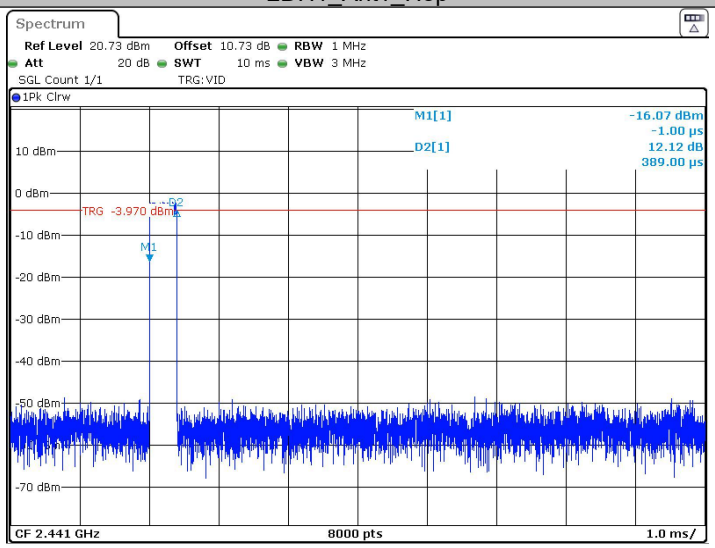
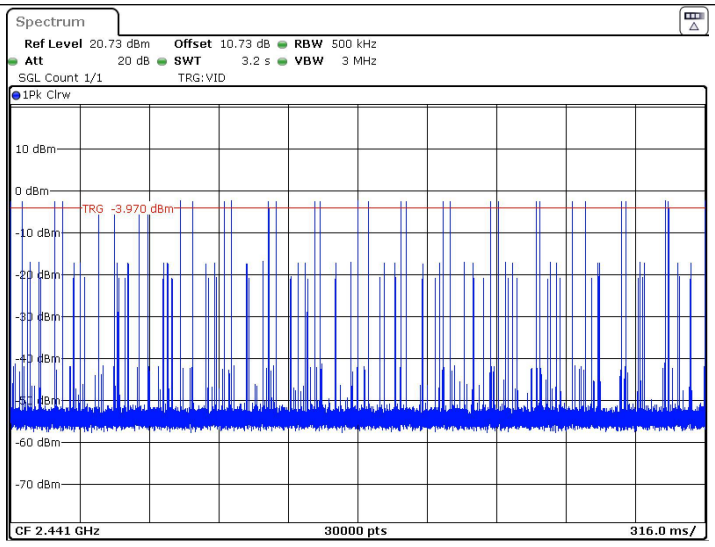
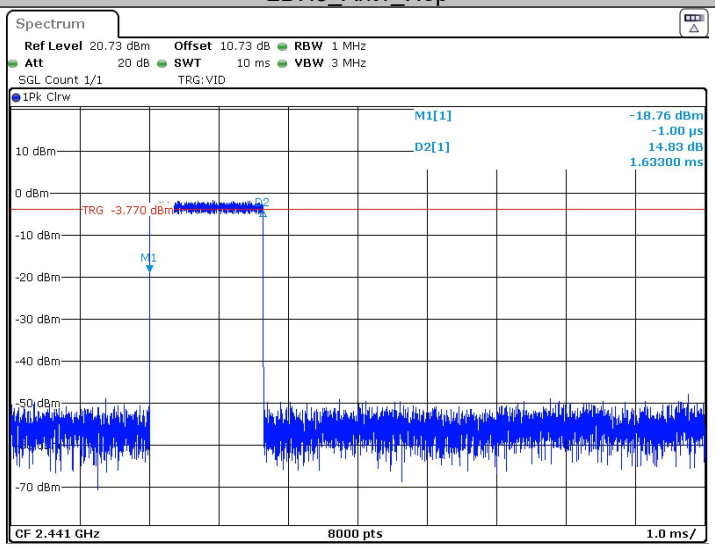
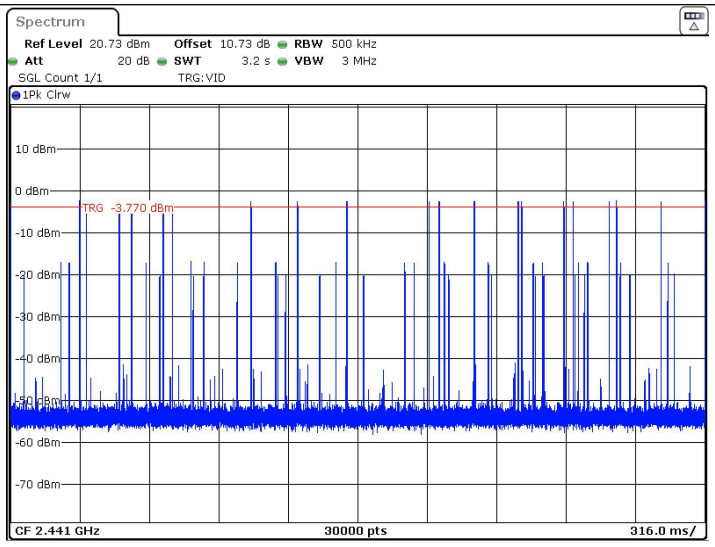
2DH1_Ant1_Hop
 Date: 27.DEC.2023 10:58:45
 Date: 27.DEC.2023 10:58:50

