

TEST REPORT

FCC ID: 2AYD2-SMART10

Product: Digital picture frame

Model No.: Smart 10

Additional Model No.: Smart 13, Smart 15, Smart 8

Trade Mark: Faminode

Report No.: TCT210202E043

Issued Date: May 20, 2021

Issued for:

Shenzhen Cnest Electronic Technology Co., Ltd. 212, no. 3-2, huayuan road, dalang community, longhua district, shenzhen, China

Issued By:

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TCT Testing Industrial Park, Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an
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. Test Certification

ANSI C63.10:2013

Product:	Digital picture frame			
Model No.:	Smart 10			
Additional Model No.:	Smart 13, Smart 15, Smart 8			
Trade Mark:	Faminode			
Applicant:	Shenzhen Cnest Electronic Technology Co., Ltd.			
Address:	212, no. 3-2, huayuan road, dalang community, longhua district, shenzhen, China			
Manufacturer:	Shenzhen Cnest Electronic Technology Co., Ltd.			
Address:	212, no. 3-2, huayuan road, dalang community, longhua district, shenzhen, China			
Date of Test:	Feb. 03, 2021 – May 19, 2021			
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02			

The above equipment has been tested by Shenzhen Tongce Testing Lab 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:	Laron Mo	Date:	May 19, 2021	
Reviewed By:	Aaron Mo Bery Was	Date:	May 20, 2021	
Approved By:	Beryl Zhao	Date:	May 20, 2021	

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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)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

- 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:	Digital picture frame
Model No.:	Smart 10
Additional Model No.:	Smart 13, Smart 15, Smart 8
Trade Mark:	Faminode
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20)
Modulation Technology (IEEE 802.11b):	Direct Sequence Spread Spectrum (DSSS)
Modulation Technology (IEEE 802.11g/802.11n):	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna Gain:	1.8dBi
Power Supply:	AC 120V/60Hz
AC adapter:	Adapter Information: Model: JHD-AP013U-0502000BA-B Input: AC 100-240V, 50/60Hz, 0.35A Output: DC 5V, 2000mA
Remark:	All models above are identical in interior structure, electrical circuits and components, just model names and trade mark are different for the marketing requirement.

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.





Operation Frequency each of channel For 802.11b/g/n(HT20)

1	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
	2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
	3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz



4. General Information

4.1. Test environment and mode

Operating Environment:						
Condition	Conducted Emission	Radiated Emission				
Temperature:	25.0 °C	25.0 °C				
Humidity:	55 % RH	55 % RH				
Atmospheric Pressure:	1010 mbar	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(Z axis) are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate	
802.11b	1Mbps	
802.11g	6Mbps	
802.11n(H20)	6.5Mbps	

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting
	with modulation

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.46% with maximum power setting for all modulations.



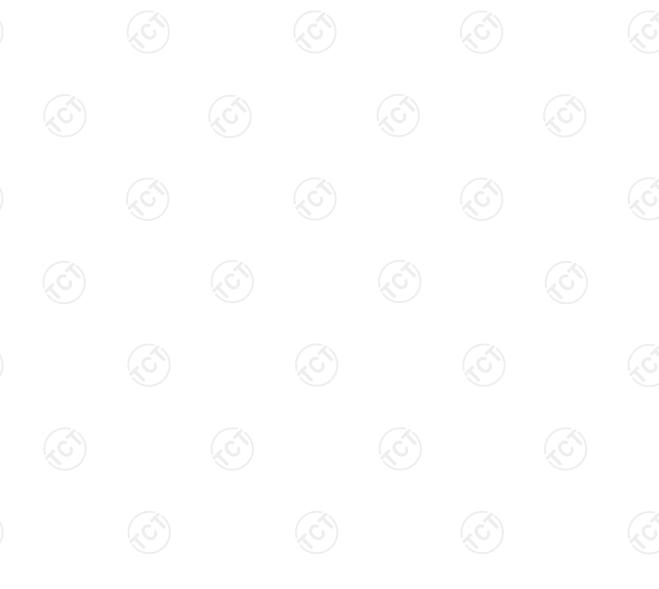
4.2. Description of Support Units

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
1	/	1	/	1

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, 6dB Emission Bandwidth, Power Spectral Density, 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.



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5. Facilities and Accreditations

5.1. Facilities

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

FCC - Registration No.: 645098
 Shenzhen Tongce Testing Lab

Designation Number: CN1205

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

CAB identifier: CN0031

The 3m Semi-anechoic chamber of SHENZHEN TONGCE TESTING LAB has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: TCT Testing Industrial Park, Fuqiao 5th Industrial Zone, Fuhai Street,

Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended 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	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

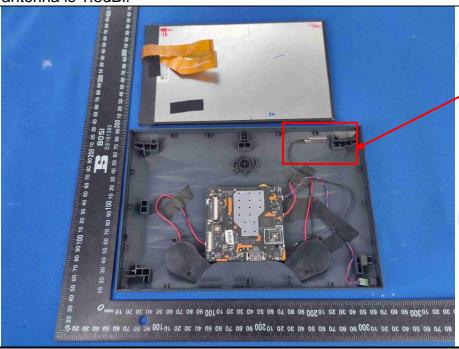
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 WIFI antenna is internal antenna which permanently attached, and the best case gain of the antenna is 1.8dBi.



