Conducted Peak Output Power\_3DH5\_2480



### 3.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	0.949	0.632	PASS
DH5	2441	1.067	0.622	PASS
DH5	2480	0.846	0.629	PASS



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## TEST PLOT

### Carrier Frequency Separation\_DH5\_2402



### Carrier Frequency Separation\_DH5\_2441



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## Carrier Frequency Separation\_DH5\_2480



### 4.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH5	2402	2.91	70	0.20	0.4	PASS
DH5	2441	2.91	70	0.20	0.4	PASS
DH5	2480	2.91	80	0.3	0.4	PASS
2DH5	2402	2.91	60	0.17	0.4	PASS
2DH5	2441	2.91	70	0.20	0.4	PASS
2DH5	2480	2.91	50	0.15	0.4	PASS
3DH5	2402	2.92	60	0.18	0.4	PASS
3DH5	2441	2.92	70	0.20	0.4	PASS
3DH5	2480	2.92	90	0.26	0.4	PASS



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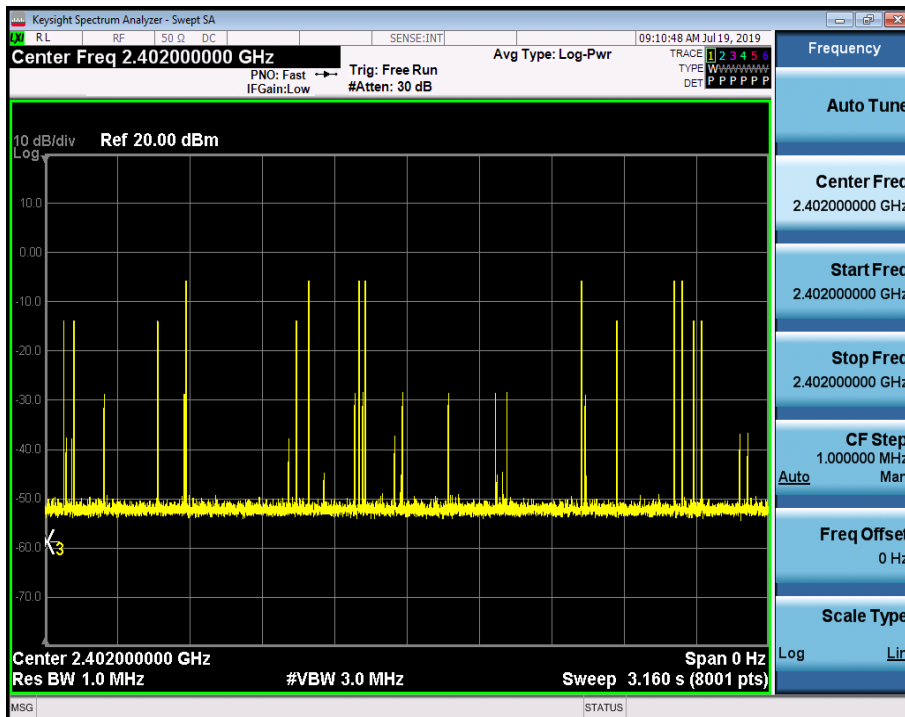
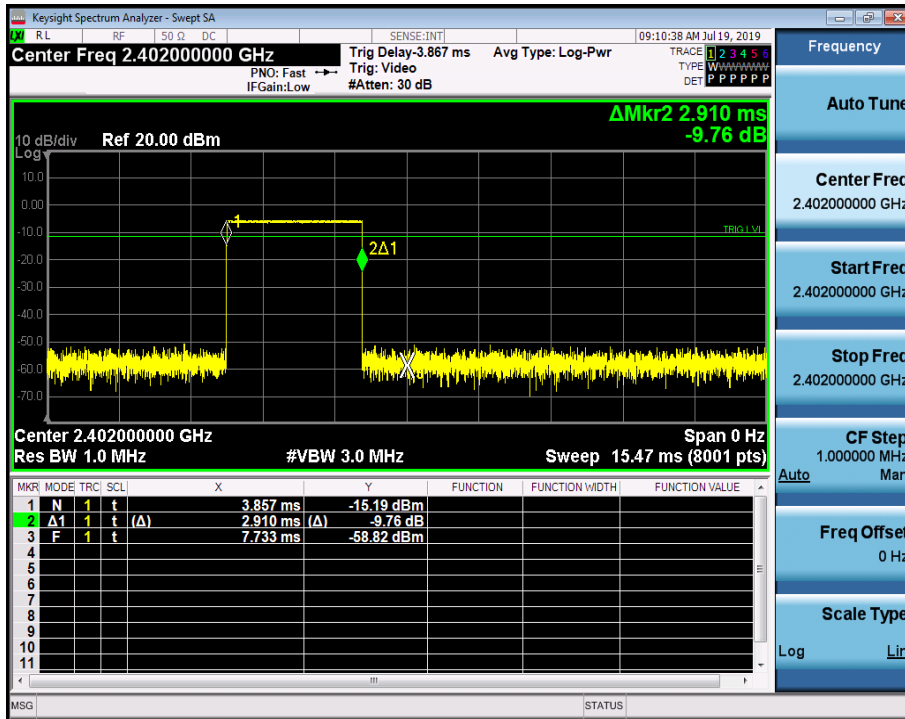
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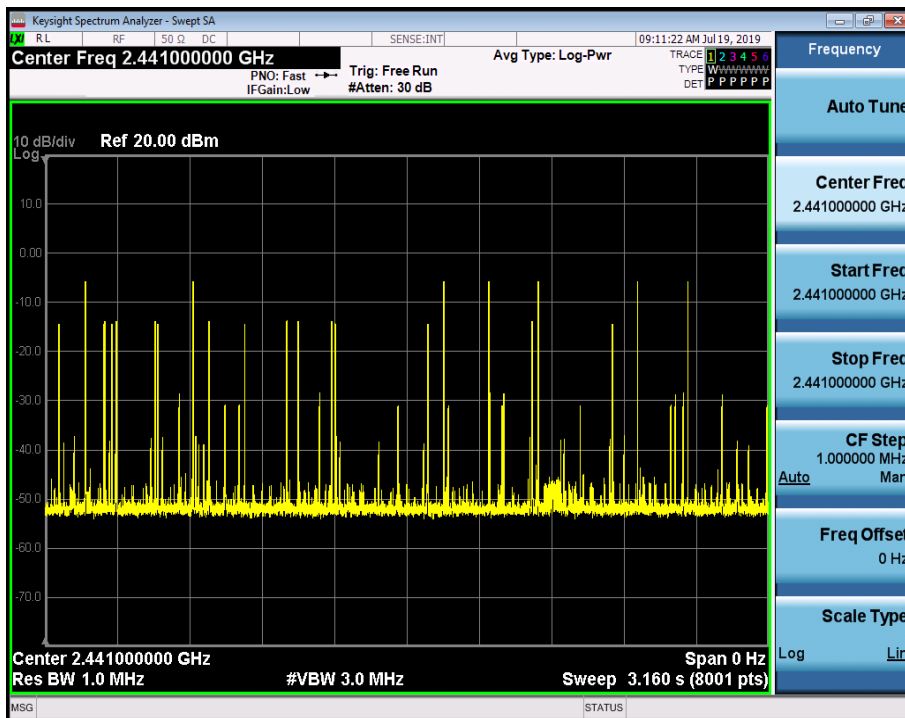
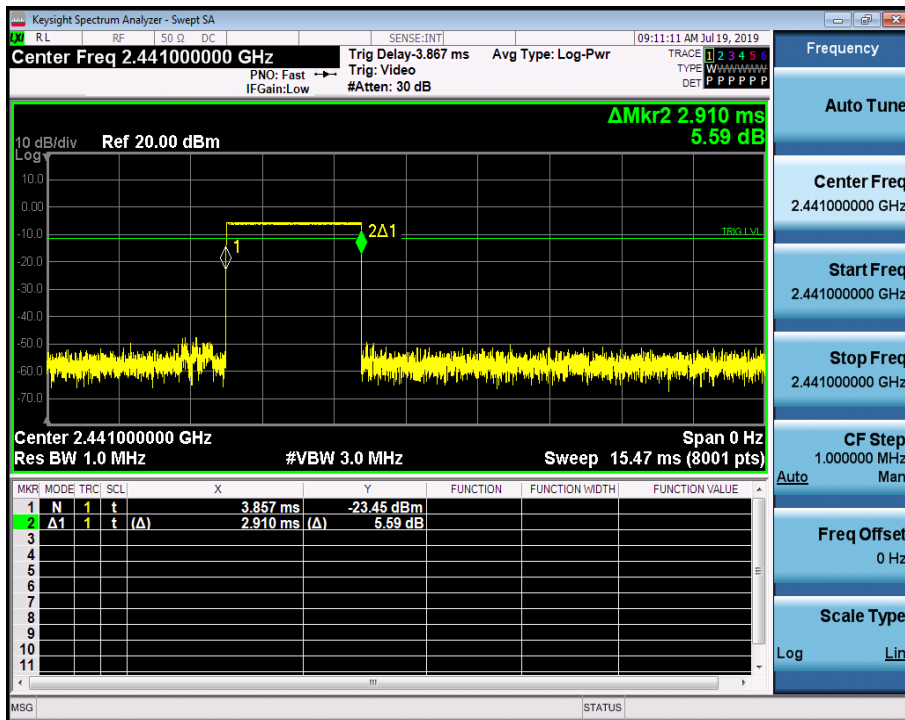
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## TEST PLOT