2DH3_Ant1_Hop

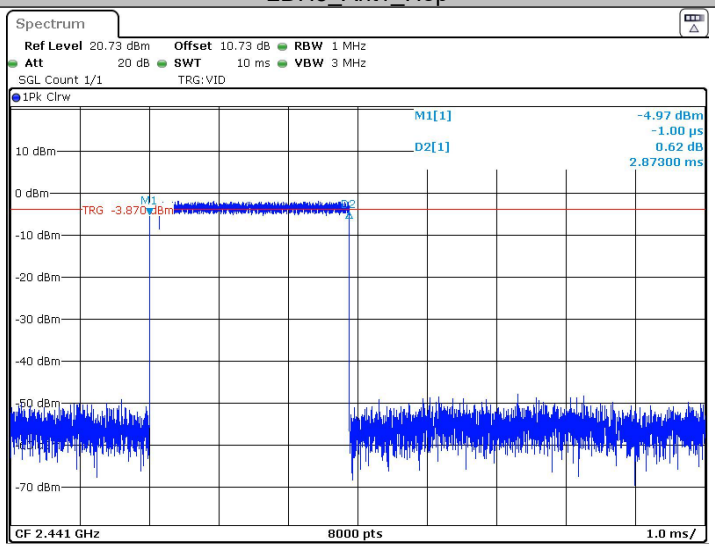


Date: 27.DEC.2023 10:59:54

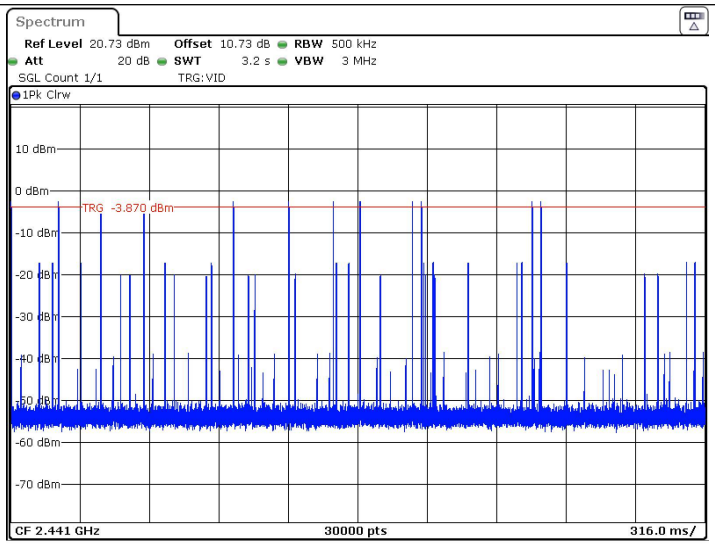


Date: 27.DEC.2023 11:00:00

2DH5_Ant1_Hop

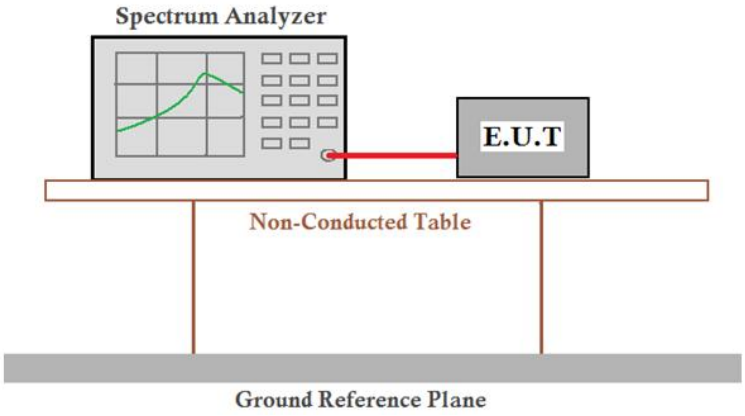


Date: 27.DEC.2023 10:58:08



Date: 27.DEC.2023 10:58:14

5.8 Band-edge for RF Conducted Emissions

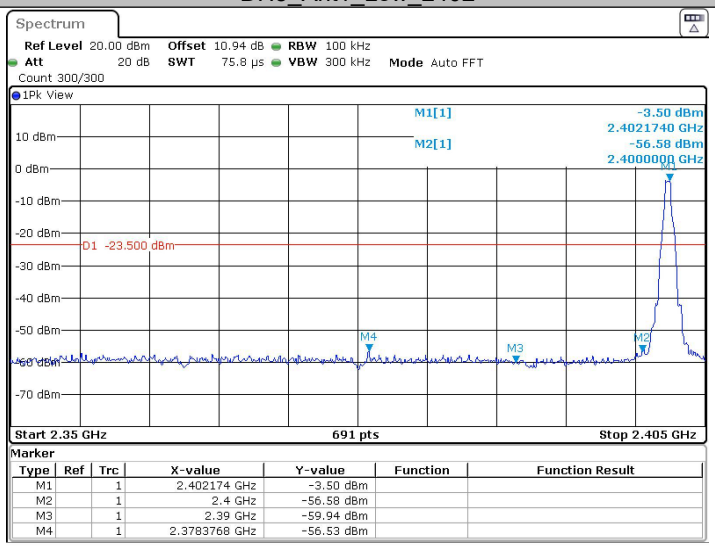
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	 *Remark: Offset=cable loss+ attenuation factor.*
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is 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.
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

Measurement Data

TestMode	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Low	2402	-3.50	-56.53	≤-23.5	PASS
	High	2480	-3.77	-55.95	≤-23.77	PASS
