

TEST REPORT

Applicant : Shenzhen zhensimei Technology Co., Ltd

Address : No. 301, No. 22, East Shengjingyuan Industrial Park, Fuqian Road, fumin community, Fucheng Street, Shenzhen, China

Manufacturer : HUIZHOU WAHCHING TECHNOLOGY CO.,LTD

Address : Floor 8-9, No.3 Plant, Zhongkai Zhongli Zhigu, Shanpi Village, Lilin Town, Huizhou, China

Product Name : LC-K1

Model Number : LC008, LC001, LC002, LC003, LC004, LC005, LC006, LC007, LC009, LC010

Trademark : N/A

FCC ID : 2A25L-LC008

Test Date : Feb. 03, 2026 - Feb. 10, 2026

Date of Report : Mar. 02, 2026

Test Result : This device described above has been tested by BKC, and the test results show that the equipment under test (EUT) is in compliance with the FCC CFR Title 47 Part 15 Subpart C Section 15.247 requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:

Standards : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10-2020+Cor.1-2023

Prepared by(Test Engineer):
Carey Zheng



Approved(Manager):
Casey Wang



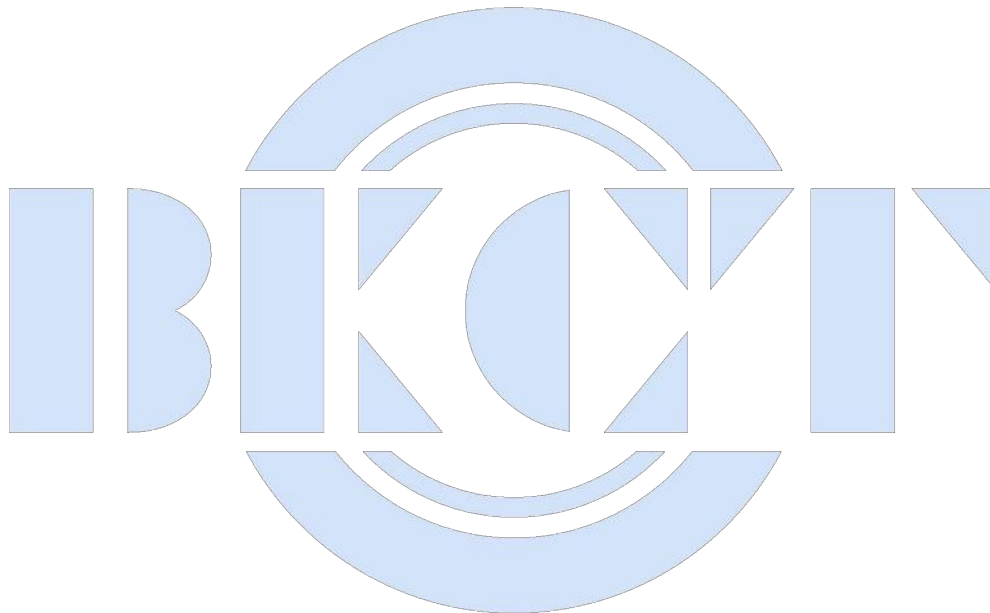
Approved(Manager):
Jerry Liao



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Revision History of This Test Report

[illegible]

1. General Information

1.1. Description of Device (EUT)

EUT Name	:	LC-K1
Model No.	:	LC008, LC001, LC002, LC003, LC004, LC005, LC006, LC007, LC009, LC010
Model Difference	:	Only the model names are different. The main test model is: LC008. The only difference between the left and right earphones is the PCB layout, but the BOM and SCH are the same.
Power supply	:	Rating(s): 5V Battery: 3.7V
Operation frequency	:	2402-2480MHz
Max. RF output power:	:	3.65dBm
Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type	:	Ceramic Antenna, Maximum Gain is 2.78dBi
Intend use environment	:	Residential, commercial and light industrial environment

1.2. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

1.3. Summary of test result

RF PART		
Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.205(a) 15.209 15.247(d) RSS-Gen §6.13 RSS-Gen § 8.9&8.10	PASS
Band edge	15.247(d) 15.205(a) RSS-Gen §6.13 RSS-Gen § 8.9&8.10	PASS
Conduct Emission	15.207 RSS-Gen §8.8	PASS
20dB Bandwidth 99% Occupied Bandwidth	15.247(a)(1) RSS-247 §5.1 &RSS-Gen§6.7	PASS
Maximum Peak Output Power	15.247(b)(1) RSS-247§5.4 &RSS-Gen§6.12	PASS
Frequency Separation	15.247(a)(1) RSS-247 §5.1	PASS
Number of Hopping Frequency	15.247(a)(1)(iii) RSS-247 §5.1	PASS
Dwell time	15.247(a)(1)(iii) RSS-247 §5.1	PASS
Antenna Requirement	15.203 RSS-Gen §6.8	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.4. Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
Serial port board	-	USB-TTL-01	-	-
Adapter	-	WH088	-	-

1.5. Test mode

The special RF test software was used to control EUT work in Continuous BT TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
GFSK	2402MHz	2441MHz	2480MHz
$\pi/4$ -DQPSK	2402MHz	2441MHz	2480MHz
8DPSK	2402MHz	2441MHz	2480MHz

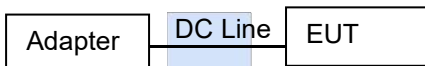
Note: Only the worst Data DH5/2DH5/3DH5 Record in the report

1.6. Test configuration

Test Software	FCC_assist_1.0.2.2
Power level setup	Maximum

1.7. Block Diagram

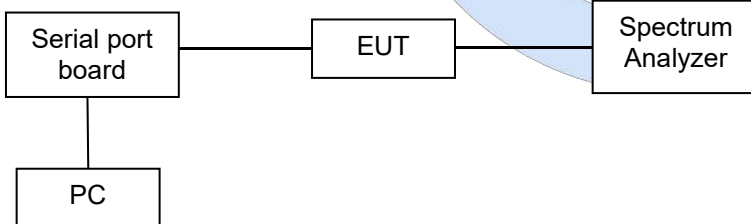
Conducted Emission



Radiated Emission



RF Conducted Test



1.8. Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35°C	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	DC 3.7V	N/A

Note: N/A is an abbreviation for Not Applicable.

1.9. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
Conducted Emissions (150kHz~30MHz)	$\pm 2.54\text{dB}$	
Radiated Emission(9KHz~30MHz)	$\pm 1.6\text{ dB}$	
Radiated Emission(30MHz~1GHz)	Vertical: $\pm 4.14\text{dB}$ Horizontal: $\pm 4.25\text{dB}$	
Radiated Emission(1GHz~6GHz)	$\pm 3.9\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.3\text{dB}$	
Radiated Emission(18GHz~40GHz)	$\pm 3.38\text{dB}$	
Uncertainty for conducted RF Power	$\pm 0.20\text{dB}$	
Conducted spurious emissions	$\pm 0.24\text{dB}$	
Uncertainty for temperature	0.6°C	
Uncertainty for humidity	1%	
Bandwidth	$\pm 1.5 \times 10^{-6}$	
Time	$\pm 2\%$	
Duty Cycle	$\pm 2\%$	
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%		

1.10. Test Facility

Site Description	
Name of Firm	: Shenzhen BKC Testing Co., Ltd.
Site Location	: Room 103, 1/F, Huaya Building, Huaya Industrial Park, Longhua Community, Longhua District, Shenzhen, Guangdong, China.
ISED CAB identifier	: CN0188
ISED Company Number	: 34333
FCC Designation Number	: CN1416
FCC Test Firm Registration Number	: 701543

1.11. Test Equipment

Conducted Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	102762	Mar. 10. 2025	Mar. 09. 2026
2	EMI Test Receiver	R&S	ESCI	101424	Mar. 10. 2025	Mar. 09. 2026
3	Rf cables	HTEC	HCE 2M-CE	N/A	Mar. 10. 2025	Mar. 09. 2026
4	Coupling/ Decoupling Network	Diamond	CX210	N/A	Mar. 10. 2025	Mar. 09. 2026

5	CE Testing software	EZ	EZ-EMC	/	/	/
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Radiated Test Site(Below 1G and Above 1G)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Antenna	Schwarzbeck	VULB 9168	01321	Mar. 20. 2025	Mar. 19. 2028
2	EMI Test Receiver	R&S	ESRP	101478	Mar. 10. 2025	Mar. 09. 2026
3	Preamplifier	HP	8447D	2727A05345	Mar. 10. 2025	Mar. 09. 2026
4	Double Ridged Broadband	SCHWARZBECK	BBHA 9120D	02621	Mar. 10. 2025	Mar. 19. 2028
5	Preamplifier	Schwarzbeck	BBV 9718D	00041	Mar. 10. 2025	Mar. 09. 2026
6	Rf cables	HUBER+SUHNER	8M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
7	Rf cables	HUBER+SUHNER	1.5M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
8	Rf cables	HUBER+SUHNER	1.5M-AP-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
9	Loop antenna	ANRF	ANRF-6603	091802	Mar. 09. 2025	Mar. 10. 2026
10	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026
11	Double Ridged Broadband Horn Antenna	COM-POWER	AH-1840	10100009	Mar. 10. 2025	Mar. 09. 2026
12	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
13	Band Stop Filter	Bafang	BSF5G	2024052610	Mar. 09. 2025	Mar. 10. 2026
14	RE Testing software	EZ	EZ-EMC	/	/	/

RF Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
2	Vector source	Agilent	N5182A	MY47420223	Mar. 09. 2025	Mar. 10. 2026
3	All instrument	Rohde & Schwarz	CMW 500	101131	Mar. 09. 2025	Mar. 10. 2026
4	control unit	MW	MW100-RFCB	MW200411BK-34	Mar. 09. 2025	Mar. 10. 2026
5	RF Testing software	MW	MTS 8310	/	Mar. 09. 2025	/
6	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026

Test software

Software name	RF Testing software
Software version	2.0.0.0
Software name	RE Testing software
Software version	EMEC-03A2 RE+
Software name	CE Testing software
Software version	EMEC-3A1+

2. Conducted emission at the mains terminals test

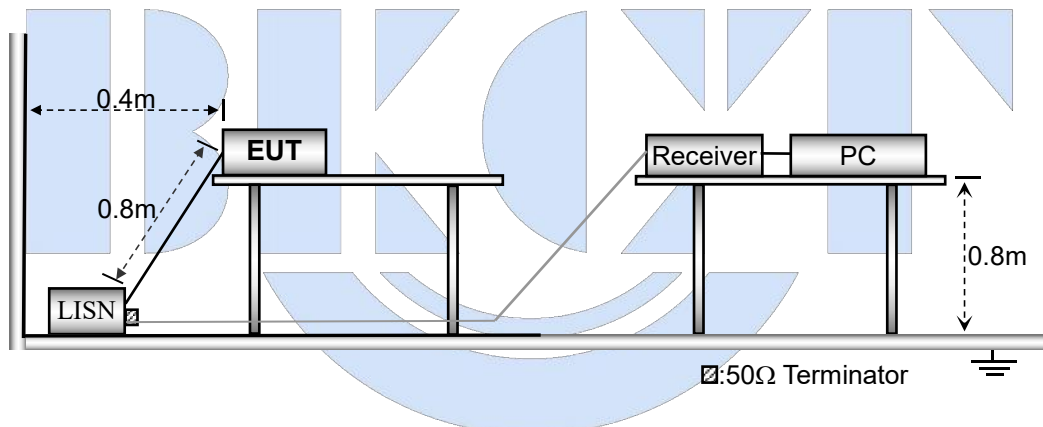
2.1. Limit

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020+Cor.1-2023
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.2. Test Setup

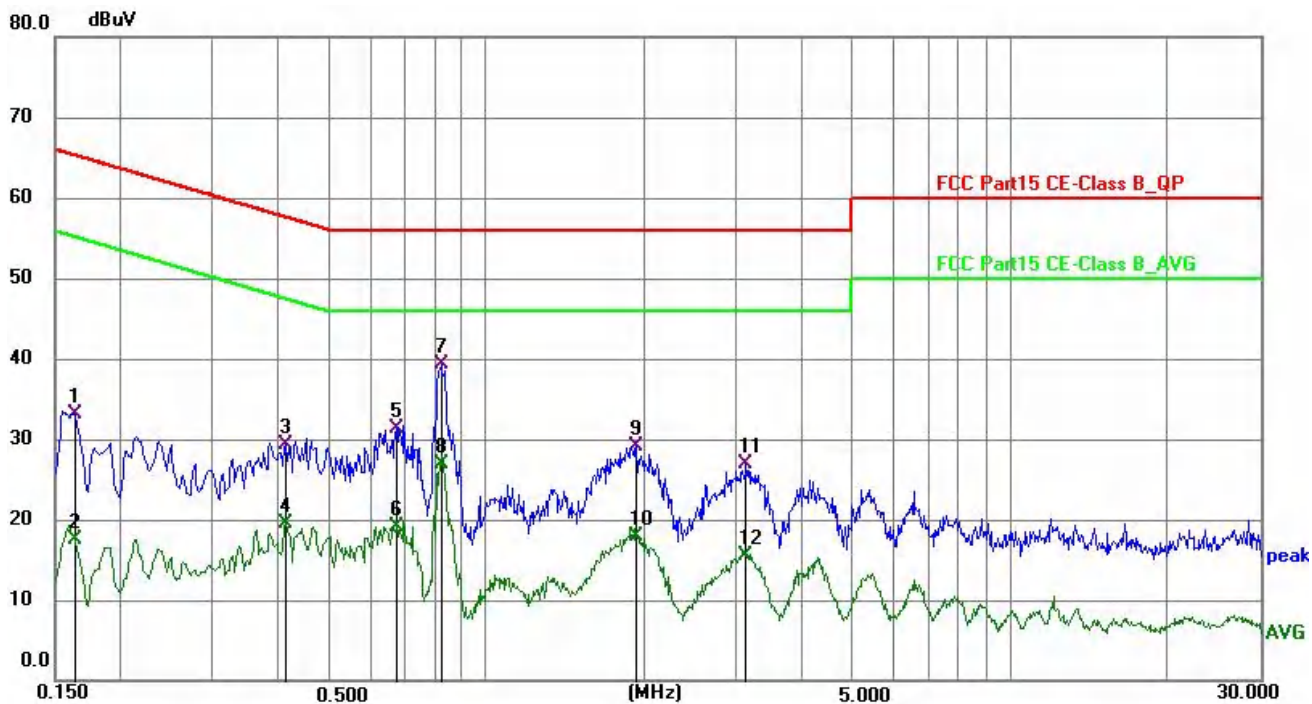


2.3. Test Procedure

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item - EUT Test Photos.

2.4. Test Result

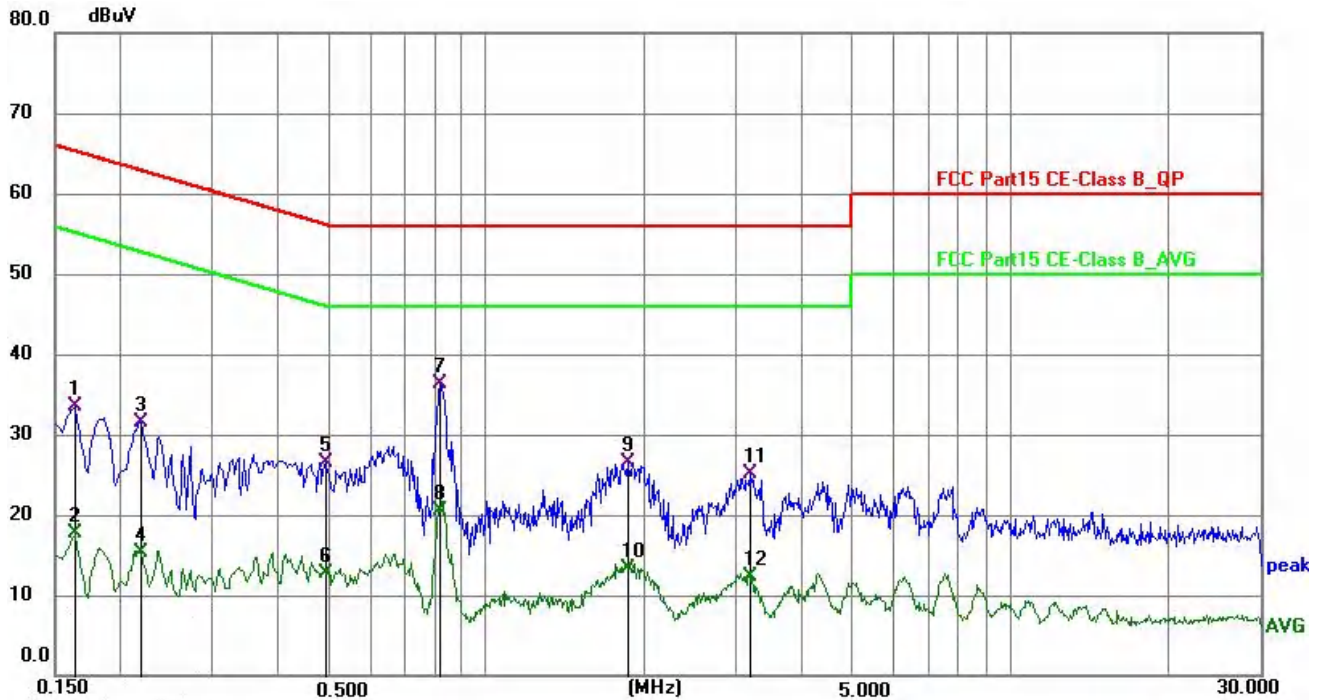
Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	BT transmitting



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1635	23.42	9.78	33.20	65.28	-32.08	QP	P
2	0.1635	7.66	9.78	17.44	55.28	-37.84	AVG	P
3	0.4110	19.59	9.77	29.36	57.63	-28.27	QP	P
4	0.4110	9.67	9.77	19.44	47.63	-28.19	AVG	P
5	0.6720	21.57	9.77	31.34	56.00	-24.66	QP	P
6	0.6720	9.39	9.77	19.16	46.00	-26.84	AVG	P
7 *	0.8205	29.62	9.76	39.38	56.00	-16.62	QP	P
8	0.8205	17.19	9.76	26.95	46.00	-19.05	AVG	P
9	1.9320	19.33	9.76	29.09	56.00	-26.91	QP	P
10	1.9320	8.22	9.76	17.98	46.00	-28.02	AVG	P
11	3.1290	17.04	9.79	26.83	56.00	-29.17	QP	P
12	3.1290	5.63	9.79	15.42	46.00	-30.58	AVG	P

Conducted Emission At The Mains Terminals Test Data

Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	BT transmitting



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1635	23.80	9.69	33.49	65.28	-31.79	QP	P
2	0.1635	7.97	9.69	17.66	55.28	-37.62	AVG	P
3	0.2175	21.88	9.71	31.59	62.91	-31.32	QP	P
4	0.2175	5.62	9.71	15.33	52.91	-37.58	AVG	P
5	0.4920	16.79	9.70	26.49	56.13	-29.64	QP	P
6	0.4920	2.95	9.70	12.65	46.13	-33.48	AVG	P
7 *	0.8160	26.66	9.69	36.35	56.00	-19.65	QP	P
8	0.8160	10.77	9.69	20.46	46.00	-25.54	AVG	P
9	1.8645	16.90	9.69	26.59	56.00	-29.41	QP	P
10	1.8645	3.54	9.69	13.23	46.00	-32.77	AVG	P
11	3.1875	15.44	9.71	25.15	56.00	-30.85	QP	P
12	3.1875	2.58	9.71	12.29	46.00	-33.71	AVG	P

Note: Only the worst Data GFSK/2402MHz mode Record in the report.