### Dwell Time\_DH5\_2402



## Dwell Time\_DH5\_2441



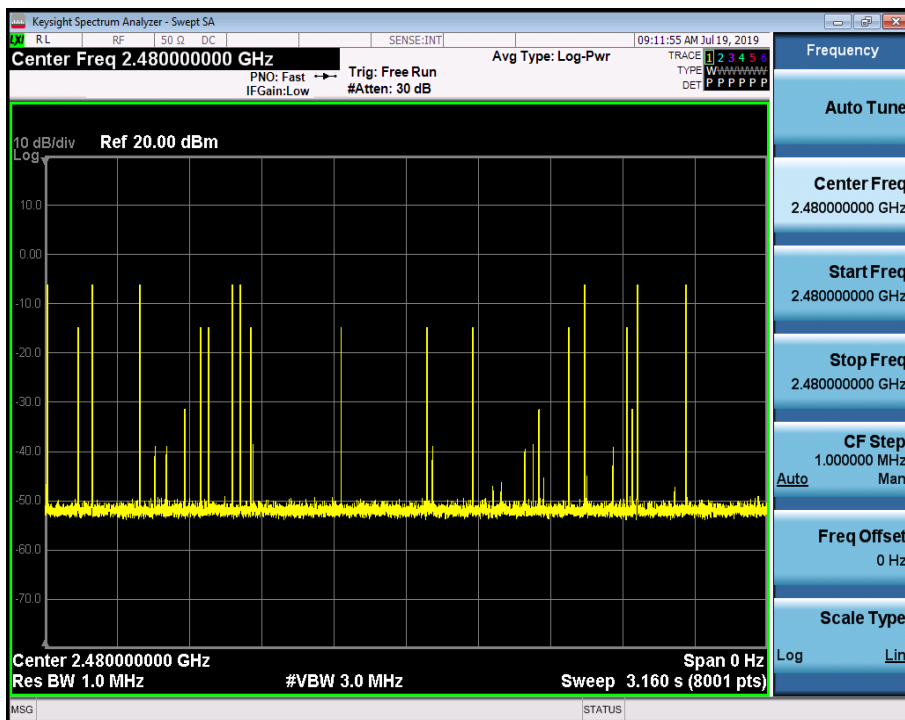
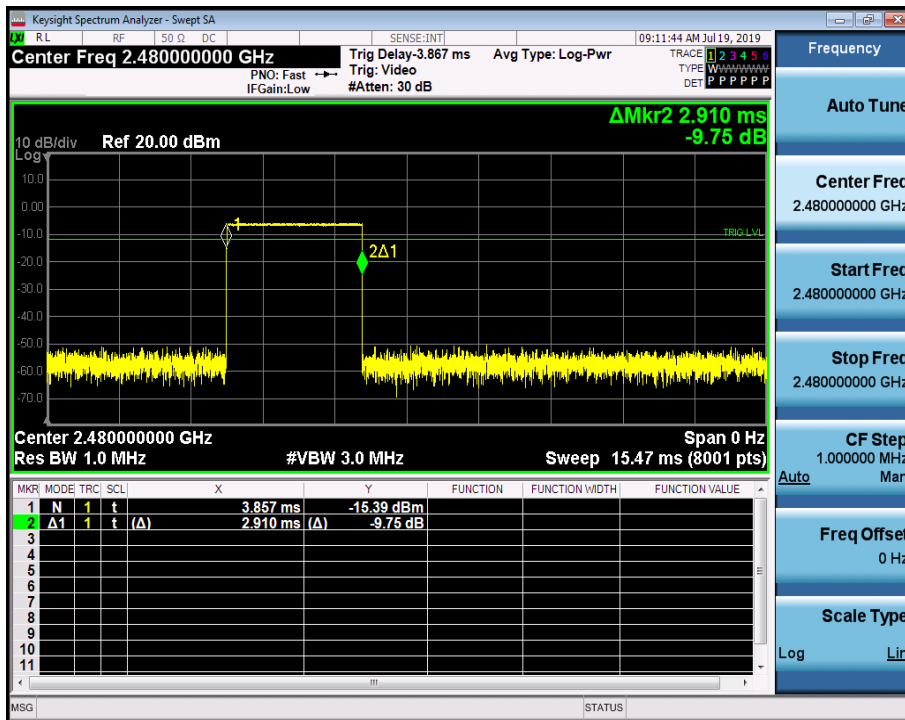
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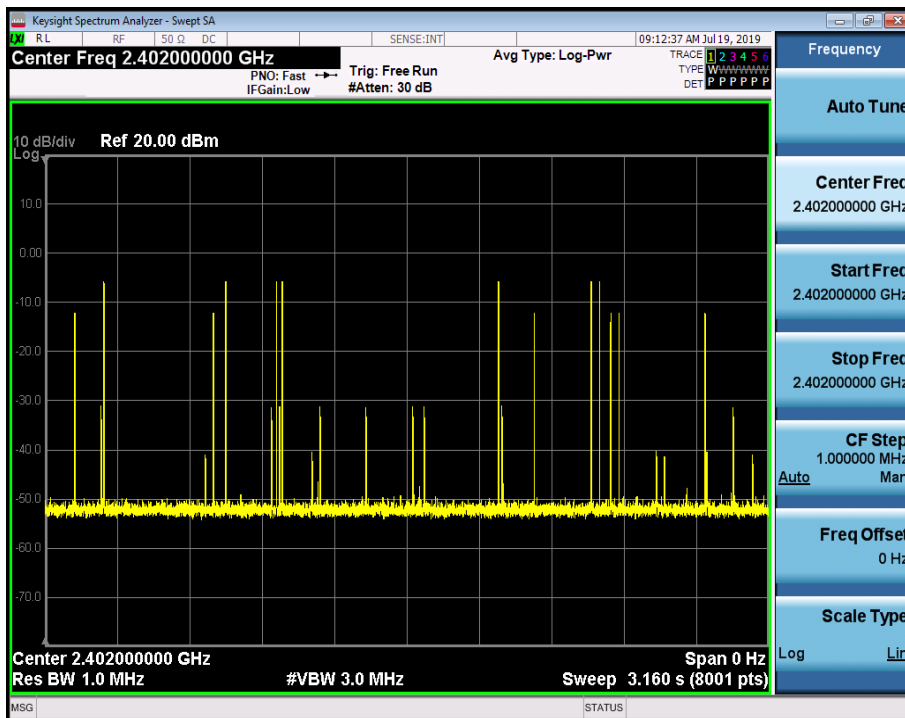
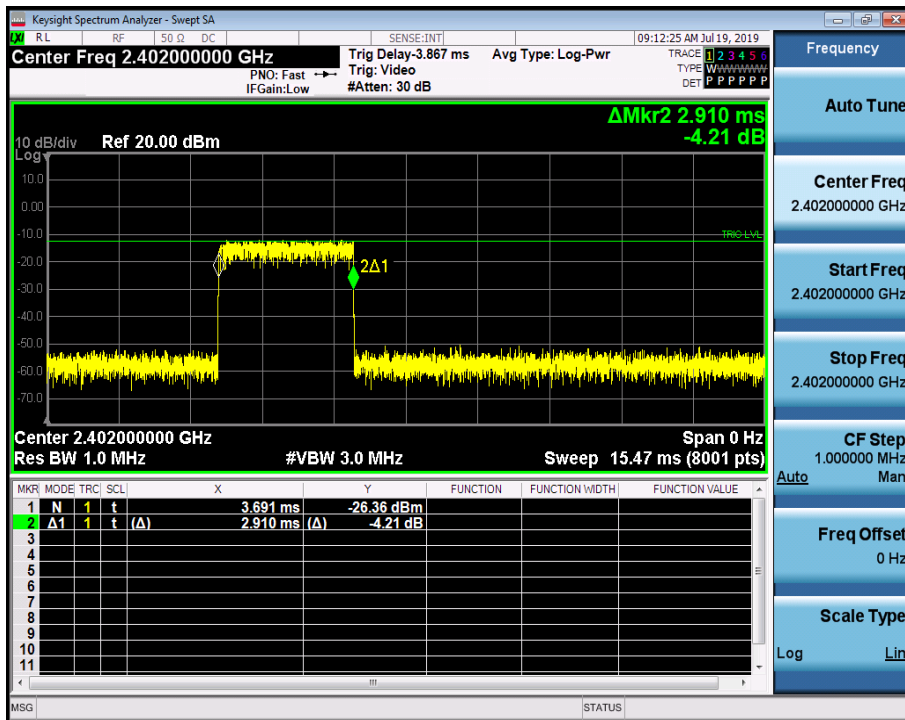
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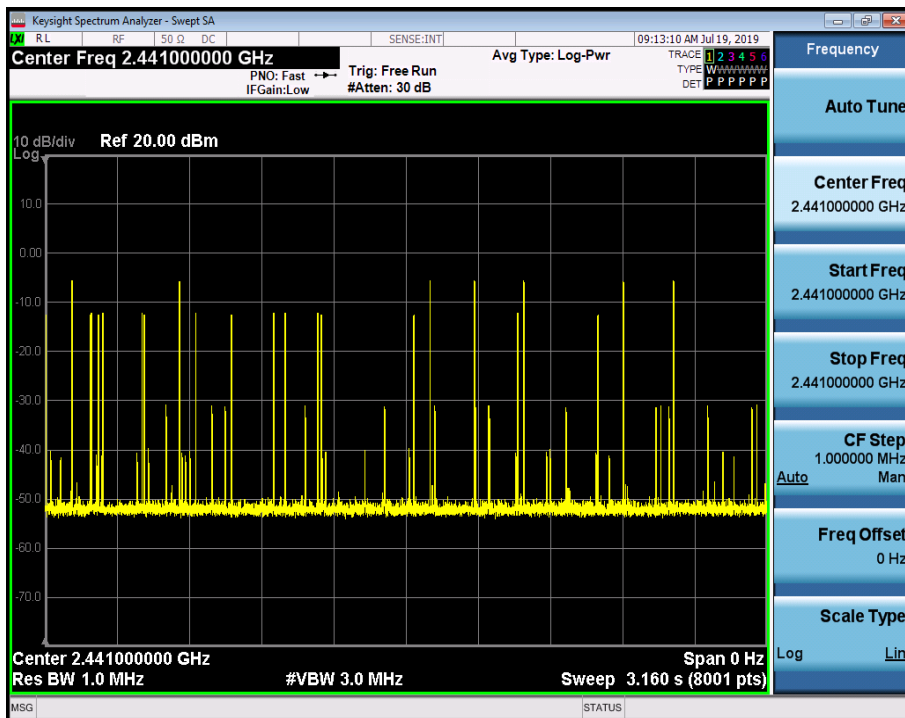
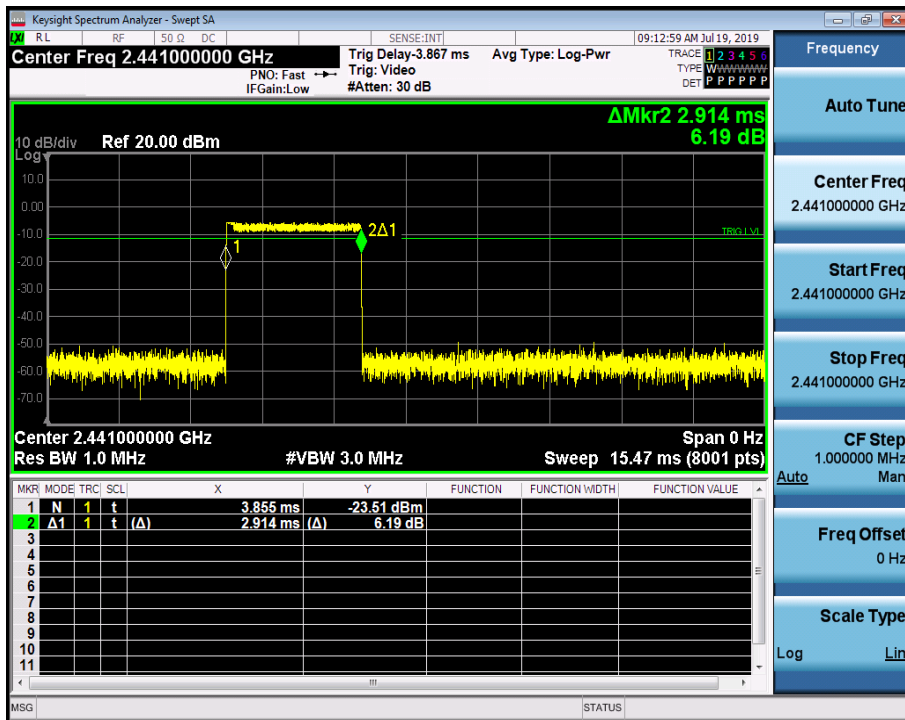
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## Dwell Time\_2DH5\_2441

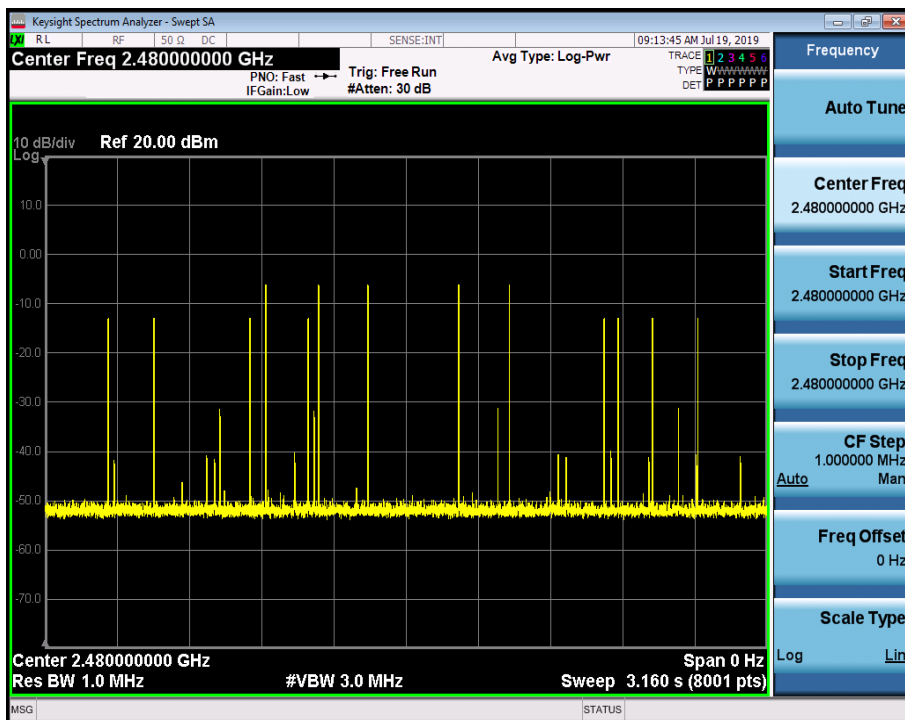
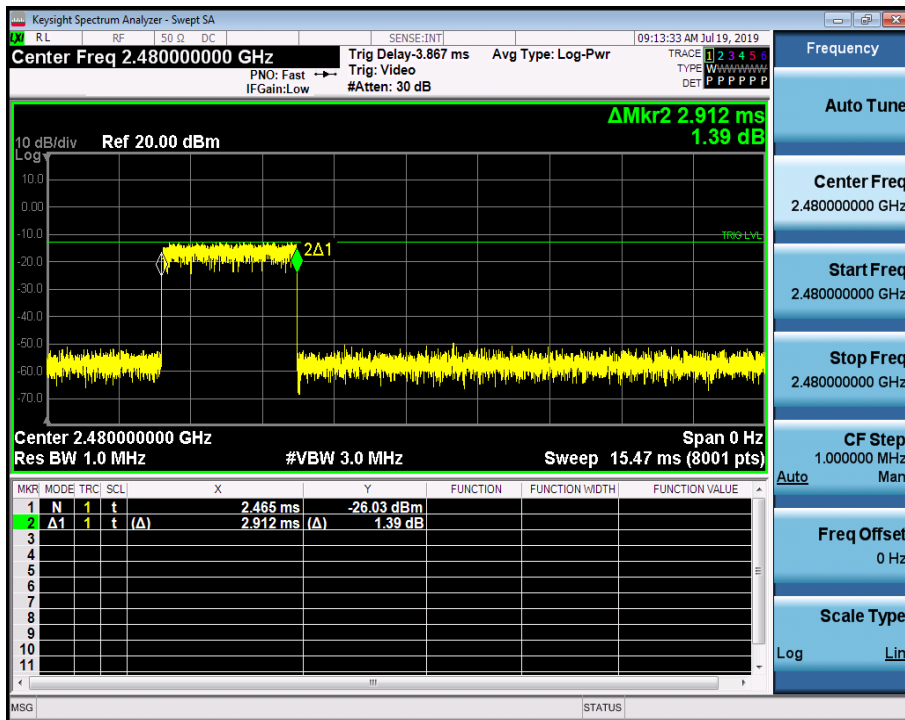


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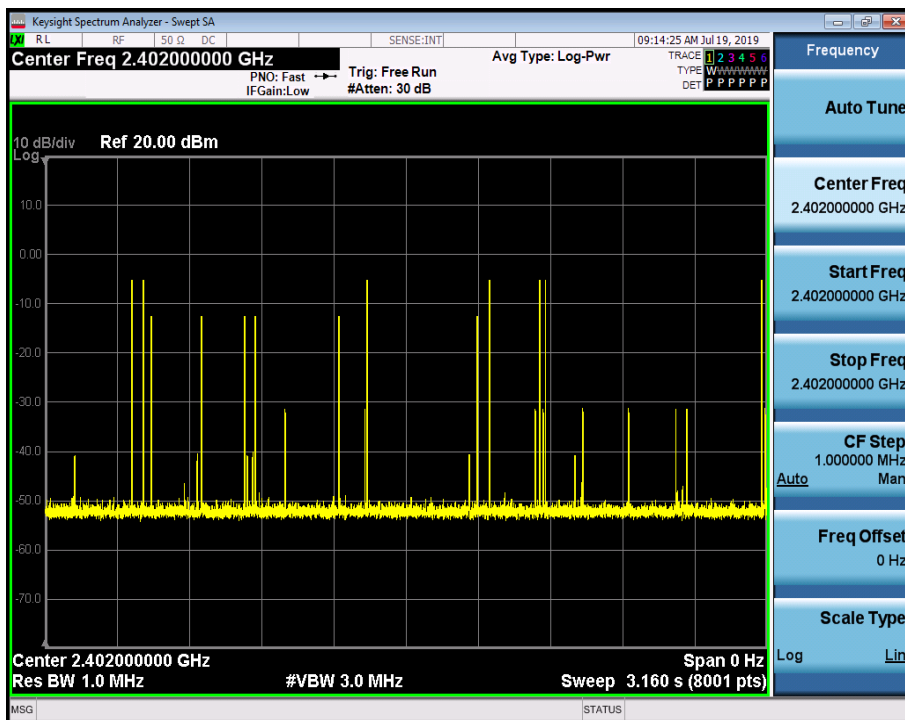
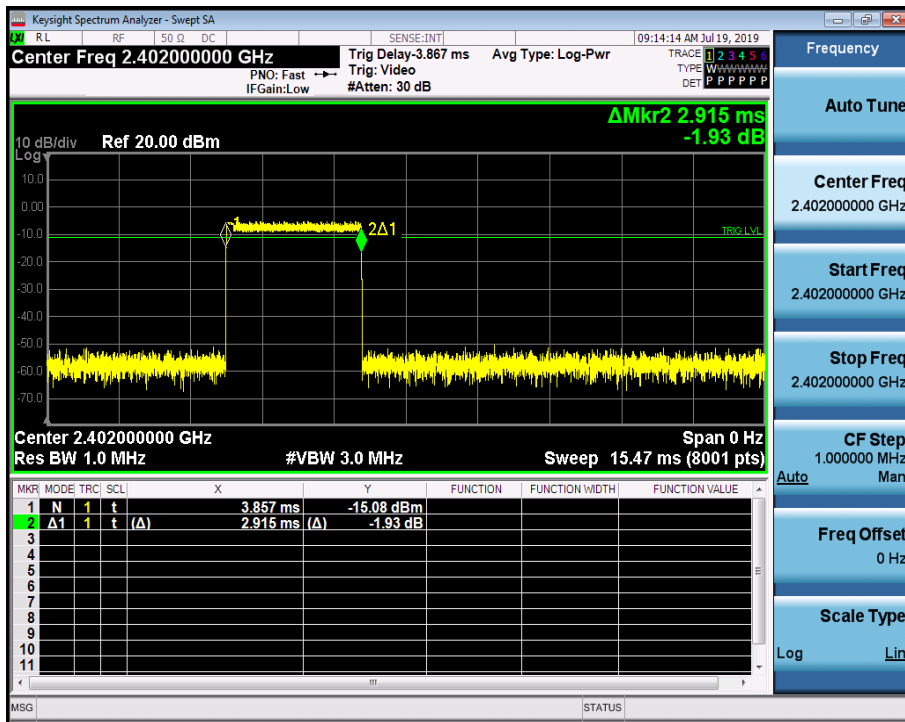
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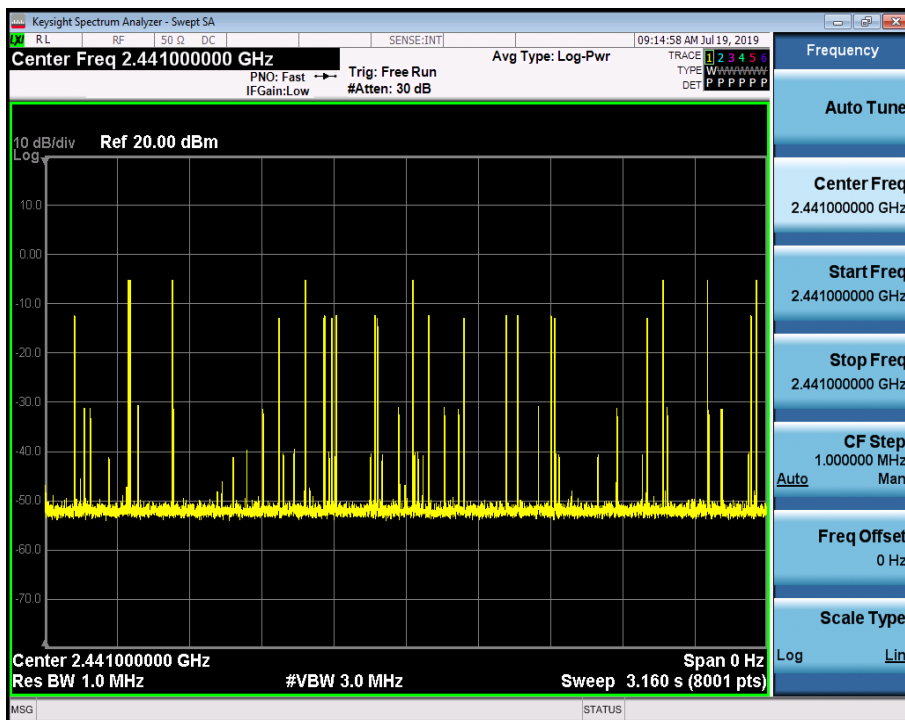
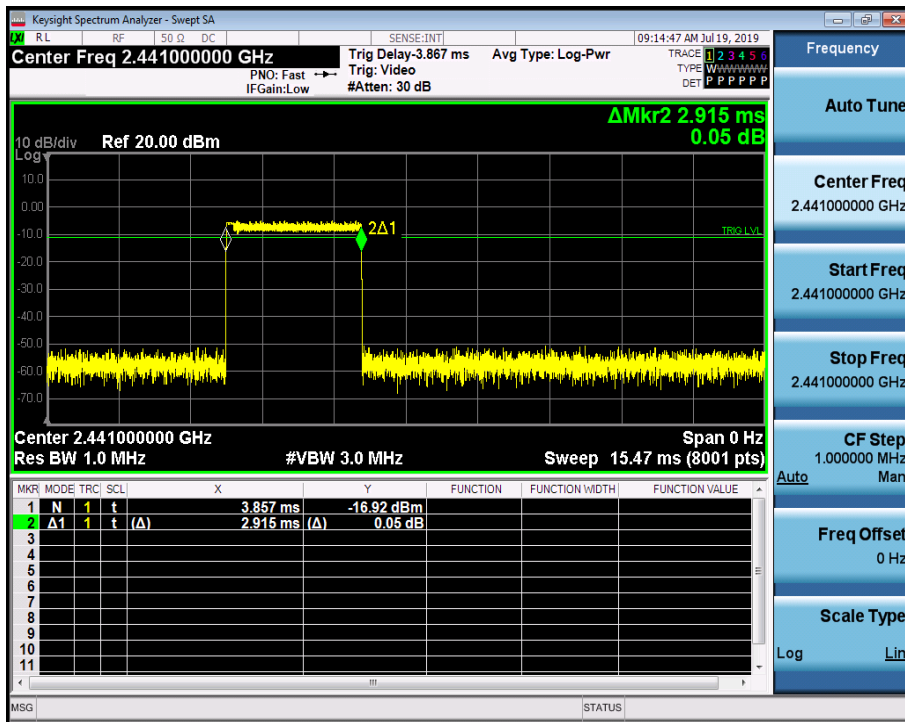
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## Dwell Time\_3DH5\_2402