	Low	Hop_2402	-4.14	-53.42	≤-24.14	PASS
	High	Hop_2480	-3.30	-55.54	≤-23.3	PASS
2DH5	Low	2402	-3.42	-53.92	≤-23.42	PASS
	High	2480	-3.85	-56.43	≤-23.85	PASS
	Low	Hop_2402	-3.40	-55.74	≤-23.4	PASS
	High	Hop_2480	-3.74	-55.36	≤-23.74	PASS

Test plot as follows:

DH5_Ant1_Low_2402

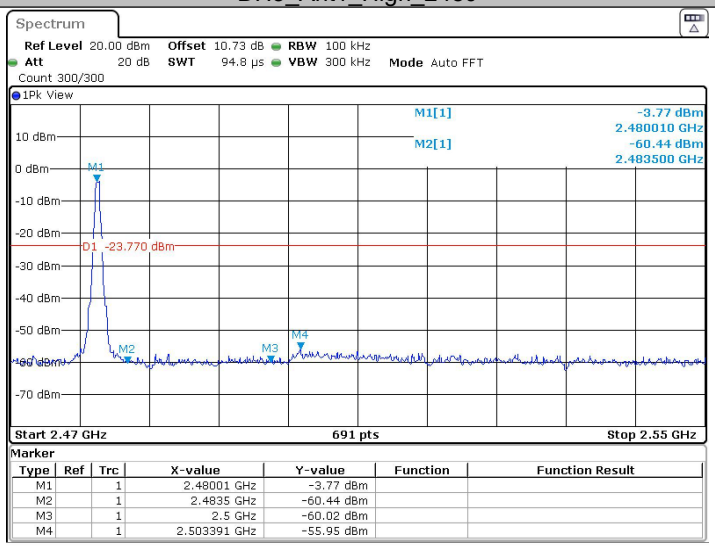


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402174 GHz	-3.50 dBm		
M2		1	2.4 GHz	-56.58 dBm		
M3		1	2.39 GHz	-59.94 dBm		
M4		1	2.3783768 GHz	-56.53 dBm		

Date: 27.DEC.2023 10:32:29

DH5_Ant1_High_2480

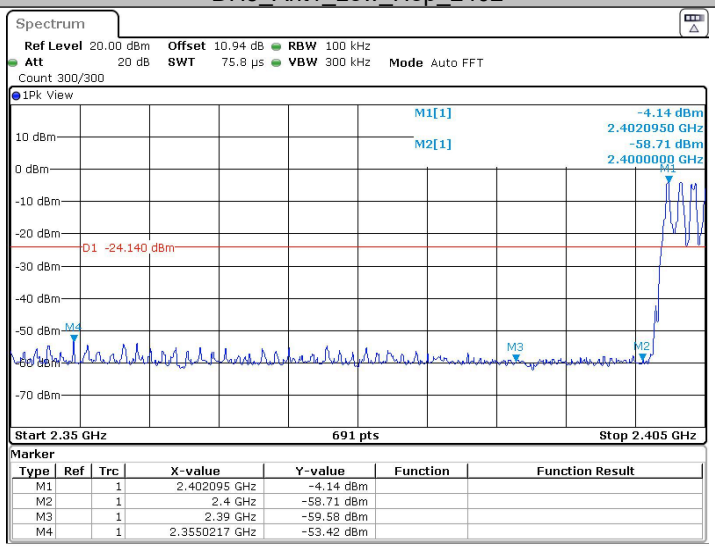


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48001 GHz	-3.77 dBm		
M2		1	2.4835 GHz	-60.44 dBm		
M3		1	2.5 GHz	-60.02 dBm		
M4		1	2.503391 GHz	-55.95 dBm		