3. Radiated Spurious Emissions

3.1. Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10-2020+Cor.1-2023
Test Result: PASS
Measurement Distance: 3m

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

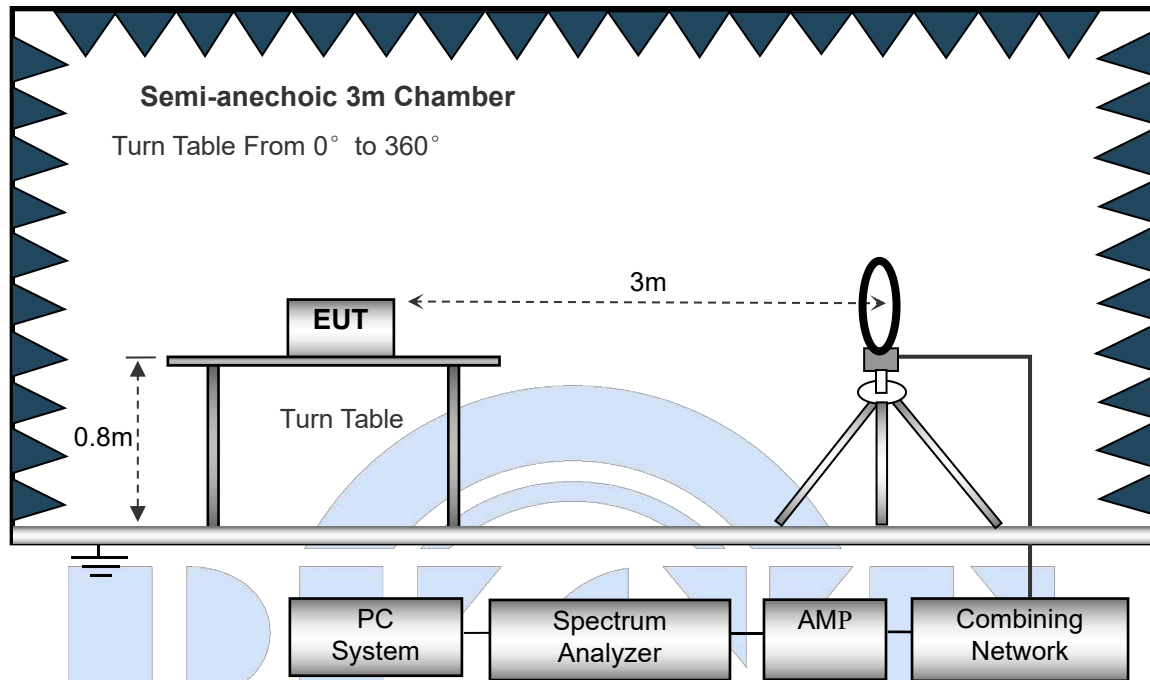
Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log(30) + 40$
30 ~ 88	100	3	100	$20\log(100)$
88 ~ 216	150	3	150	$20\log(150)$
216 ~ 960	200	3	200	$20\log(200)$
Above 960	500	3	500	$20\log(500)$

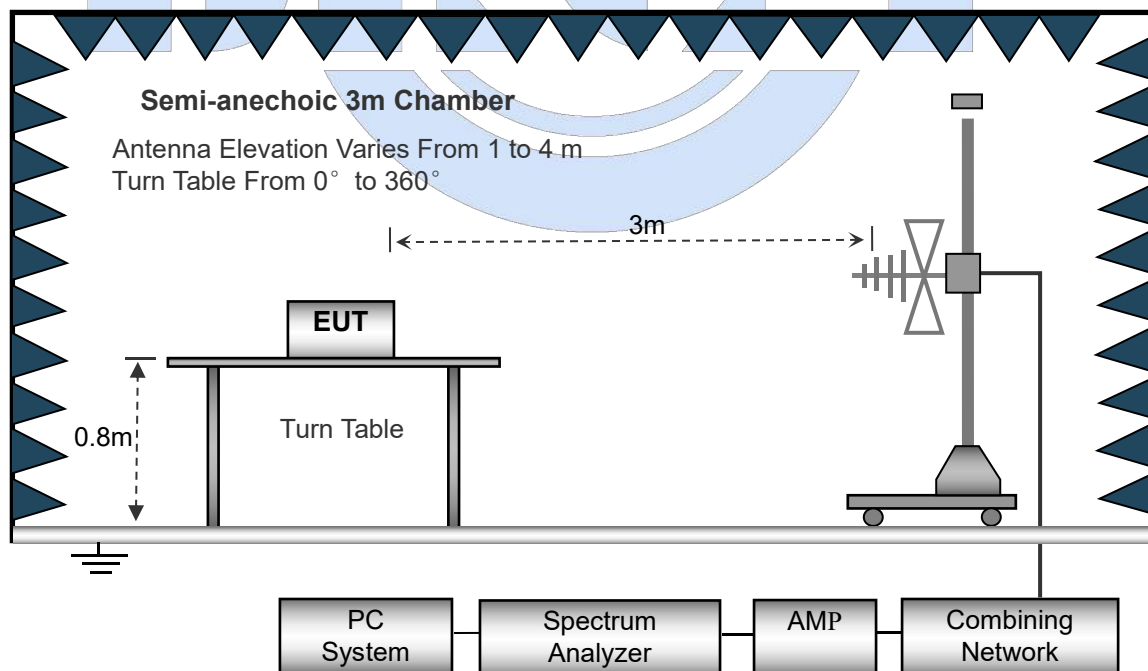
3.2. Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

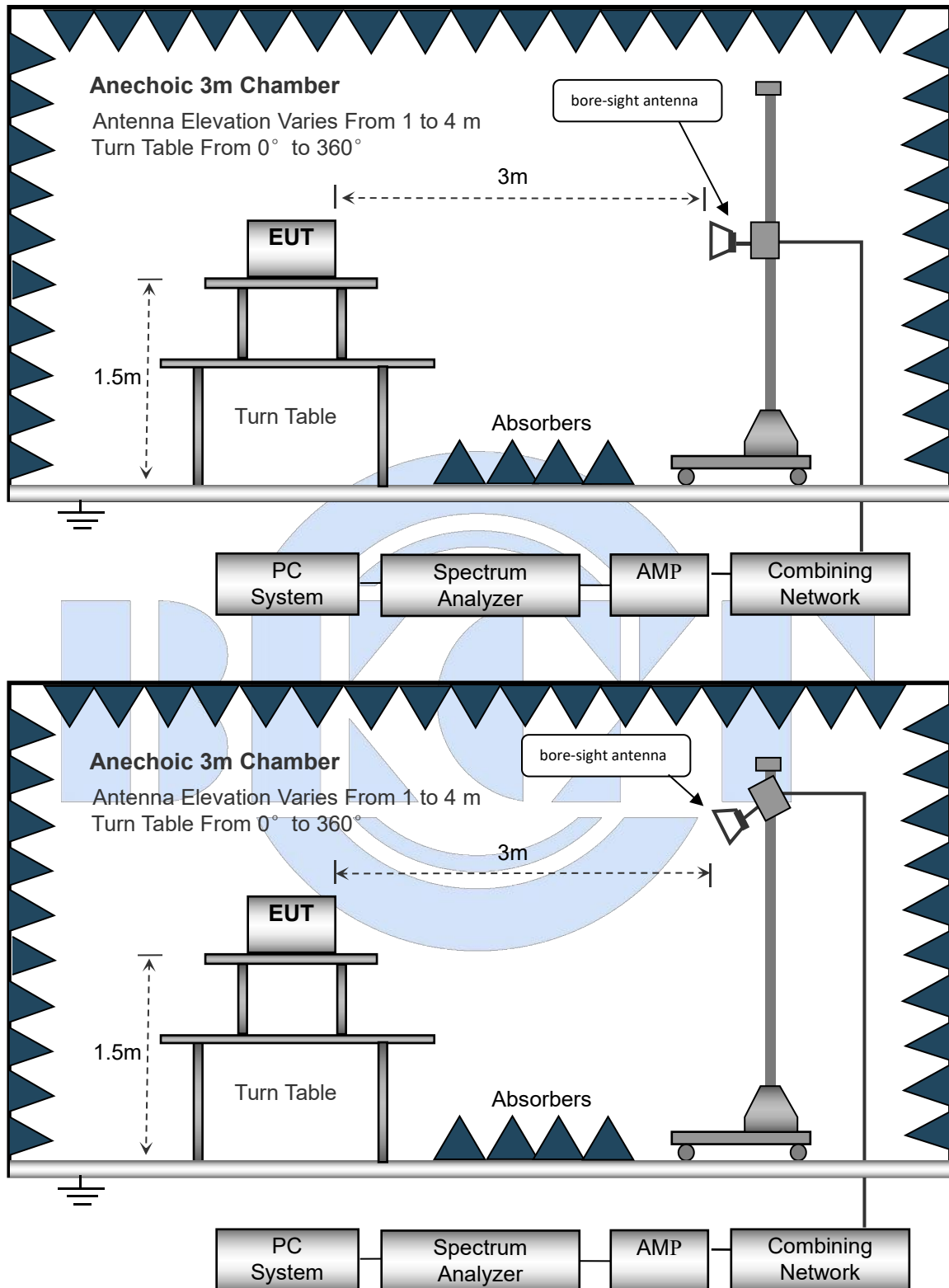
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.

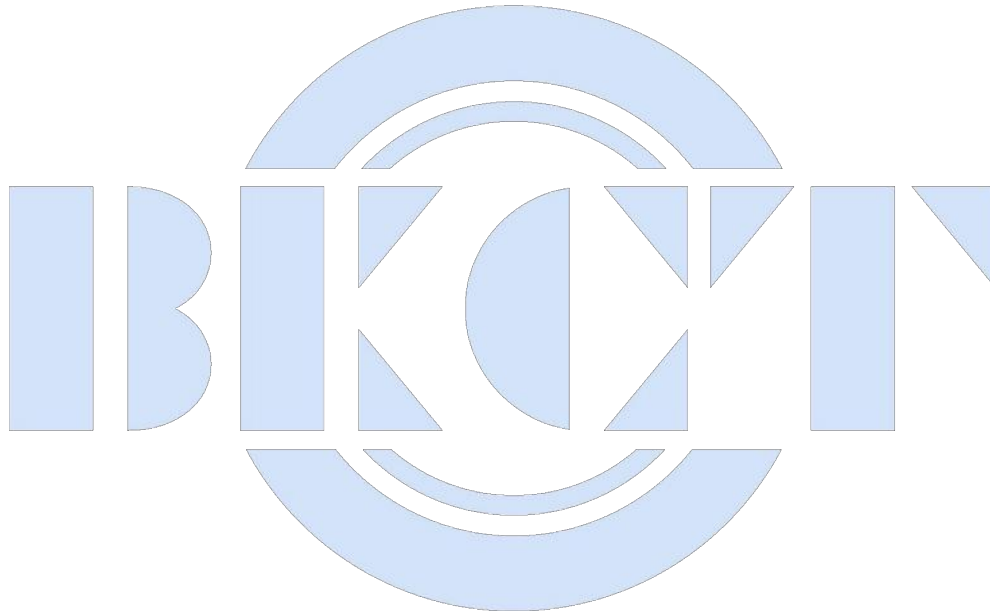


The test setup for emission measurement above 1 GHz.



3.3. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high - pass filter is used during radiated emissions above 1GHz measurement.



3.4. Test Result

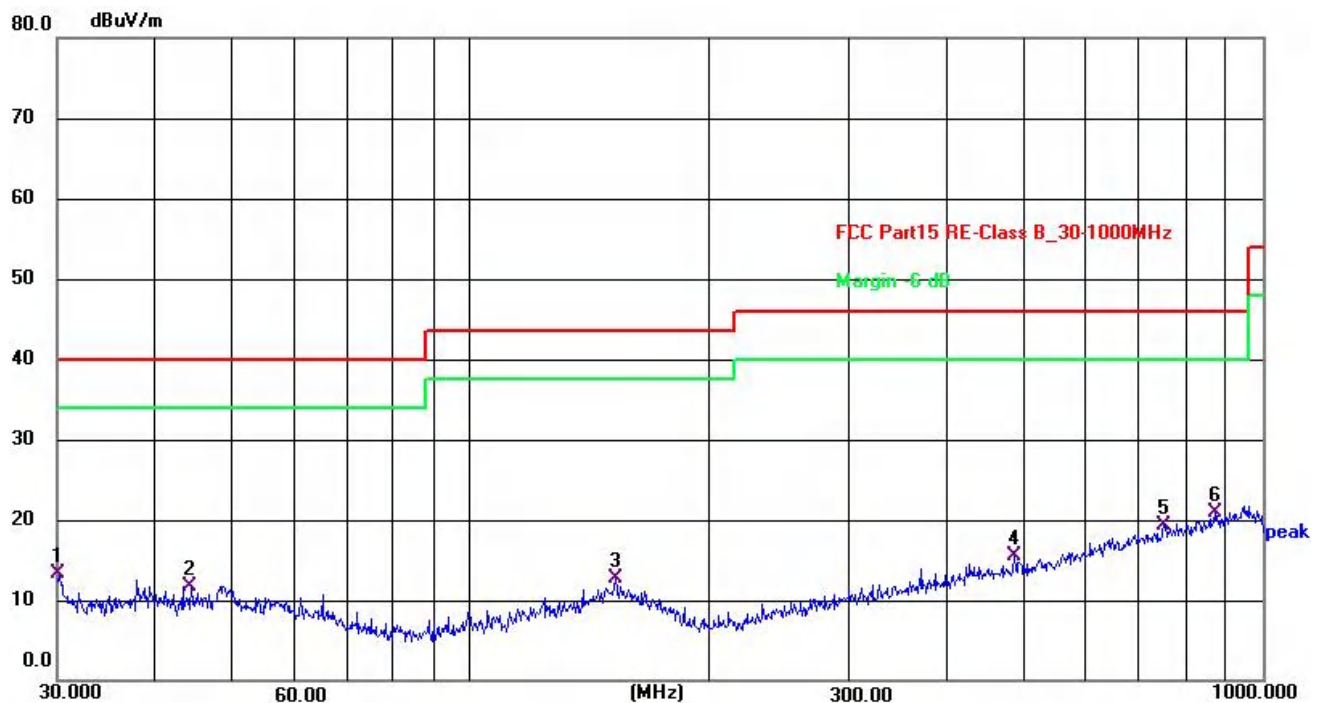
Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 1GHz

Left Earphones:

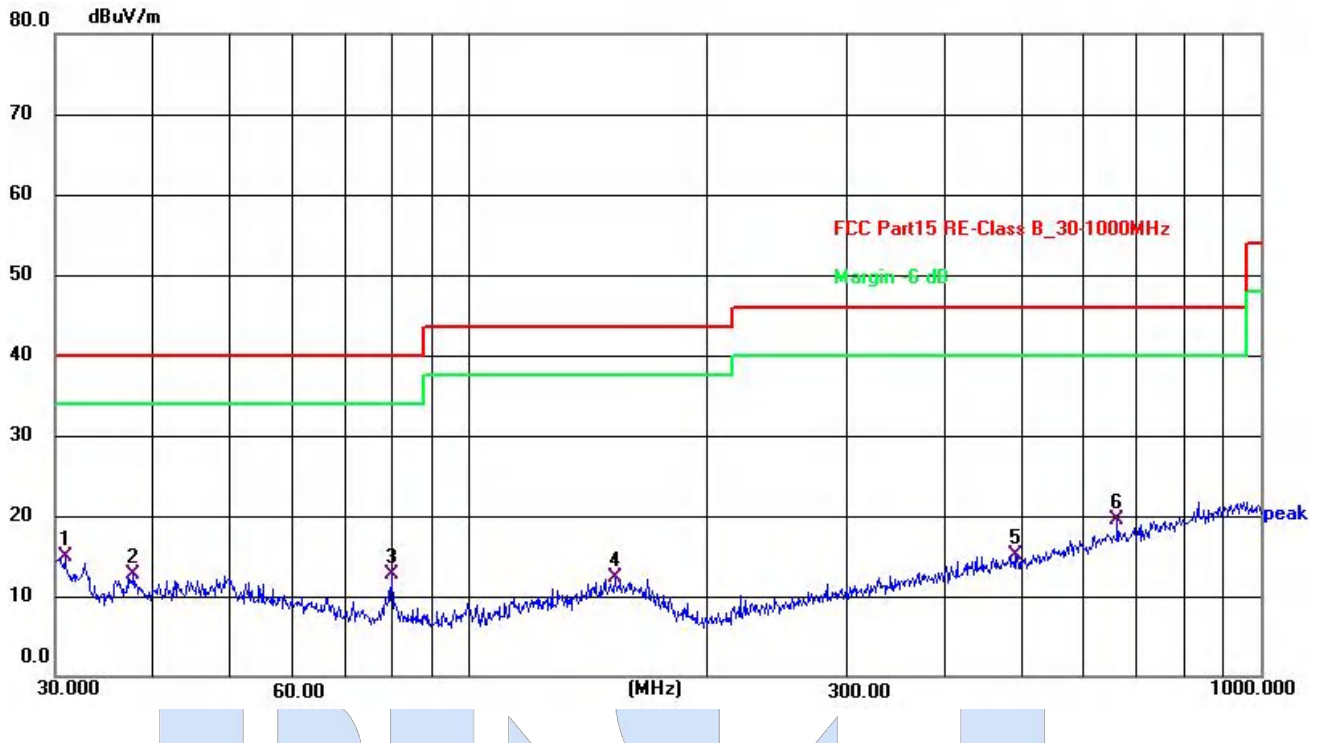
Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	DC 3.7V	Test Mode	BT transmitting



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	30.37	-17.03	13.34	40.00	-26.66	QP
2	44.3683	28.30	-16.50	11.80	40.00	-28.20	QP
3	152.4500	28.63	-15.85	12.78	43.50	-30.72	QP
4	486.8027	29.01	-13.44	15.57	46.00	-30.43	QP
5	750.8976	28.77	-9.40	19.37	46.00	-26.63	QP
6 *	871.2661	28.94	-8.00	20.94	46.00	-25.06	QP

Radiation Emission Test Data

Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	DC 3.7V	Test Mode	BT transmitting



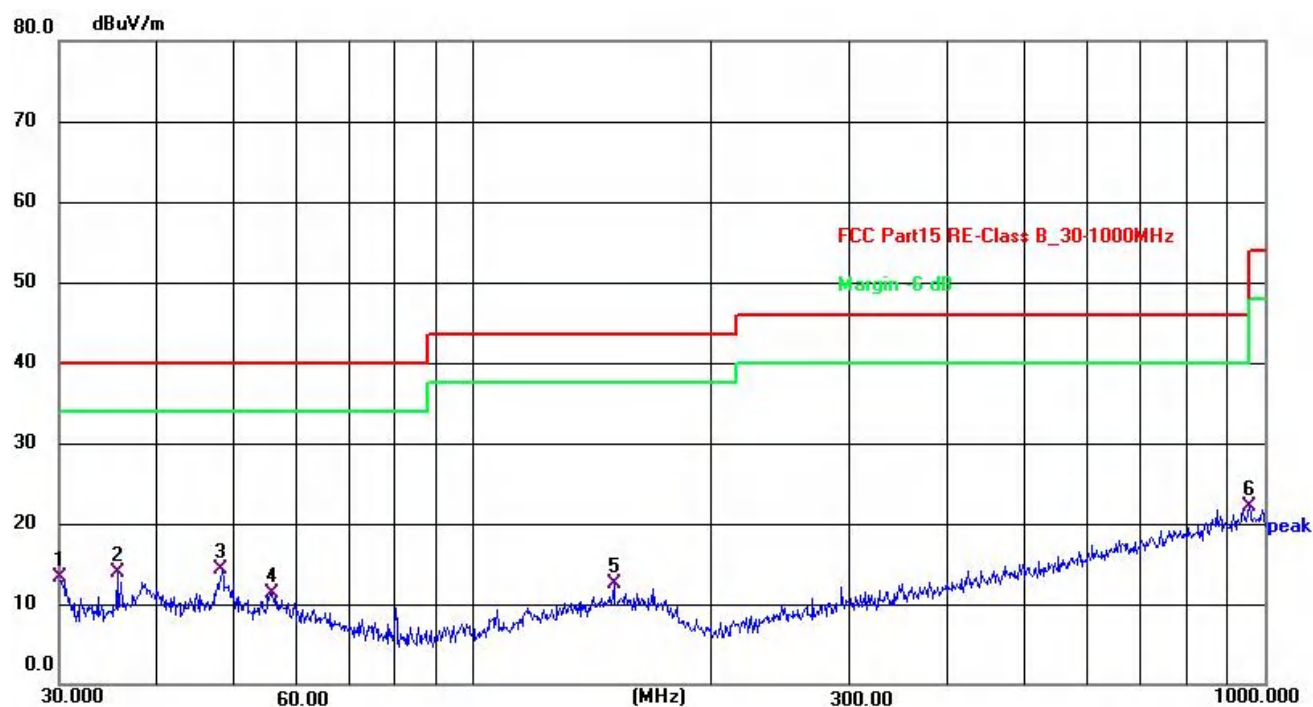
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.8860	31.96	-16.99	14.97	40.00	-25.03	QP
2	37.7988	29.29	-16.49	12.80	40.00	-27.20	QP
3	79.9963	33.49	-20.86	12.63	40.00	-27.37	QP
4	153.2003	28.11	-15.85	12.26	43.50	-31.24	QP
5	489.8850	28.45	-13.42	15.03	46.00	-30.97	QP
6	659.7610	30.03	-10.61	19.42	46.00	-26.58	QP

Note: Only the worst Data GFSK/2402MHz mode Record in the report.

Right Earphones:

Radiation Emission Test Data

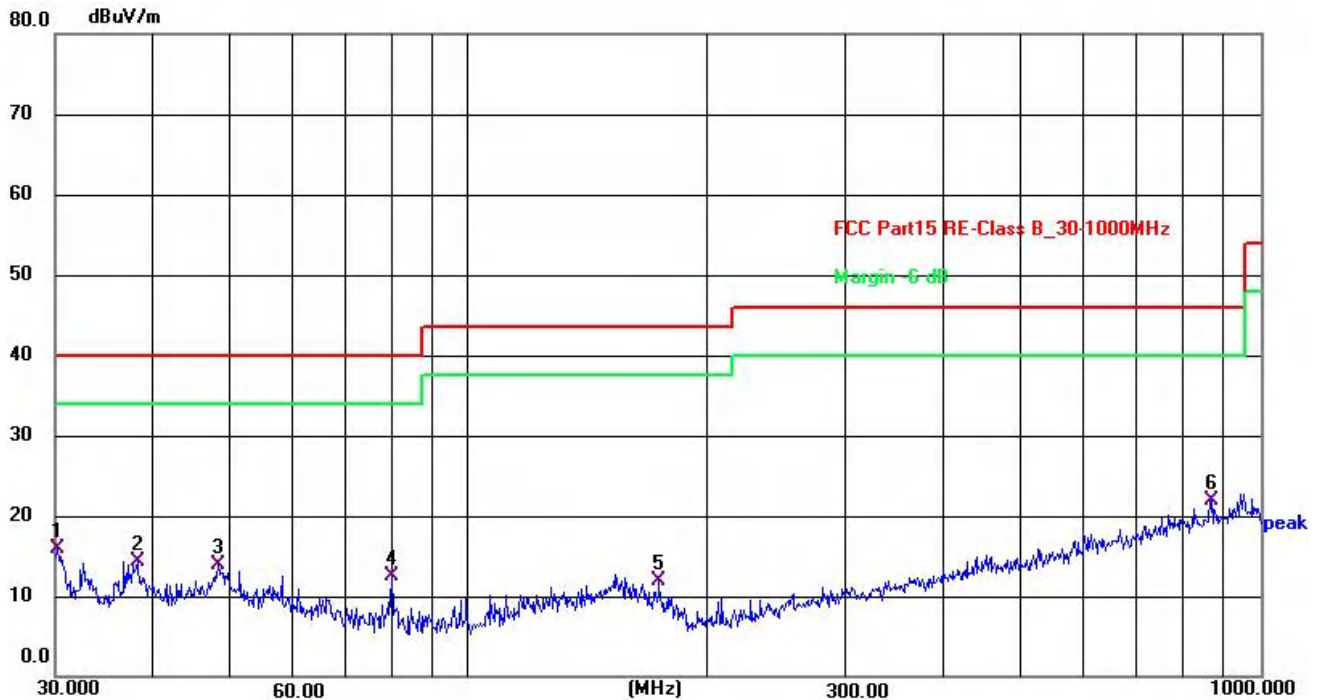
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	DC 3.7V	Test Mode	BT transmitting



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	30.32	-17.03	13.29	40.00	-26.71	QP
2	35.6114	30.60	-16.76	13.84	40.00	-26.16	QP
3	48.2639	30.93	-16.61	14.32	40.00	-25.68	QP
4	55.9222	28.51	-17.14	11.37	40.00	-28.63	QP
5	150.6962	28.30	-15.86	12.44	43.50	-31.06	QP
6 *	957.4504	29.02	-6.94	22.08	46.00	-23.92	QP

Radiation Emission Test Data

Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	DC 3.7V	Test Mode	BT transmitting



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.2323	32.83	-17.02	15.81	40.00	-24.19	QP
2	38.1050	30.73	-16.46	14.27	40.00	-25.73	QP
3	48.2301	30.60	-16.60	14.00	40.00	-26.00	QP
4	79.9683	33.42	-20.86	12.56	40.00	-27.44	QP
5	174.1184	29.21	-17.33	11.88	43.50	-31.62	QP
6 *	868.8255	29.98	-8.04	21.94	46.00	-24.06	QP

Note: Only the worst Data GFSK/2402MHz mode Record in the report.