Antenna

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6.2. Conducted Emission

6.2.1. Test Specification

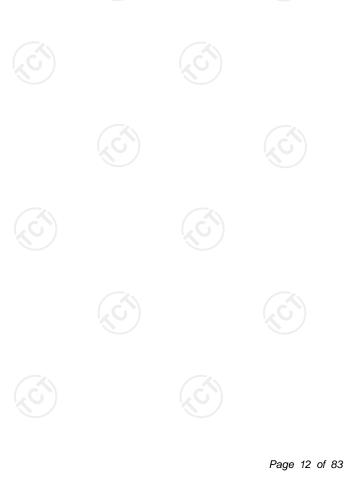
			-		
Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto		
	Frequency range	Limit (c	dBuV)		
	(MHz)	Quasi-peak	Average		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Reference	e Plane			
Test Setup: Comparison Com					
Test Mode:	Charging + transmitting	g with modulation			
Test Procedure:	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 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). 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: 2013 on conducted measurement. 				
Test Result:	PASS				
[A(3)]	(.ci)	(.c.)			



6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Test Receiver	R&S	ESCI3	100898	Jul. 27, 2021			
LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2021			
Line-5	TCT	CE-05	N/A	Sep. 02, 2021			
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



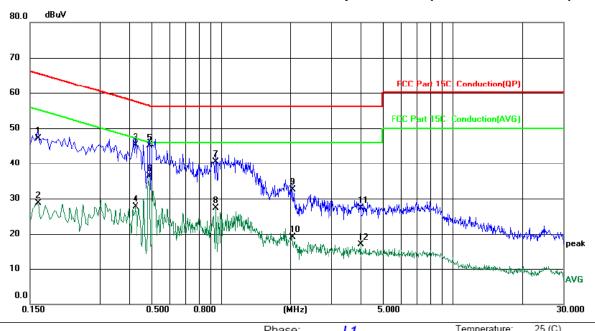


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6.2.3. Test data

Please refer to following diagram for individual

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



		NALL.	4D-37	٦D	4D. A7	4D\/	-ID	D-44	0		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
Limi	t: FCC	Part 15	C Conducti	on(QP)		Power	: AC	120 V/60 Hz		Humidity:	55 %RH
Site						riiase	;.	LI		remperature	. 23(0)

No	. Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.1620	37.00	10.07	47.07	65.36	-18.29	QP	
2		0.1620	18.70	10.07	28.77	55.36	-26.59	AVG	
3		0.4260	35.19	10.10	45.29	57.33	-12.04	QP	
4		0.4260	17.61	10.10	27.71	47.33	-19.62	AVG	
5		0.4900	34.98	10.10	45.08	56.17	-11.09	QP	
6	*	0.4900	26.13	10.10	36.23	46.17	-9.94	AVG	
7	,	0.9500	30.47	10.13	40.60	56.00	-15.40	QP	
8		0.9500	17.26	10.13	27.39	46.00	-18.61	AVG	
9	ı	2.0260	22.29	10.18	32.47	56.00	-23.53	QP	
10		2.0260	8.97	10.18	19.15	46.00	-26.85	AVG	
11		4.0220	16.99	10.26	27.25	56.00	-28.75	QP	
12		4.0220	6.59	10.26	16.85	46.00	-29.15	AVG	

Note:

Cito

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

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

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

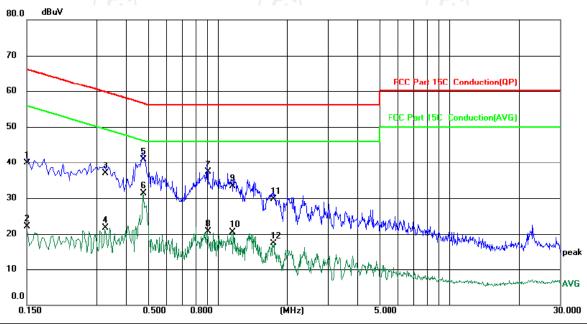
AVG =average

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





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



Site	Phase:	N	Temperature: 25 (C)
Limit: FCC Part 15C Conduction(QP)	Power:	AC 120 V/60 Hz	Humidity: 55 %RH

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
_	1		0.1500	29.78	10.10	39.88	66.00	-26.12	QP	
	2		0.1500	12.00	10.10	22.10	56.00	-33.90	AVG	
_	3		0.3260	26.76	10.12	36.88	59.55	-22.67	QP	
ζ_	4		0.3260	11.51	10.12	21.63	49.55	-27.92	AVG	
) _	5		0.4780	30.68	10.14	40.82	56.37	-15.55	QP	
	6	*	0.4780	21.15	10.14	31.29	46.37	-15.08	AVG	
	7		0.9060	27.17	10.17	37.34	56.00	-18.66	QP	
	8		0.9060	10.49	10.17	20.66	46.00	-25.34	AVG	
	9		1.1539	23.20	10.18	33.38	56.00	-22.62	QP	
_	10		1.1539	10.35	10.18	20.53	46.00	-25.47	AVG	
_	11		1.7420	19.56	10.22	29.78	56.00	-26.22	QP	
ζ_	12		1.7420	7.15	10.22	17.37	46.00	-28.63	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