Date: 27.DEC.2023 10:37:00

DH5_Ant1_Low_Hop_2402

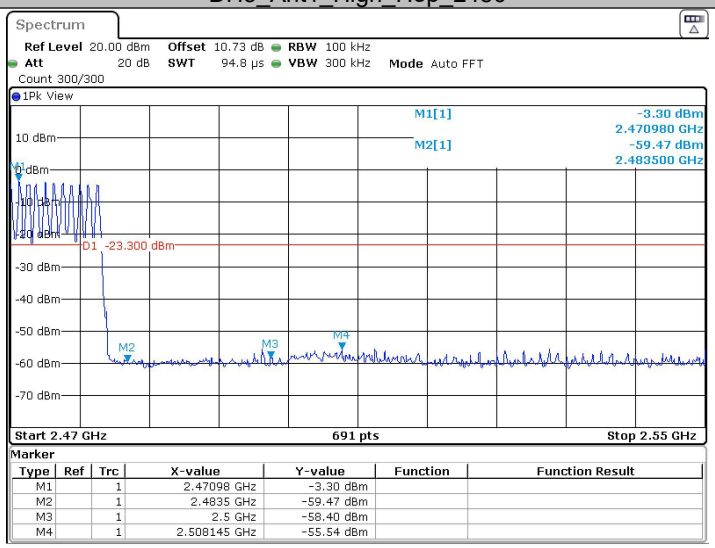


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402095 GHz	-4.14 dBm		
M2		1	2.4 GHz	-58.71 dBm		
M3		1	2.39 GHz	-59.58 dBm		
M4		1	2.3550217 GHz	-53.42 dBm		

Date: 27.DEC.2023 10:47:53

DH5_Ant1_High_Hop_2480

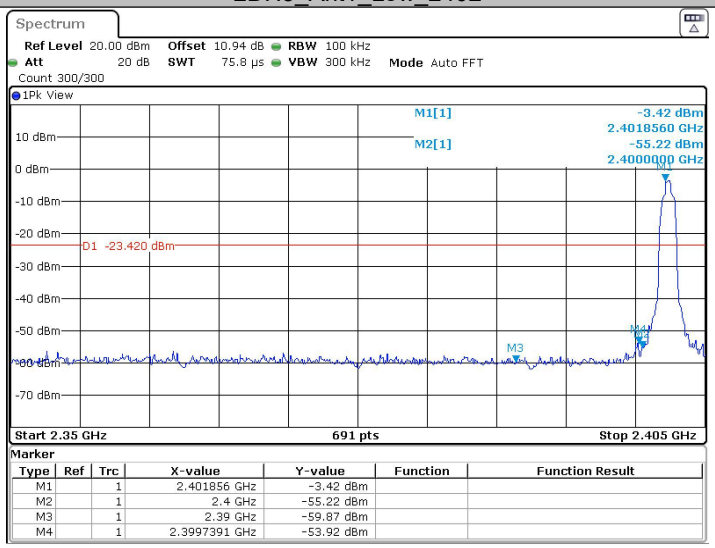


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47098 GHz	-3.30 dBm		
M2		1	2.4835 GHz	-59.47 dBm		
M3		1	2.5 GHz	-58.40 dBm		
M4		1	2.508145 GHz	-55.54 dBm		

Date: 27.DEC.2023 10:53:55

2DH5_Ant1_Low_2402

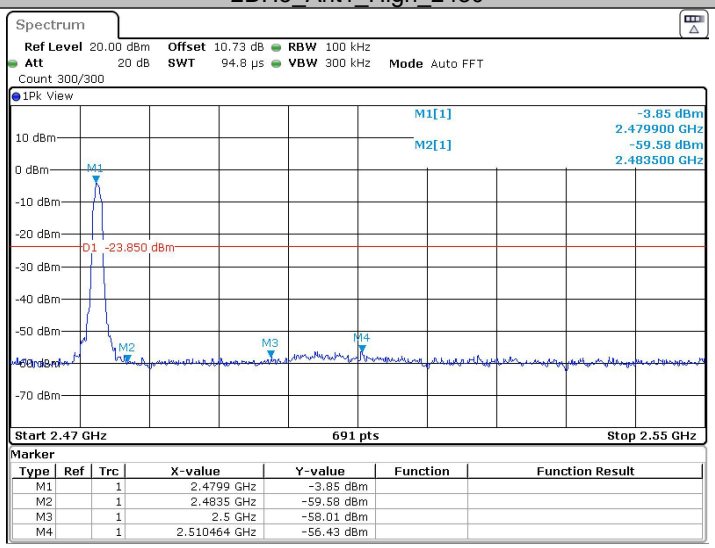


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.401856 GHz	-3.42 dBm		
M2		1	2.4 GHz	-55.22 dBm		
M3		1	2.39 GHz	-59.87 dBm		
M4		1	2.3997391 GHz	-53.92 dBm		