Test Frequency 1GHz-25GHz:

GFSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	54.71	30.55	5.77	24.66	54.59	74.00	-19.41	Pk
V	4804.00	43.86	30.55	5.77	24.66	43.74	54.00	-10.26	AV
V	7206.00	52.37	30.33	6.32	24.55	52.91	74.00	-21.09	Pk
V	7206.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
V	9608.00	52.95	30.85	7.45	24.69	54.24	74.00	-19.76	Pk
V	9608.00	43.49	30.85	7.45	24.69	44.78	54.00	-9.22	AV
V	12010.00	52.71	31.02	8.99	25.57	56.25	74.00	-17.75	Pk
V	12010.00	43.18	31.02	8.99	25.57	46.72	54.00	-7.28	AV
H	4804.00	51.16	30.55	5.77	24.66	51.04	74.00	-22.96	Pk
H	4804.00	43.56	30.55	5.77	24.66	43.44	54.00	-10.56	AV
H	7206.00	52.78	30.33	6.32	24.55	53.32	74.00	-20.68	Pk
H	7206.00	43.69	30.33	6.32	24.55	44.23	54.00	-9.77	AV
H	9608.00	50.80	30.85	7.45	24.69	52.09	74.00	-21.91	Pk
H	9608.00	43.85	30.85	7.45	24.69	45.14	54.00	-8.86	AV
H	12010.00	53.43	31.02	8.99	25.57	56.97	74.00	-17.03	Pk
H	12010.00	43.78	31.02	8.99	25.57	47.32	54.00	-6.68	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	51.52	30.55	5.77	24.66	51.40	74.00	-22.60	Pk
V	4882.00	43.64	30.55	5.77	24.66	43.52	54.00	-10.48	AV
V	7323.00	53.43	30.33	6.32	24.55	53.97	74.00	-20.03	Pk
V	7323.00	43.32	30.33	6.32	24.55	43.86	54.00	-10.14	AV
V	9764.00	51.78	30.85	7.45	24.69	53.07	74.00	-20.93	Pk
V	9764.00	43.60	30.85	7.45	24.69	44.89	54.00	-9.11	AV
V	12205.00	52.15	31.02	8.99	25.57	55.69	74.00	-18.31	Pk
V	12205.00	43.03	31.02	8.99	25.57	46.57	54.00	-7.43	AV
H	4882.00	52.75	30.55	5.77	24.66	52.63	74.00	-21.37	Pk
H	4882.00	43.49	30.55	5.77	24.66	43.37	54.00	-10.63	AV
H	7323.00	50.66	30.33	6.32	24.55	51.20	74.00	-22.80	Pk
H	7323.00	43.77	30.33	6.32	24.55	44.31	54.00	-9.69	AV
H	9764.00	51.60	30.85	7.45	24.69	52.89	74.00	-21.11	Pk
H	9764.00	43.30	30.85	7.45	24.69	44.59	54.00	-9.41	AV
H	12205.00	50.90	31.02	8.99	25.57	54.44	74.00	-19.56	Pk
H	12205.00	43.89	31.02	8.99	25.57	47.43	54.00	-6.57	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	50.36	30.55	5.77	24.66	50.24	74.00	-23.76	Pk
V	4960.00	43.67	30.55	5.77	24.66	43.55	54.00	-10.45	AV
V	7440.00	52.25	30.33	6.32	24.55	52.79	74.00	-21.21	Pk
V	7440.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
V	9920.00	50.22	30.85	7.45	24.69	51.51	74.00	-22.49	Pk
V	9920.00	43.31	30.85	7.45	24.69	44.60	54.00	-9.40	AV
V	12400.00	52.62	31.02	8.99	25.57	56.16	74.00	-17.84	Pk
V	12400.00	43.32	31.02	8.99	25.57	46.86	54.00	-7.14	AV
H	4960.00	55.00	30.55	5.77	24.66	54.88	74.00	-19.12	Pk
H	4960.00	43.76	30.55	5.77	24.66	43.64	54.00	-10.36	AV
H	7440.00	51.90	30.33	6.32	24.55	52.44	74.00	-21.56	Pk
H	7440.00	43.59	30.33	6.32	24.55	44.13	54.00	-9.87	AV
H	9920.00	54.31	30.85	7.45	24.69	55.60	74.00	-18.40	Pk
H	9920.00	43.19	30.85	7.45	24.69	44.48	54.00	-9.52	AV
H	12400.00	51.32	31.02	8.99	25.57	54.86	74.00	-19.14	Pk
H	12400.00	43.71	31.02	8.99	25.57	47.25	54.00	-6.75	AV

- Note: 1. The testing has been conformed to 10*2480MHz=24800MHz.
2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
Margin=Emission Level-Limit
4. All the modes have tested and recorded the worst mode(GFSK) in the report

Band Edge:

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margi n (dB)	Detec tor Type	Result
GFSK	Low Channel: 2402MHz										
	H	2310.00	55.31	30.22	4.85	23.98	53.92	74.00	-20.08	PK	PASS
	H	2310.00	44.12	30.22	4.85	23.98	42.73	54.00	-11.27	AV	PASS
	H	2390.00	54.17	30.22	4.85	23.98	52.78	74.00	-21.22	PK	PASS
	H	2390.00	44.09	30.22	4.85	23.98	42.70	54.00	-11.30	AV	PASS
	H	2400.00	53.22	30.22	4.85	23.98	51.83	74.00	-22.17	PK	PASS
	H	2400.00	44.37	30.22	4.85	23.98	42.98	54.00	-11.02	AV	PASS
	V	2310.00	53.43	30.22	4.85	23.98	52.04	74.00	-21.96	PK	PASS
	V	2310.00	44.42	30.22	4.85	23.98	43.03	54.00	-10.97	AV	PASS
	V	2390.00	53.46	30.22	4.85	23.98	52.07	74.00	-21.93	PK	PASS
	V	2390.00	44.14	30.22	4.85	23.98	42.75	54.00	-11.25	AV	PASS
	V	2400.00	53.40	30.22	4.85	23.98	52.01	74.00	-21.99	PK	PASS
	V	2400.00	44.29	30.22	4.85	23.98	42.90	54.00	-11.10	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	54.95	30.22	4.85	23.98	53.56	74.00	-20.44	PK	PASS
	H	2483.50	44.74	30.22	4.85	23.98	43.35	54.00	-10.65	AV	PASS
	H	2500.00	54.64	30.22	4.85	23.98	53.25	74.00	-20.75	PK	PASS
	H	2500.00	44.72	30.22	4.85	23.98	43.33	54.00	-10.67	AV	PASS
	V	2483.50	54.73	30.22	4.85	23.98	53.34	74.00	-20.66	PK	PASS
	V	2483.50	44.85	30.22	4.85	23.98	43.46	54.00	-10.54	AV	PASS
	V	2500.00	53.75	30.22	4.85	23.98	52.36	74.00	-21.64	PK	PASS
	V	2500.00	44.20	30.22	4.85	23.98	42.81	54.00	-11.19	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier;
Margin= Emission Level - Limit
2. Only the worst Data GFSK mode Record in the report

4. Maximum Peak Output Power

4.1. Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247, RSS-247 § 5.4(b)& RSS-Gen § 6.12

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10-2020+Cor.1-2023

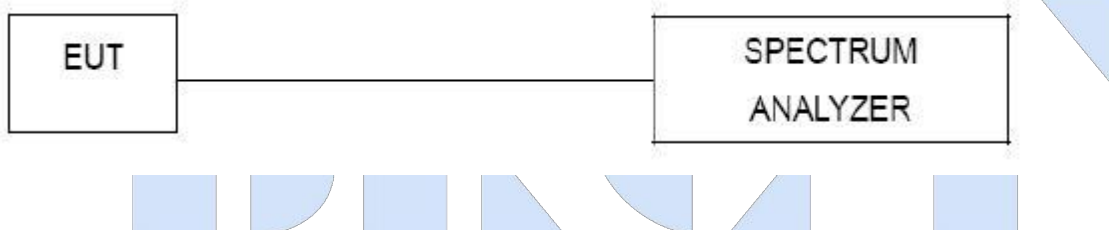
FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 21dBm	2400-2483.5	PASS

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

RSS-247 § 5.4

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W.

4.2. Test Setup

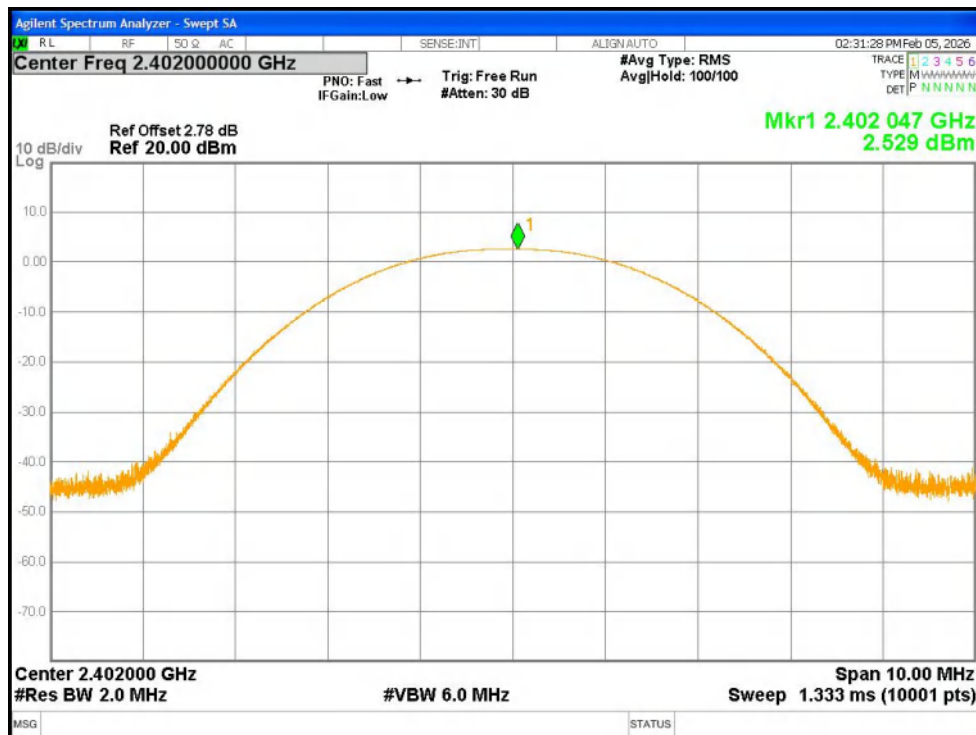


4.3. Test Procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above,
- Spectrum Setting:
RBW > the 20 dB bandwidth of the emission being measured
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

4.4. Test Result

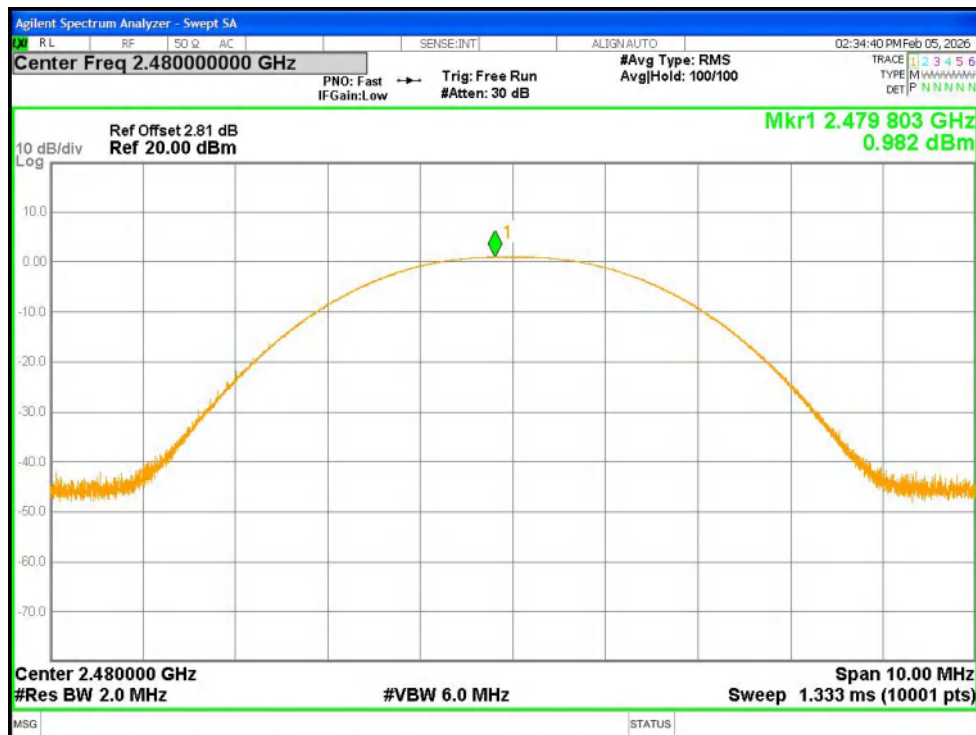
Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Antenna Gain(dBi)	Verdict
1-DH5	2402	Ant1	2.53	21	2.78	Pass
1-DH5	2441	Ant1	2.00	21	2.78	Pass
1-DH5	2480	Ant1	0.98	21	2.78	Pass
2-DH5	2402	Ant1	3.38	21	2.78	Pass
2-DH5	2441	Ant1	2.77	21	2.78	Pass
2-DH5	2480	Ant1	1.82	21	2.78	Pass
3-DH5	2402	Ant1	3.65	21	2.78	Pass
3-DH5	2441	Ant1	3.07	21	2.78	Pass
3-DH5	2480	Ant1	2.05	21	2.78	Pass



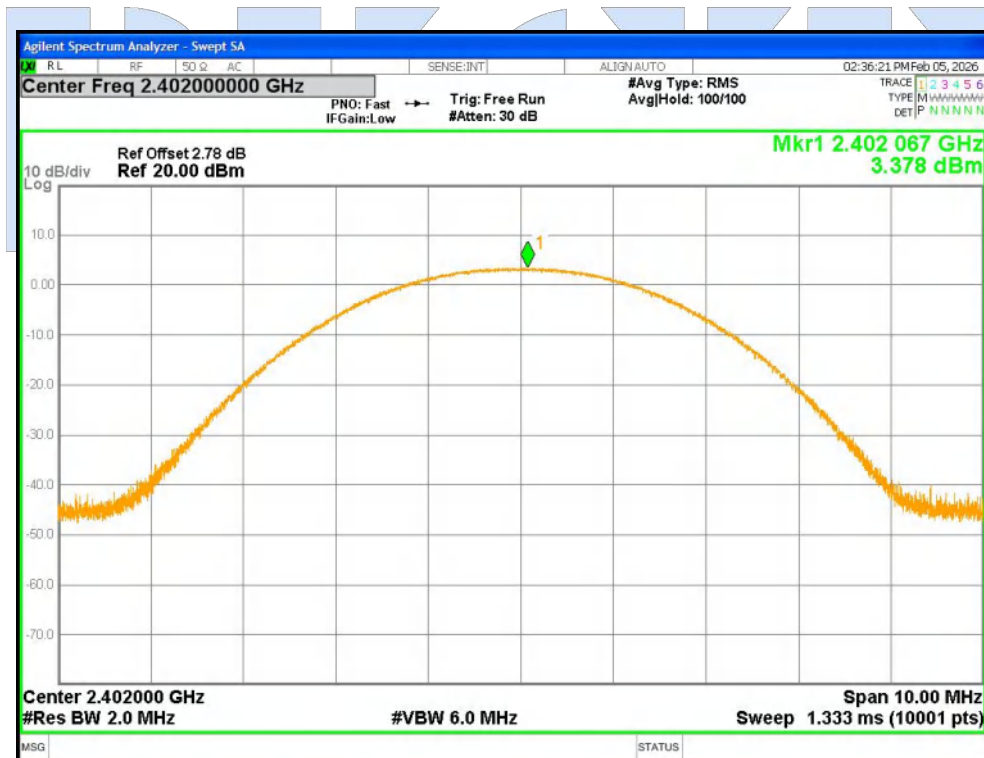
Peak Power NVNT 1-DH5 2402MHz Ant1



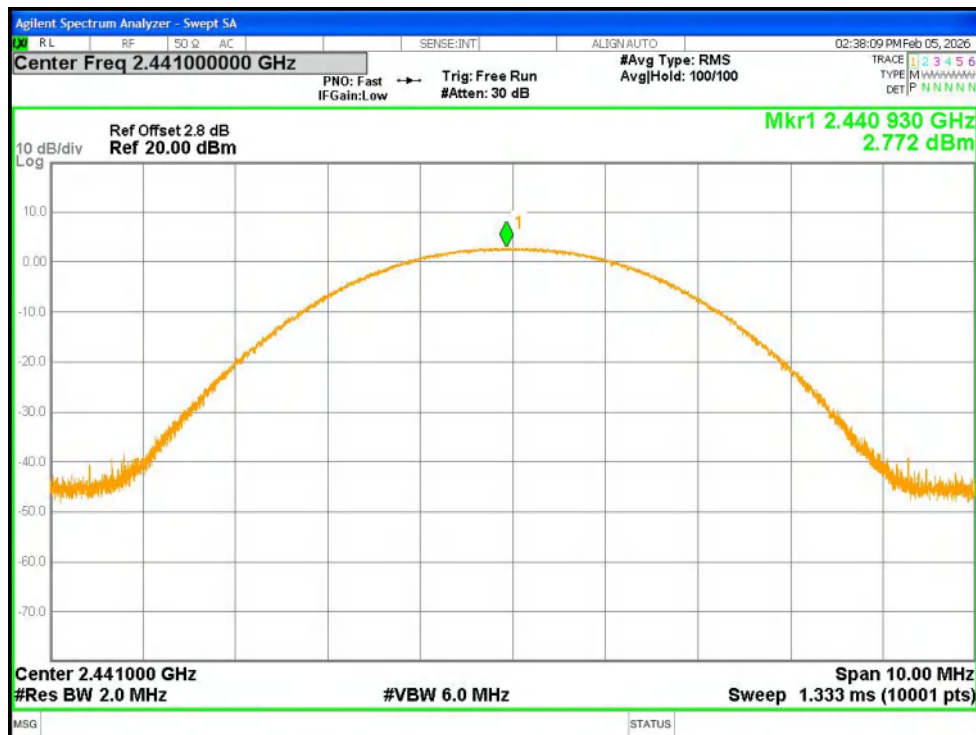
Peak Power NVNT 1-DH5 2441MHz Ant1



Peak Power NVNT 1-DH5 2480MHz Ant1



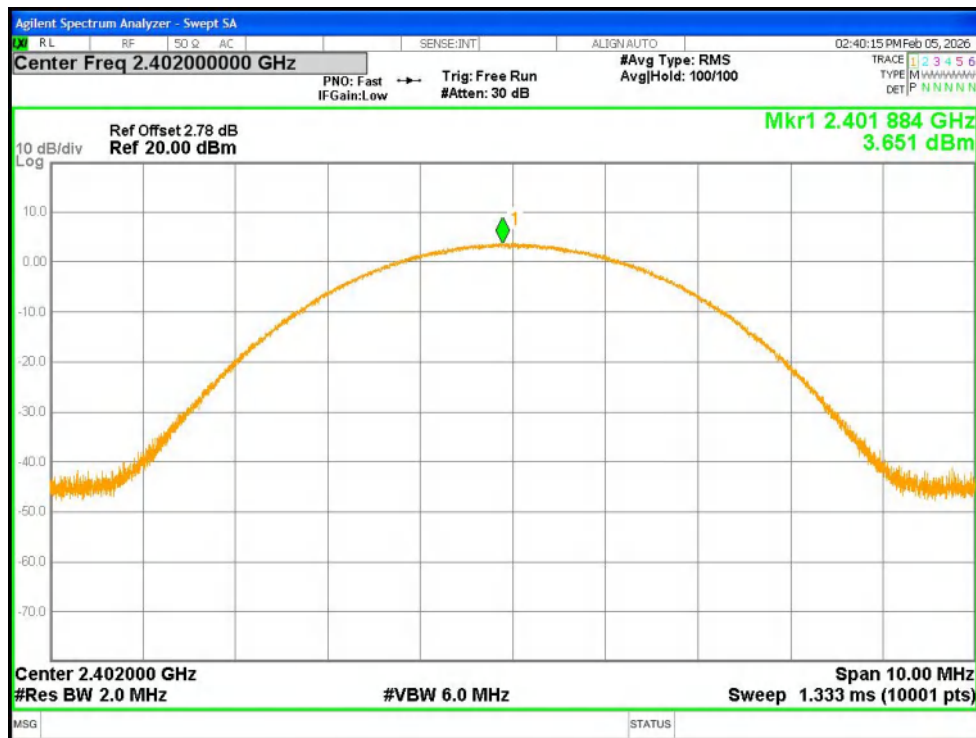
Peak Power NVNT 2-DH5 2402MHz Ant1



Peak Power NVNT 2-DH5 2441MHz Ant1



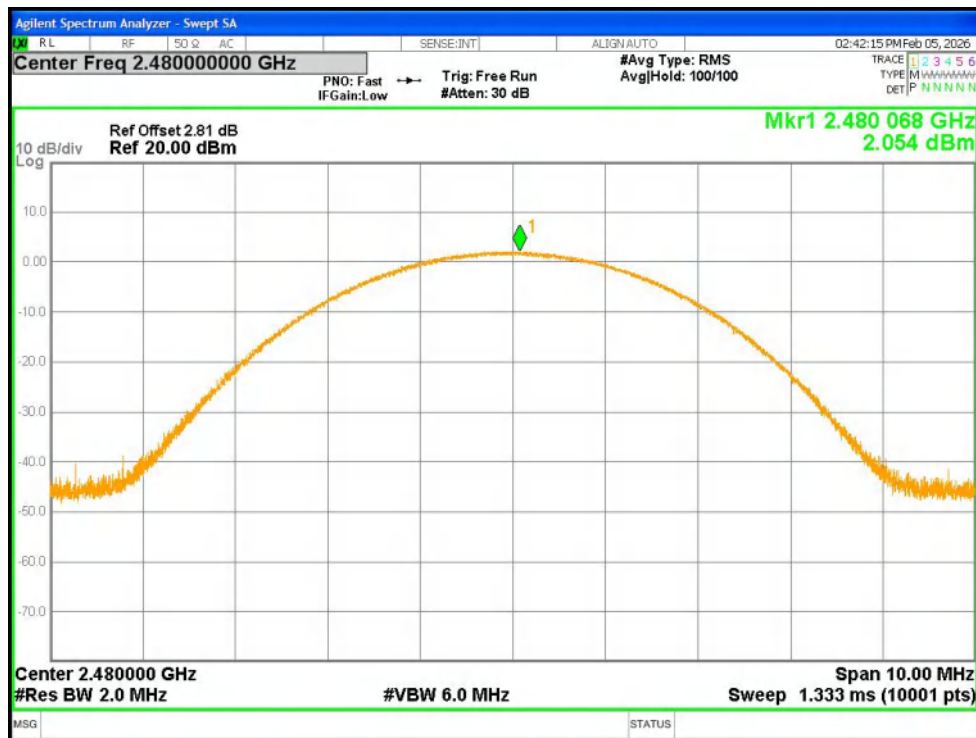
Peak Power NVNT 2-DH5 2480MHz Ant1



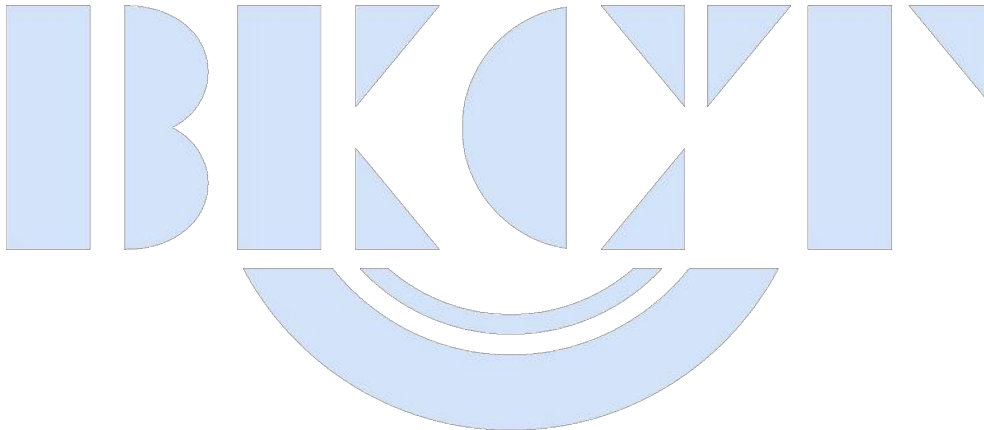
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