## Dwell Time\_3DH5\_2441

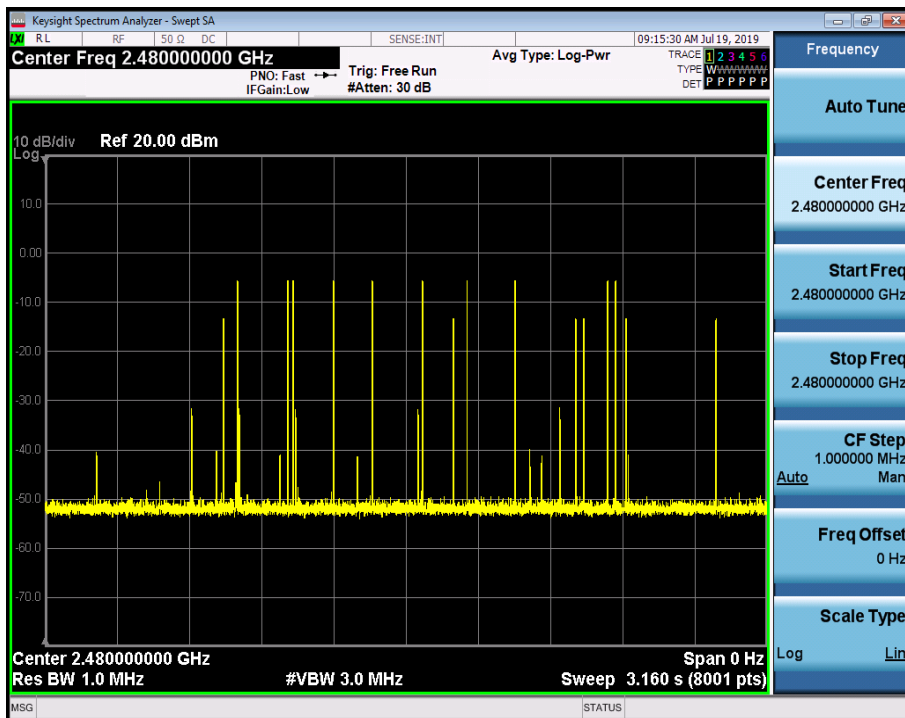
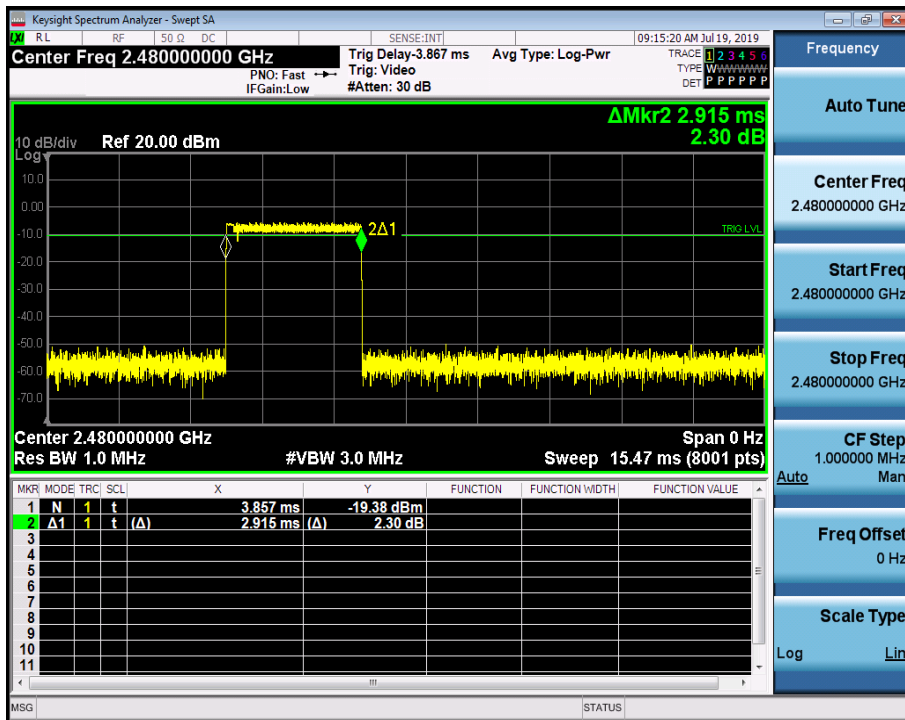


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## Dwell Time\_3DH5\_2480



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**5.Hopping Channel Number**

Test Mode	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	79	$\geq 15$	PASS
2DH5	79	$\geq 15$	PASS
3DH5	79	$\geq 15$	PASS



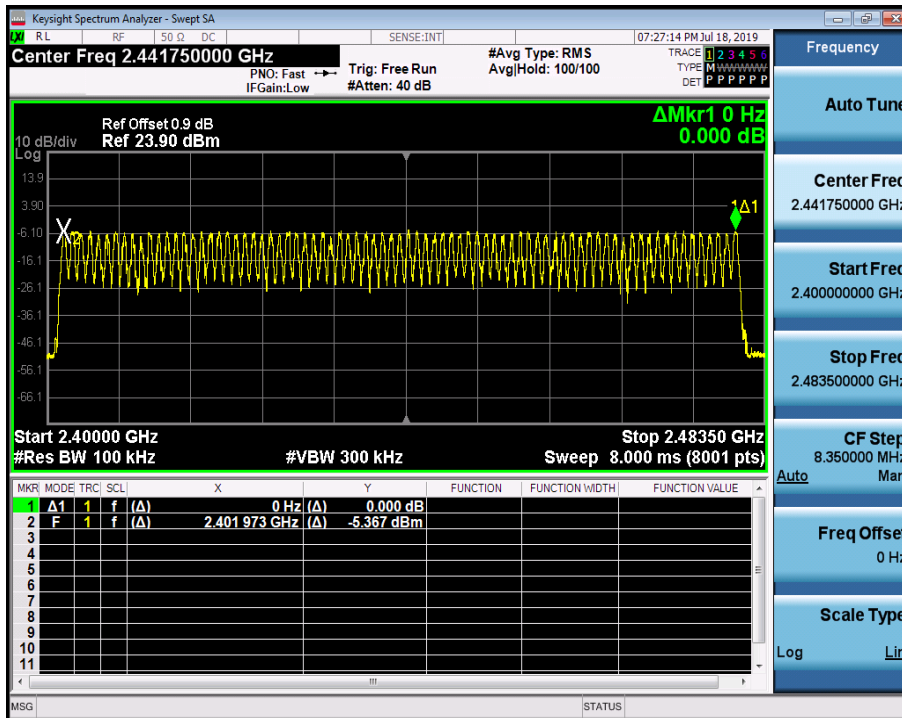
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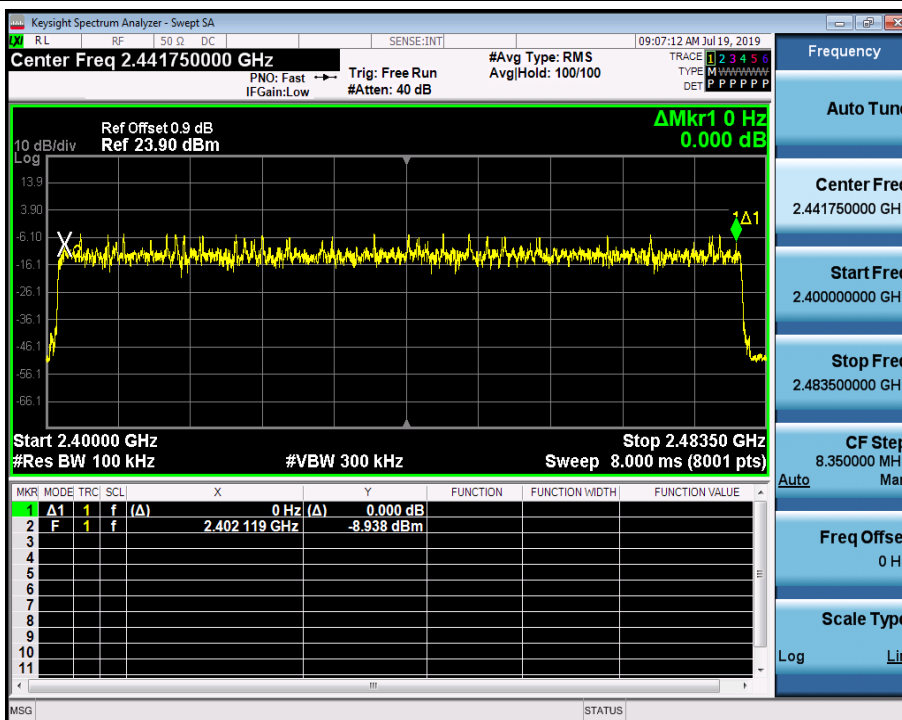


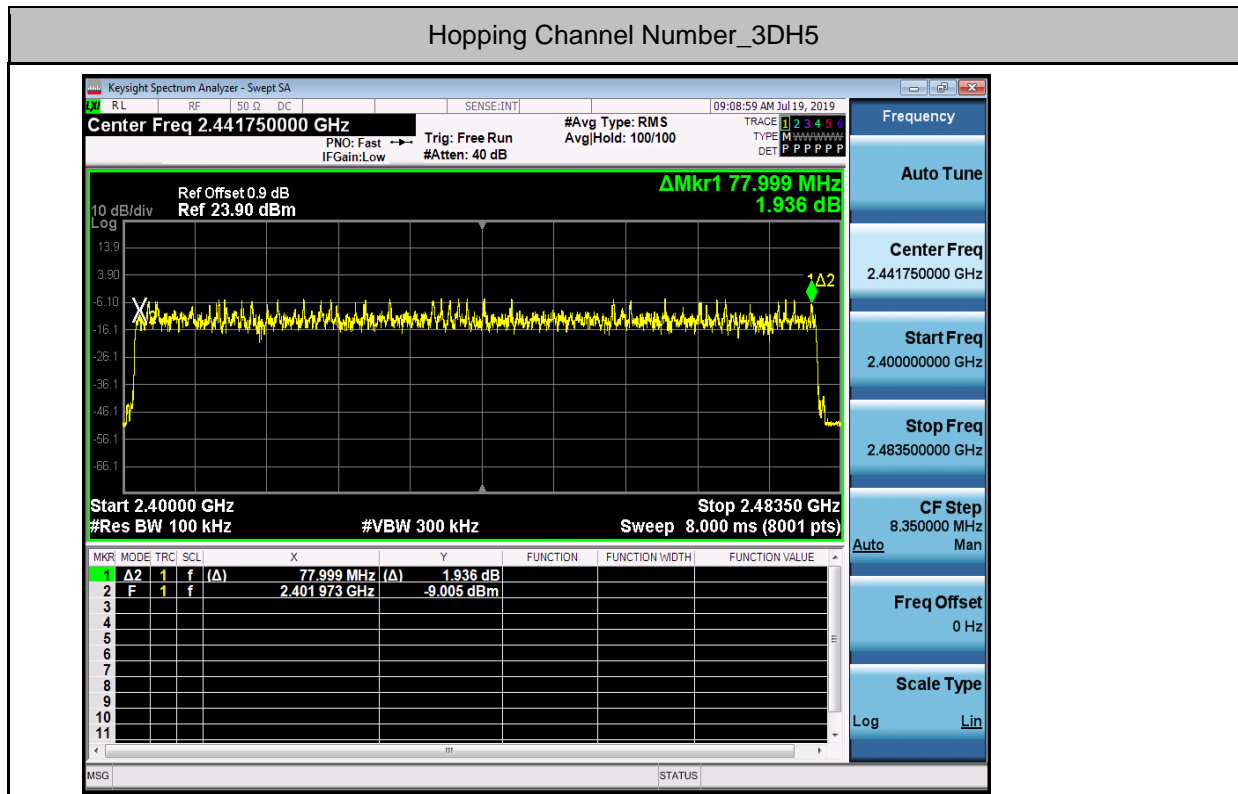
## TEST PLOT

### Hopping Channel Number\_DH5



### Hopping Channel Number\_2DH5





## 6. Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	-5.100	-48.690	-25.1	PASS
DH5	2402	Off	-5.135	-48.792	-25.14	PASS
DH5	2480	On	-4.993	-47.856	-24.99	PASS
DH5	2480	Off	-5.466	-48.116	-25.47	PASS
2DH5	2402	On	-4.887	-48.155	-24.89	PASS
2DH5	2402	Off	-4.999	-49.025	-25	PASS
2DH5	2480	On	-5.029	-47.278	-25.03	PASS
2DH5	2480	Off	-5.642	-48.014	-25.64	PASS
3DH5	2402	On	-5.058	-48.572	-25.06	PASS
3DH5	2402	Off	-5.098	-48.709	-25.1	PASS
3DH5	2480	On	-5.058	-48.132	-25.06	PASS
3DH5	2480	Off	-5.303	-48.122	-25.3	PASS



