

TEST REPORT

FCC ID: 2AW9M-X109**Product: Tablet****Model No.: X105, X105L, X106, X106L, X107, X107L, X108, X109, X109L, XT1016, XT1026, XT1028, A10PRO, X10, X12, X12L, X13, X10PRO, X10A PRO, X10B PRO, X109L, X100, X100L, X100PRO, X14, X14L, X13L, X13PRO****Trade Mark: N/A****Report No.: WSCT-ANAB-R&E250900073A-BT****Issued Date: 18 November 2025****Issued for:****Shenzhen Efercro Electronic Technology Co., Ltd.
Room 901, Block E, Building 1, Section 1, Chuangzhi Yuncheng,
Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen****Issued By:****World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.
Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtuo Avenue, Shiyan
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Report No.: WSCT-ANAB-R&E250900073A-BT

Issued Date: 18 November 2025

Revised: None

1. Test Certification

Product: Tablet

Model No.: X105, X105L, X106, X106L, X107, X107L, X108, X109, X109L, XT1016, XT1026, XT1028, A10PRO, X10, X12, X12L, X13, X10PRO, X10A PRO, X10B PRO, X109L, X100, X100L, X100PRO, X14, X14L, X13L, X13PRO

Trade Mark: N/A

Applicant: Shenzhen Efercro Electronic Technology Co., Ltd.

Address: Room 901, Block E, Building 1, Section 1, Chuangzhi Yuncheng, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen

Manufacturer: Shenzhen Efercro Electronic Technology Co., Ltd.

Address: Room 901, Block E, Building 1, Section 1, Chuangzhi Yuncheng, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen

Date of Test: 29 August 2025 ~ 18 November 2025

Applicable Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Wang Xiang

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Checked By:

Qin Shuiquan

(Qin Shuiquan)

Approved By:

Li Huaibi

(Li Huaibi)

Date:

18 November 2025



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(1) §2.1046	PASS
20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS
Carrier Frequencies Separation	§15.247 (a)(1)	PASS
Hopping Channel Number	§15.247 (a)(1)	PASS
Dwell Time	§15.247 (a)(1)	PASS
Radiated Emission	§15.205/§15.209 §2.1053, §2.1057	PASS
Band Edge	§15.247(d) §2.1051, §2.1057	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product Name:	Tablet
Model :	X105, X105L, X106, X106L, X107, X107L, X108, X109, X109L, XT1016, XT1026, XT1028, A10PRO, X10, X12, X12L, X13, X10PRO, X10A PRO, X10B PRO, X109L, X100, X100L, X100PRO, X14, X14L, X13L, X13PRO
Trade Mark:	N/A
Software Version	Android
Hardware Version	863KA_MB_V1.2
Operation Frequency:	2402MHz-2480MHz
Channel Separation:	1MHz
Number of Channel:	79
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Modulation Technology:	FHSS
Antenna Type:	Integral Antenna
Antenna Gain:	1.92dBi
Operating Voltage:	Adapter1: G50-US-0502000 Input: 100-240V~0.35A MAX 50/60Hz Output: 5.0V~2.0A 10.0W Adapter2: PS10UA050K2000UU Input: 100-240V~0.35A MAX 50/60Hz Output: 5.0V~2.0A 10.0W Rechargeable Li-ion Polymer Battery: 2894130 Capacity: 3.8V 5000mAh
Remark:	N/A

Note:

1. N/A stands for no applicable.

2. The customer declares that all series models are completely identical in terms of circuitry, electrical, mechanical, and physical structure; the only differences are in appearance (color and silk screen), color, and model number, which are used solely for trade purposes. The aforementioned appearance refers only to color and silk screen.

3. Among the series models X105, X105L, X106, X106L, X107, X107L, X108, X109, X109L, XT1016, XT1026, XT1028, A10PRO, X10, X12, X12L, X13, X10PRO, X10A PRO, X10B PRO, X109L, X100, X100L, X100PRO, X14, X14L, X13L, X13PRO, X109 is the primary test model, and all test data originate from X109.

Operation Frequency each of channel for GFSK, $\pi/4$ -DQPSK, 8DPSK

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
...	...	...	...	...	...	...	...
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
...	...	...	...	...	...	...	...
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz	-	-

Remark: Channel 0, 39 & 78 have been tested for GFSK, $\pi/4$ -DQPSK, 8DPSK modulation mode.

4. General Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery
The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	Adapter1-2	/	/	N/A

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

All measurement facilities used to collect the measurement data are located at **World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

USA	ANAB - Certificate Number: AT-3951
China	CNAS (Registration Number: L3732)
Canada	ISED(CAB identifier:CN0178)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>

5.3. Measurement Uncertainty

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

No.	Item	MU
1	Duty Cycle and Tx-Sequence and Tx-Gap	$\pm 1\%$
2	Dwell Time and Minimum Frequency Occupation	$\pm 1.2\%$
3	Medium Utilisation Factor	$\pm 1.3\%$
4	Occupied Channel Bandwidth	$\pm 2.4\%$
5	Transmitter Unwanted Emission in the out-of Band	$\pm 1.3\%$
6	Transmitter Unwanted Emissions in the Spurious Domain	$\pm 2.5\%$
7	Receiver Spurious Emissions	$\pm 2.5\%$
8	Conducted Emission Test	$\pm 3.2\text{dB}$
9	RF power, conducted	$\pm 0.16\text{dB}$
10	Spurious emissions, conducted	$\pm 0.21\text{dB}$
11	All emissions, radiated(<1GHz)	$\pm 4.7\text{dB}$
12	All emissions, radiated(>1GHz)	$\pm 4.7\text{dB}$
13	Temperature	$\pm 0.5^{\circ}\text{C}$
14	Humidity	$\pm 2.0\%$

5.4. MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
Test software	--	EZ-EMC	CON-03A	-	-
Test software	--	MTS8310	-	-	-
EMI Test Receiver	R&S	ESCI	100005	2025-11-05	2026-11-04
LISN	AFJ	LS16	16010222119	2025-11-05	2026-11-04
LISN(EUT)	Mestec	AN3016	04/10040	2025-11-05	2026-11-04
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	2025-11-05	2026-11-04
Coaxial cable	Megalon	LMR400	N/A	2025-11-05	2026-11-04
GPIO cable	Megalon	GPIO	N/A	2025-11-05	2026-11-04
Spectrum Analyzer	R&S	FSU	100114	2025-11-05	2026-11-04
Pre Amplifier	H.P.	HP8447E	2945A02715	2025-11-05	2026-11-04
Pre-Amplifier	CDSI	PAP-1G18-38	--	2025-11-05	2026-11-04
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	2025-07-29	2026-07-28
9*6*6 Anechoic	--	--	--	2025-11-05	2026-11-04
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	2025-11-05	2026-11-04
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	2025-11-05	2026-11-04
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	2025-11-05	2026-11-04
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	2025-11-05	2026-11-04
Loop Antenna	EMCO	6502	00042960	2025-11-05	2026-11-04
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	2025-11-05	2026-11-04
Power meter	Anritsu	ML2487A	6K00003613	2025-11-05	2026-11-04
Power sensor	Anritsu	MX248XD	--	2025-11-05	2026-11-04
Spectrum Analyzer	Keysight	N9010B	MY60241089	2025-11-05	2026-11-04

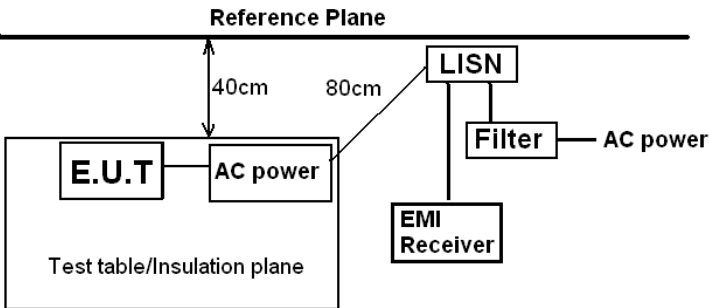
6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 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(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The Bluetooth antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is 1.92dBi.	