Peak Power NVNT 3-DH5 2480MHz Ant1



5. -20 dB Bandwidth Measurement

5.1. Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247, RSS-247 §5.1&RSS-Gen§6.7

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019; ANSI C63.10-2020+Cor.1-2023

5.2. Test Setup



5.3. Test Procedure

For 20dB Bandwidth Measurement

Using the following spectrum analyzer settings:

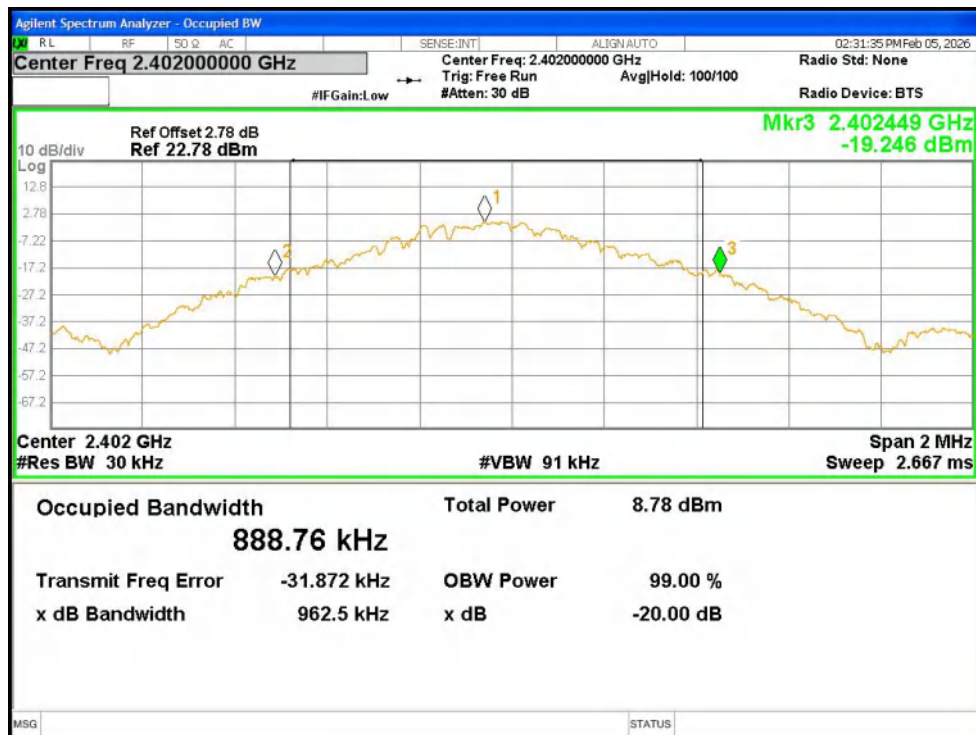
1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
2. Set the RBW = 30 kHz.
3. Set the VBW = 3*RBW.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

For 99% Bandwidth Measurement

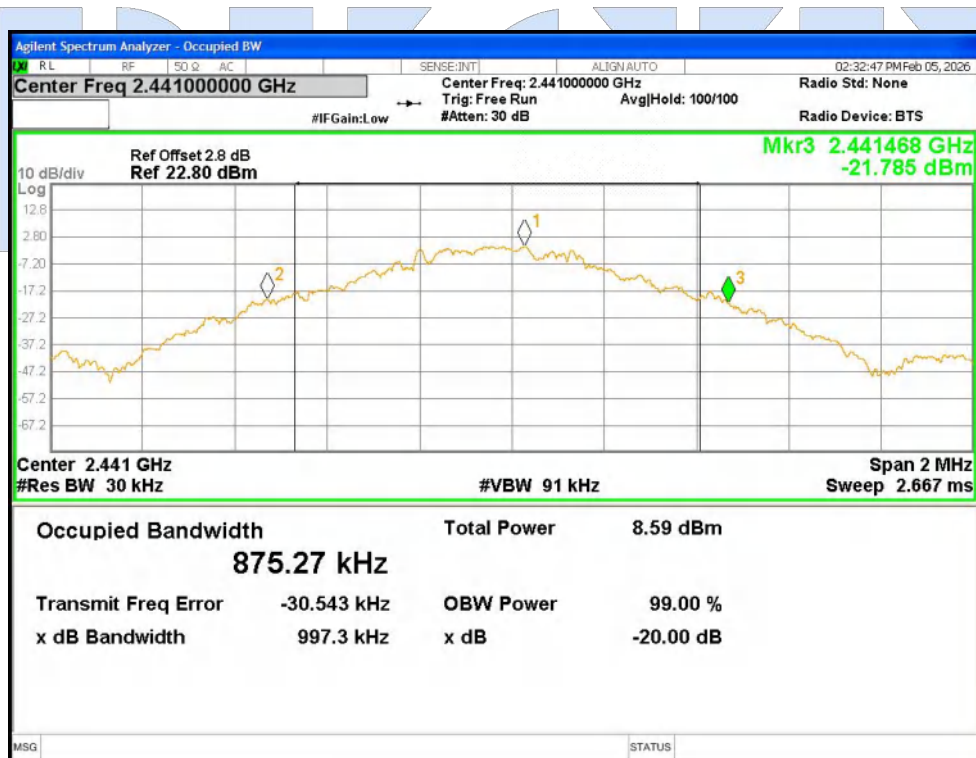
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1%-5% OBW, VBW ≥ 3RBW

5.4. Test Result

Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	99%Bandwidth (MHz)	Verdict
1-DH5	2402	Ant1	0.963	0.889	Pass
1-DH5	2441	Ant1	0.997	0.875	Pass
1-DH5	2480	Ant1	0.987	0.890	Pass
2-DH5	2402	Ant1	1.307	1.191	Pass
2-DH5	2441	Ant1	1.30	1.181	Pass
2-DH5	2480	Ant1	1.314	1.193	Pass
3-DH5	2402	Ant1	1.302	1.182	Pass
3-DH5	2441	Ant1	1.302	1.197	Pass
3-DH5	2480	Ant1	1.313	1.213	Pass



-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



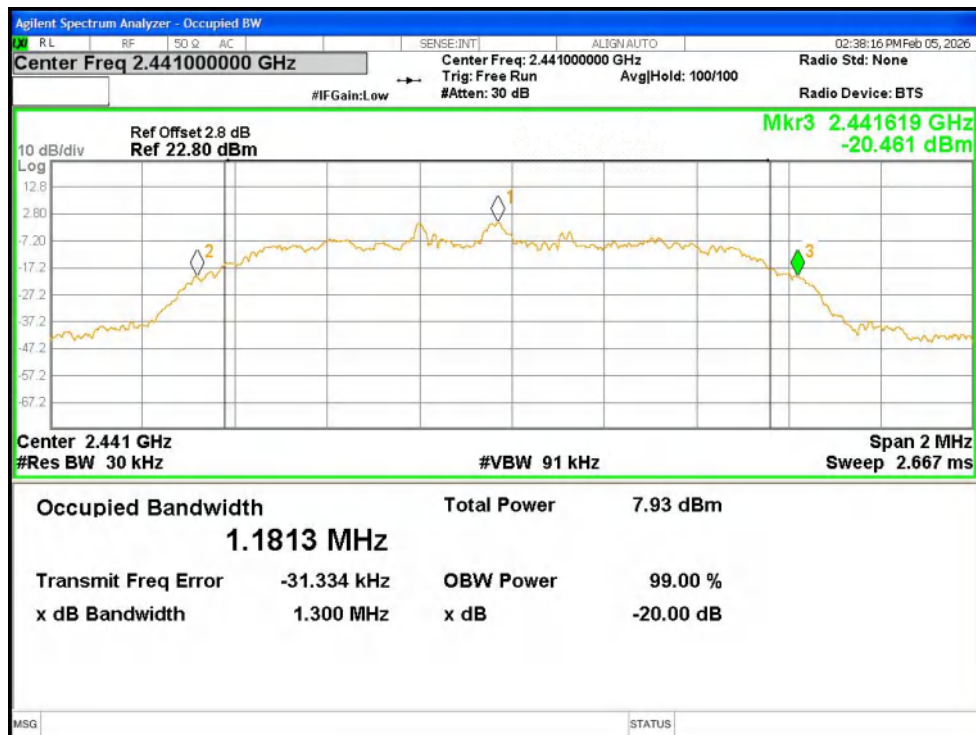
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



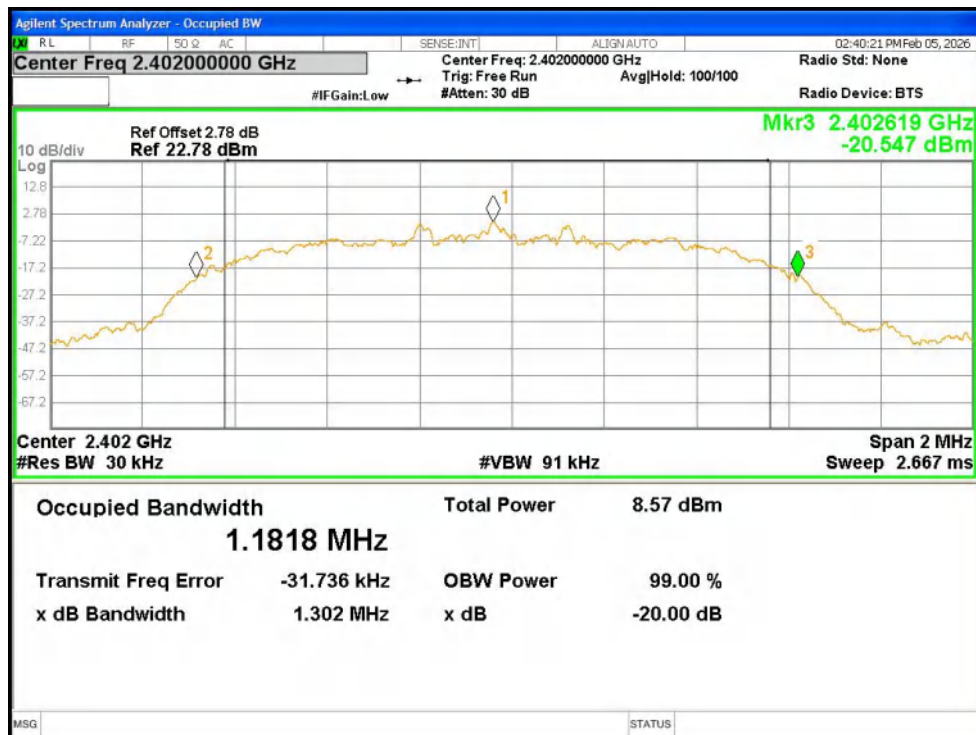
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



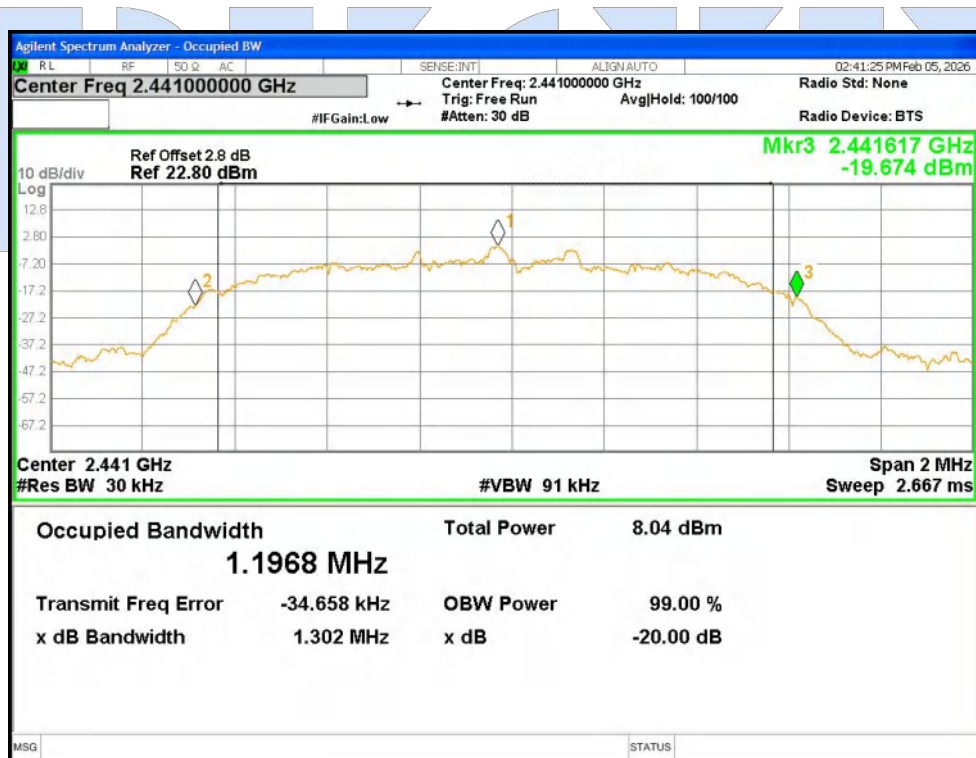
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



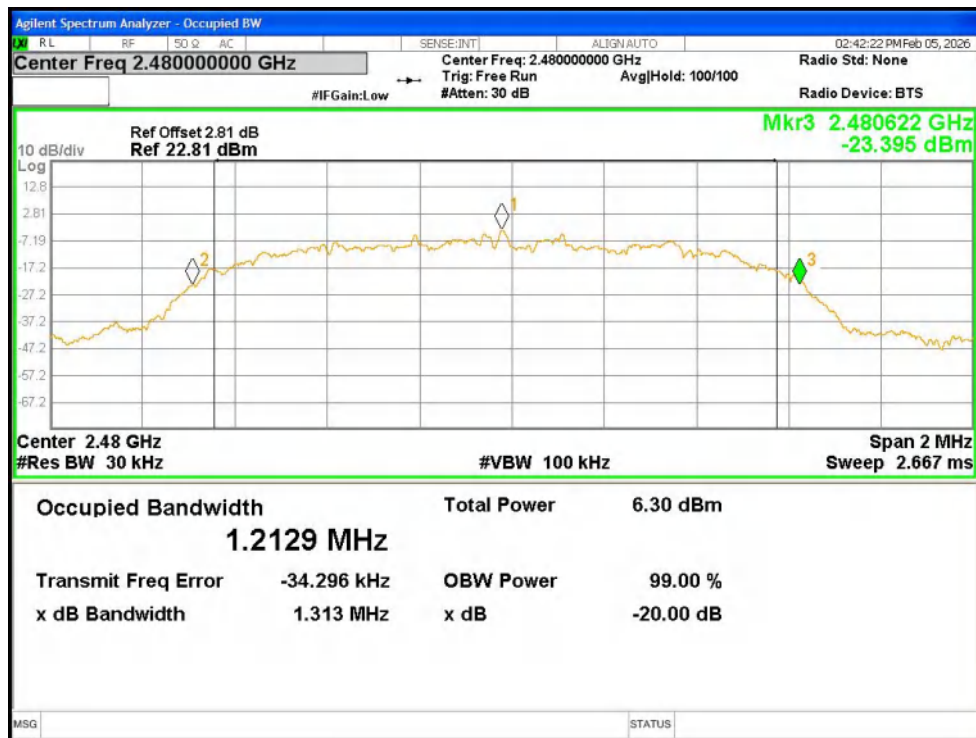
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



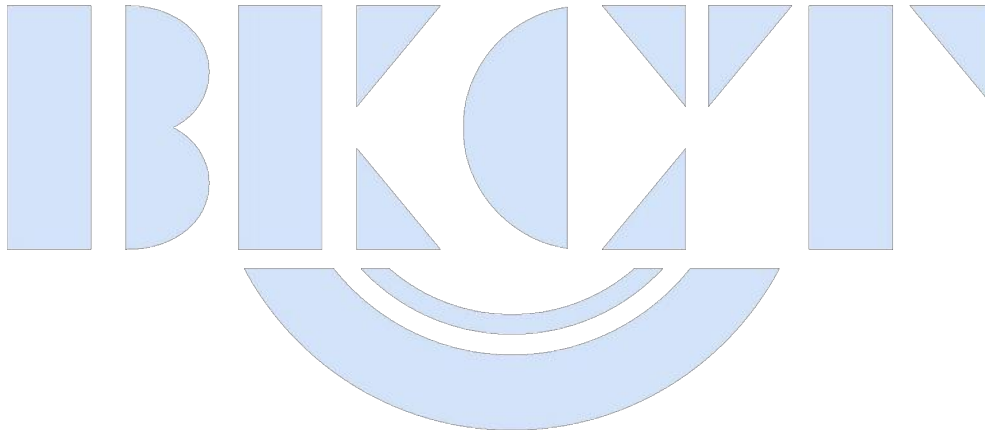
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



6. Carrier Frequency Separation Test

6.1. Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1), RSS-247 §5.1(4)
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth

6.2. Test Setup



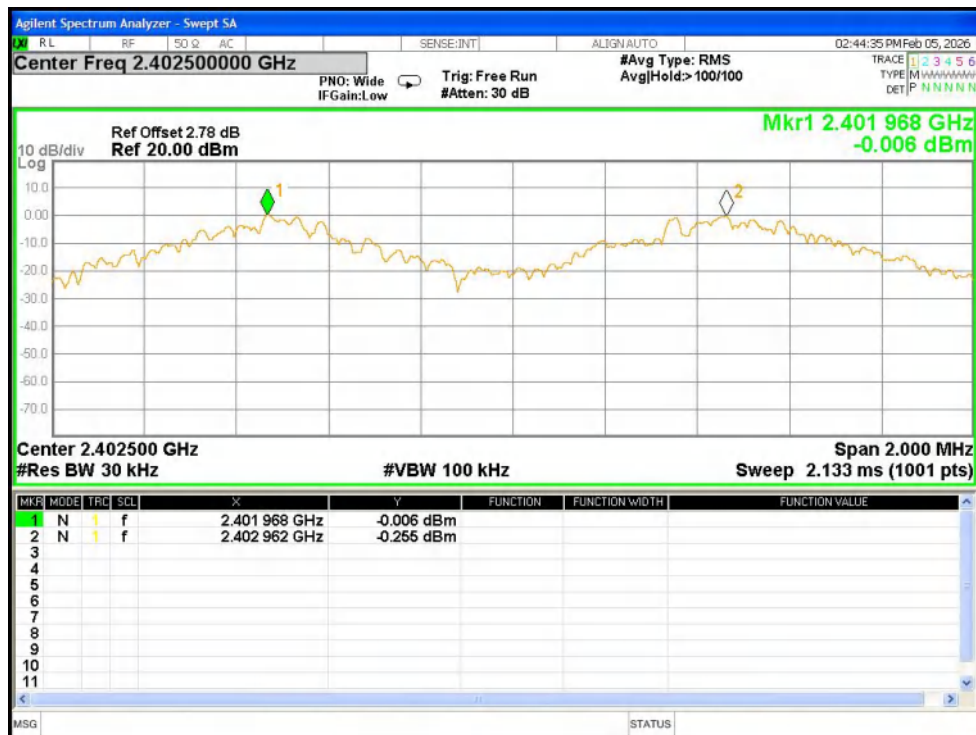
6.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

1. Span= Wide enough to capture the peaks of two adjacent channels
2. Set the RBW = 30 kHz.
3. Set the VBW = 100 kHz.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