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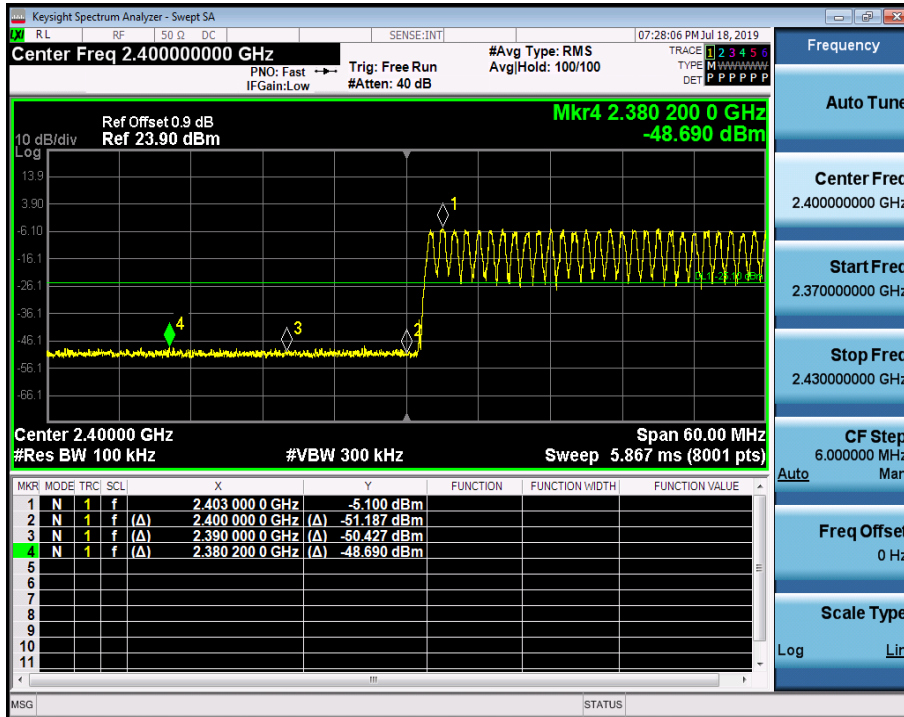
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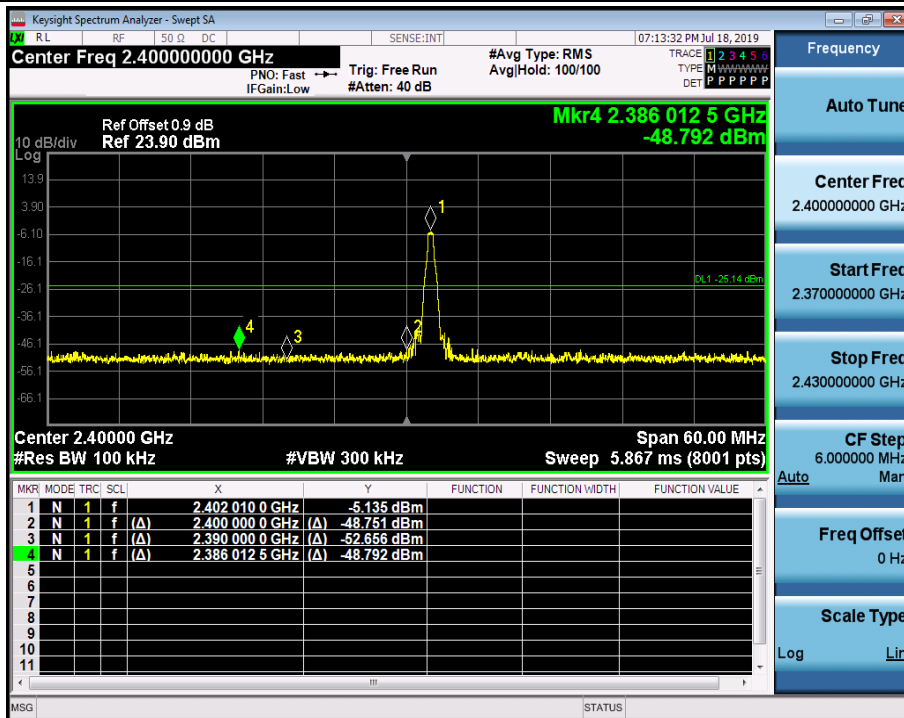
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## TEST PLOT

### Band-edge for RF Conducted Emissions\_DH5\_2402\_Hopping On

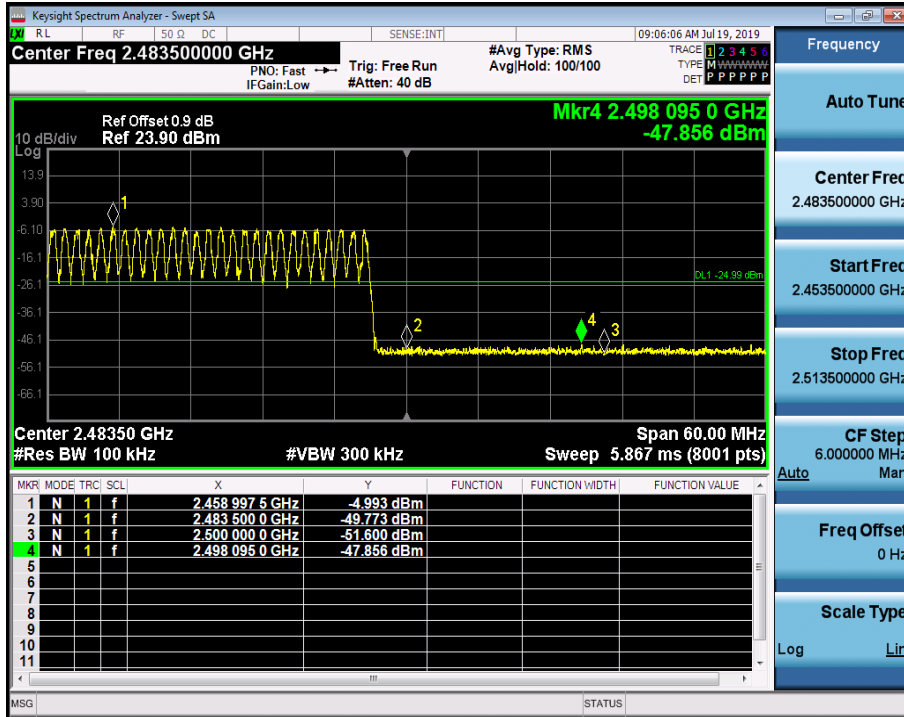


### Band-edge for RF Conducted Emissions\_DH5\_2402\_Hopping Off

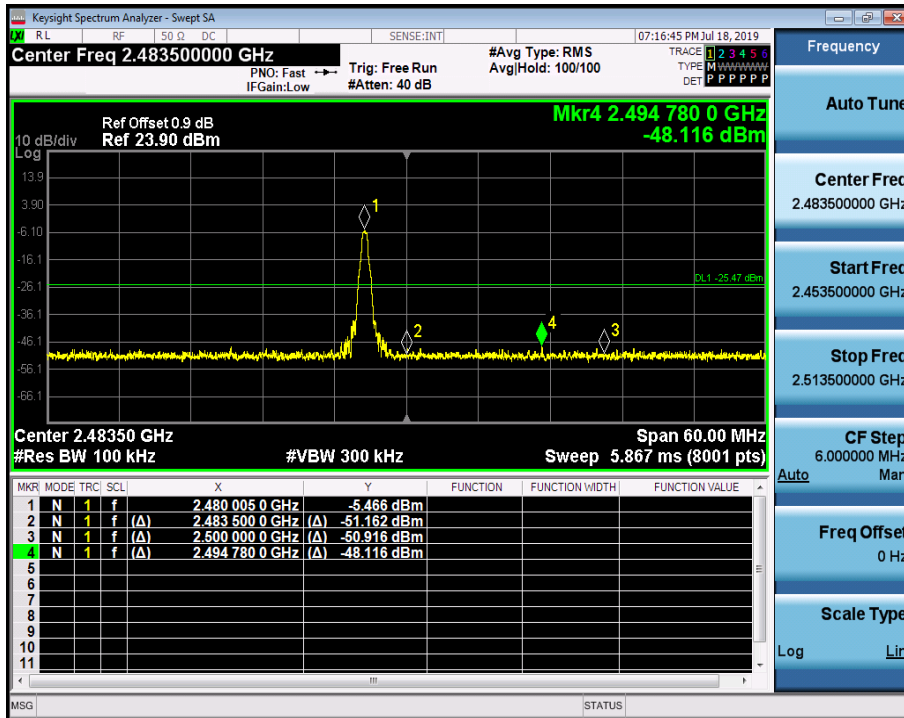




## Band-edge for RF Conducted Emissions\_DH5\_2480\_Hopping On



## Band-edge for RF Conducted Emissions\_DH5\_2480\_Hopping Off



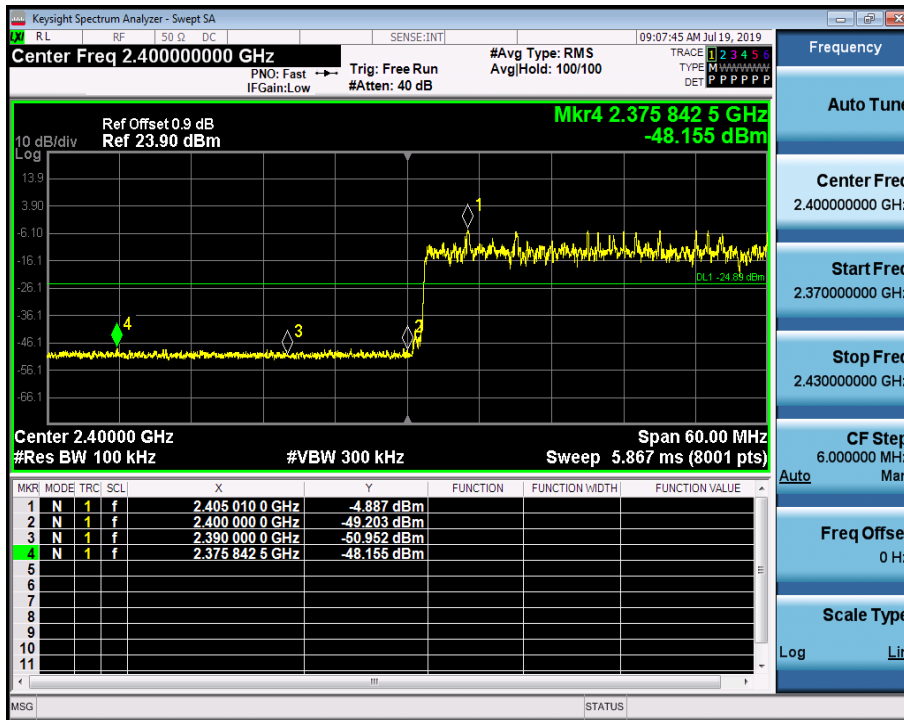
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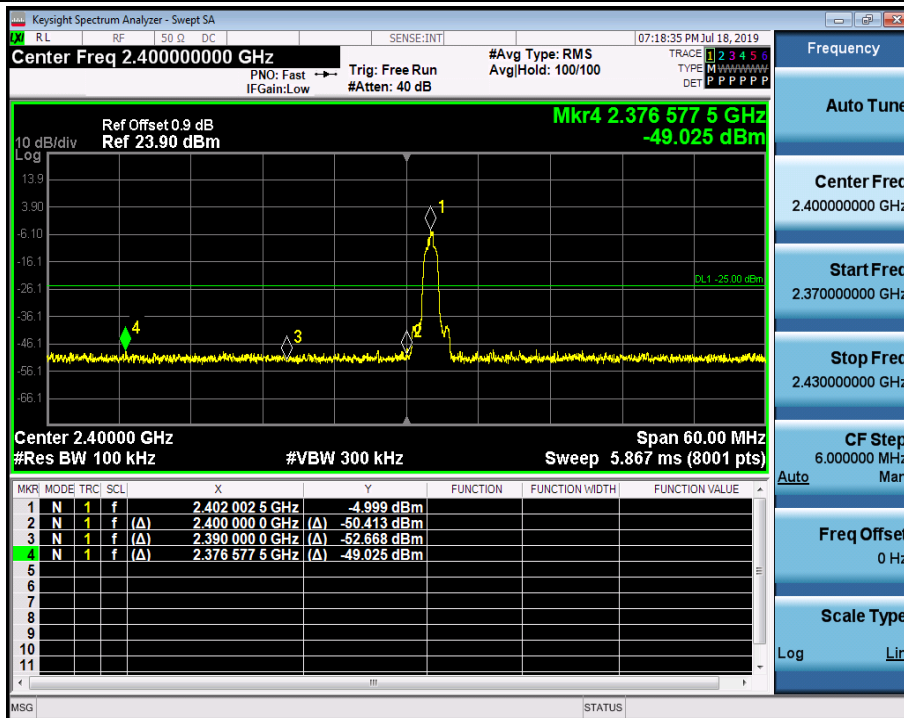
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## Band-edge for RF Conducted Emissions\_2DH5\_2402\_Hopping On