Date: 27.DEC.2023 10:39:40

2DH5_Ant1_High_2480

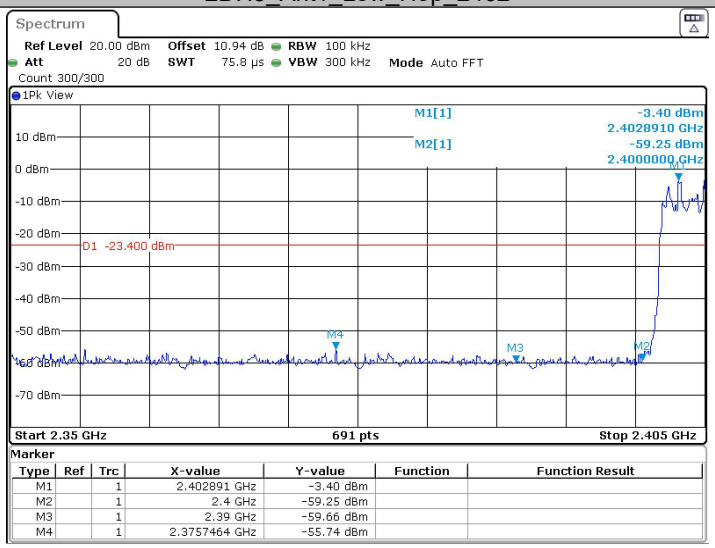


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4799 GHz	-3.85 dBm		
M2		1	2.4835 GHz	-59.58 dBm		
M3		1	2.5 GHz	-58.01 dBm		
M4		1	2.510464 GHz	-56.43 dBm		

Date: 27.DEC.2023 10:45:55

2DH5_Ant1_Low_Hop_2402

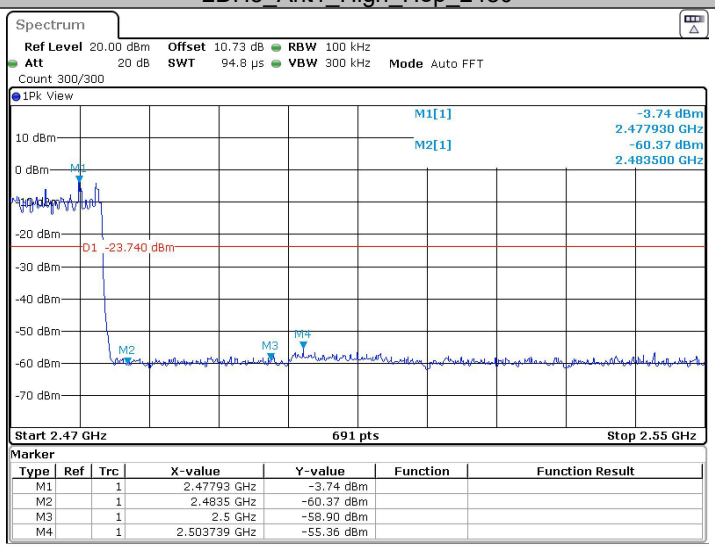


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402891 GHz	-3.40 dBm		
M2		1	2.4 GHz	-59.25 dBm		
M3		1	2.39 GHz	-59.66 dBm		
M4		1	2.3757464 GHz	-55.74 dBm		