6.4. Test Result

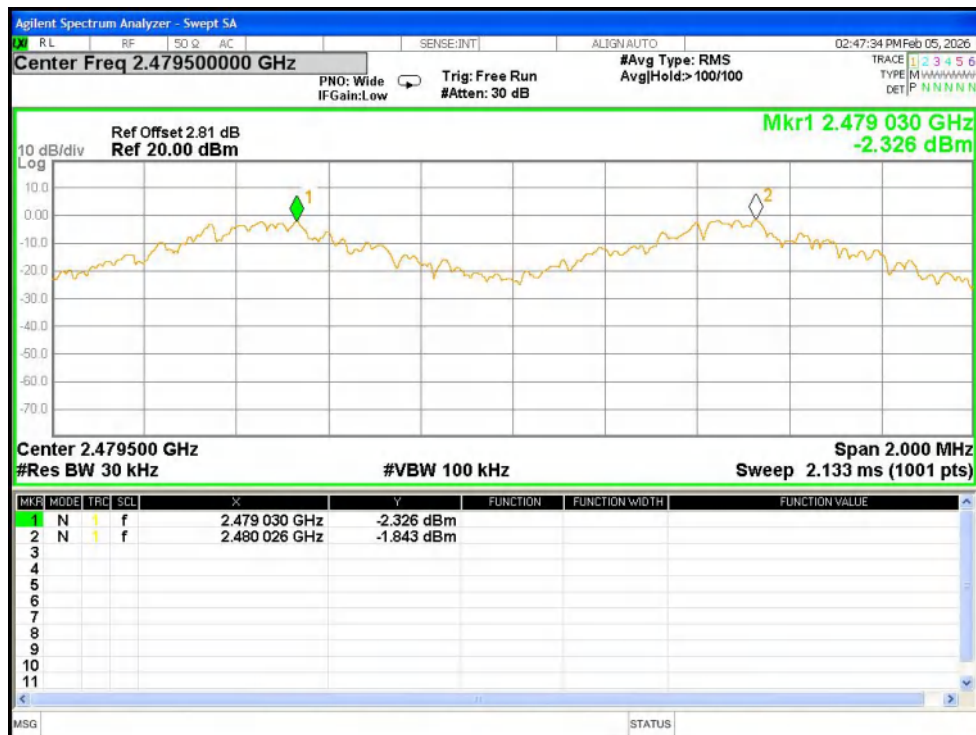
Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2401.968	2402.962	0.994	0.642	Pass
1-DH5	2440.862	2441.974	1.112	0.665	Pass
1-DH5	2479.03	2480.026	0.996	0.658	Pass
2-DH5	2401.96	2403.126	1.166	0.871	Pass
2-DH5	2440.822	2441.8	0.978	0.867	Pass
2-DH5	2478.96	2479.966	1.006	0.876	Pass
3-DH5	2402.112	2403.096	0.984	0.868	Pass
3-DH5	2440.802	2441.97	1.168	0.868	Pass
3-DH5	2478.968	2480.138	1.17	0.875	Pass



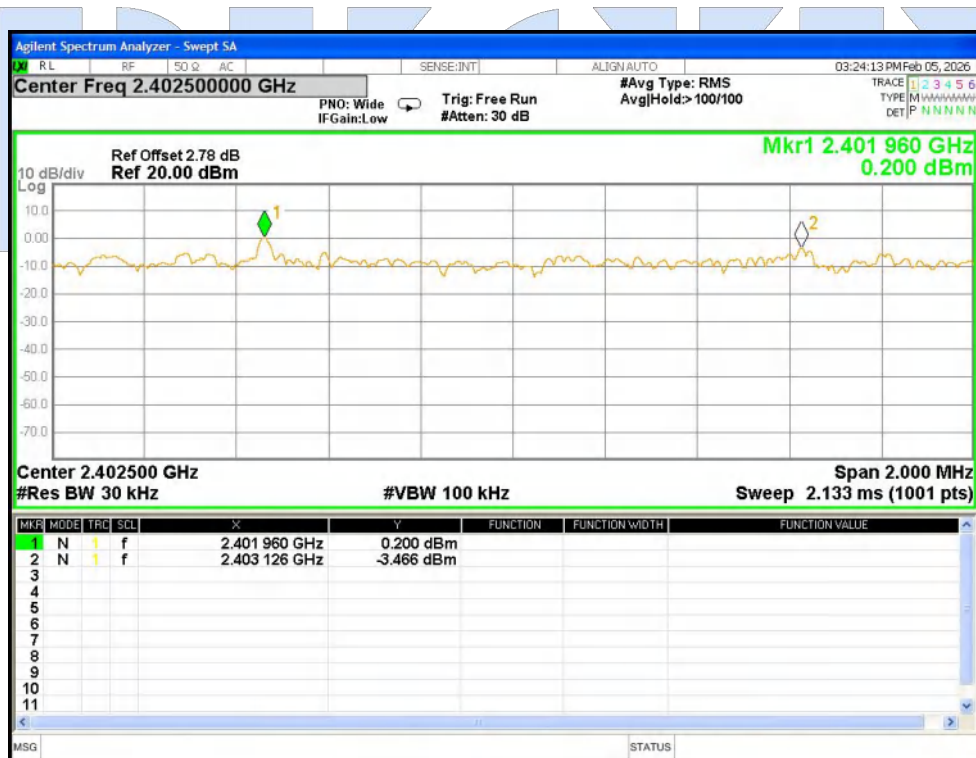
CFS NVNT 1-DH5 2402MHz Ant1



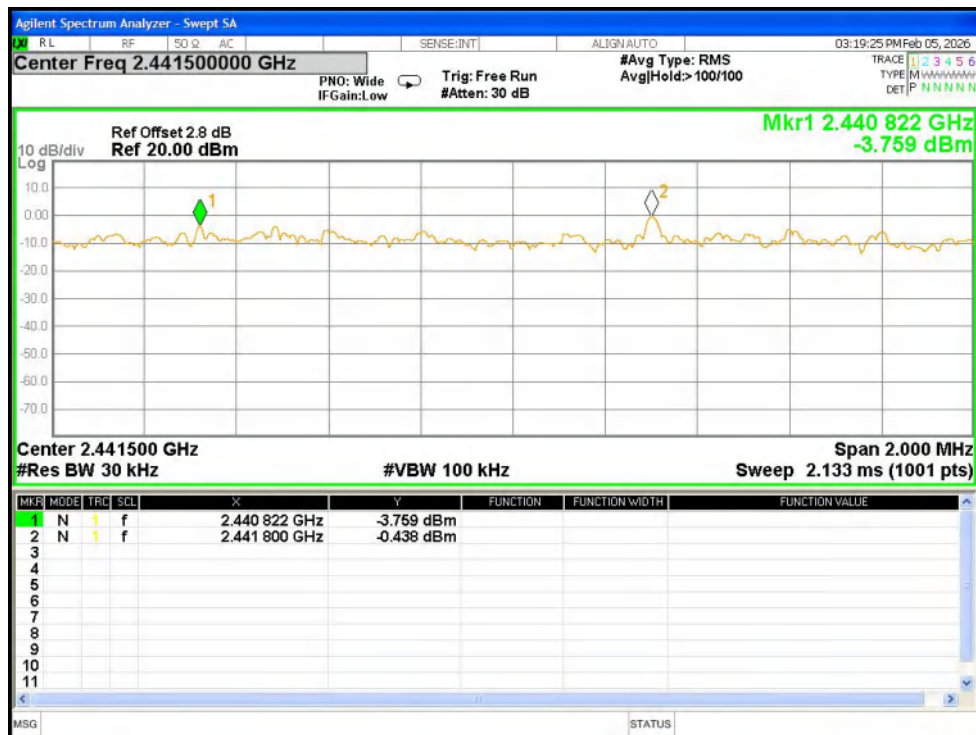
CFS NVNT 1-DH5 2441MHz Ant1



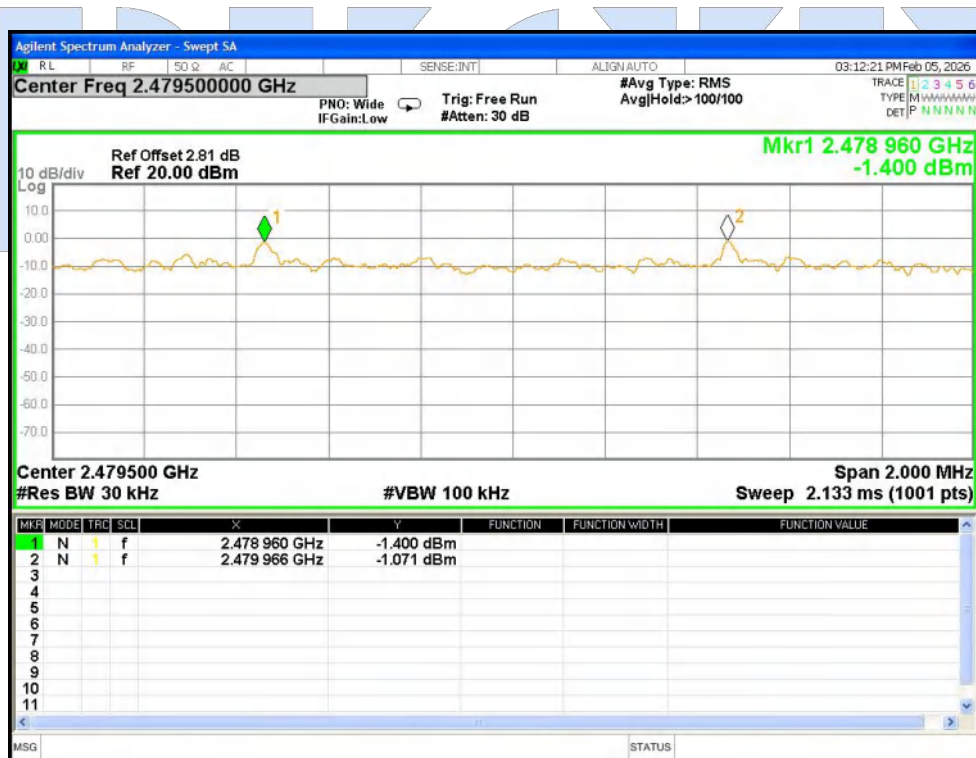
CFS NVNT 1-DH5 2480MHz Ant1



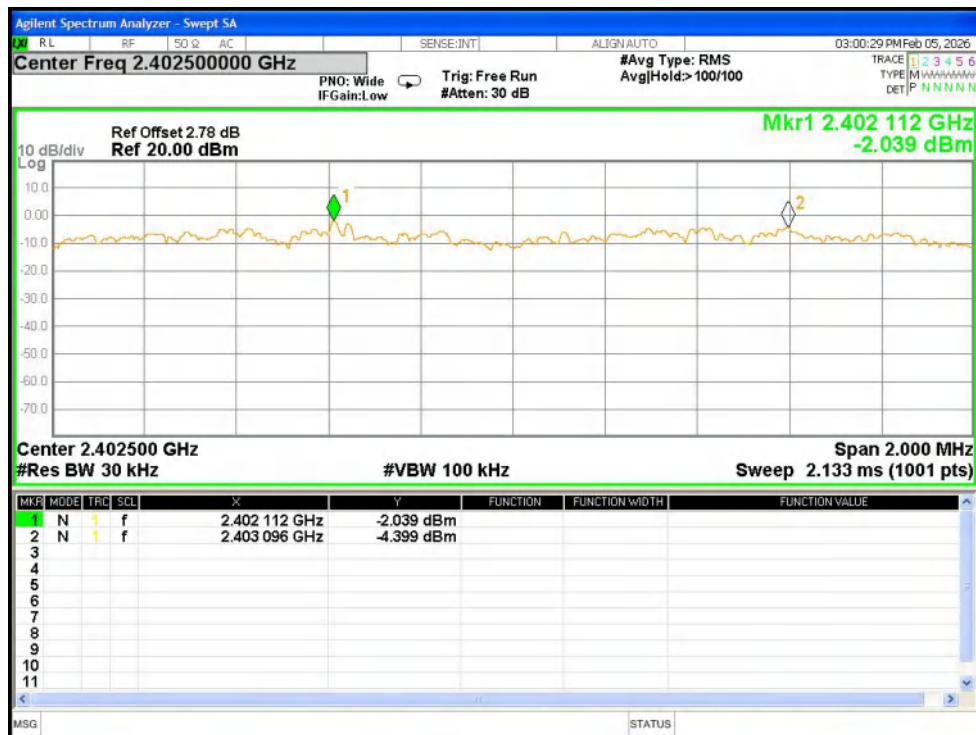
CFS NVNT 2-DH5 2402MHz Ant1



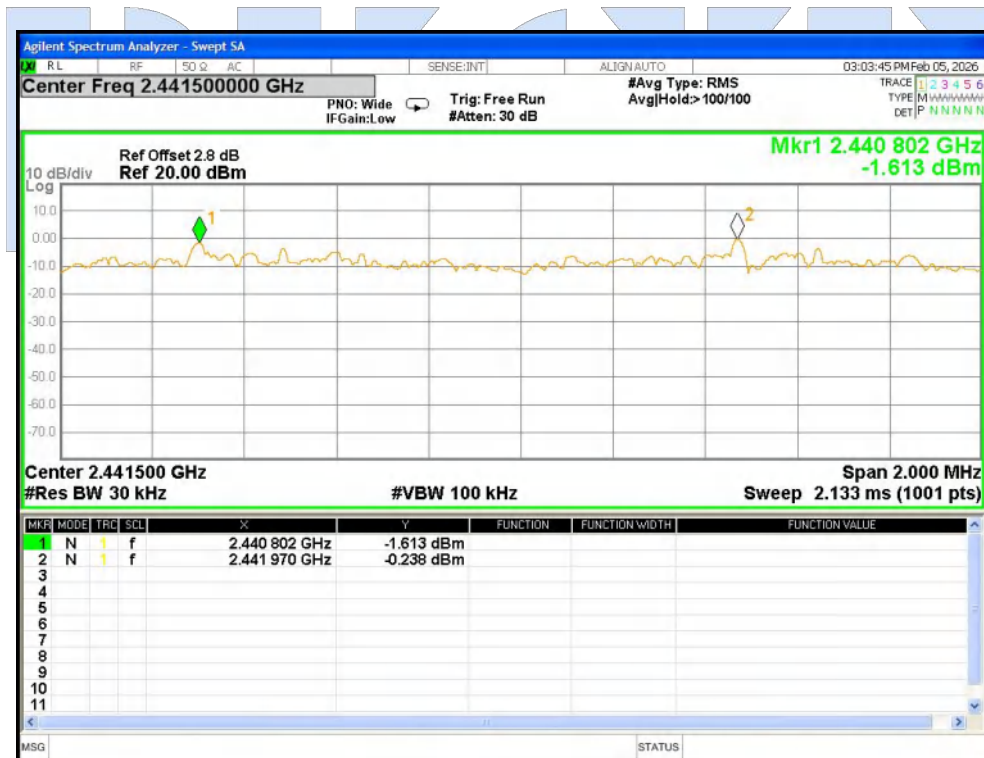
CFS NVNT 2-DH5 2441MHz Ant1



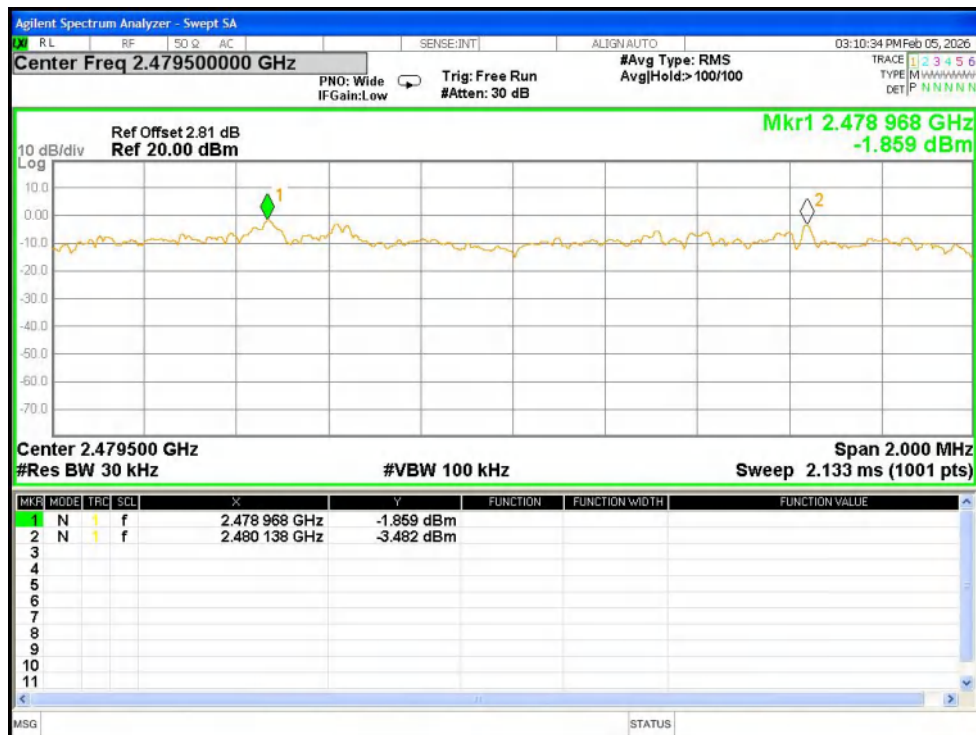
CFS NVNT 2-DH5 2480MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1



7. Number of Hopping Channel Test

7.1. Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1), RSS-247 §5.1
Test Limit	>15 channels

7.2. Test Setup



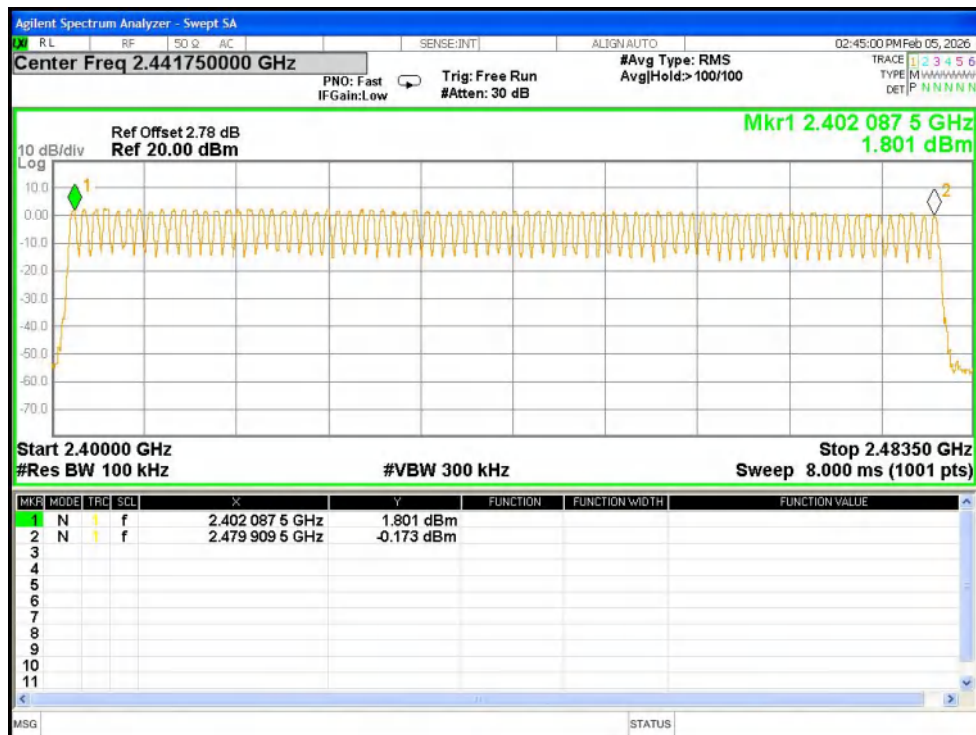
7.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

1. Span= Wide enough to capture the peaks of two adjacent channels
2. Set the RBW = 100 kHz.
3. Set the VBW = 300 kHz.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

7.4. Test Result

Mode	Hopping Number	Limit	Verdict
1-DH5	79	15	Pass
2-DH5	79	15	Pass
3-DH5	79	15	Pass



Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1



8. Dwell Time Test

8.1. Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1), RSS-247 §5.1
Test Limit	0.4 sec

8.2. Test setup



8.3. Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

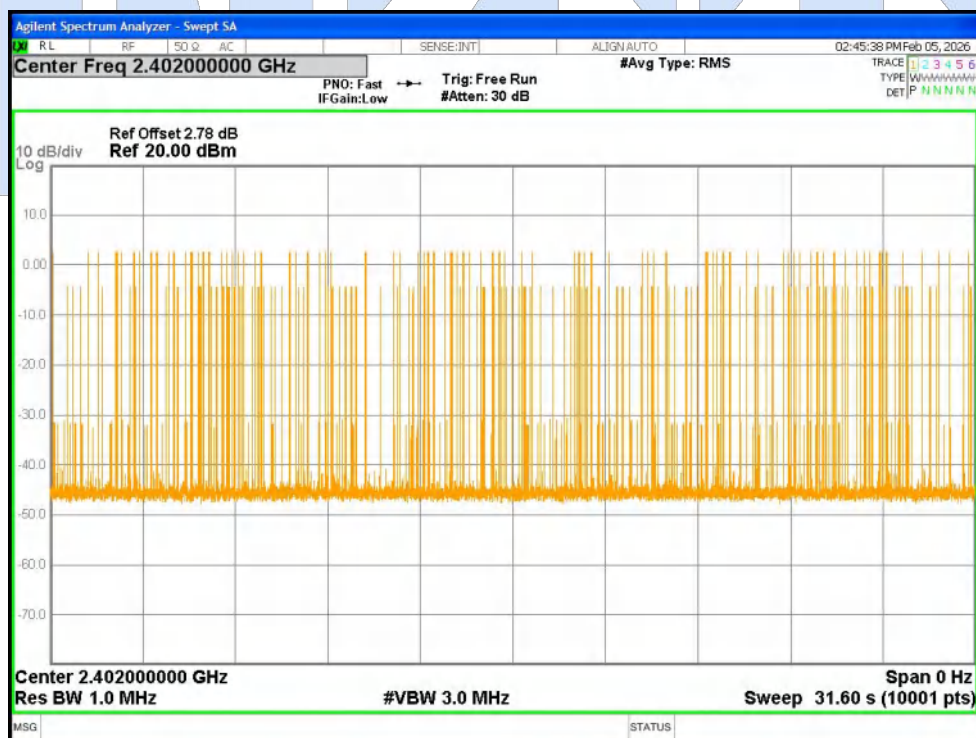
1. Span= zero span, centered on a hopping channel
2. Set the RBW = 1 MHz.
3. Set the VBW = 3 MHz.
4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