6.2. Conducted Emission

6.2.1. Test Specification

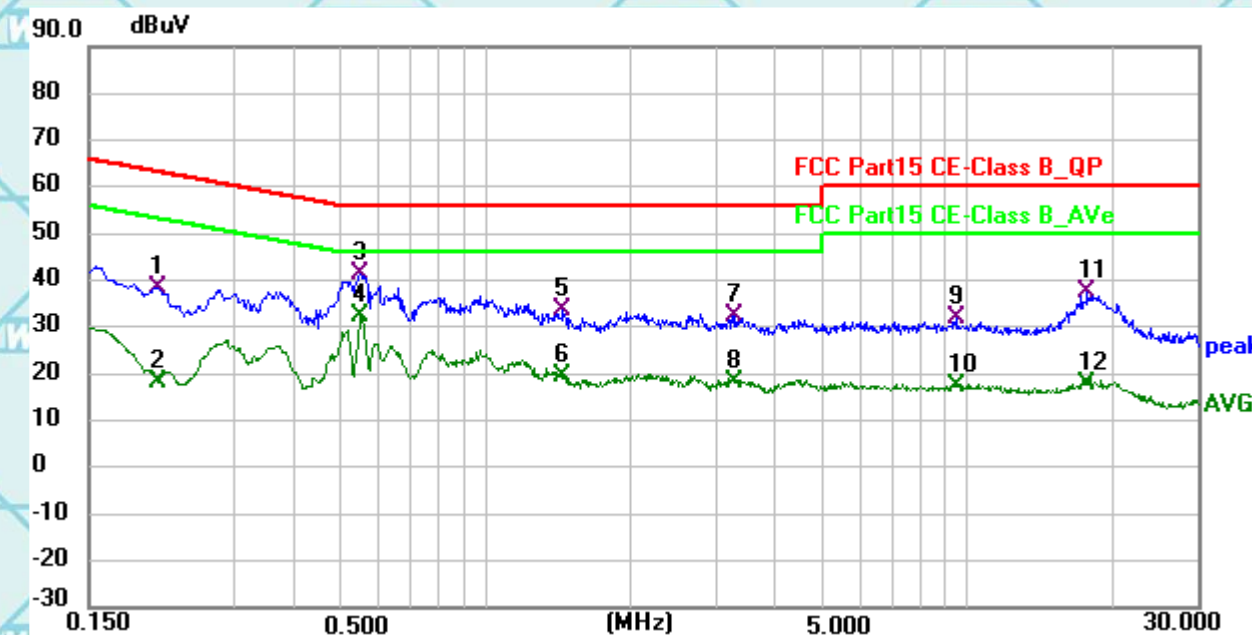
Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.10:2020																
Frequency Range:	150 kHz to 30 MHz																
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto																
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test Setup:	Reference Plane  40cm 80cm E.U.T. AC power LISN Filter AC power EMI Receiver Test table/Insulation plane Remark E.U.T.: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m																
Test Mode:	Refer to item 4.1																
Test Procedure:	1. The E.U.T. is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement.																
Test Result:	PASS																

6.2.2. EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst. Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

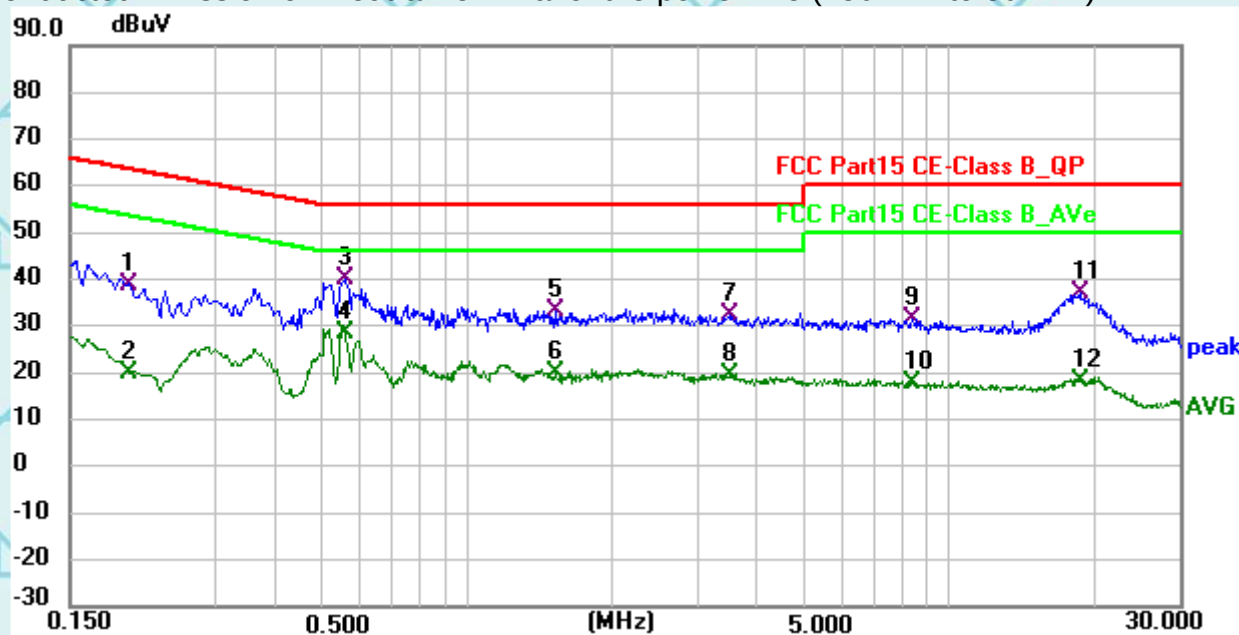
Test data

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2085	17.62	20.68	38.30	63.26	-24.96	QP
2	0.2085	-2.27	20.68	18.41	53.26	-34.85	AVG
3	0.5505	20.83	20.52	41.35	56.00	-14.65	QP
4 *	0.5505	11.75	20.52	32.27	46.00	-13.73	AVG
5	1.4415	13.16	20.64	33.80	56.00	-22.20	QP
6	1.4415	-1.15	20.64	19.49	46.00	-26.51	AVG
7	3.3090	11.78	20.59	32.37	56.00	-23.63	QP
8	3.3090	-2.30	20.59	18.29	46.00	-27.71	AVG
9	9.4920	11.28	20.46	31.74	60.00	-28.26	QP
10	9.4920	-2.92	20.46	17.54	50.00	-32.46	AVG
11	17.6955	17.29	20.22	37.51	60.00	-22.49	QP
12	17.6955	-2.57	20.22	17.65	50.00	-32.35	AVG

Report No.: WSCT-ANAB-R&E250900073A-BT Issued Date: 18 November 2025 Revised: None
Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1995	18.31	20.69	39.00	63.63	-24.63	QP
2	0.1995	-0.68	20.69	20.01	53.63	-33.62	AVG
3 *	0.5595	19.61	20.52	40.13	56.00	-15.87	QP
4	0.5595	8.12	20.52	28.64	46.00	-17.36	AVG
5	1.5225	12.42	20.64	33.06	56.00	-22.94	QP
6	1.5225	-0.87	20.64	19.77	46.00	-26.23	AVG
7	3.4935	11.73	20.59	32.32	56.00	-23.68	QP
8	3.4935	-1.30	20.59	19.29	46.00	-26.71	AVG
9	8.3895	11.11	20.48	31.59	60.00	-28.41	QP
10	8.3895	-2.74	20.48	17.74	50.00	-32.26	AVG
11	18.6900	16.89	20.24	37.13	60.00	-22.87	QP
12	18.6900	-1.99	20.24	18.25	50.00	-31.75	AVG

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

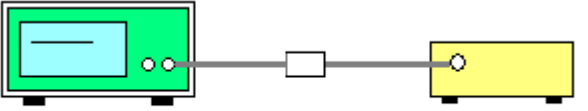
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

6.3. Maximum Conducted (Average) Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2020
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) 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.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
Test Result:	PASS

6.3.2. Test Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-5.93	20.97	PASS
Middle	-5.63	20.97	PASS
Highest	-5.81	20.97	PASS

Pi/4DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-7.20	20.97	PASS
Middle	-6.91	20.97	PASS
Highest	-7.11	20.97	PASS

8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-6.36	20.97	PASS
Middle	-6.21	20.97	PASS
Highest	-6.53	20.97	PASS

Test plots as follows:

Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1



6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Limit:	N/A
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows ANSI C63.10:2020 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; $1\% \leq RBW \leq 5\%$ of the 20 dB bandwidth; $VBW \geq 3RBW$; Sweep = auto; Detector function = peak; Trace = max hold. 5. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test data

Test channel	-20dB Occupy Bandwidth (MHz)			
	GFSK	$\pi/4$ -DQPSK	8DPSK	Conclusion
Lowest	0.9422	1.301	1.208	PASS
Middle	0.8047	1.301	1.272	PASS
Highest	0.8243	1.302	1.275	PASS

Test plots as follows:

Test Graphs

-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

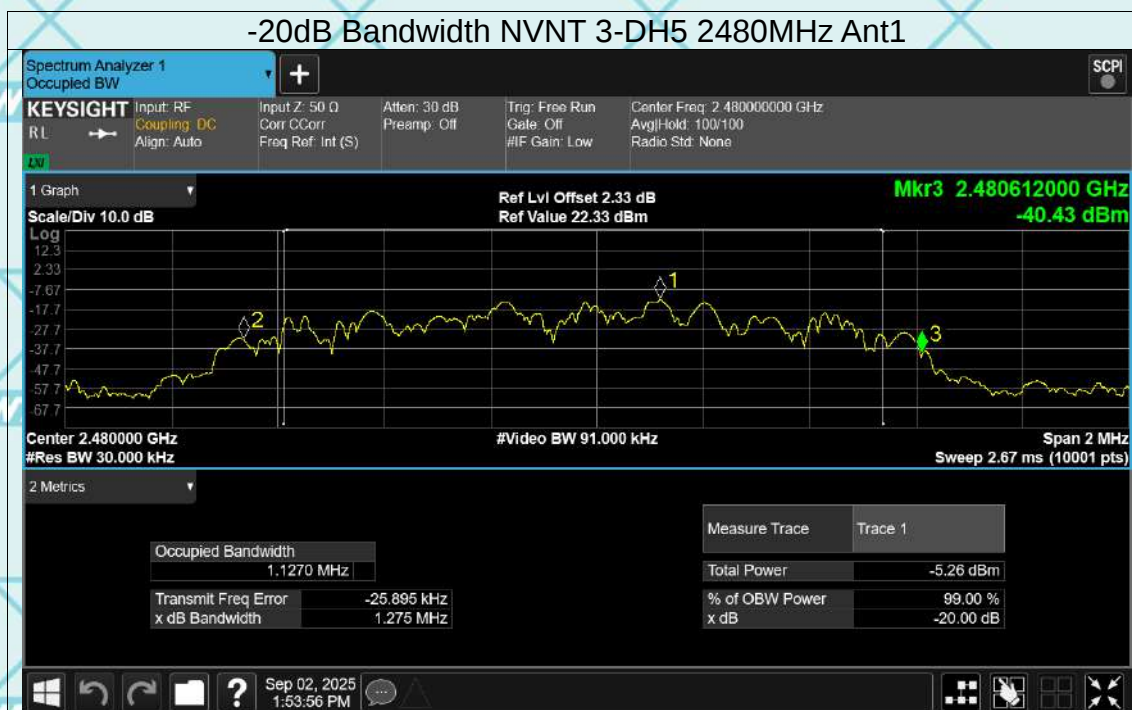


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



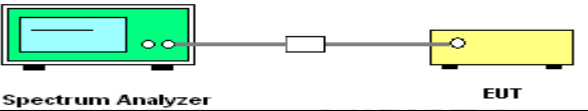
-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





6.5. Carrier Frequencies Separation

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2020 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 6. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Test Result:	PASS

6.5.2. Test data

GFSK mode			
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.008	0.628	PASS
Middle	1	0.537	PASS
Highest	0.998	0.549	PASS

Pi/4 DQPSK mode			
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.012	0.867	PASS
Middle	1.012	0.867	PASS
Highest	1.006	0.868	PASS

8DPSK mode			
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.002	0.805	PASS
Middle	0.998	0.848	PASS
Highest	1.002	0.850	PASS

Test Graphs

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

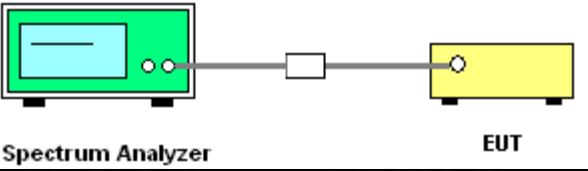


CFS NVNT 3-DH5 2480MHz Ant1



6.6. Hopping Channel Number

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Setup:	 The diagram illustrates the test setup. On the left is a green box labeled 'Spectrum Analyzer'. A line connects it to a small white box labeled 'Attenuator'. Another line connects the attenuator to a yellow box labeled 'EUT' (Equipment Under Test).
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2020 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 6. The number of hopping frequency used is defined as the number of total channel. 7. Record the measurement data in report.
Test Result:	PASS

6.6.2. Test data

Mode	Hopping channel numbers	Limit	Result
GFSK, P/4-DQPSK, 8DPSK	79	15	PASS

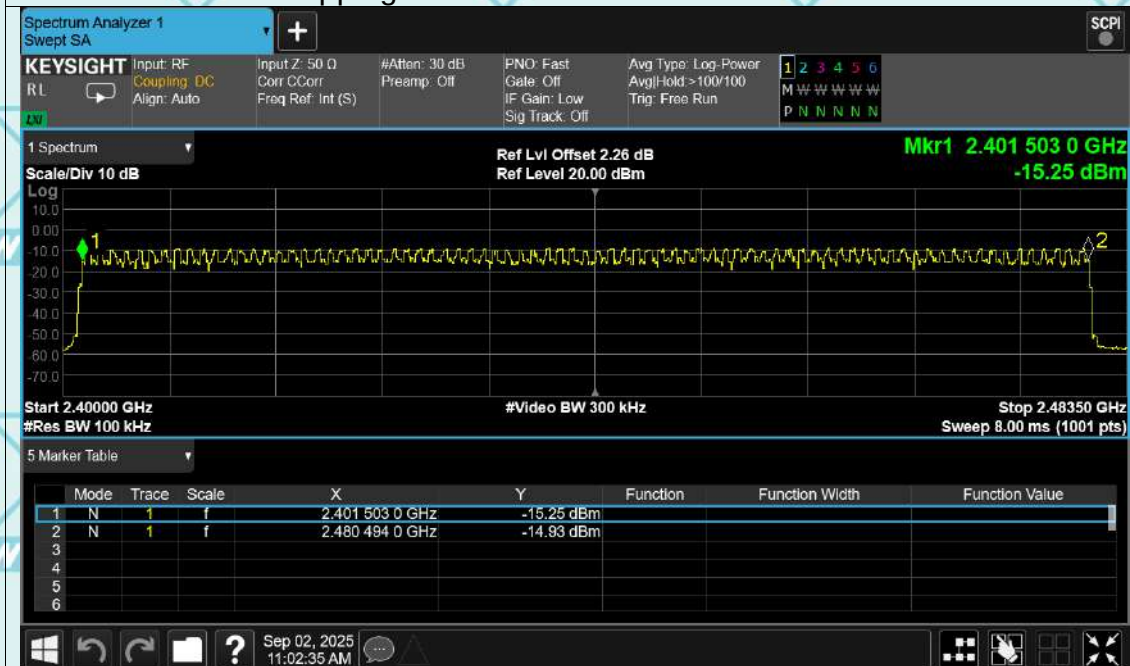
Test plots as follows:

Test Graphs

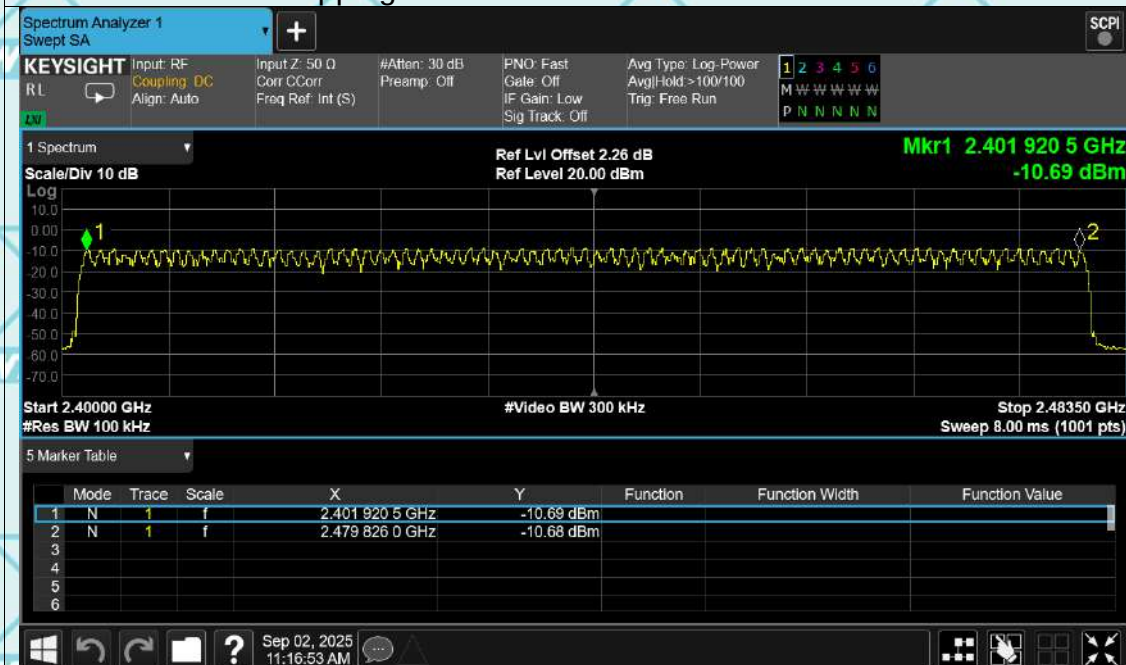
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

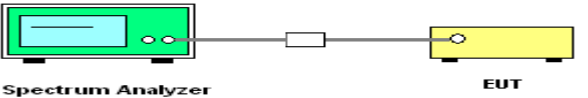


Hopping No. NVNT 3-DH5 2402MHz Ant1



6.7. Dwell Time

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2020 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. 6. Measure and record the results in the test report.
Test Result:	PASS

6.7.2. Test Data

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2402	0.367	116.706	318	31600	400	Pass
1-DH1	2441	0.368	117.024	318	31600	400	Pass
1-DH1	2480	0.368	116.288	316	31600	400	Pass
1-DH3	2402	1.624	246.848	152	31600	400	Pass
1-DH3	2441	1.624	256.592	158	31600	400	Pass
1-DH3	2480	1.624	279.328	172	31600	400	Pass
1-DH5	2402	2.872	321.664	112	31600	400	Pass
1-DH5	2441	2.872	287.2	100	31600	400	Pass
1-DH5	2480	2.872	324.536	113	31600	400	Pass

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate $(1600 / 2 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 2 / 79) \times (0.4 \times 79) = 320$ hops

For DH3, With channel hopping rate $(1600 / 4 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 4 / 79) \times (0.4 \times 79) = 160$ hops