Date: 27.DEC.2023 10:55:18

2DH5_Ant1_High_Hop_2480

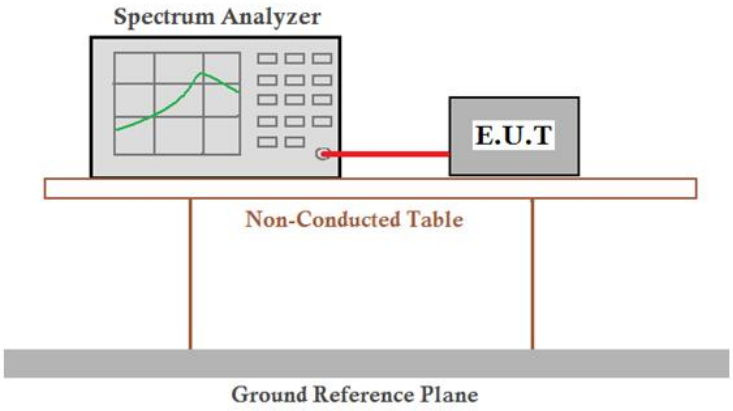


Marker

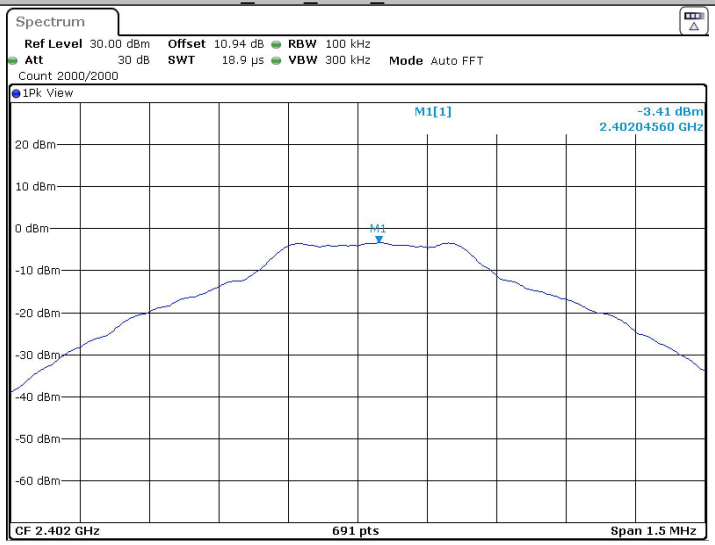
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47793 GHz	-3.74 dBm		
M2		1	2.4835 GHz	-60.37 dBm		
M3		1	2.5 GHz	-58.90 dBm		
M4		1	2.503739 GHz	-55.36 dBm		

Date: 27.DEC.2023 11:01:49

5.9 Spurious RF Conducted Emissions

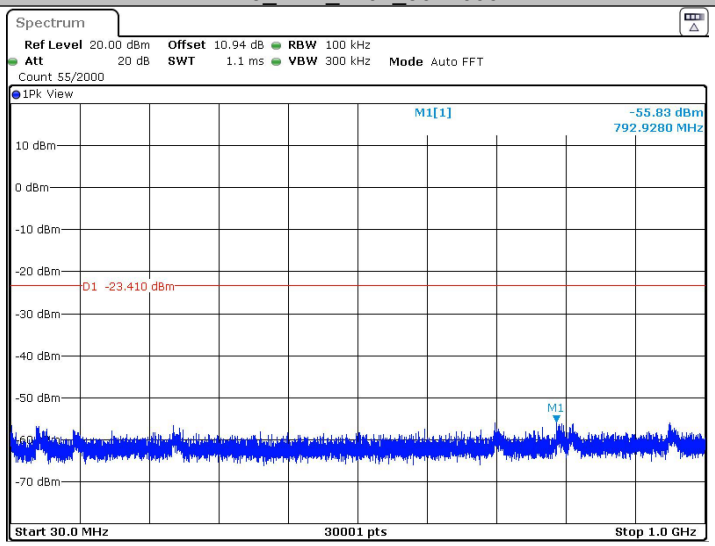
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	 *Remark: Offset=cable loss+ attenuation factor.*
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is 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.
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type.
Test Results:	Pass