8.4. Test Result

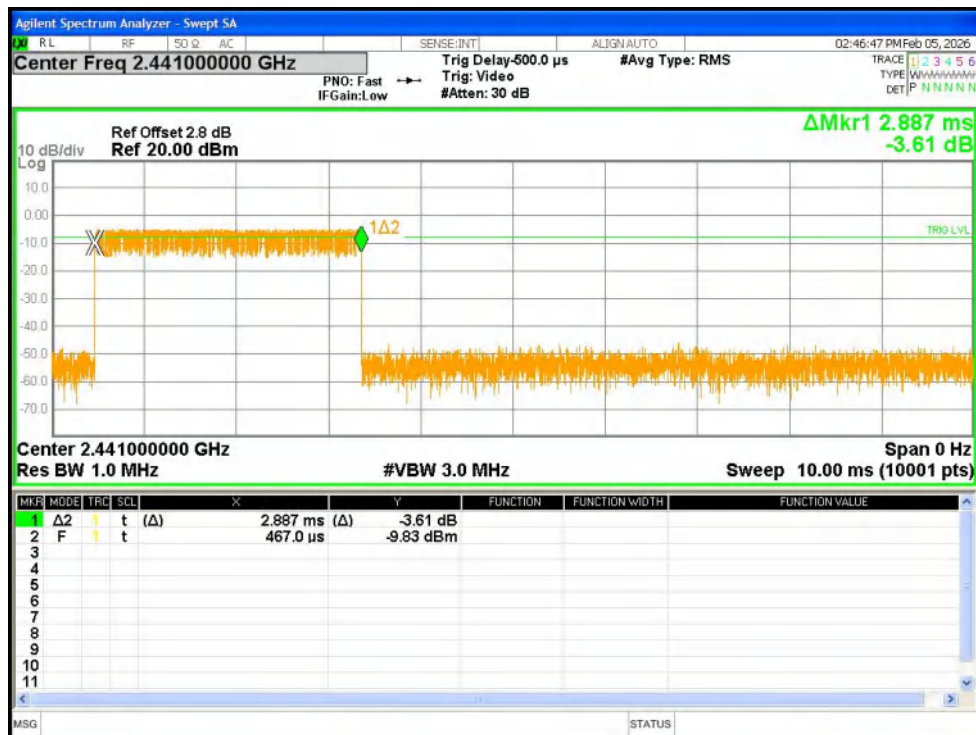
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH5	2402	2.887	288.7	100	31600	400	Pass
1-DH5	2441	2.887	303.135	105	31600	400	Pass
1-DH5	2480	2.887	323.344	112	31600	400	Pass
2-DH5	2402	2.892	318.12	110	31600	400	Pass
2-DH5	2441	2.892	318.12	110	31600	400	Pass
2-DH5	2480	2.891	297.773	103	31600	400	Pass
3-DH5	2402	2.893	283.514	98	31600	400	Pass
3-DH5	2441	2.893	271.942	94	31600	400	Pass
3-DH5	2480	2.893	251.691	87	31600	400	Pass



Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



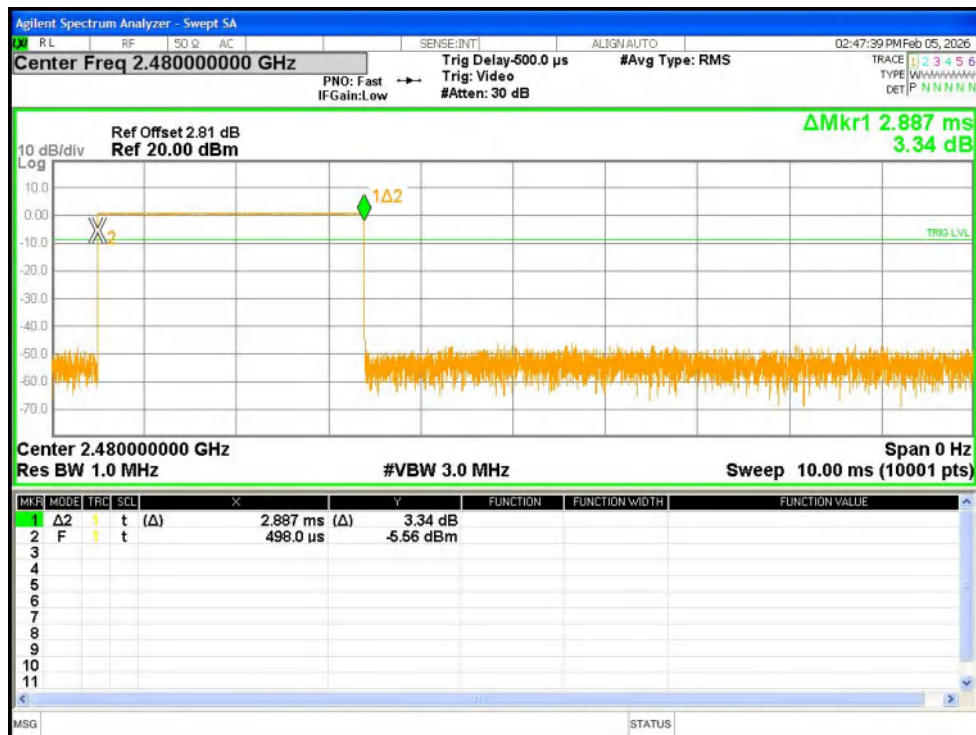
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



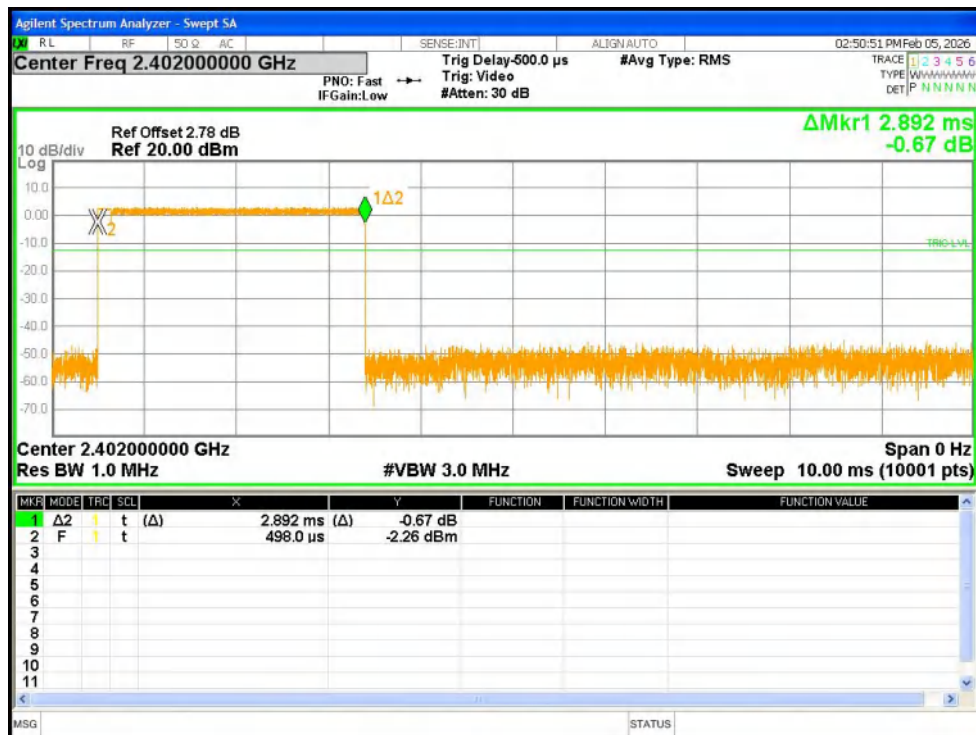
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2480MHz Ant1 One Burst



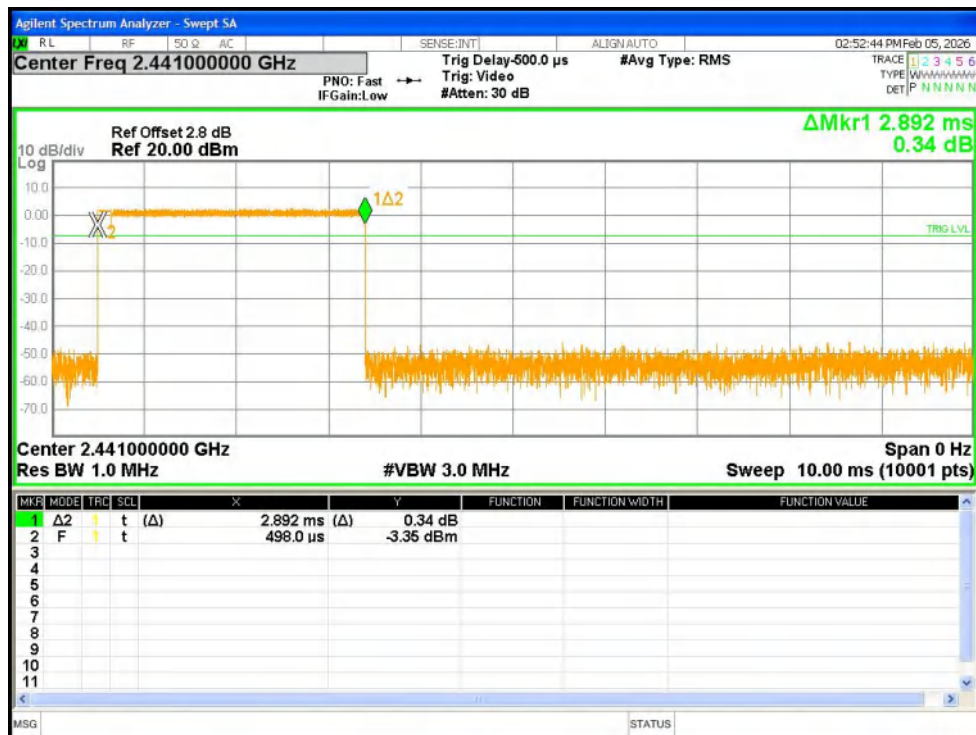
Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated



Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



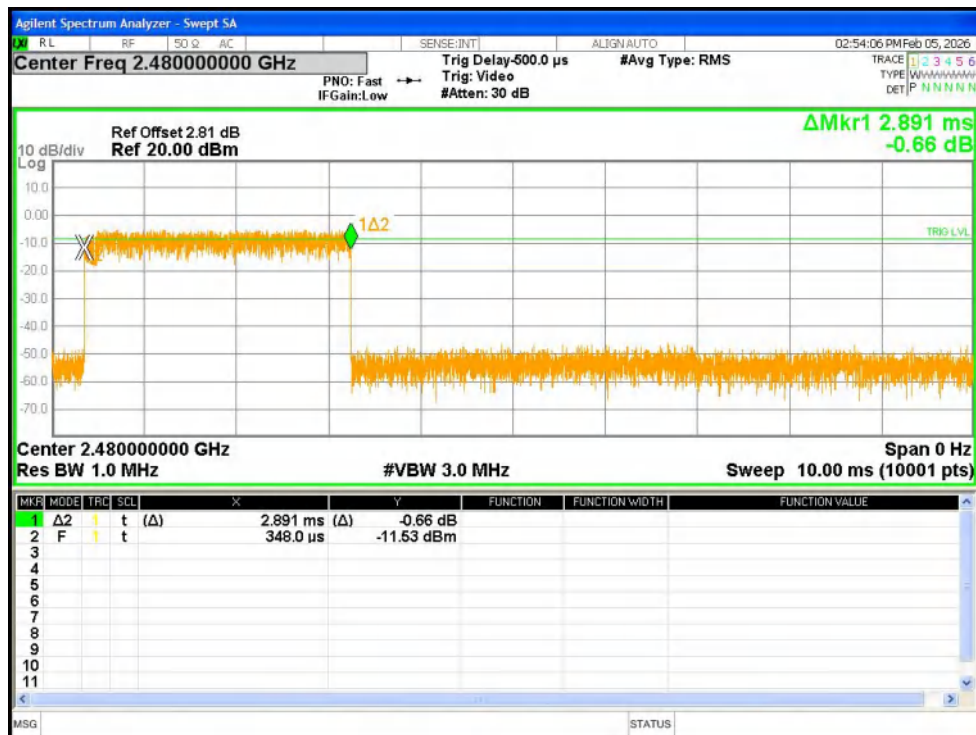
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



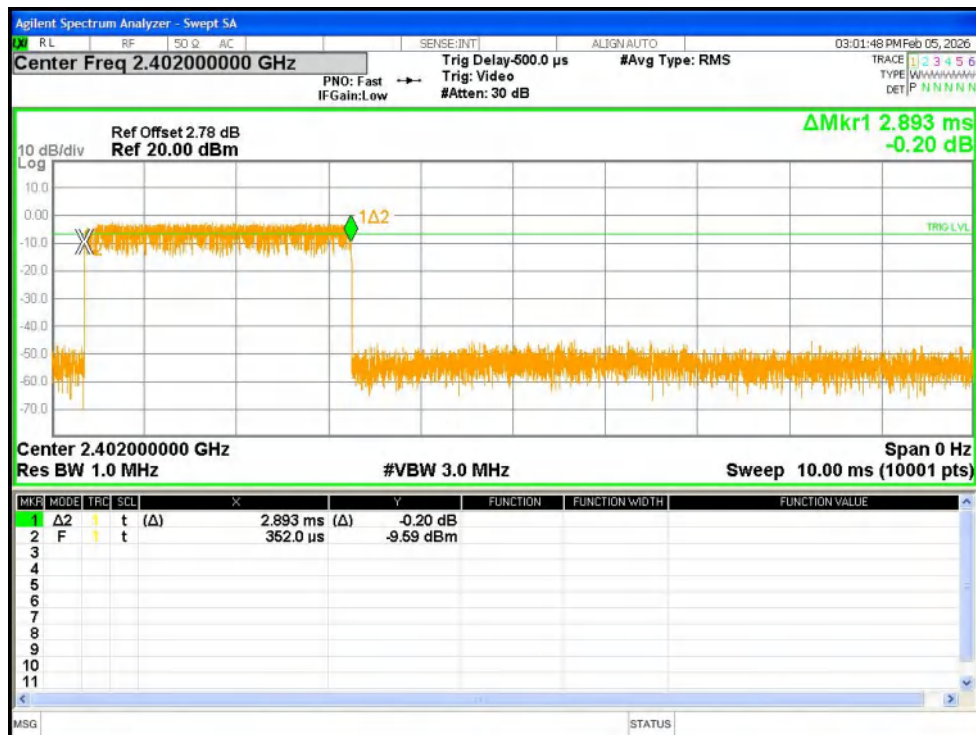
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



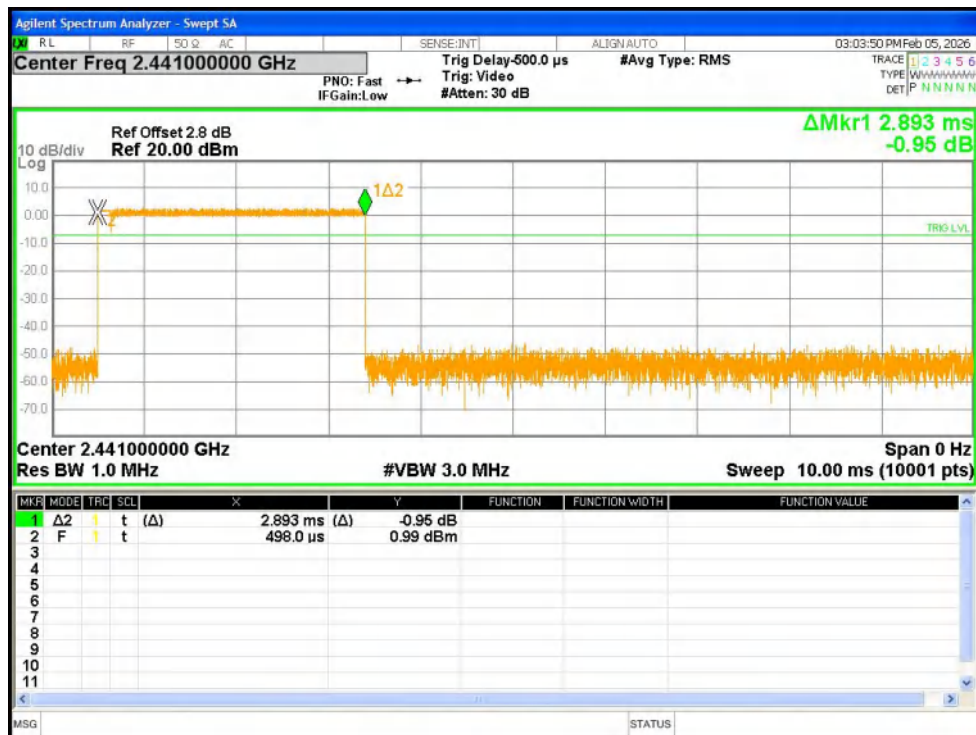
Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



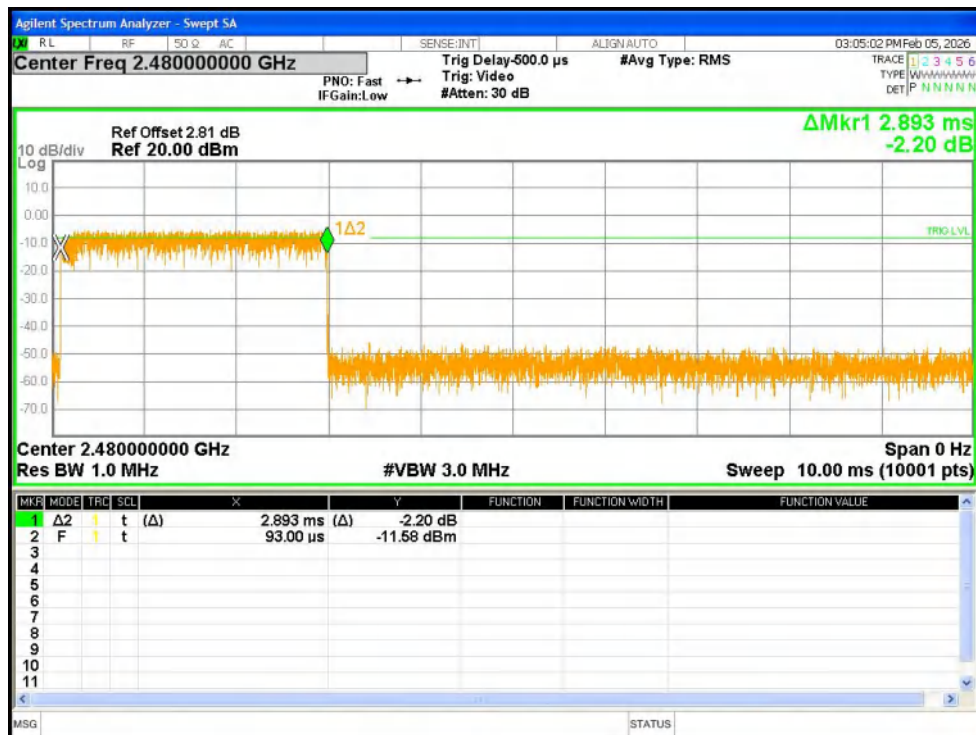
Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



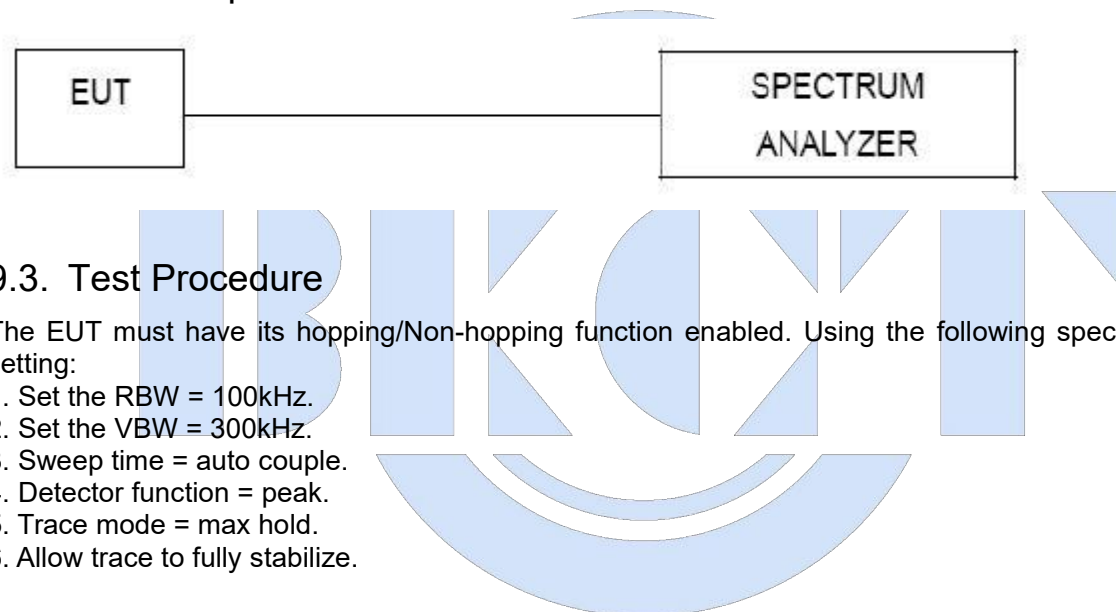
Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated

9. Conducted Spurious Emissions and Band Edge Requirement

9.1. Limit

Test Standard	FCC Part15 C Section 15.247 (d), RSS-247 §5.5
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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).