## Band-edge for RF Conducted Emissions\_2DH5\_2402\_Hopping Off



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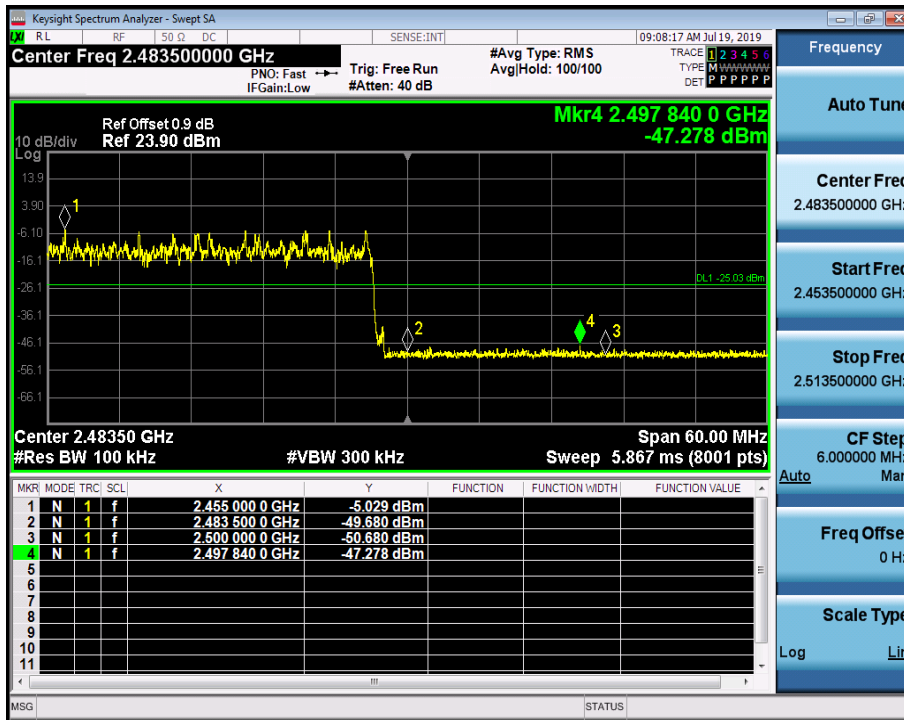
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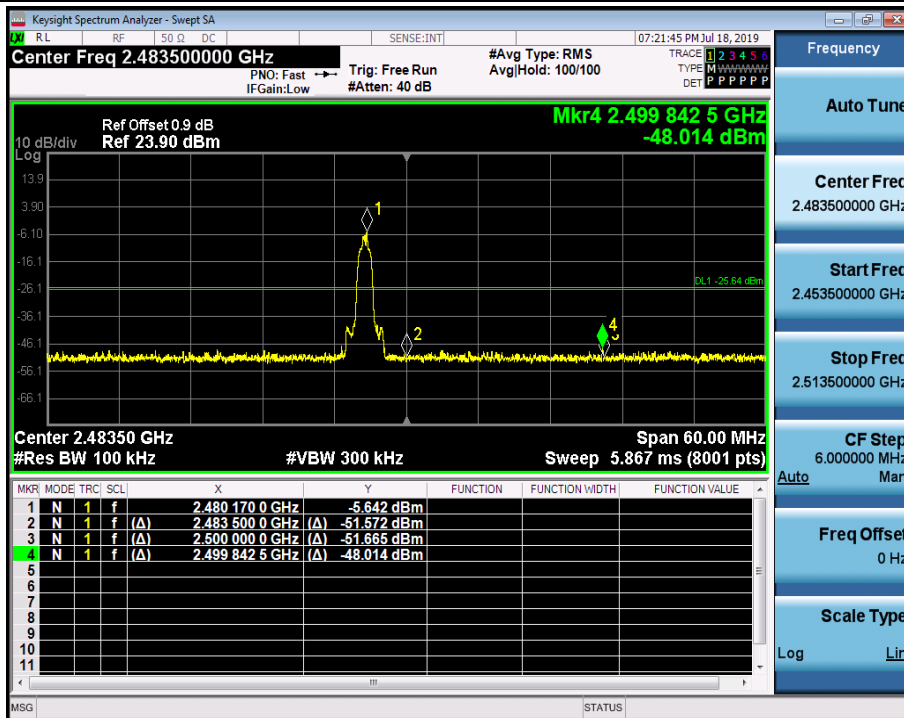
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## Band-edge for RF Conducted Emissions\_2DH5\_2480\_Hopping On



## Band-edge for RF Conducted Emissions\_2DH5\_2480\_Hopping Off



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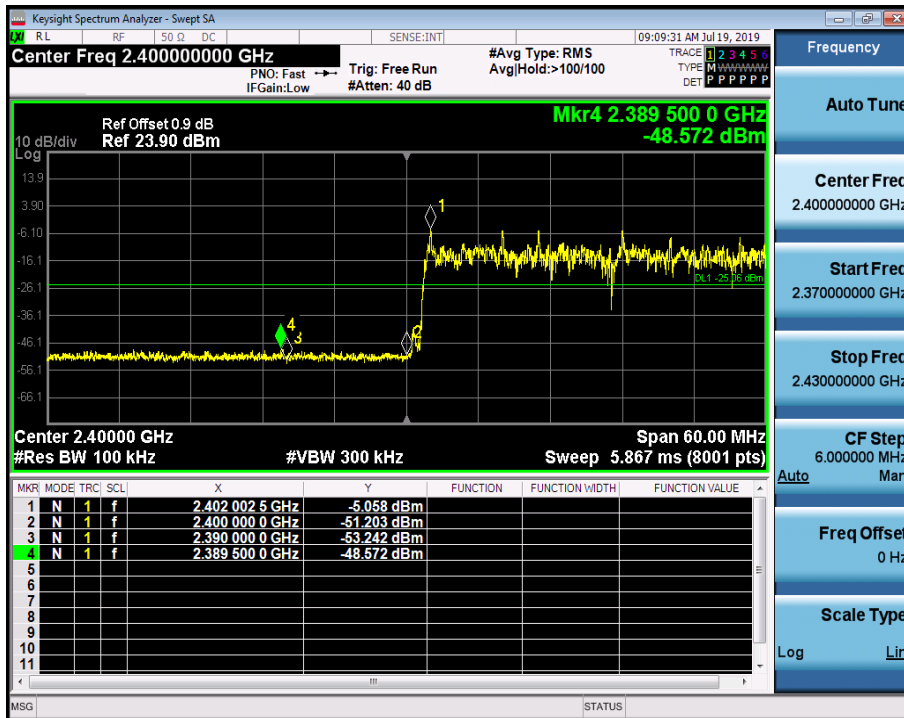
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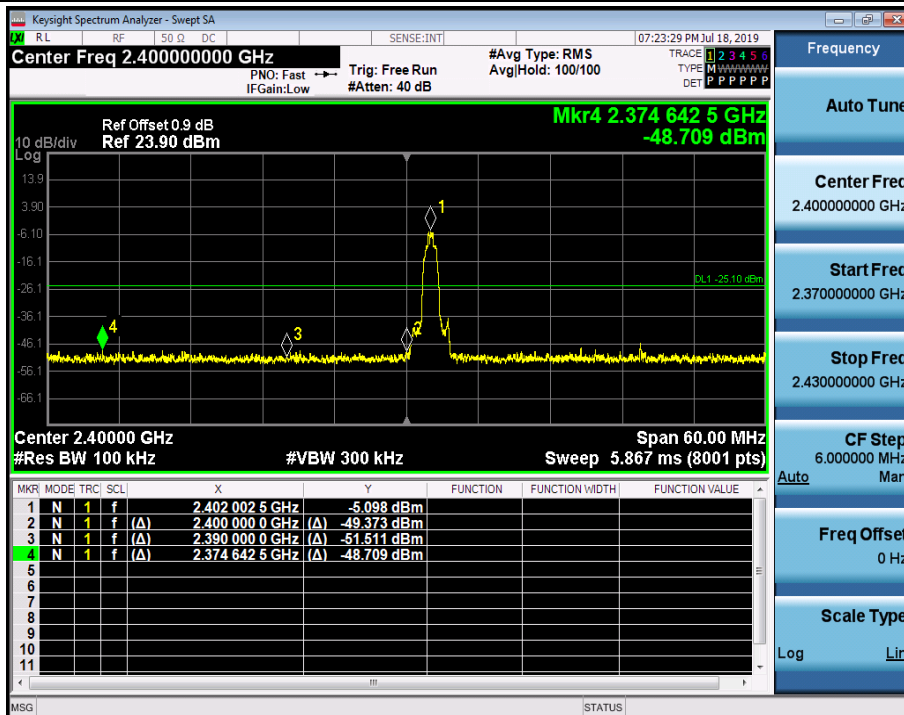
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## Band-edge for RF Conducted Emissions\_3DH5\_2402\_Hopping On



## Band-edge for RF Conducted Emissions\_3DH5\_2402\_Hopping Off



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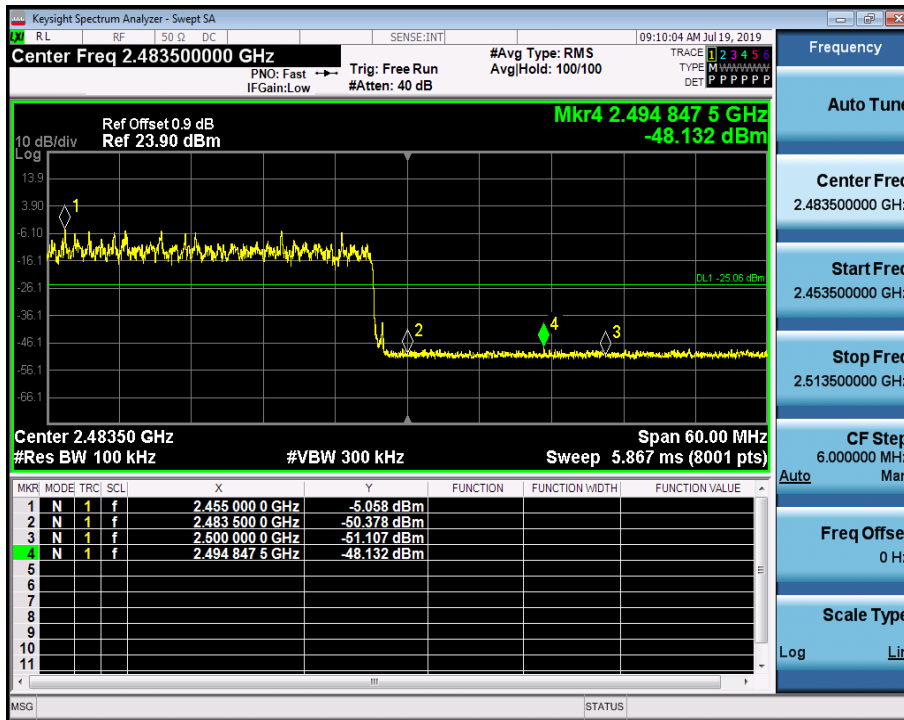
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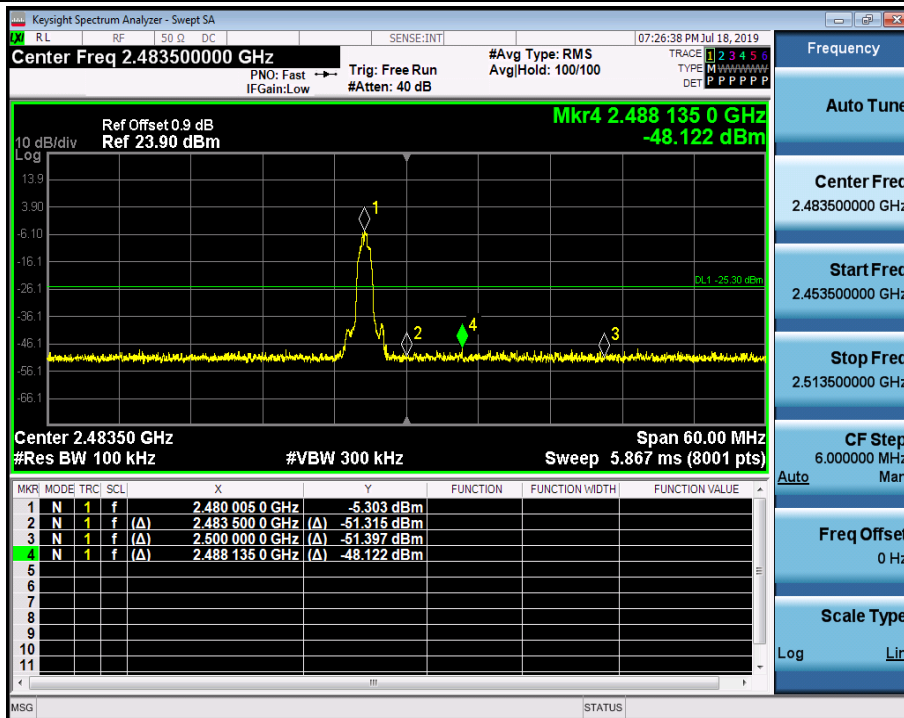
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## Band-edge for RF Conducted Emissions\_3DH5\_2480\_Hopping On



## Band-edge for RF Conducted Emissions\_3DH5\_2480\_Hopping Off



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**7.RF Conducted Spurious Emissions**

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	10000	100	300	-5.268	-53.651	<-25.268	PASS
DH5	2402	10000	26000	100	300	-5.268	-52.111	<-25.268	PASS
DH5	2441	30	10000	100	300	-5.17	-53.741	<-25.17	PASS
DH5	2441	10000	26000	100	300	-5.17	-51.846	<-25.17	PASS
DH5	2480	30	10000	100	300	-5.497	-53.916	<-25.497	PASS
DH5	2480	10000	26000	100	300	-5.497	-52.232	<-25.497	PASS
2DH5	2402	30	10000	100	300	-5.138	-52.562	<-25.138	PASS
2DH5	2402	10000	26000	100	300	-5.138	-51.549	<-25.138	PASS
2DH5	2441	30	10000	100	300	-5.055	-54.200	<-25.055	PASS
2DH5	2441	10000	26000	100	300	-5.055	-51.086	<-25.055	PASS
2DH5	2480	30	10000	100	300	-5.402	-54.063	<-25.402	PASS
2DH5	2480	10000	26000	100	300	-5.402	-51.409	<-25.402	PASS
3DH5	2402	30	10000	100	300	-5.083	-53.818	<-25.083	PASS
3DH5	2402	10000	26000	100	300	-5.083	-51.801	<-25.083	PASS
3DH5	2441	30	10000	100	300	-5.02	-53.170	<-25.02	PASS
3DH5	2441	10000	26000	100	300	-5.02	-51.679	<-25.02	PASS
3DH5	2480	30	10000	100	300	-5.372	-53.938	<-25.372	PASS
3DH5	2480	10000	26000	100	300	-5.372	-51.719	<-25.372	PASS