For DH5, With channel hopping rate $(1600 / 6 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

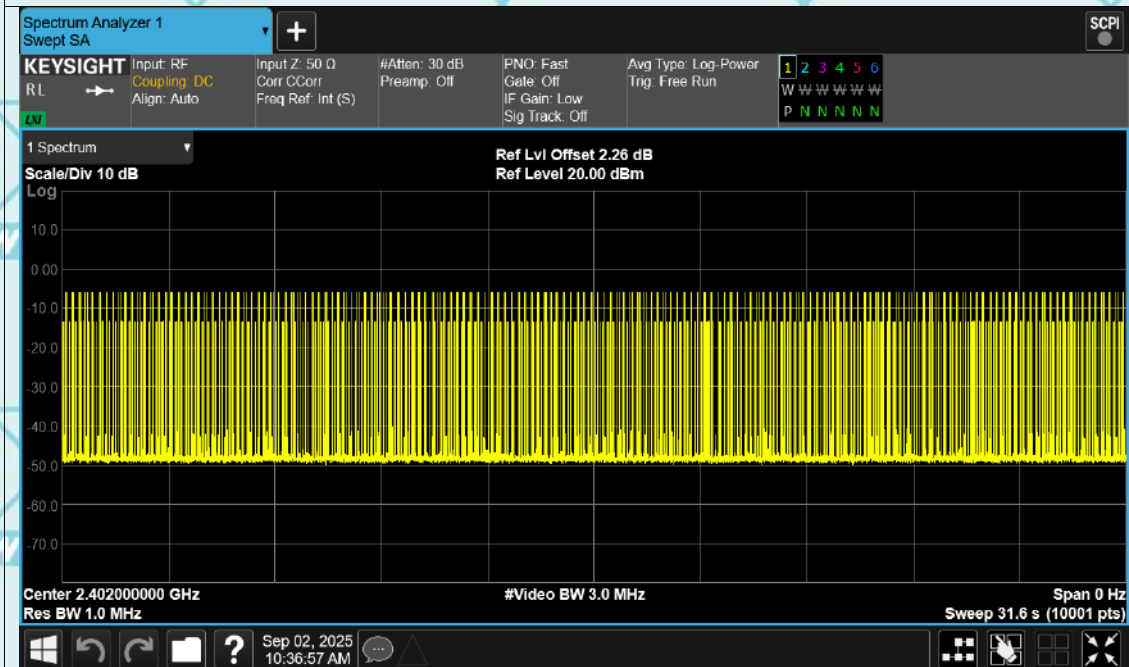
Test plots as follows:

Test Graphs

Dwell NVNT 1-DH1 2402MHz Ant1 One Burst



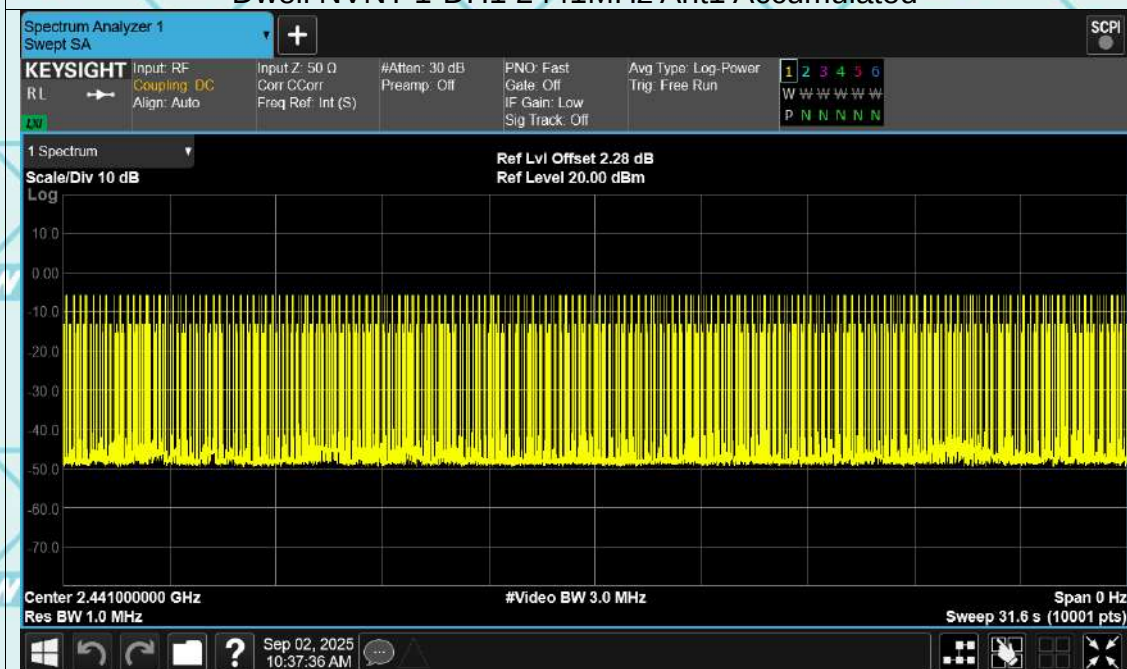
Dwell NVNT 1-DH1 2402MHz Ant1 Accumulated



Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



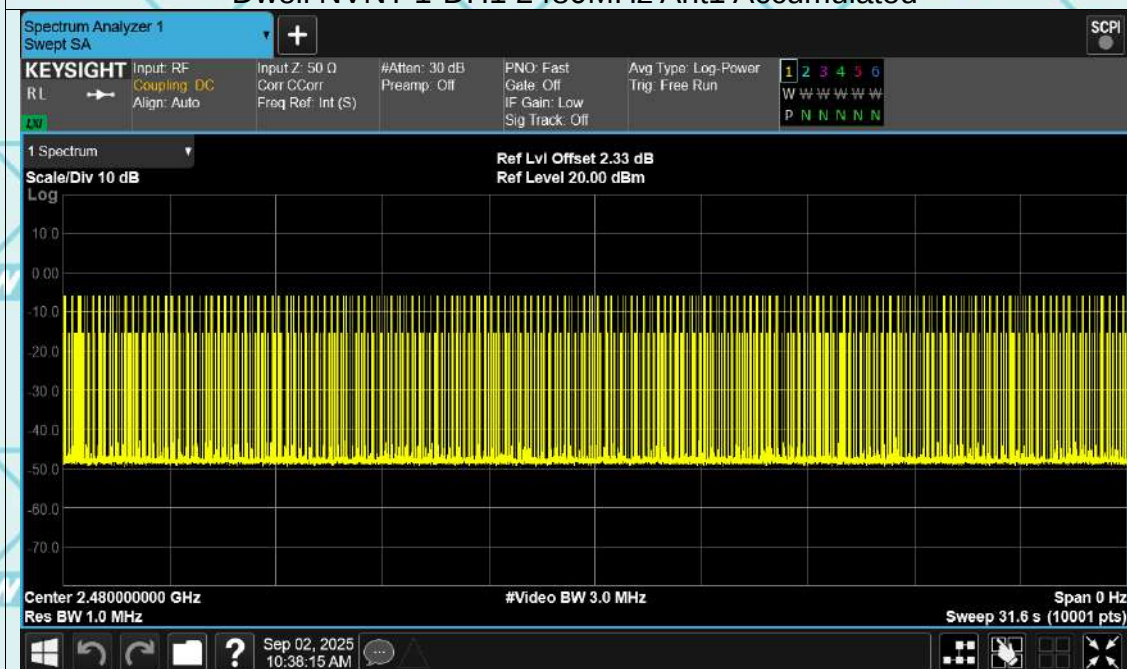
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH1 2480MHz Ant1 One Burst



Dwell NVNT 1-DH1 2480MHz Ant1 Accumulated



Dwell NVNT 1-DH3 2402MHz Ant1 One Burst



Dwell NVNT 1-DH3 2402MHz Ant1 Accumulated



Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH3 2480MHz Ant1 One Burst



Dwell NVNT 1-DH3 2480MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



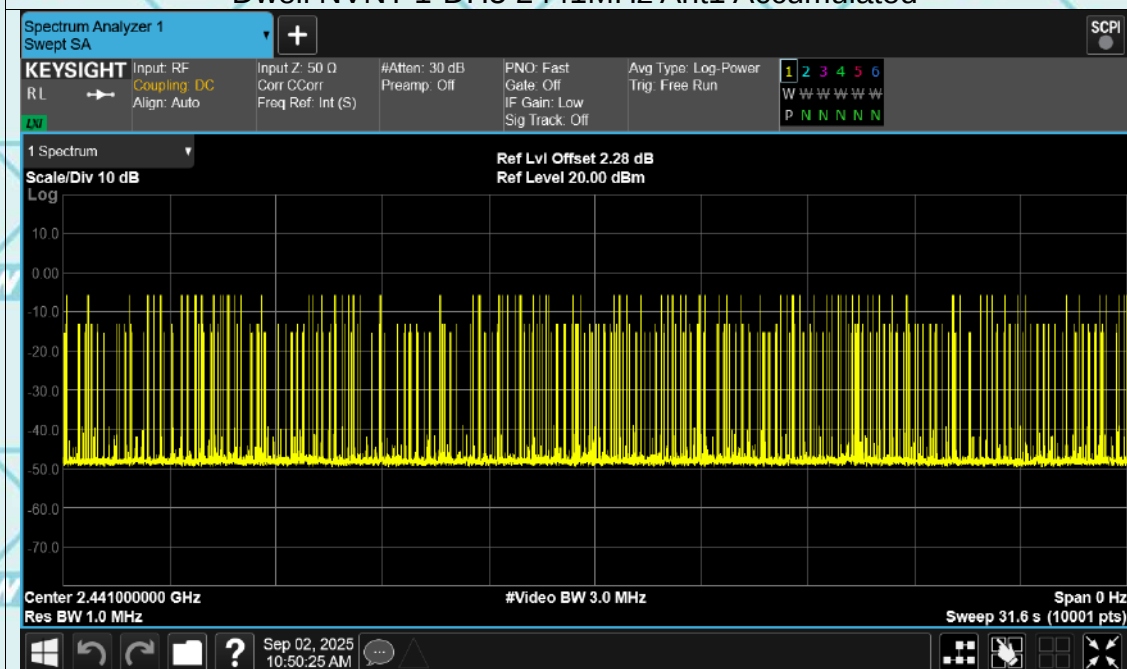
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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