9.2. Test Setup



9.3. Test Procedure

The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

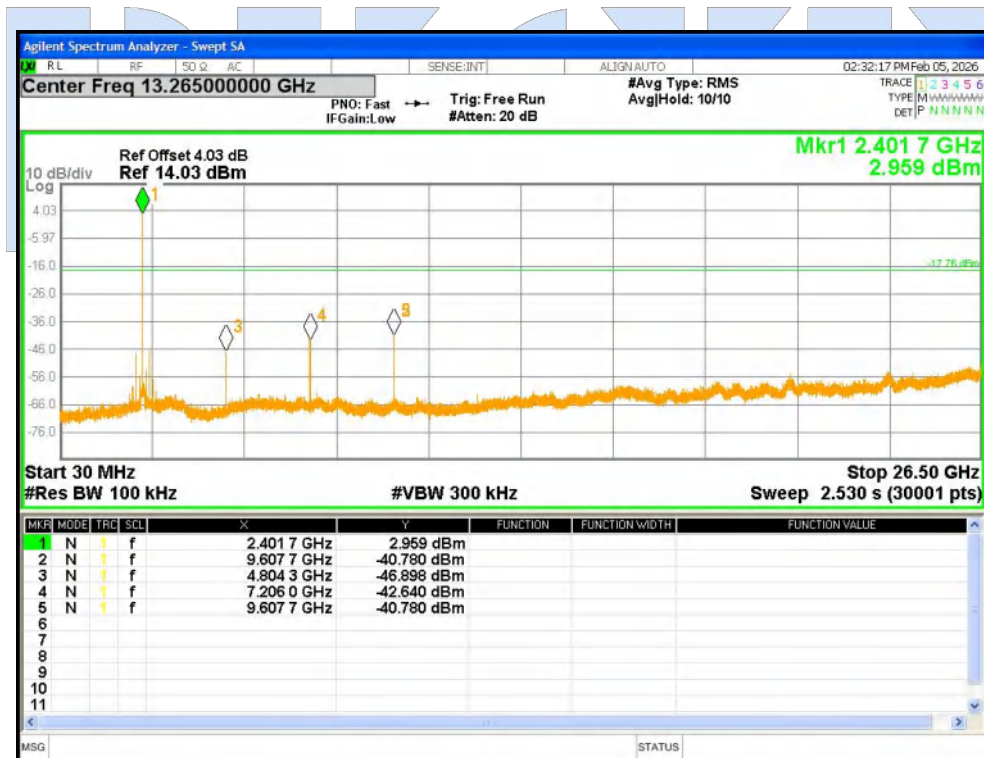
1. Set the RBW = 100kHz.
2. Set the VBW = 300kHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

9.4. Test Result

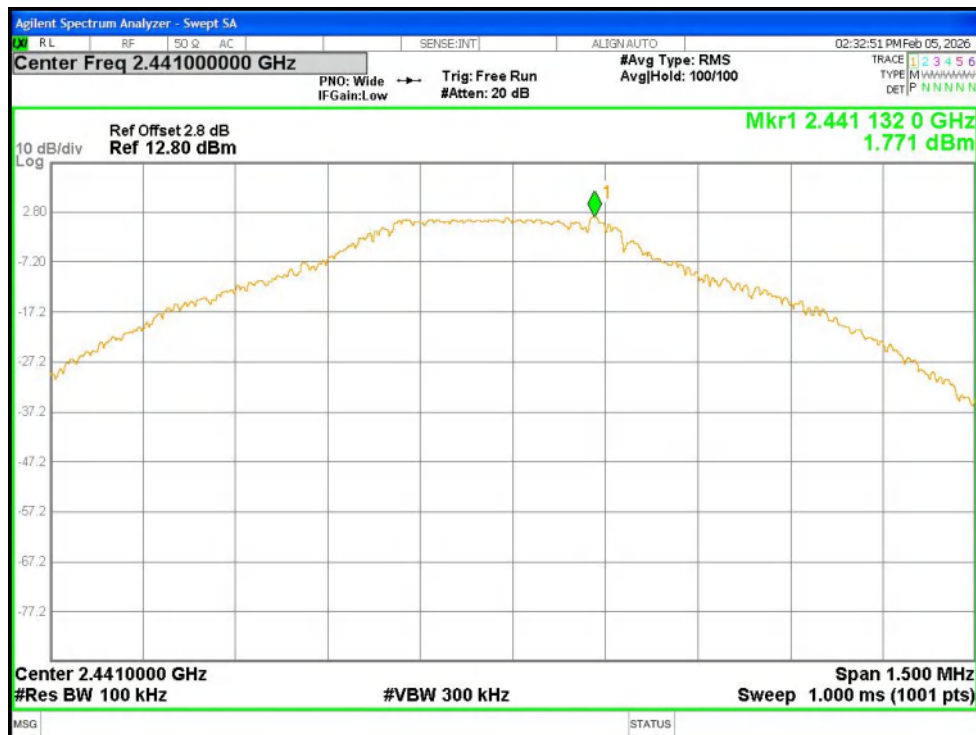
Please see the next page for details.



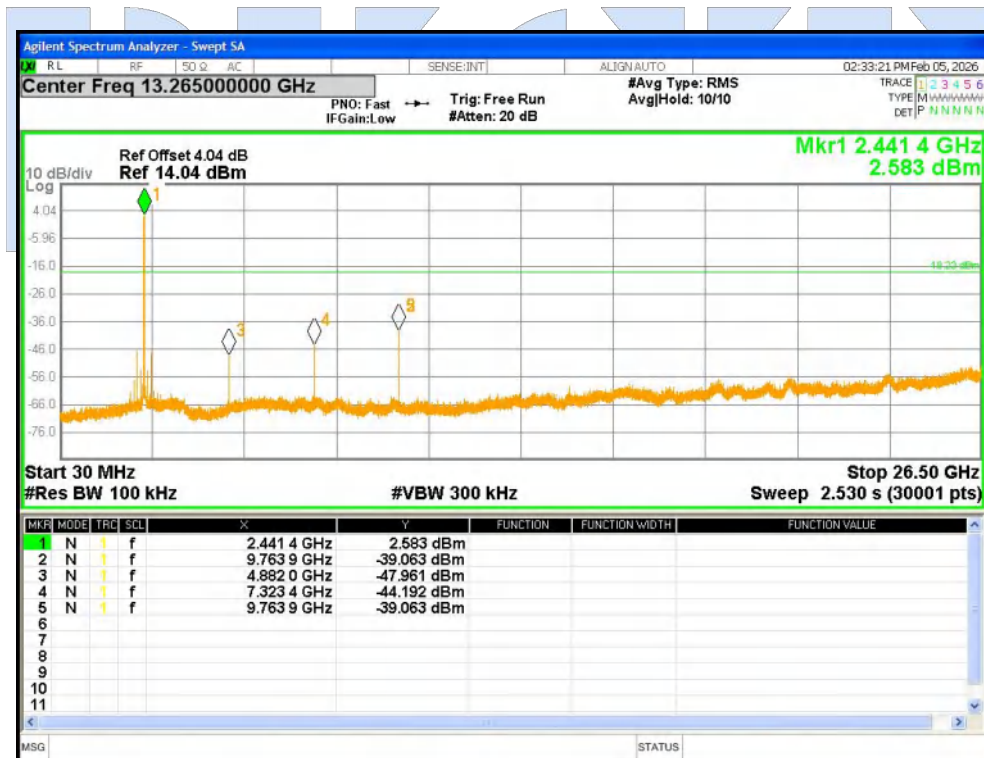
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



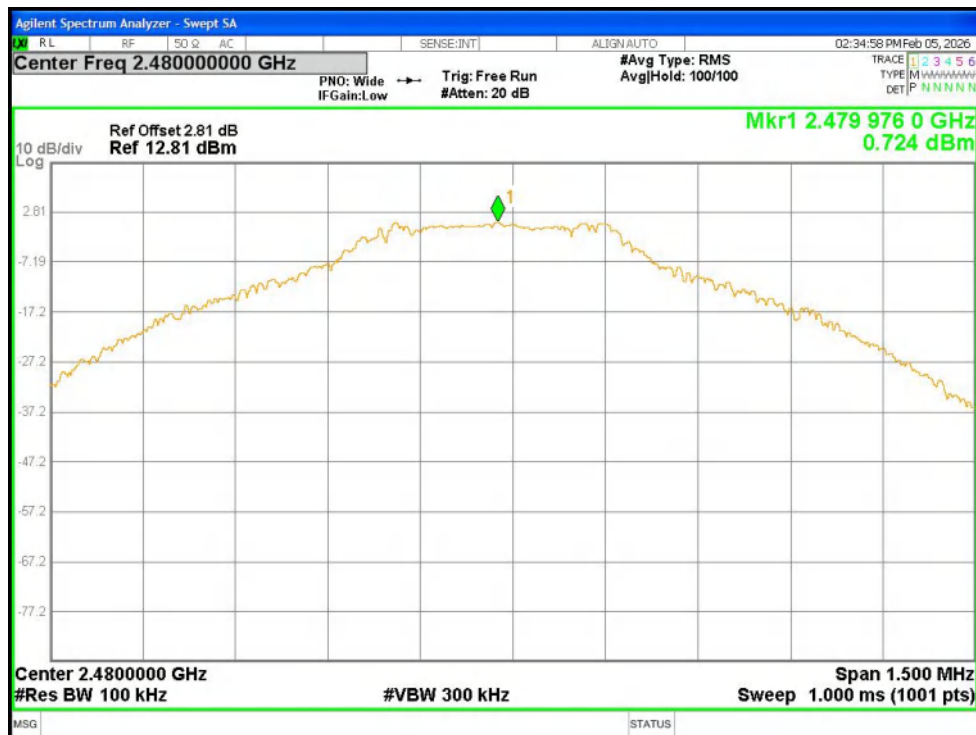
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



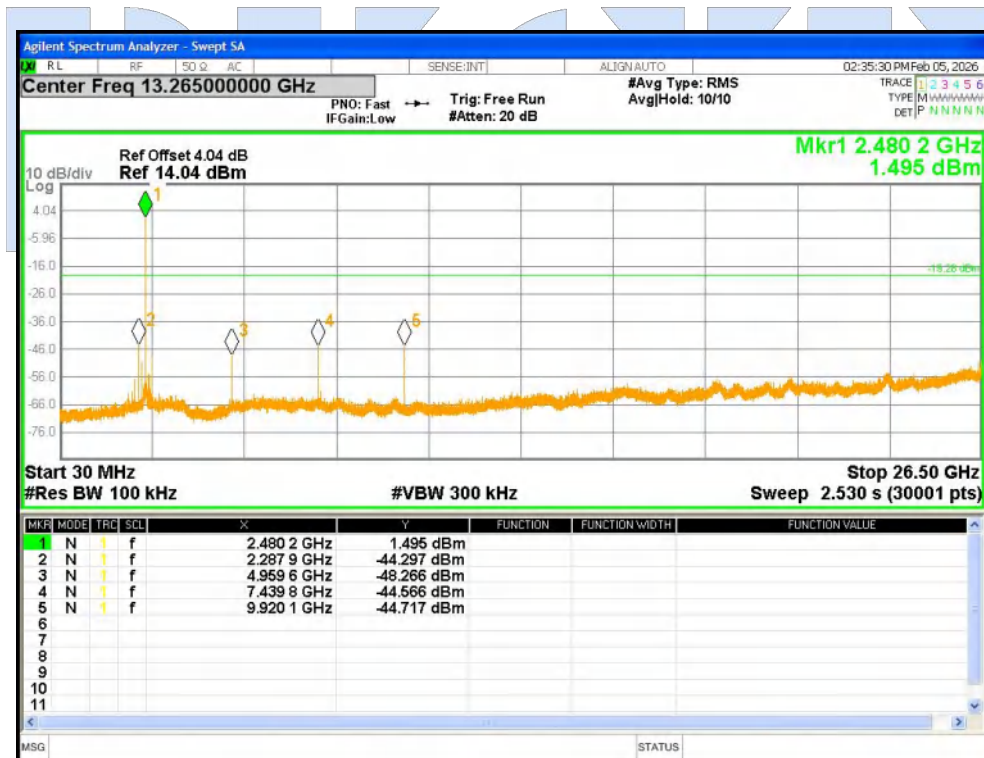
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



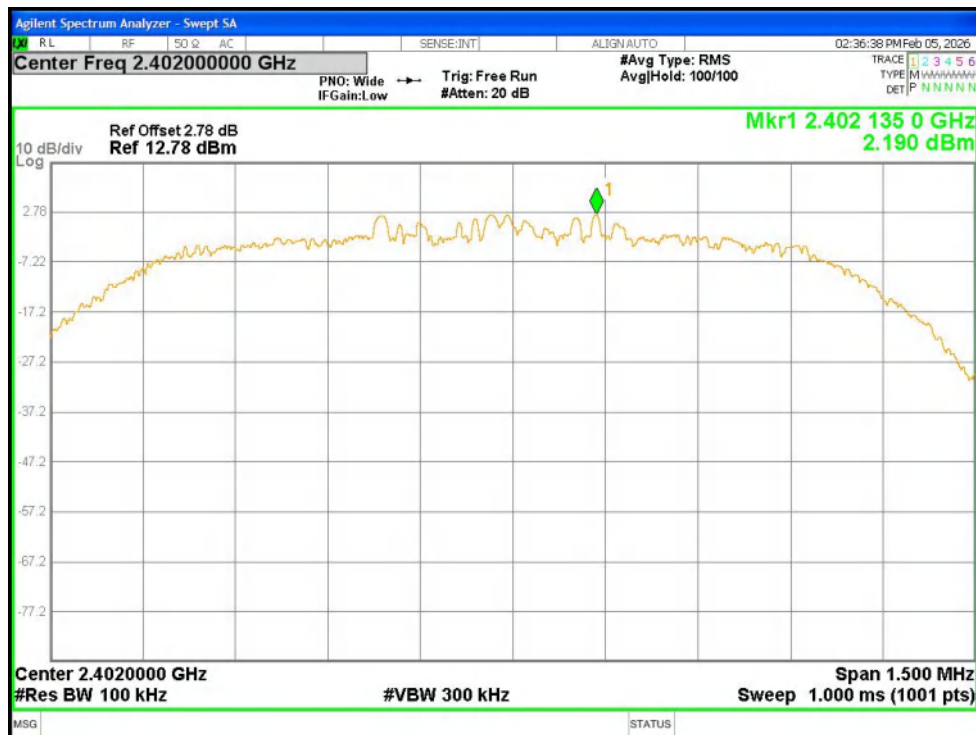
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



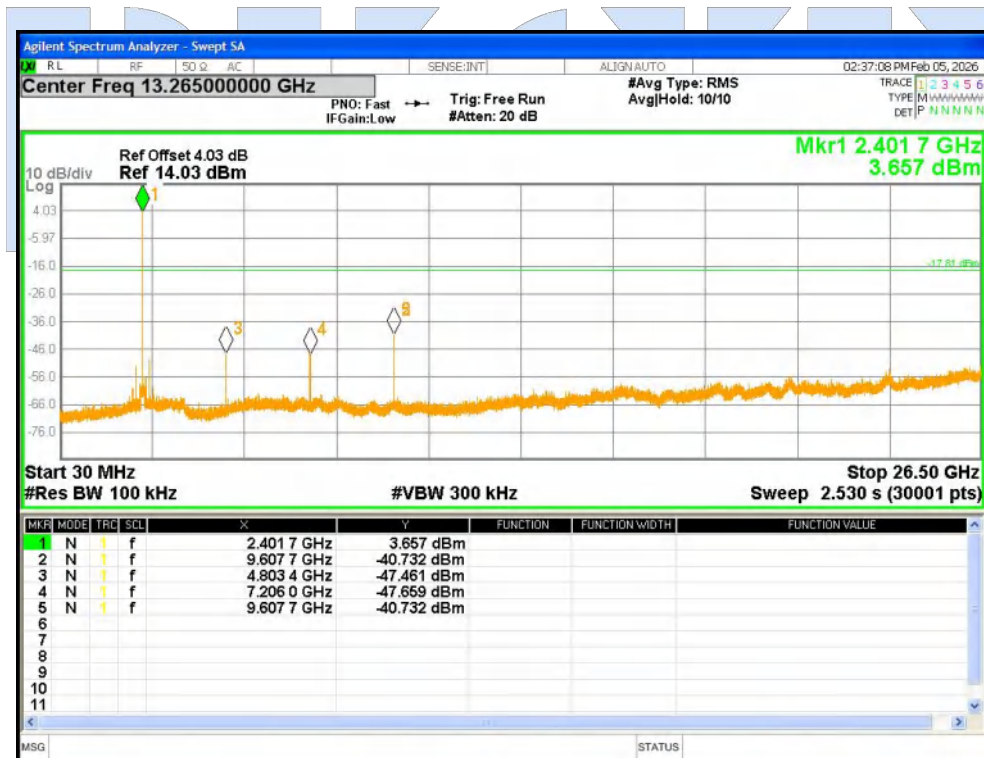
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



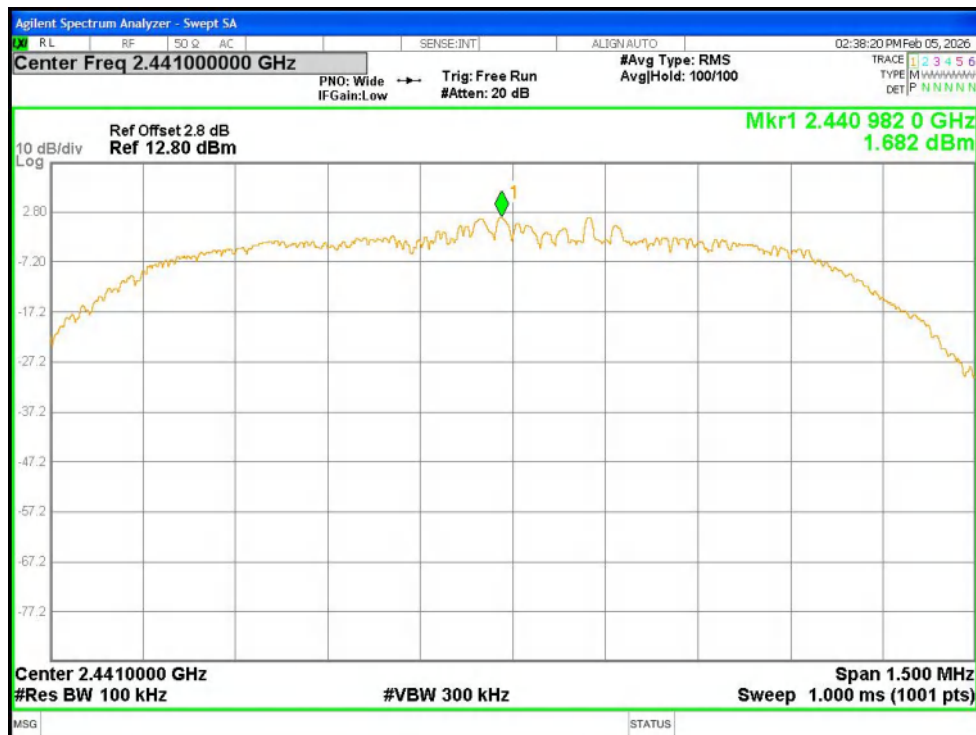
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



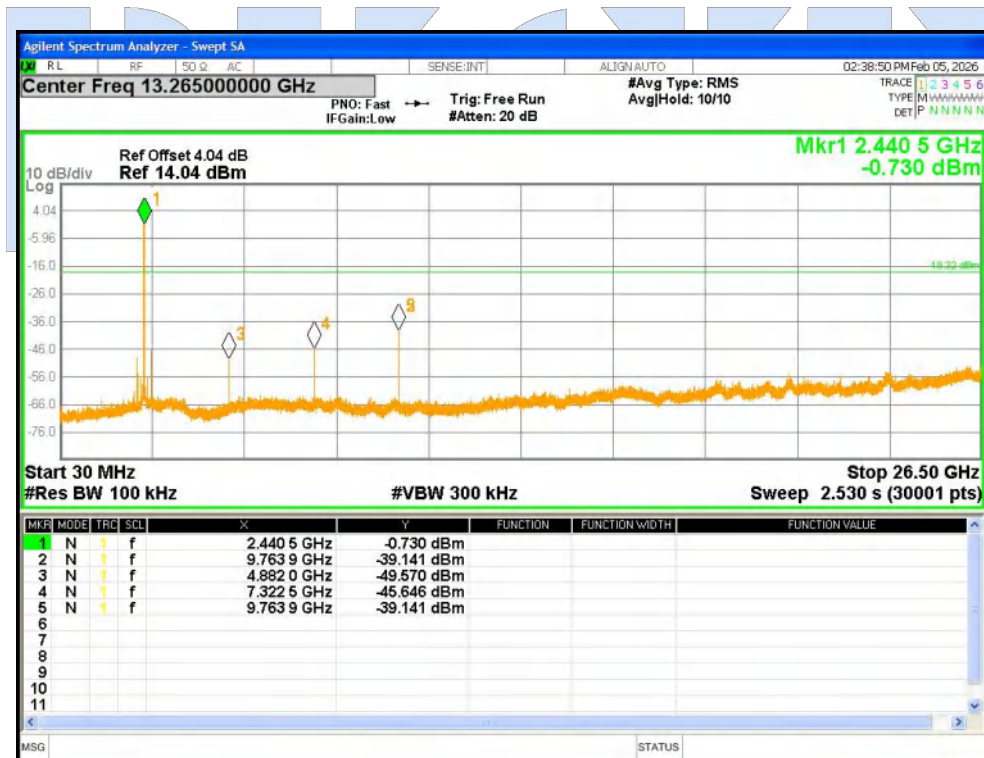
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



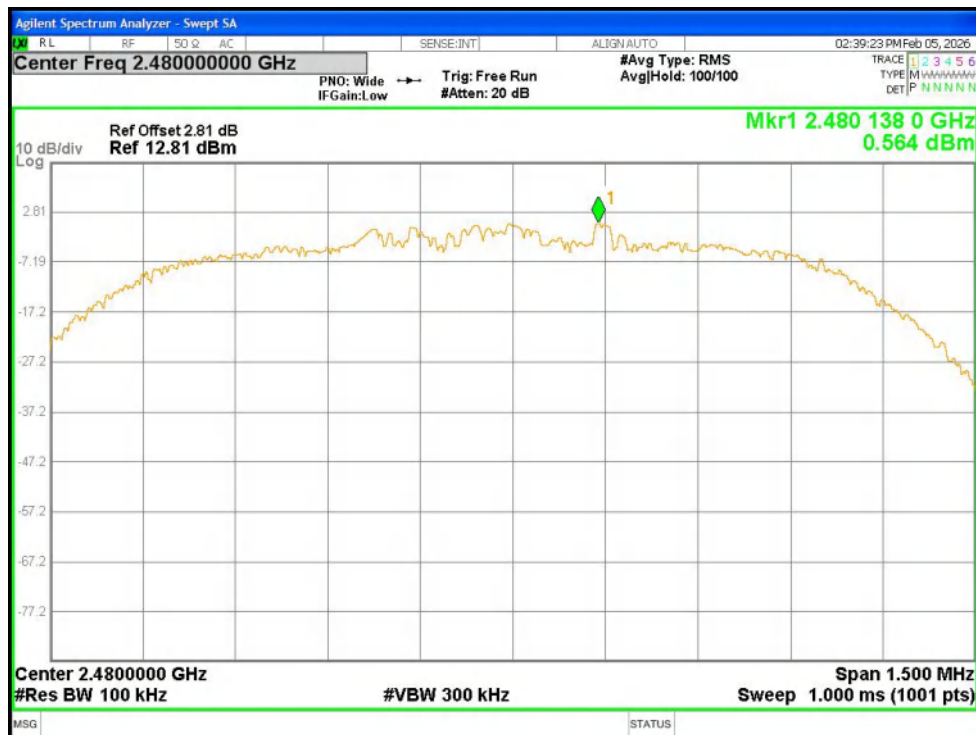
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