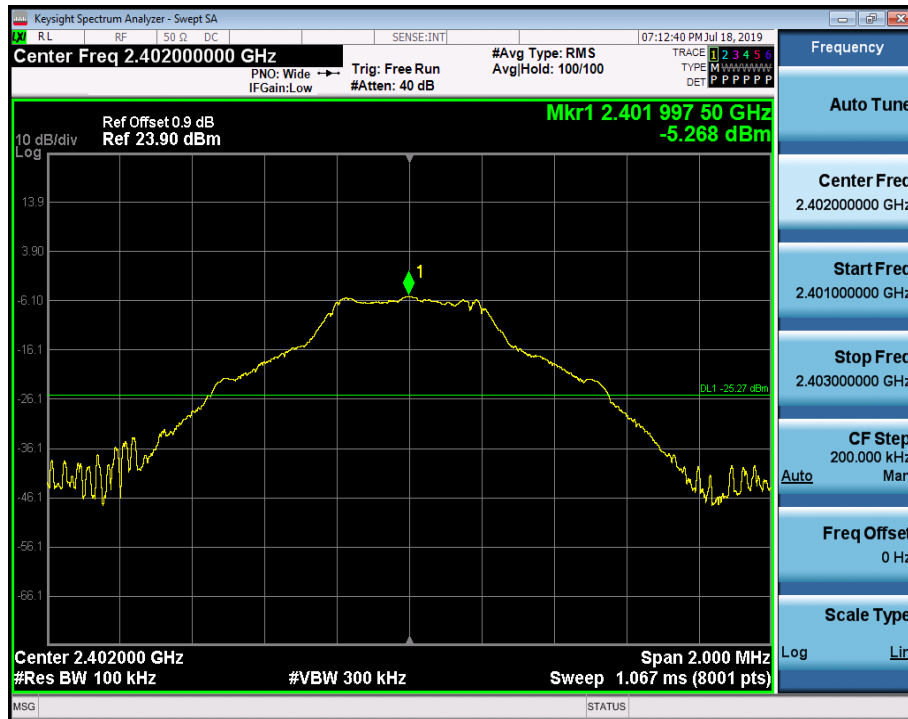


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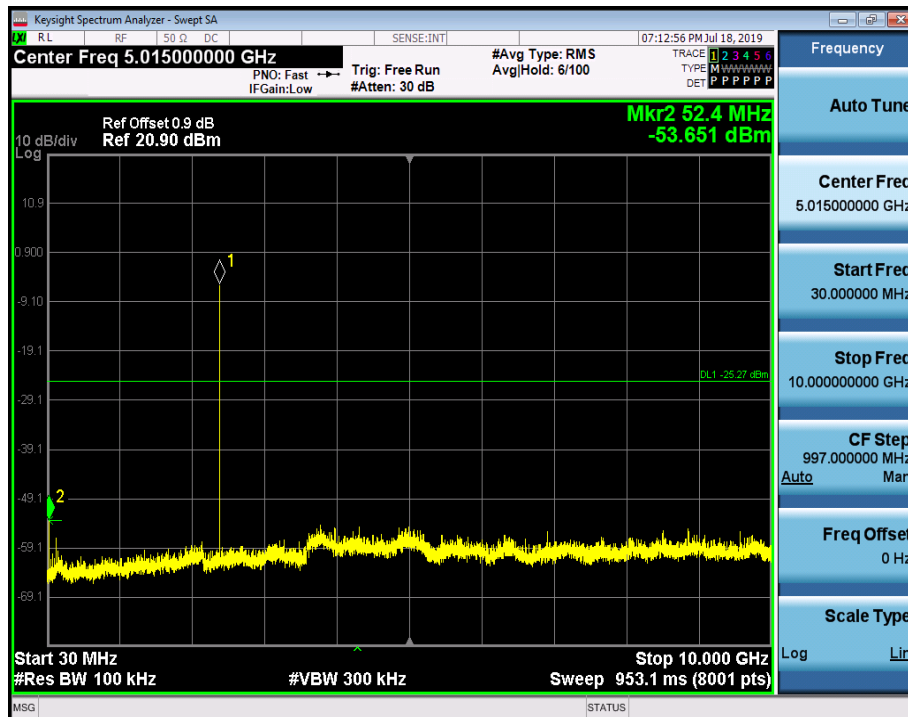
## TEST PLOT

### RF Conducted Spurious Emissions\_DH5\_2402

Pref



CSE\_1

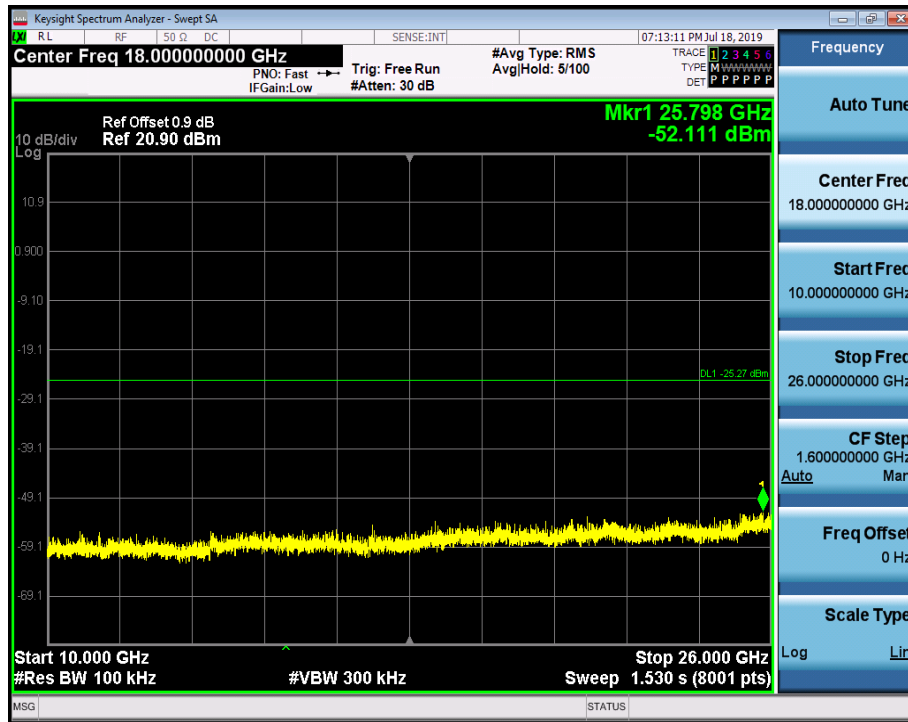


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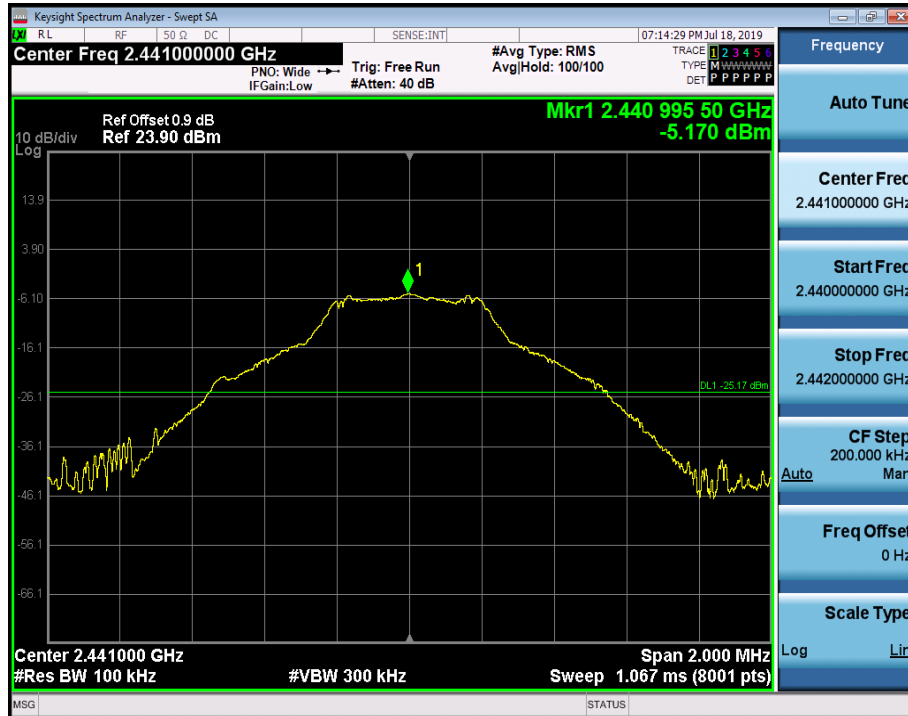
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CSE\_2



## RF Conducted Spurious Emissions\_DH5\_2441

Pref



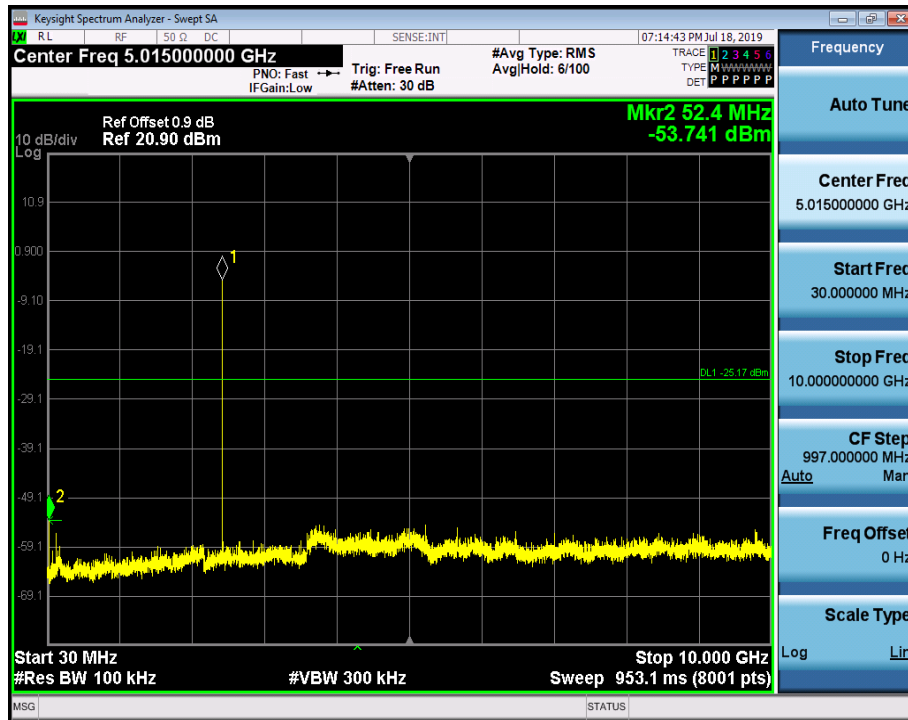
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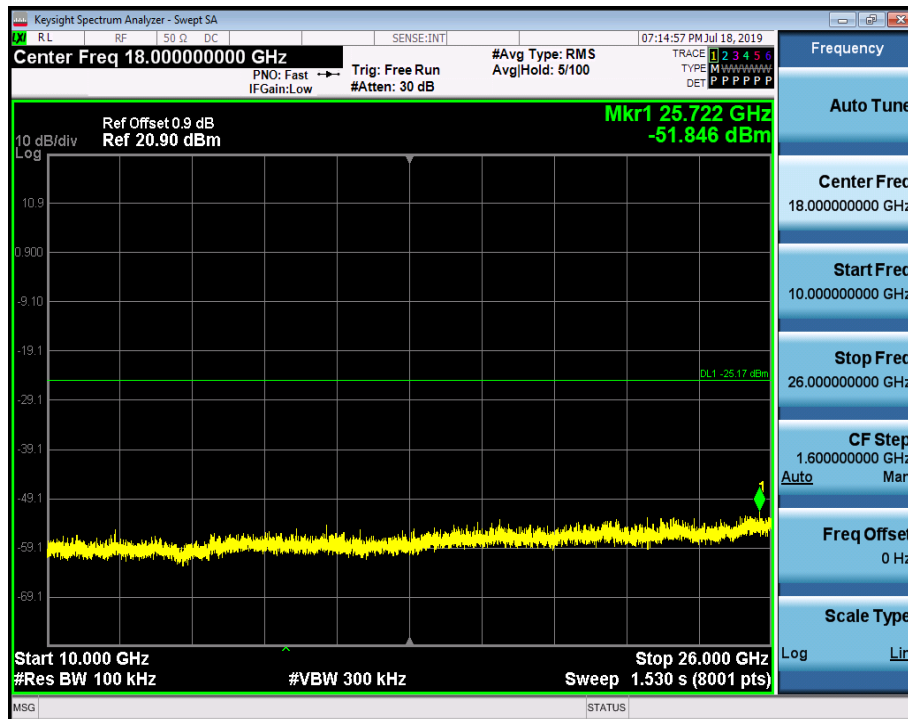
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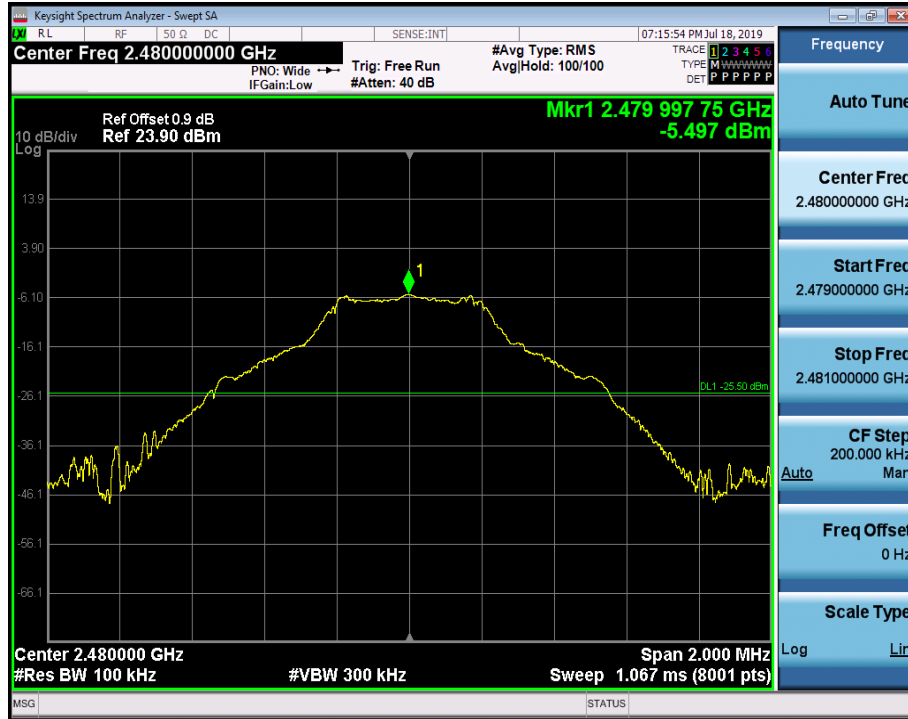
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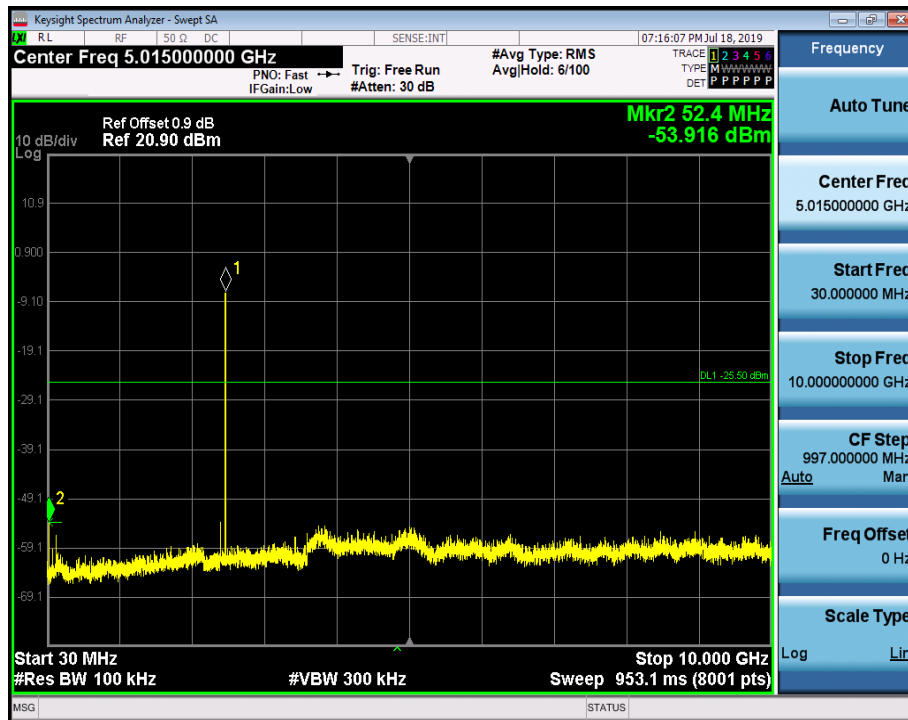