6.8. Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

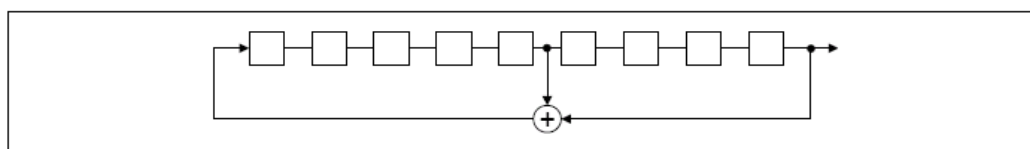
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. 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.

EUT Pseudorandom Frequency Hopping Sequence

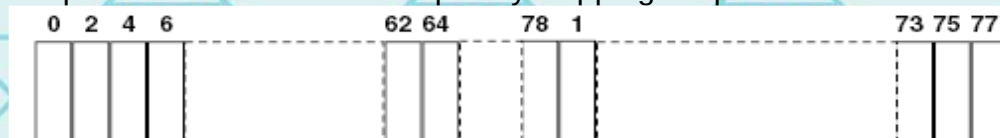
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized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

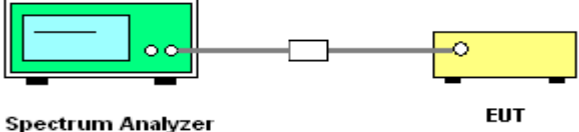


Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

6.9. Conducted Band Edge Measurement

6.9.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2020
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	 The diagram shows a Spectrum Analyzer (green box) connected via a cable to an EUT (yellow box). Below the Spectrum Analyzer is the label 'Spectrum Analyzer' and below the EUT is the label 'EUT'.
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2020 Measurement Guidelines. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz ($\geq 1\%$ span=10MHz), VBW = 300 kHz ($\geq$RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. 4. Enable hopping function of the EUT and then repeat step 2 and 3. 5. Measure and record the results in the test report.
Test Result:	PASS

6.9.2. Test Data

GFSK Modulation (the worst case)

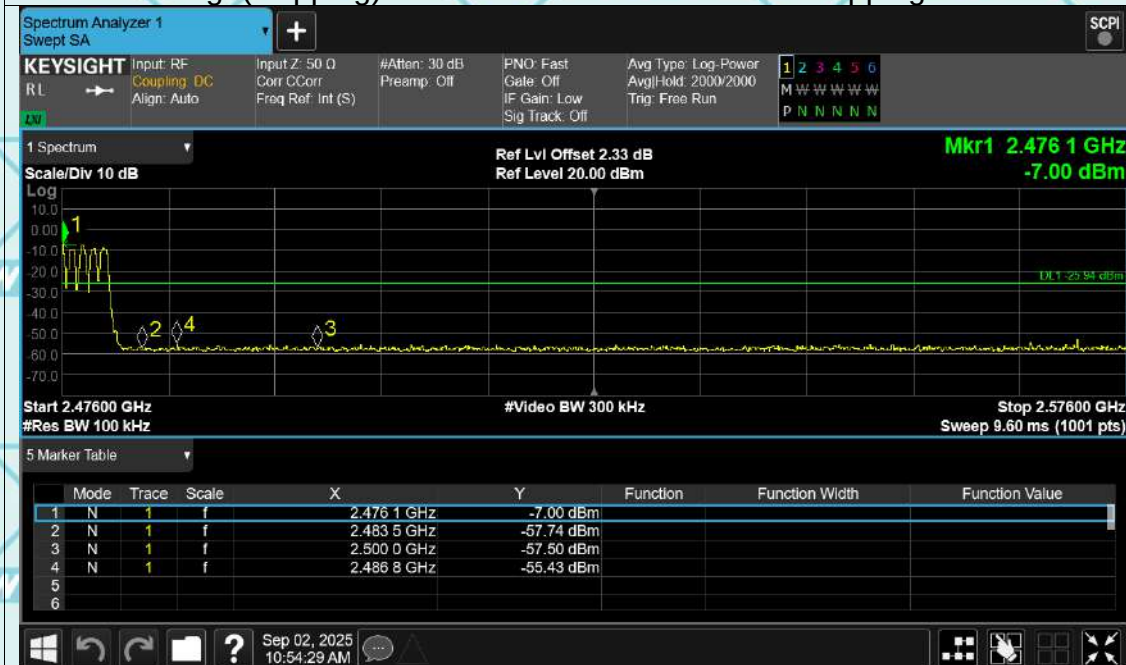
Test Graphs



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



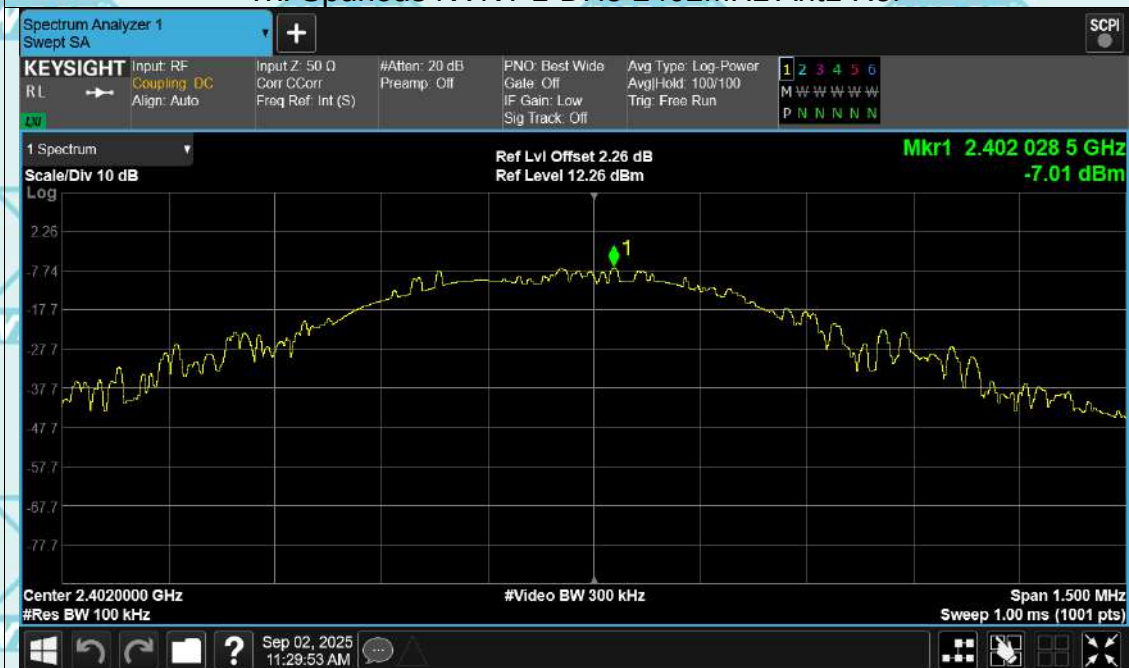
6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2020
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2020 Measurement Guidelines 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