DH5_Ant1_2402_0~Reference



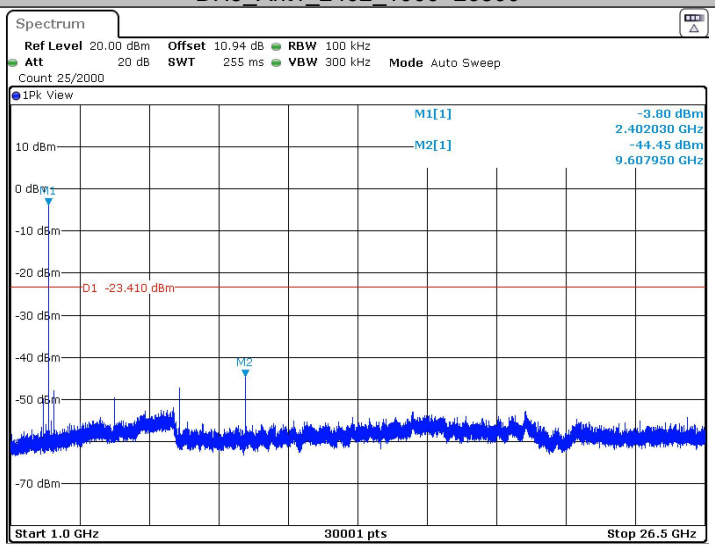
Date: 27.DEC.2023 10:33:35

DH5_Ant1_2402_30~1000



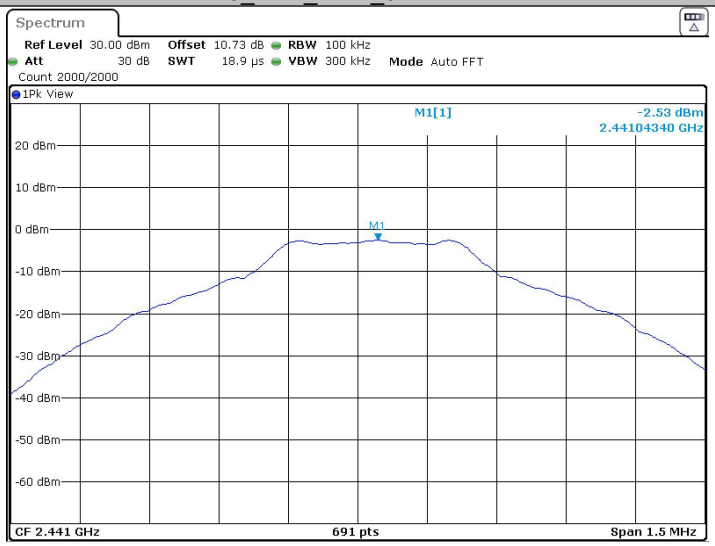
Date: 27.DEC.2023 10:33:42

DH5_Ant1_2402_1000~26500



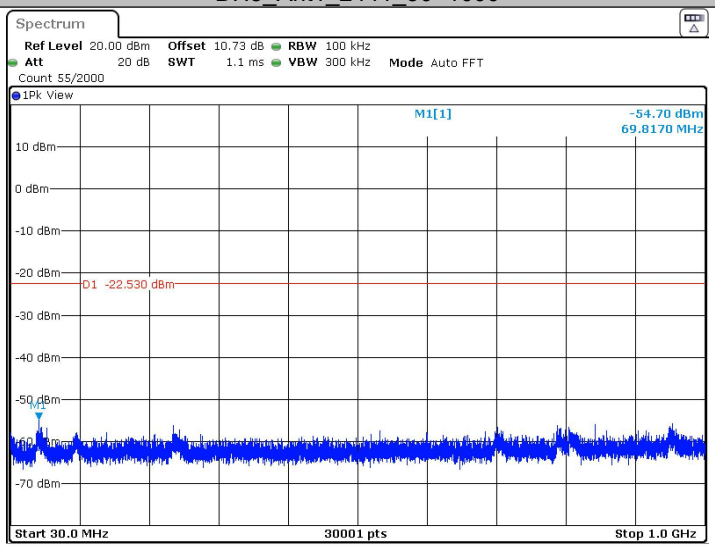
Date: 27.DEC.2023 10:34:04

DH5_Ant1_2441_0~Reference



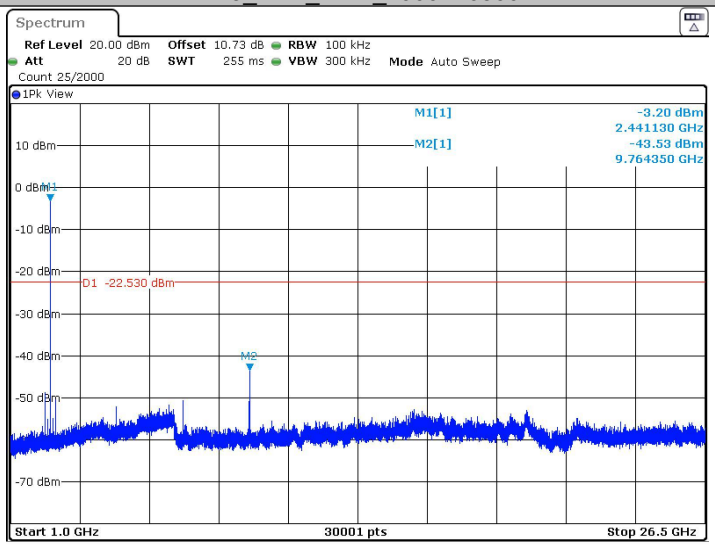
Date: 27.DEC.2023 10:35:21

DH5_Ant1_2441_30~1000



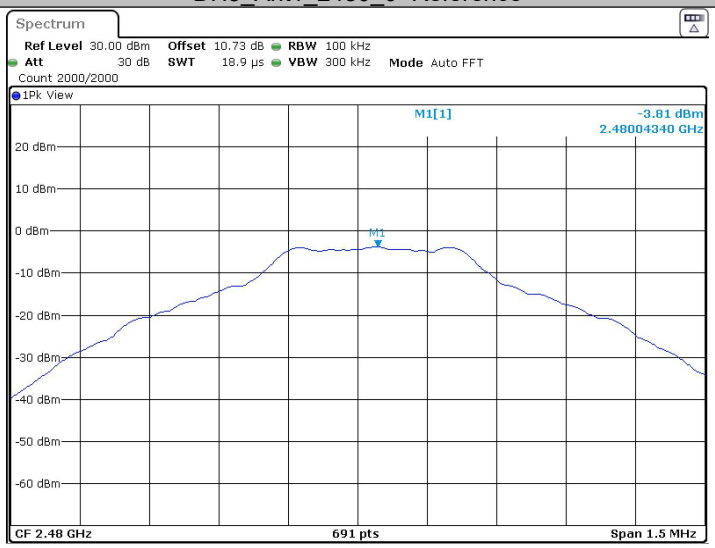