## RF Conducted Spurious Emissions\_DH5\_2480

Pref



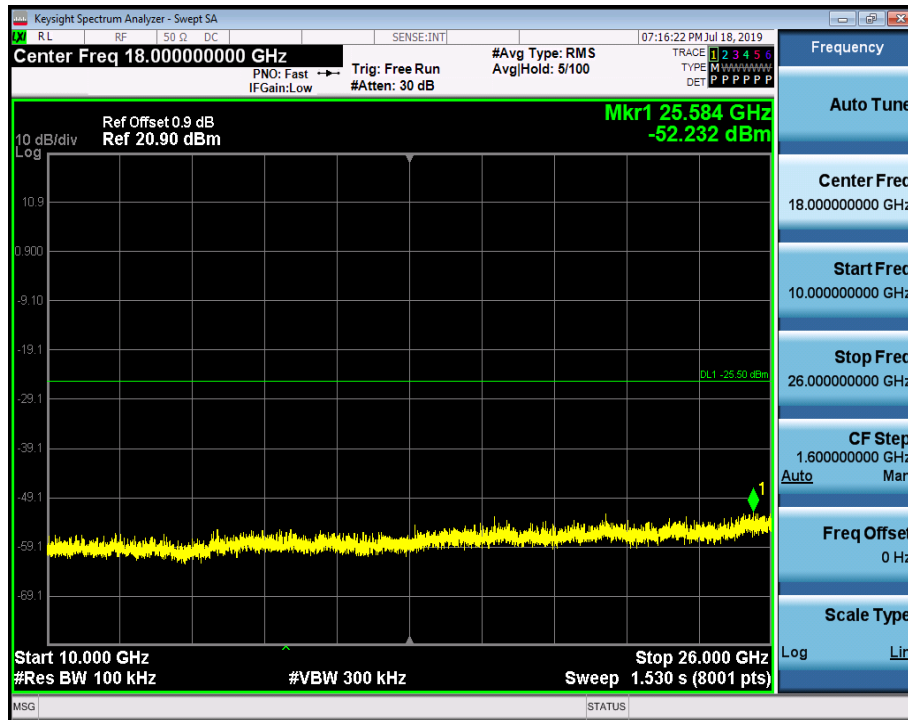
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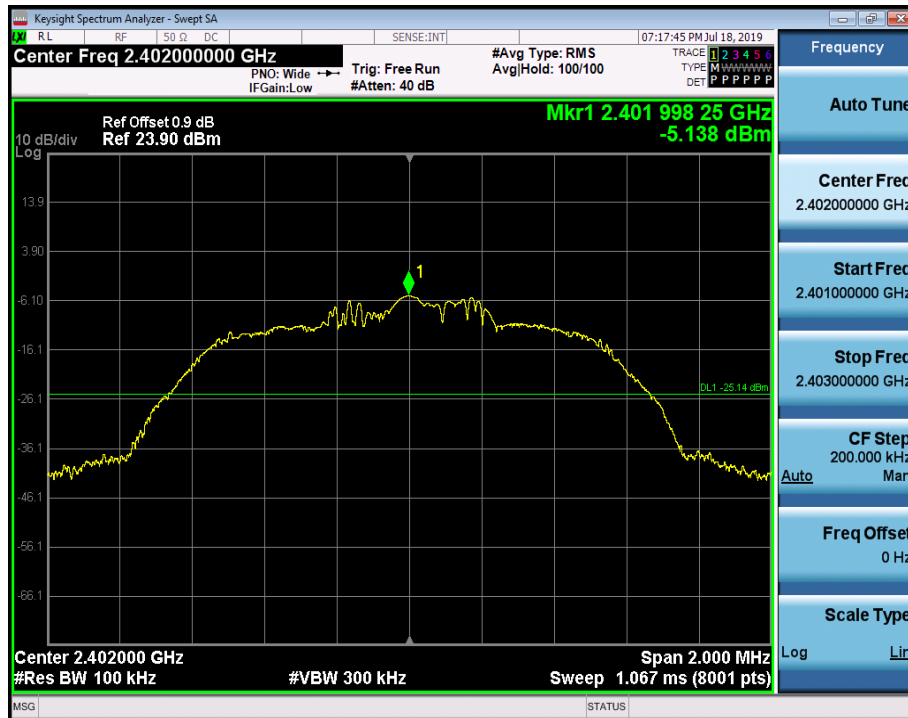
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## RF Conducted Spurious Emissions\_2DH5\_2402

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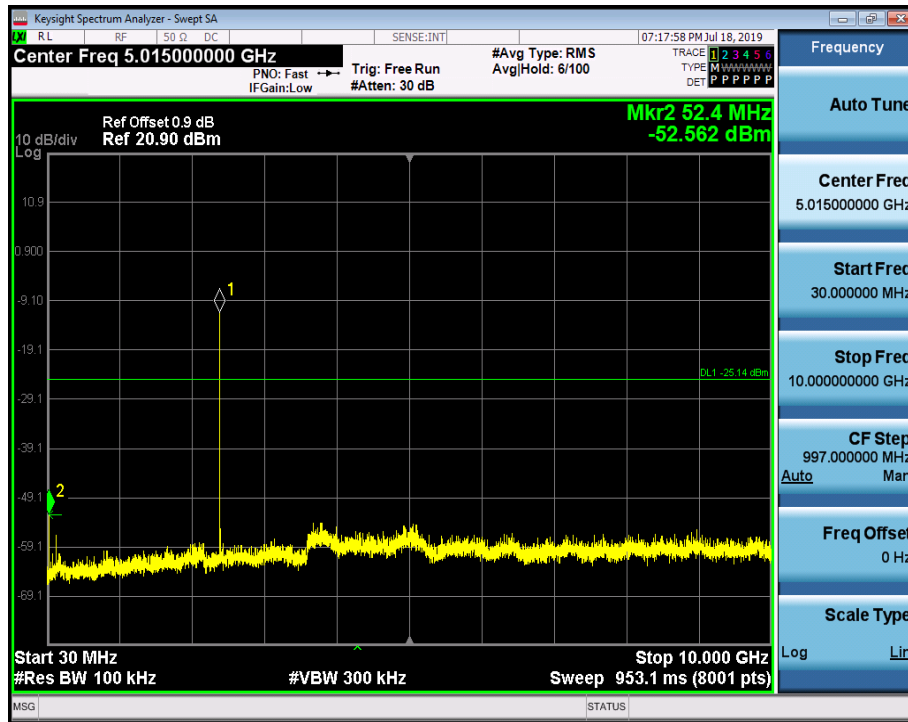
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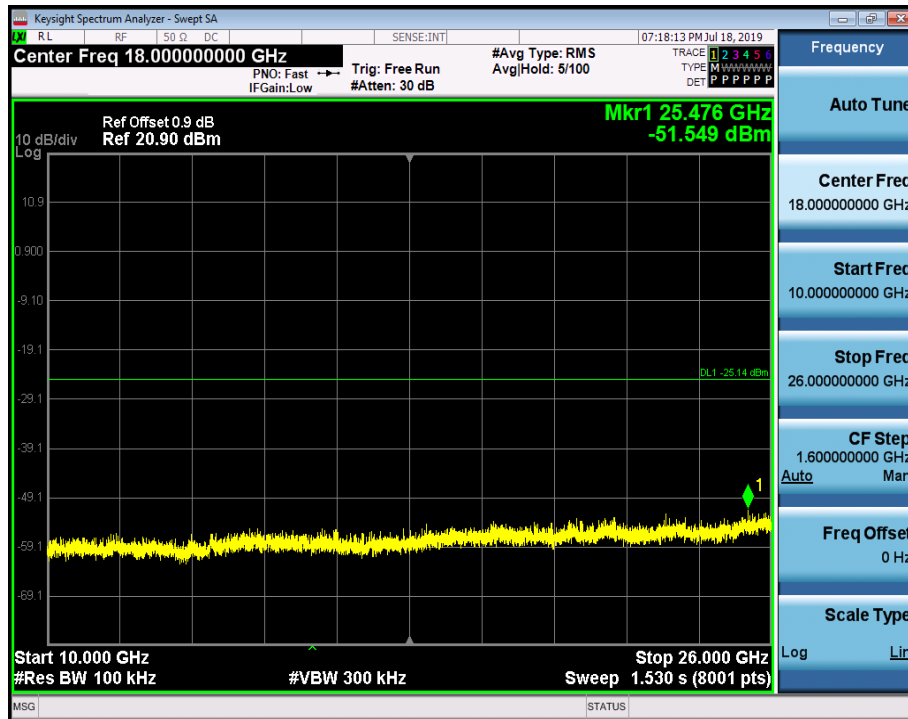
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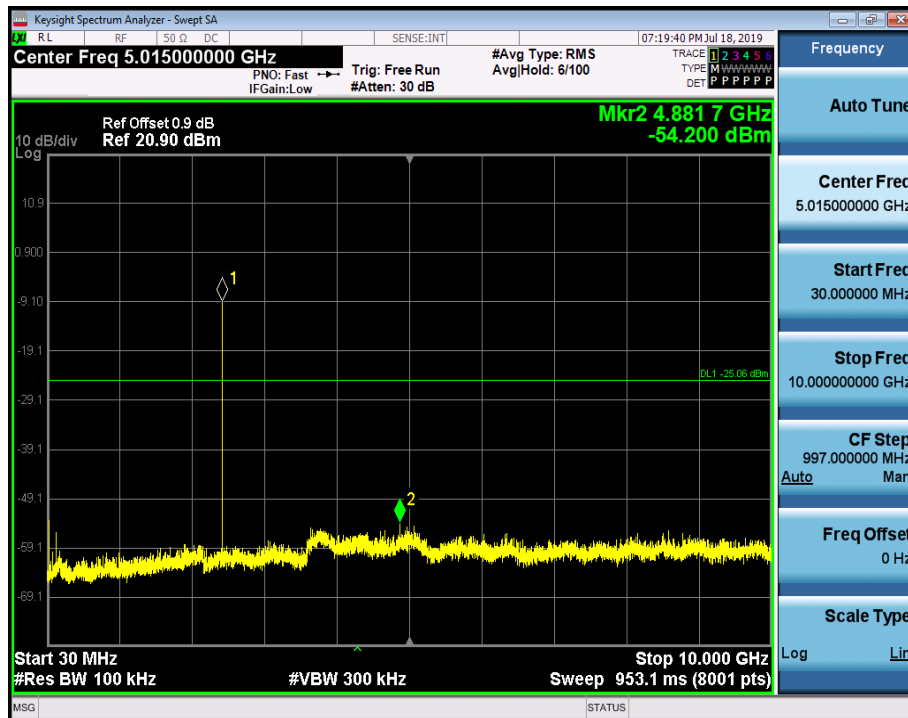