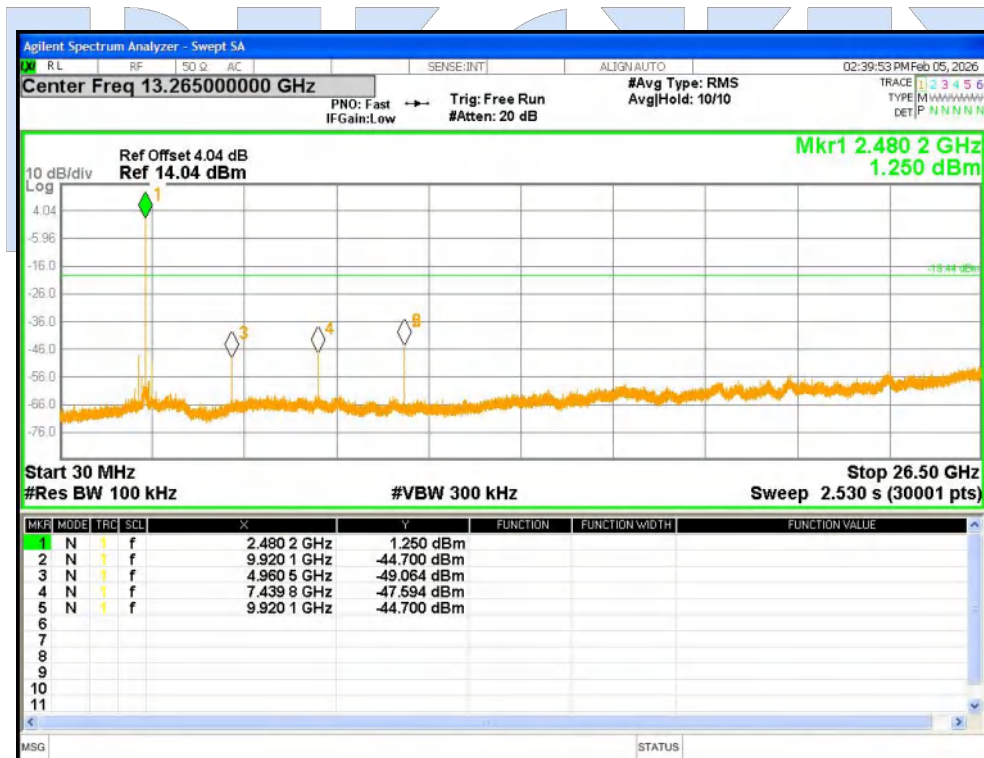
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



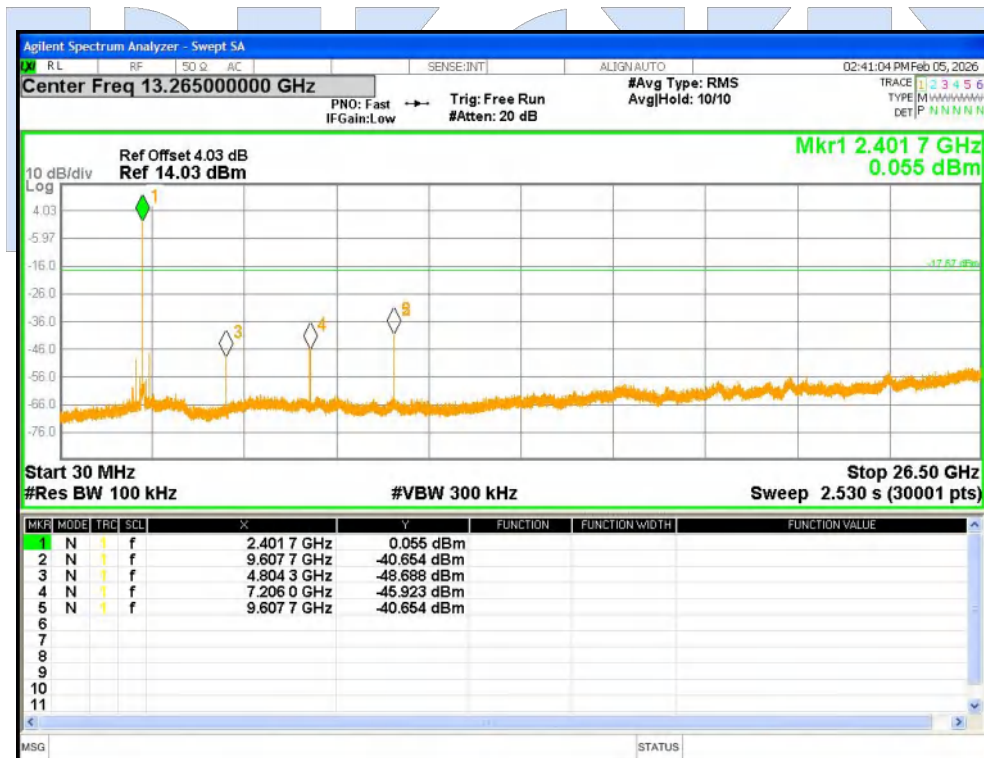
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



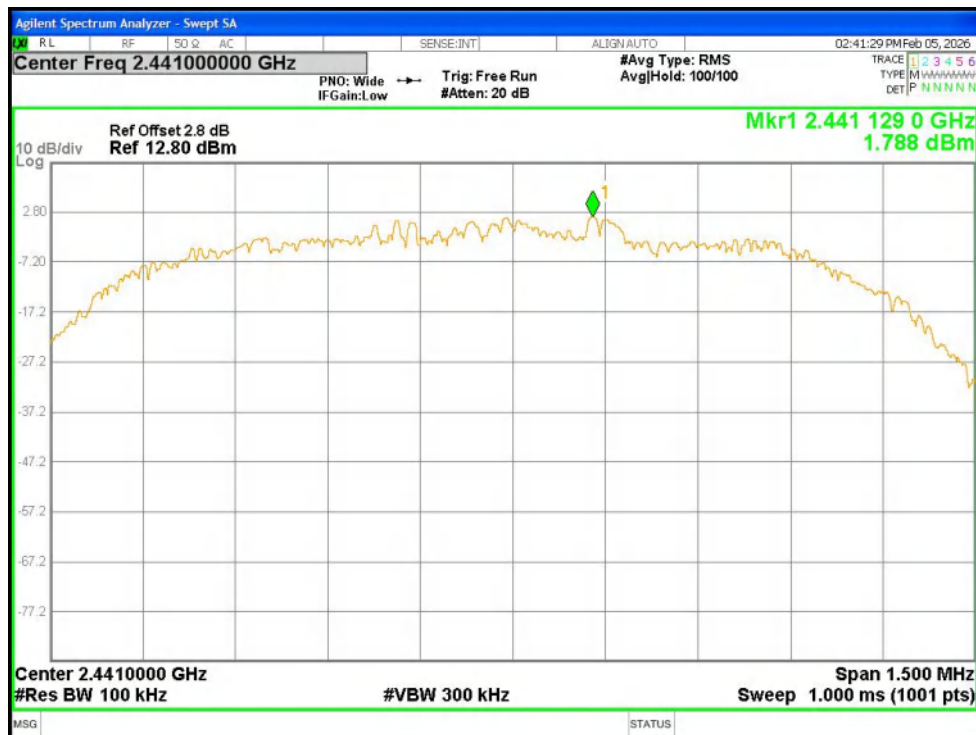
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



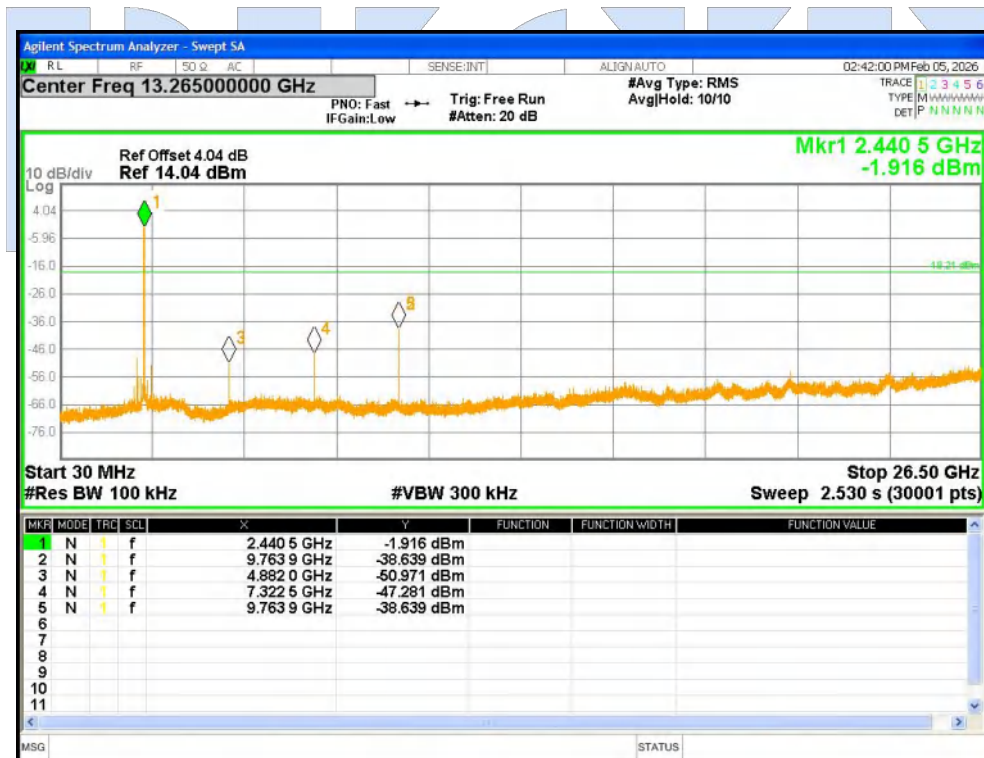
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



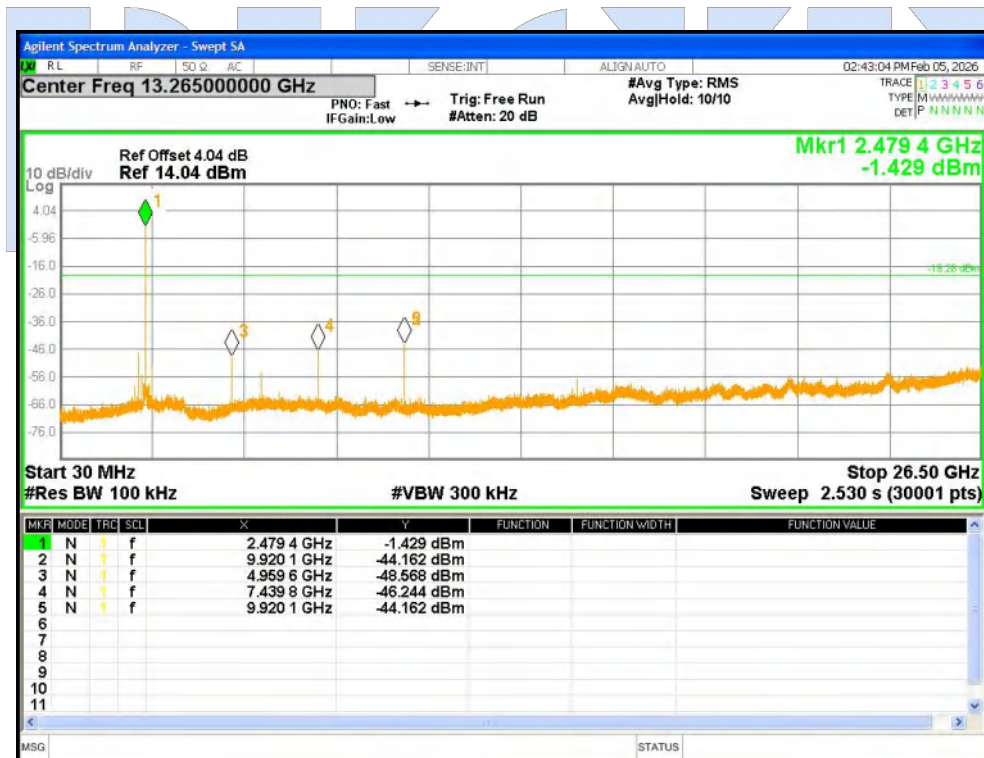
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



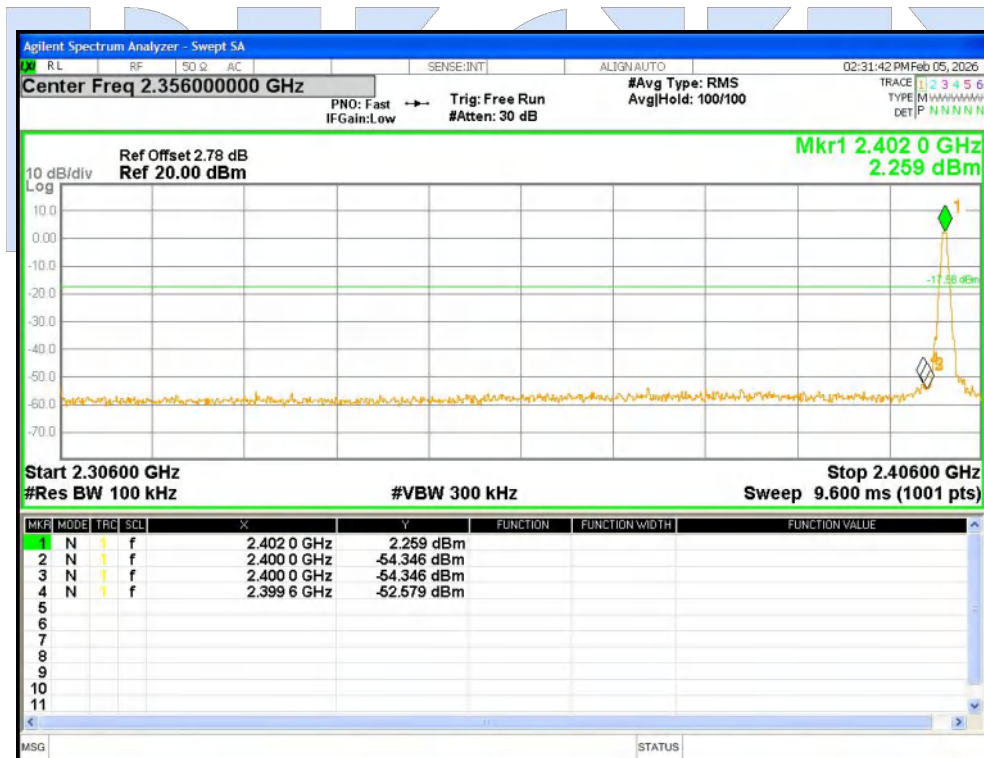
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



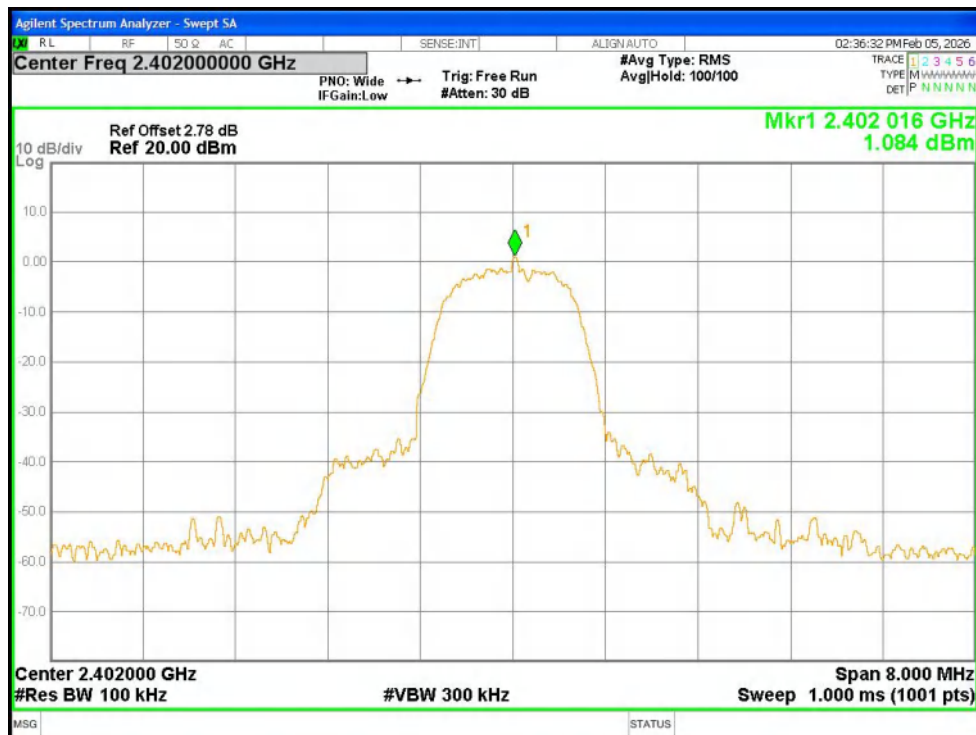
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



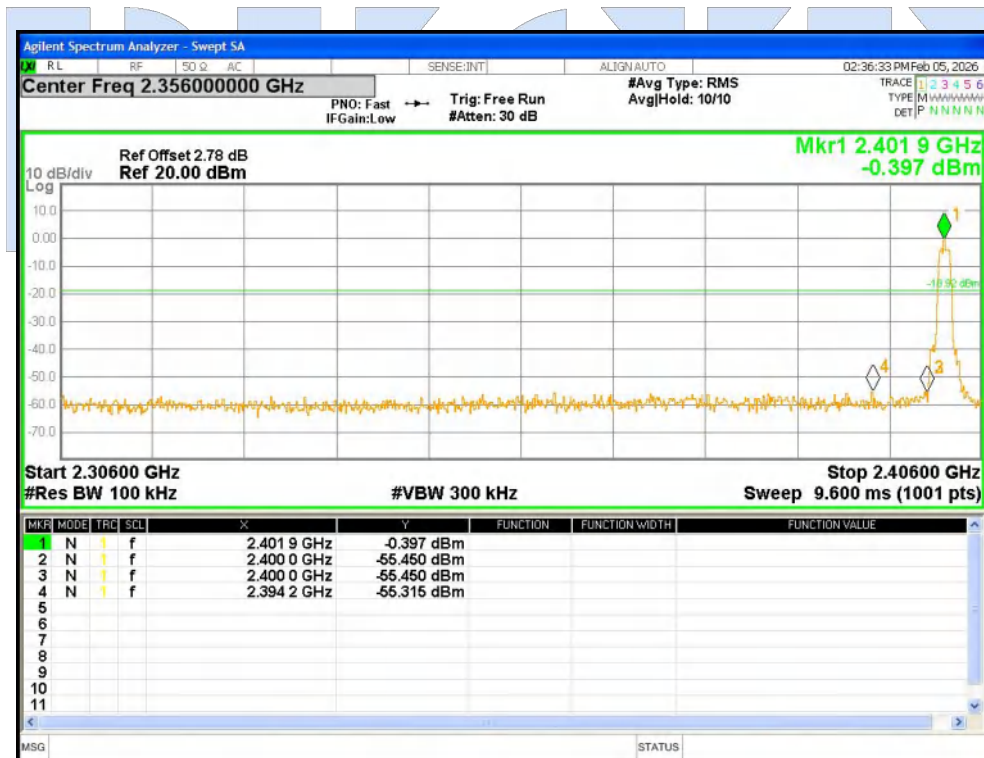
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



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Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref

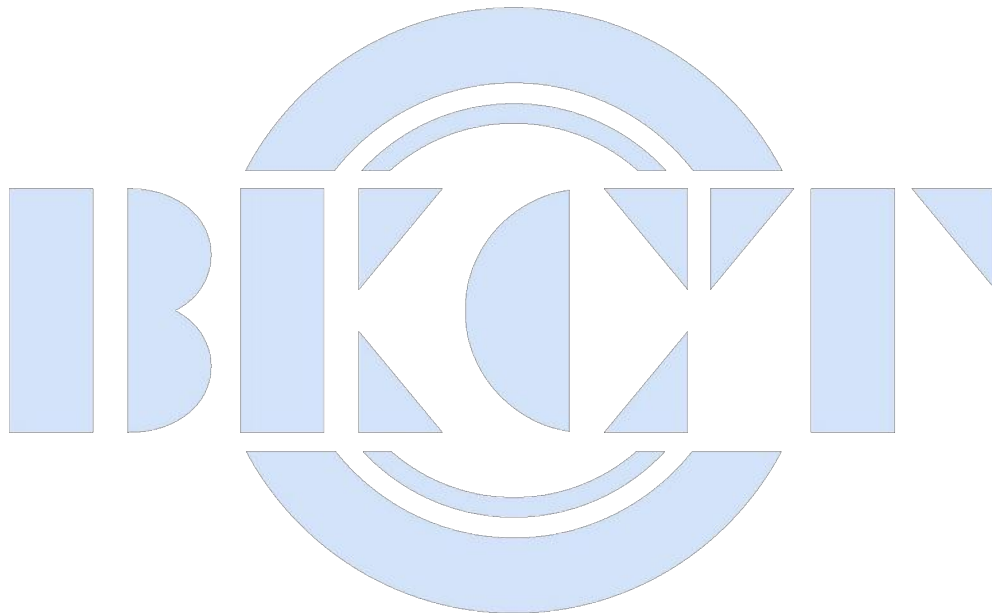


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

10. Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, 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.

This product has an Ceramic Antenna, and the maximum antenna gain is 2.78dBi, fulfill the requirement of this section.



11. Test Photographs

Please see Attachment BKC26020595BE-3.

12. Appendix I: Photos of the EUT

Please see Attachment BKC26020595BE-4 and BKC26020595BE-5.