Date: 27.DEC.2023 10:35:28

DH5_Ant1_2441_1000~26500



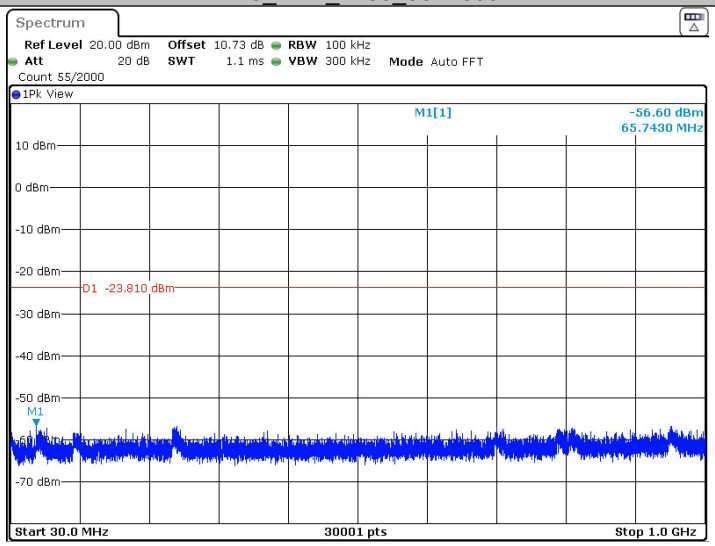
Date: 27.DEC.2023 10:35:50

DH5_Ant1_2480_0~Reference



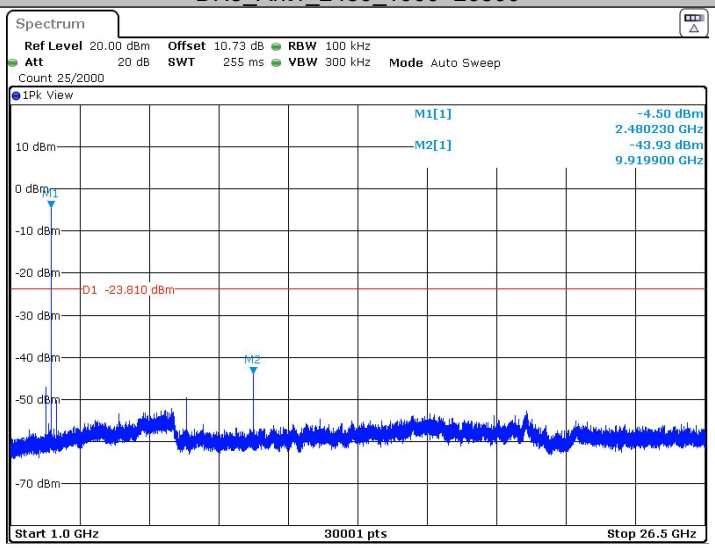
Date: 27.DEC.2023 10:38:05

DH5_Ant1_2480_30~1000



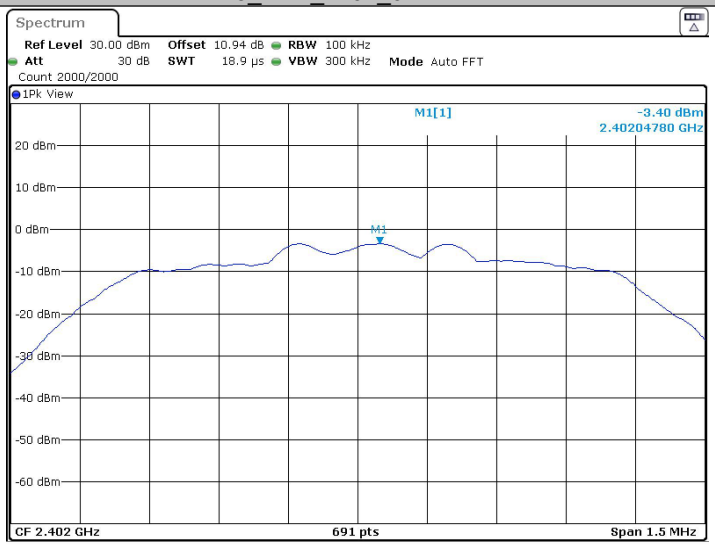
Date: 27.DEC.2023 10:38:12

DH5_Ant1_2480_1000~26500



Date: 27.DEC.2023 10:38:34

2DH5_Ant1_2402_0~Reference



Date: 27.DEC.2023 10:40:45