Test Graphs

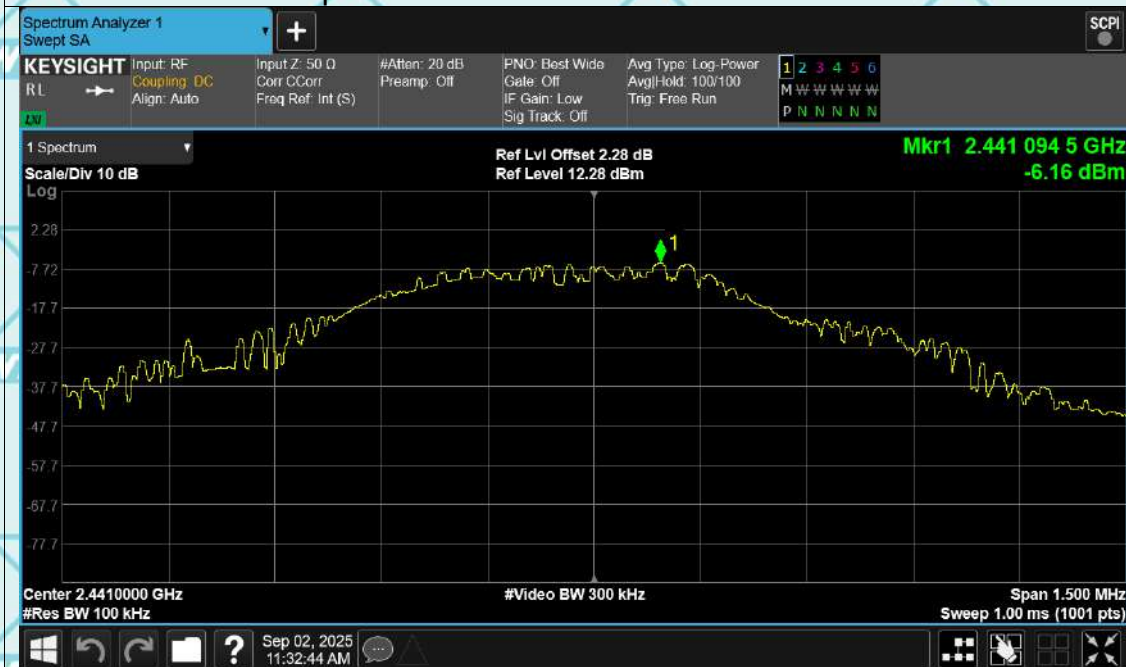
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



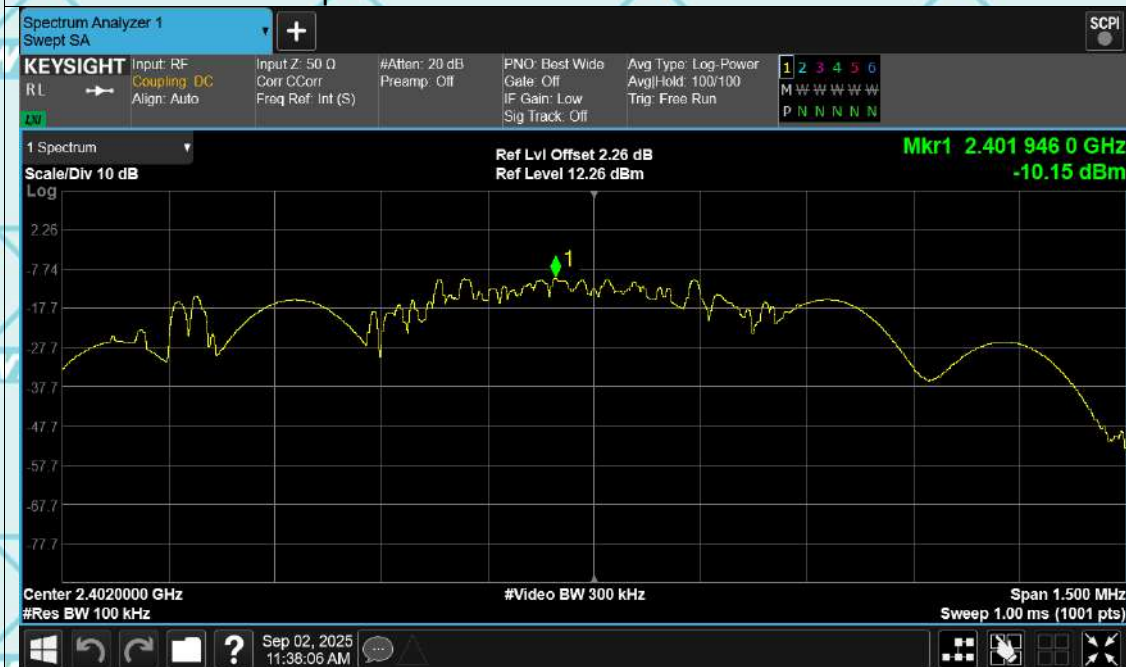
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



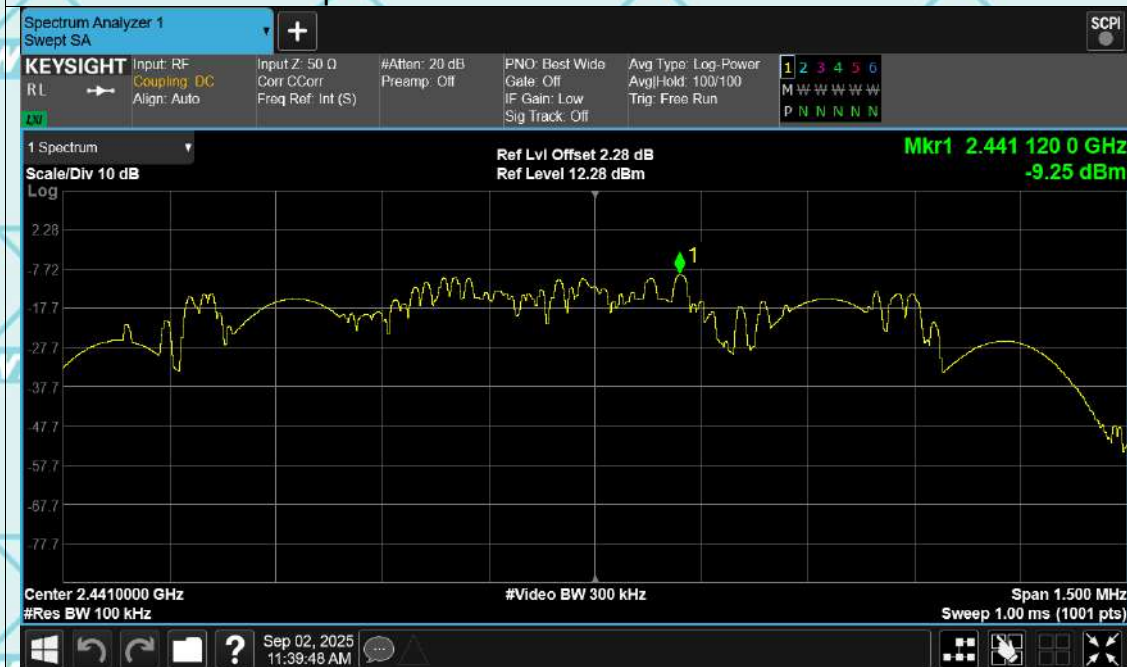
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



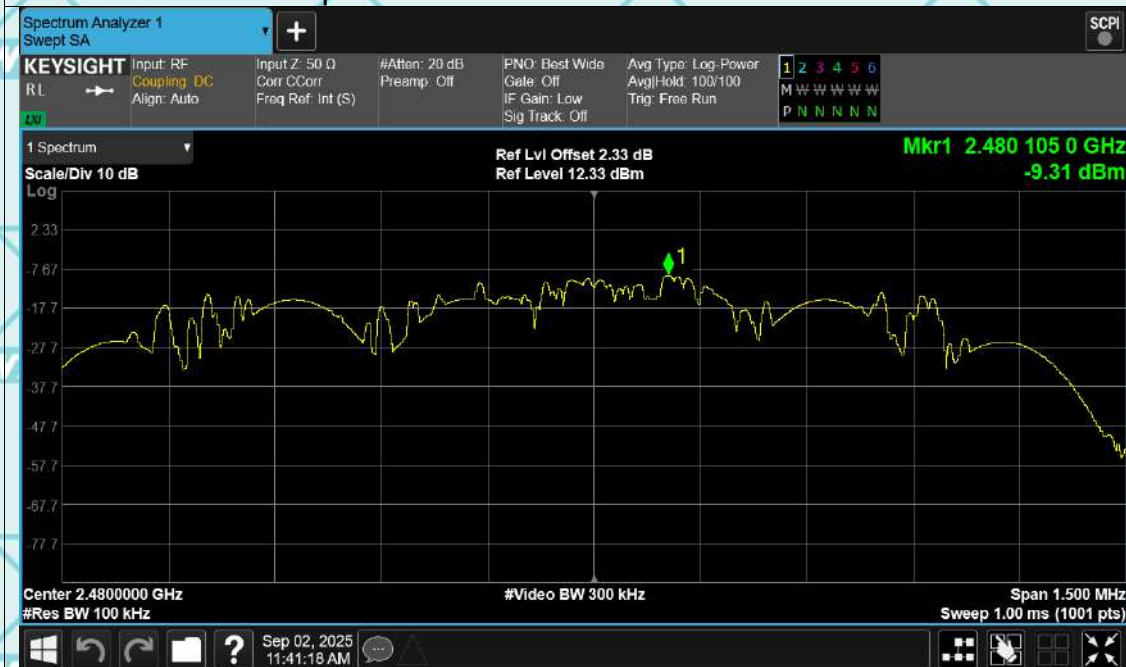
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