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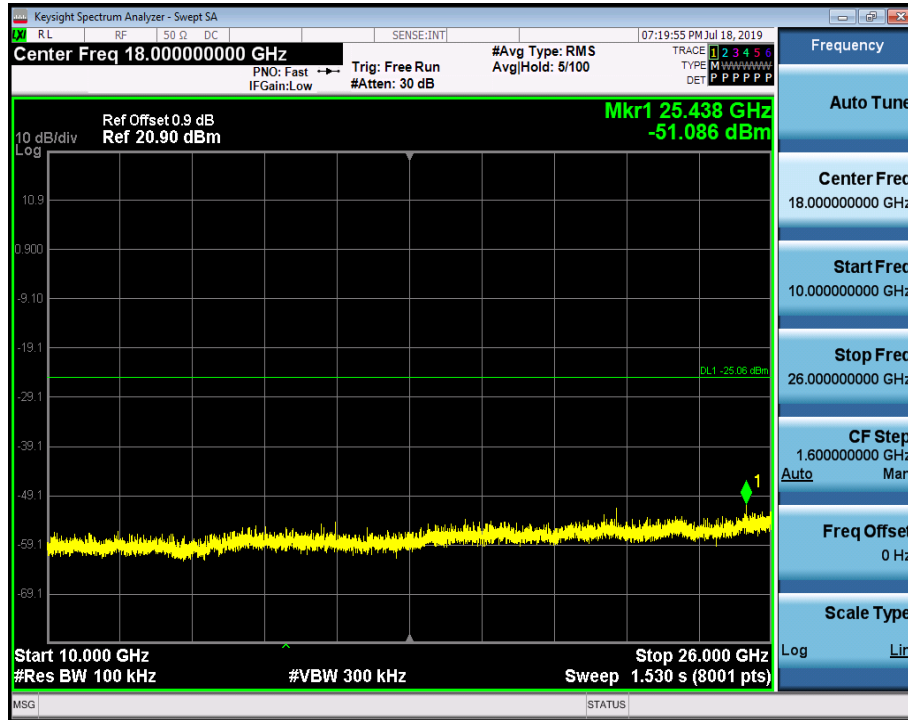
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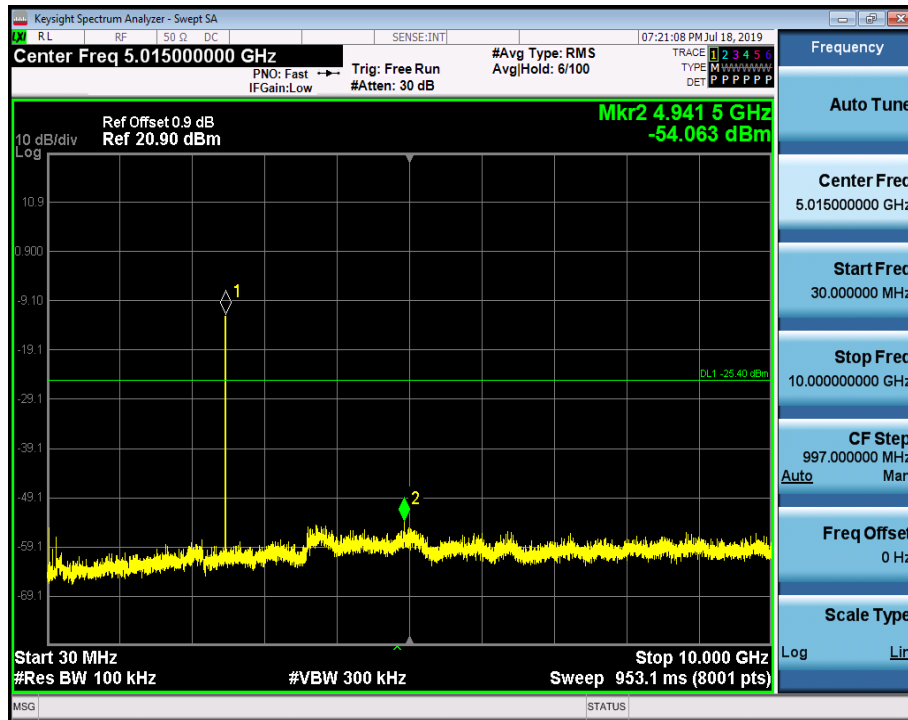
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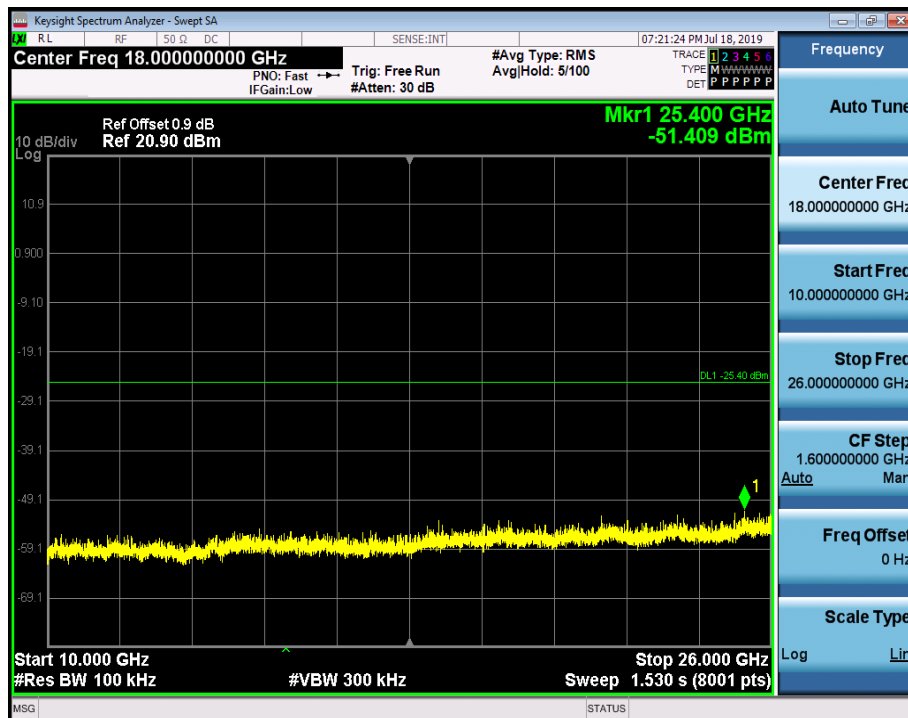
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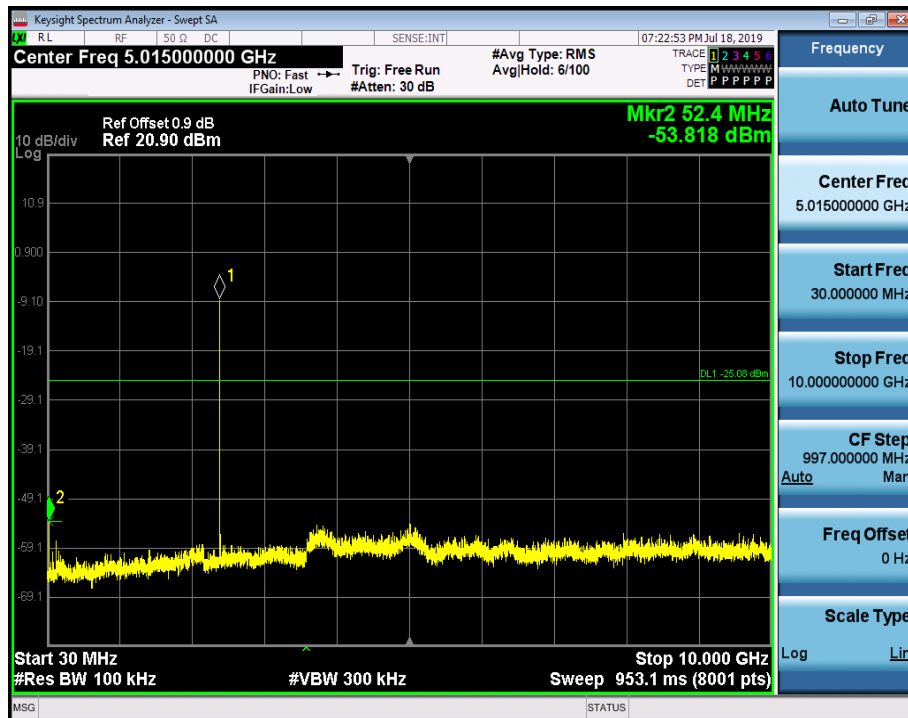
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## RF Conducted Spurious Emissions\_3DH5\_2402

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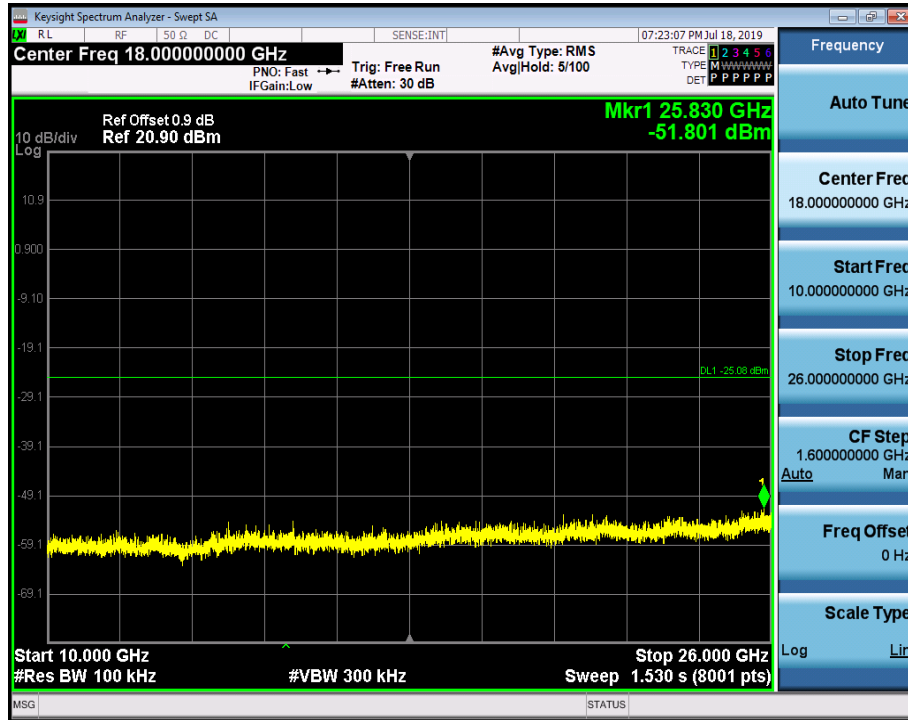
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## RF Conducted Spurious Emissions\_3DH5\_2441

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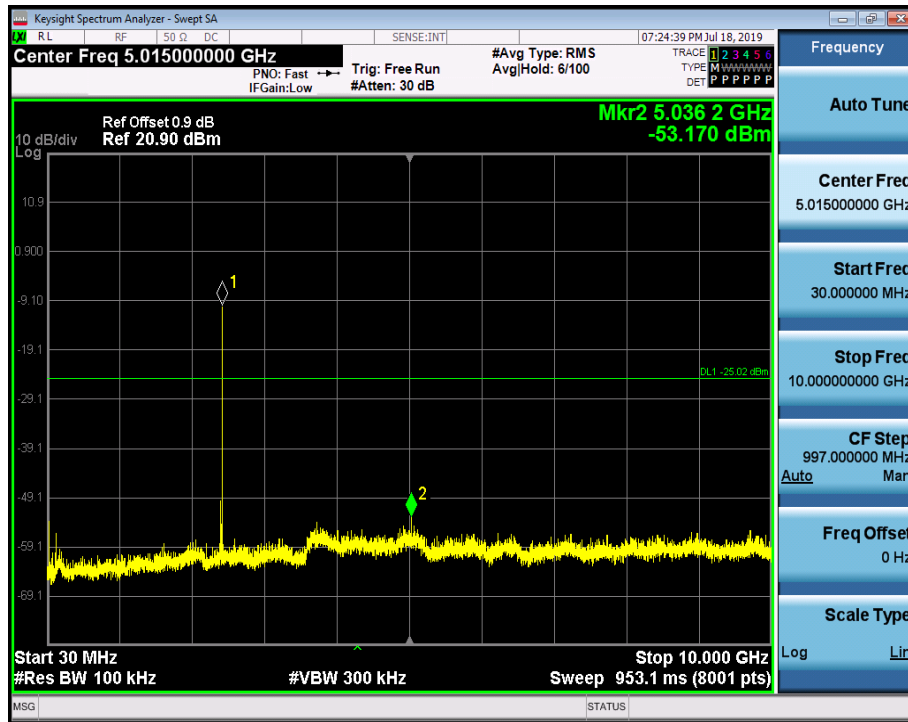


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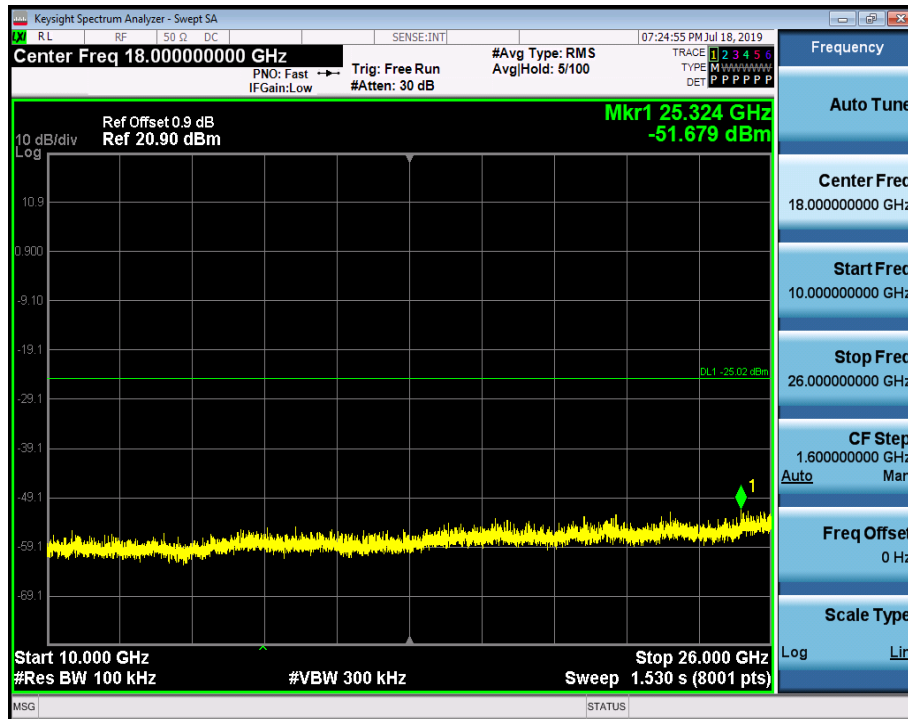
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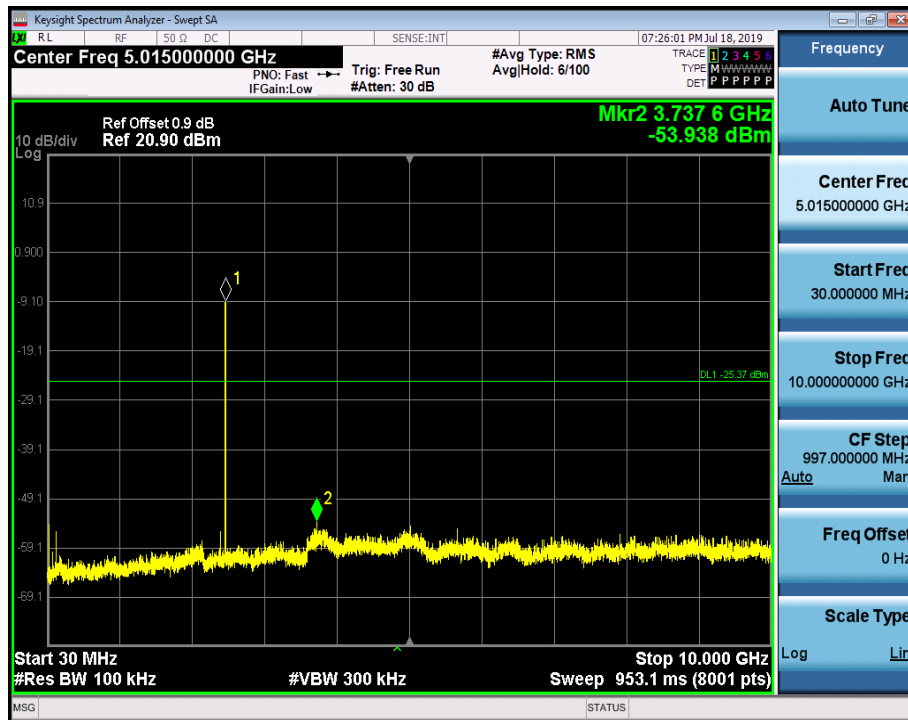
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## RF Conducted Spurious Emissions\_3DH5\_2480

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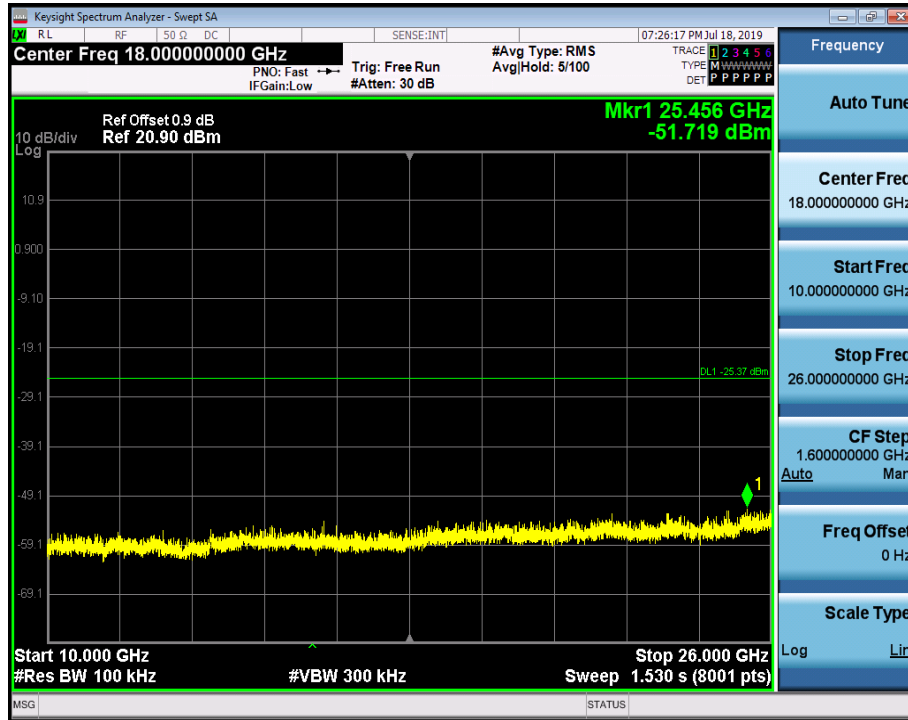
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--End of Report--



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