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

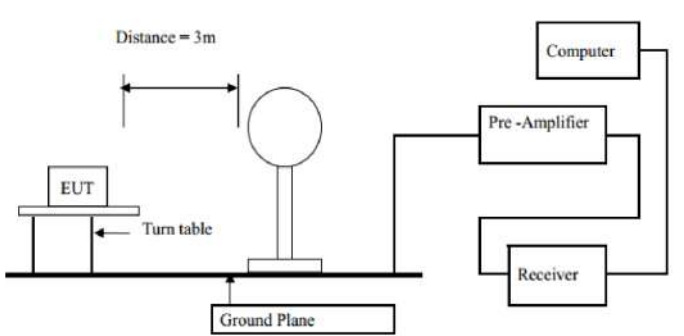


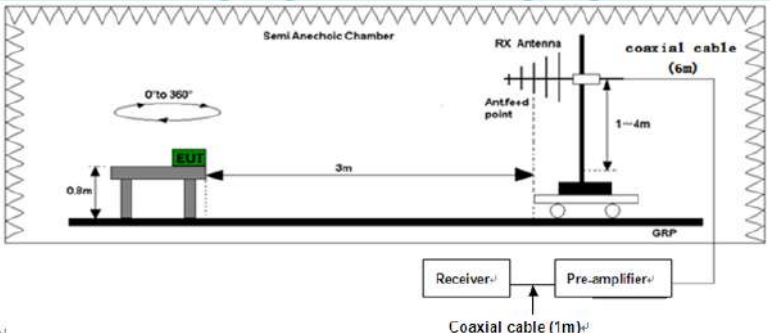
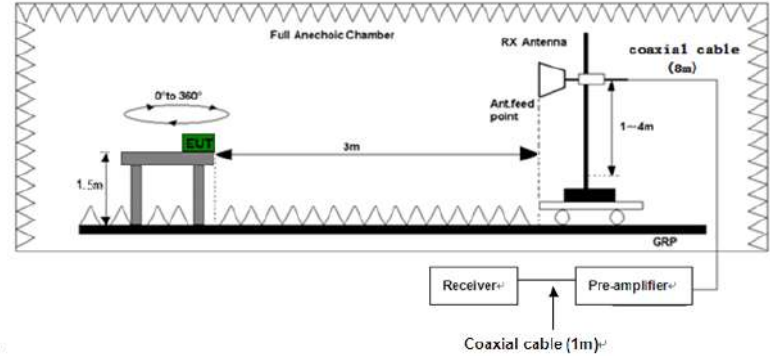
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



6.11. Radiated Spurious Emission Measurement

6.11.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.10:2020			
Frequency Range:	9 kHz to 25 GHz			
Measurement Distance:	3 m			
Test Voltage	120Vac/60Hz			
Antenna Polarization:	Horizontal & Vertical			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit:				Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Test setup:				Average Value
Test setup:	Frequency	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	30	30	
	30-88	100	3	
Test setup:	88-216	150	3	
	216-960	200	3	
	Above 960	500	3	
Test setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	Above 1GHz	500	3	Average
		5000	3	Peak
Test setup:	For radiated emissions below 30MHz			
				
	30MHz to 1GHz			

	 Above 1GHz
	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10:2020 Measurement Guidelines. 2. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final

	measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$GHz ; VBW$\geq$RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time = $N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + $20 \cdot \log(\text{Duty cycle})$ Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
Test results:	PASS

6.11.2. Test Data(worst case)

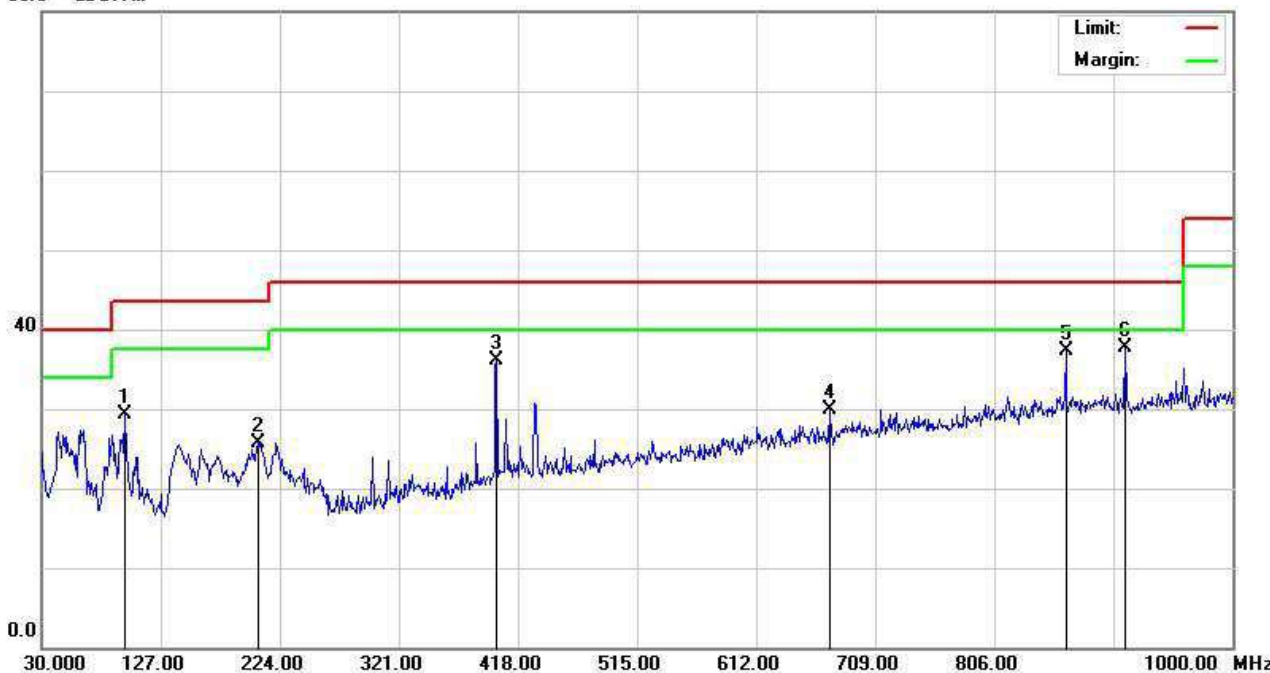
Please refer to following diagram for individual

The worst mode is GFSK

Below 1GHz

Horizontal:

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		97.9000	40.65	-11.42	29.23	43.50	-14.27	QP
2		206.5399	36.48	-10.74	25.74	43.50	-17.76	QP
3		400.5400	39.60	-3.54	36.06	46.00	-9.94	QP
4		672.1400	27.36	2.46	29.82	46.00	-16.18	QP
5		864.2000	31.20	6.15	37.35	46.00	-8.65	QP
6	*	912.7000	31.17	6.63	37.80	46.00	-8.20	QP

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Issued Date: 18 November 2025

Revised: None

Vertical:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	41.6400	57.48	-20.52	36.96	40.00	-3.04	QP
2		160.9500	44.74	-19.88	24.86	43.50	-18.64	QP
3		399.5700	51.38	-18.77	32.61	46.00	-13.39	QP
4		576.1100	46.44	-17.85	28.59	46.00	-17.41	QP
5		789.5100	46.77	-16.72	30.05	46.00	-15.95	QP
6		979.6300	47.61	-15.41	32.20	54.00	-21.80	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

e 150 kHz to 30MHz.

Report No.: WSCT-ANAB-R&E250900073A-BT

Issued Date: 18 November 2025

Revised: None

Above 1GHz

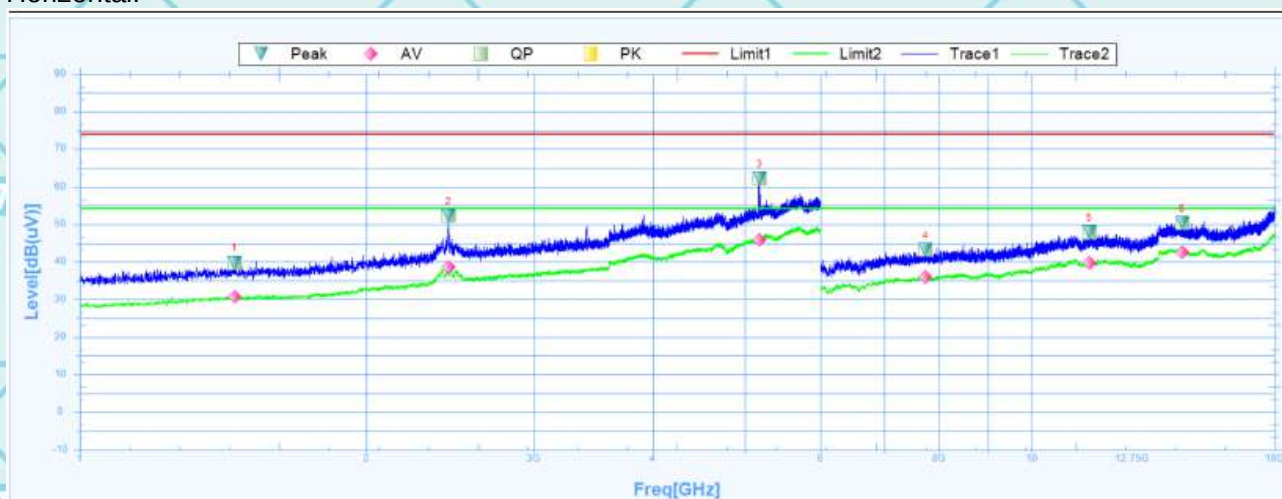
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

GFSK

Low channel: 2402MHz

Horizontal:

**Suspected Data List**

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1453.1250	39.81	25.05	14.76	74	-34.19	0.4	Horizontal	PK	Pass
1	1453.1250	30.65	25.05	5.6	54	-23.35	0.4	Horizontal	AV	Pass
2	2440.0000	52.29	27.4	24.89	74	-21.71	-0.1	Horizontal	PK	Pass
2	2440.0000	38.62	27.4	11.22	54	-15.38	-0.1	Horizontal	AV	Pass
3	5179.3750	62.31	31.74	30.57	74	-11.69	108.5	Horizontal	PK	Pass
3	5179.3750	45.8	31.74	14.06	54	-8.2	108.5	Horizontal	AV	Pass
4	7737.0000	43.29	7.97	35.32	74	-30.71	173.8	Horizontal	PK	Pass
4	7737.0000	35.88	7.97	27.91	54	-18.12	173.8	Horizontal	AV	Pass
5	11497.5000	47.78	16.12	31.66	74	-26.22	360.1	Horizontal	PK	Pass
5	11497.5000	39.62	16.12	23.5	54	-14.38	360.1	Horizontal	AV	Pass
6	14397.0000	50.35	18.72	31.63	74	-23.65	161.9	Horizontal	PK	Pass
6	14397.0000	42.51	18.72	23.79	54	-11.49	161.9	Horizontal	AV	Pass

Report No.: WSCT-ANAB-R&E250900073A-BT

Issued Date: 18 November 2025

Revised: None

Vertical:



Susputed Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1199.3750	38.53	24.4	14.13	74	-35.47	46.4	Vertical	PK	Pass
1	1199.3750	29.07	24.4	4.67	54	-24.93	46.4	Vertical	AV	Pass
2	2428.7500	47.15	27.36	19.79	74	-26.85	177.9	Vertical	PK	Pass
2	2428.7500	37.9	27.36	10.54	54	-16.1	177.9	Vertical	AV	Pass
3	5180.6250	57.9	31.74	26.16	74	-16.1	182.7	Vertical	PK	Pass
3	5180.6250	45.98	31.74	14.24	54	-8.02	182.7	Vertical	AV	Pass
4	7051.5000	42.8	6.52	36.28	74	-31.2	197.6	Vertical	PK	Pass
4	7051.5000	35.16	6.52	28.64	54	-18.84	197.6	Vertical	AV	Pass
5	9087.0000	45.1	9.91	35.19	74	-28.9	305.2	Vertical	PK	Pass
5	9087.0000	36.79	9.91	26.88	54	-17.21	305.2	Vertical	AV	Pass
6	13519.5000	47.66	17.74	29.92	74	-26.34	7	Vertical	PK	Pass
6	13519.5000	40.67	17.74	22.93	54	-13.33	7	Vertical	AV	Pass

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Revised: None

Middle channel: 2441MHz

Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1378.1250	38.93	25.02	13.91	74	-35.07	247.2	Horizontal	PK	Pass
1	1378.1250	30.12	25.02	5.1	54	-23.88	247.2	Horizontal	AV	Pass
2	2479.3750	46.43	27.53	18.9	74	-27.57	103.7	Horizontal	PK	Pass
2	2479.3750	37.33	27.53	9.8	54	-16.67	103.7	Horizontal	AV	Pass
3	4238.7500	51.09	30.13	20.96	74	-22.91	5.5	Horizontal	PK	Pass
3	4238.7500	41.94	30.13	11.81	54	-12.06	5.5	Horizontal	AV	Pass
4	7681.5000	42.92	7.96	34.96	74	-31.08	359.9	Horizontal	PK	Pass
4	7681.5000	35.51	7.96	27.55	54	-18.49	359.9	Horizontal	AV	Pass
5	10569.0000	46.44	14.2	32.24	74	-27.56	359.9	Horizontal	PK	Pass
5	10569.0000	38.8	14.2	24.6	54	-15.2	359.9	Horizontal	AV	Pass
6	13864.5000	49.89	18.73	31.16	74	-24.11	257.4	Horizontal	PK	Pass
6	13864.5000	42.51	18.73	23.78	54	-11.49	257.4	Horizontal	AV	Pass

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Revised: None

Vertical:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1515.0000	39.3	24.98	14.32	74	-34.7	96.7	Vertical	PK	Pass
1	1515.0000	30.53	24.98	5.55	54	-23.47	96.7	Vertical	AV	Pass
2	2440.0000	45.66	27.4	18.26	74	-28.34	359.6	Vertical	PK	Pass
2	2440.0000	37.93	27.4	10.53	54	-16.07	359.6	Vertical	AV	Pass
3	4351.8750	50.94	30.33	20.61	74	-23.06	247.3	Vertical	PK	Pass
3	4351.8750	42.76	30.33	12.43	54	-11.24	247.3	Vertical	AV	Pass
4	7306.5000	43.04	6.86	36.18	74	-30.96	360.1	Vertical	PK	Pass
4	7306.5000	34.95	6.86	28.09	54	-19.05	360.1	Vertical	AV	Pass
5	10582.5000	45.85	14.26	31.59	74	-28.15	360.1	Vertical	PK	Pass
5	10582.5000	39.14	14.26	24.88	54	-14.86	360.1	Vertical	AV	Pass
6	11937.0000	48.75	16.64	32.11	74	-25.25	0.6	Vertical	PK	Pass
6	11937.0000	40.17	16.64	23.53	54	-13.83	0.6	Vertical	AV	Pass

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High channel: 2480MHz

Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1395.0000	39.18	25.08	14.1	74	-34.82	65.4	Horizontal	PK	Pass
1	1395.0000	30.19	25.08	5.11	54	-23.81	65.4	Horizontal	AV	Pass
2	2410.6250	45.95	27.3	18.65	74	-28.05	43.8	Horizontal	PK	Pass
2	2410.6250	37.39	27.3	10.09	54	-16.61	43.8	Horizontal	AV	Pass
3	4701.2500	53.53	31	22.53	74	-20.47	251.8	Horizontal	PK	Pass
3	4701.2500	44.54	31	13.54	54	-9.46	251.8	Horizontal	AV	Pass
4	7527.0000	42.75	7.63	35.12	74	-31.25	313.8	Horizontal	PK	Pass
4	7527.0000	35.46	7.63	27.83	54	-18.54	313.8	Horizontal	AV	Pass
5	10932.0000	46.87	15.23	31.64	74	-27.13	22.2	Horizontal	PK	Pass
5	10932.0000	39.79	15.23	24.56	54	-14.21	22.2	Horizontal	AV	Pass
6	14257.5000	50.3	18.87	31.43	74	-23.7	6.2	Horizontal	PK	Pass
6	14257.5000	43	18.87	24.13	54	-11	6.2	Horizontal	AV	Pass

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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1411.2500	38.89	25.09	13.8	74	-35.11	203	Vertical	PK	Pass
1	1411.2500	30.58	25.09	5.49	54	-23.42	203	Vertical	AV	Pass
2	2400.6250	46.3	27.26	19.04	74	-27.7	215	Vertical	PK	Pass
2	2400.6250	37.5	27.26	10.24	54	-16.5	215	Vertical	AV	Pass
3	5171.2500	58.55	31.74	26.81	74	-15.45	93	Vertical	PK	Pass
3	5171.2500	45.73	31.74	13.99	54	-8.27	93	Vertical	AV	Pass
4	6934.5000	42.1	6.14	35.96	74	-31.9	269.8	Vertical	PK	Pass
4	6934.5000	34.14	6.14	28	54	-19.86	269.8	Vertical	AV	Pass
5	9622.5000	46.05	11.43	34.62	74	-27.95	46.3	Vertical	PK	Pass
5	9622.5000	37.24	11.43	25.81	54	-16.76	46.3	Vertical	AV	Pass
6	13621.5000	50.08	18.04	32.04	74	-23.92	359.3	Vertical	PK	Pass
6	13621.5000	42.71	18.04	24.67	54	-11.29	359.3	Vertical	AV	Pass

Note:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.
2. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
3. Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
4. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.

6.11.3. Restricted Bands Requirements

Bluetooth (GFSK, Pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result GFSK model was report as below

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel							
2387	61.72	-8.76	52.96	74	21.04	H	PK
2387	53.29	-8.76	44.53	54	9.47	H	AV
2387	60.43	-8.73	51.70	74	22.30	V	PK
2387	54.21	-8.73	45.48	54	8.52	V	AV
2390	60.95	-8.76	52.19	74	21.81	H	PK
2390	56.20	-8.76	47.44	54	6.56	H	AV
2390	62.90	-8.73	54.17	74	19.83	V	PK
2390	54.84	-8.73	46.11	54	7.89	V	AV
High Channel							
2483.5	63.38	-8.17	55.21	74	18.79	H	PK
2483.5	53.50	-8.17	45.33	54	8.67	H	AV
2483.5	61.05	-8.17	52.88	74	21.12	V	PK
2483.5	53.83	-8.17	45.66	54	8.34	V	AV

Note: Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Level (dBμV) – Limits (dBμV)

7 Test Setup Photographs

Please refer to Annex "Set Up Photos-15C " for test setup photos

*******END OF REPORT*******