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

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

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:	KDB 558074 D01 v05r02					
Limit:	30dBm					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 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. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 					
Test Result:	PASS					

6.3.2. Test Instruments

RF Test Room								
Equipment Manufacturer Model Serial Number Calibration D								
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021				
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021				
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.4. Emission Bandwidth

6.4.1. Test Specification

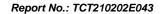
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	>500kHz					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 					
Test Result:	PASS					

6.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021			
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.5. Power Spectral Density

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 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. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.5.2. Test Instruments

RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021				
RF Cable (9KHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 11, 2021				
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

Toot Boguirement	FCC Part15 C Section 15.247 (d)
Test Requirement:	
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	Special Andrews EUT
T. 4 M. I.	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	 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. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS
Test Result:	PASS

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6.6.2. Test Instruments

	RI	F Test Room	1	
Equipment	Manufacturer Mode		Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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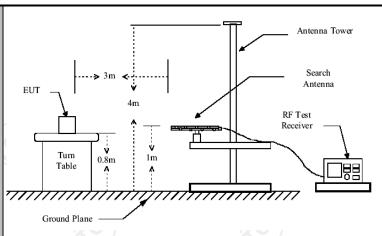


6.7. Radiated Spurious Emission Measurement

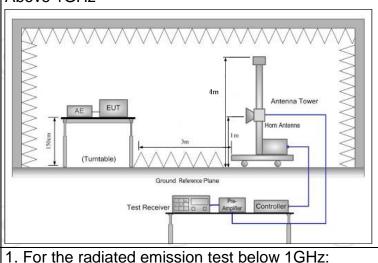
6.7.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.209			
Test Method:	ANSI C63.10	0: 2013			(
Frequency Range:	9 kHz to 25 (GHz			7	
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Transmitting	mode wit	h modulat	ion		
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz Above 1GHz	Detector Quasi-peal Quasi-peal Quasi-peal Peak Peak	k 9kHz	VBW 1kHz 30kHz 300KHz 3MHz 10Hz	Quas Quas Quas	Remark si-peak Value si-peak Value eak Value erage Value
Limit:	Frequence 0.009-0.4 0.490-1.7 1.705-3 30-88 88-216 216-96 Above 9	190 190 705 30 60 Fiel (micro	Field Stre (microvolts 2400/F(I 24000/F(I 24000/F(I 30 150 200 500 dd Strength ovolts/meter) 500	ength /meter) KHz) KHz)	Measurement Distance (meters) 300 30 30 30 3 3 3 3 3 3 Distance (meters) 300 Detector	
Test setup:	EUT	Turn table	s below 30	Pre -/	Comput	





Above 1GHz



Test Procedure:

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



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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission	Report No.: 1C1210202E0
of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission	 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW;	of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured;
Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum	 Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is
Test results: PASS	II



6.7.2. Test Instruments

	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 04, 2022
Antenna Mast	Keleto	RE-AM	N/A	N/A
Line-4	ТСТ	RE-high-04	N/A	Sep. 02, 2021
Line-8	тст	RE-01	N/A	Jul. 27, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

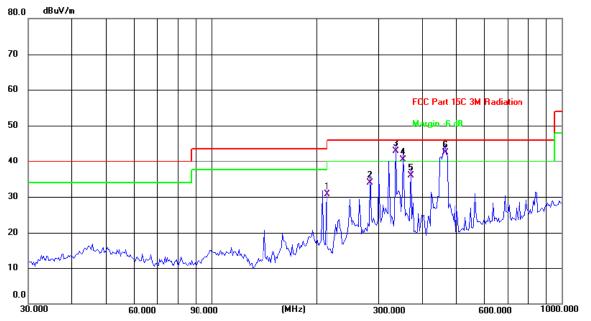
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.7.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:

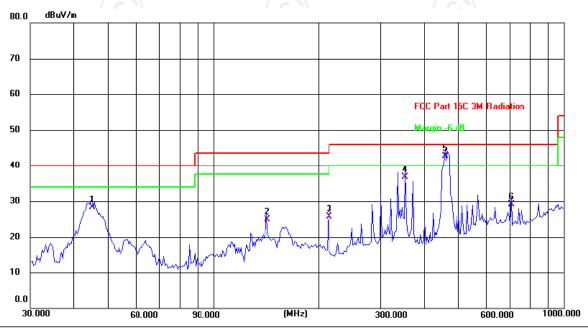


Site Polarization: Horizontal Temperature: 25(C)
Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
X			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
	1		213.1032	43.98	-13.26	30.72	43.50	-12.78	QP
_	2		284.2606	44.86	-10.86	34.00	46.00	-12.00	QP
_	3	*	336.4816	52.43	-9.58	42.85	46.00	-3.15	QP
_	4	İ	353.4471	49.70	-9.29	40.41	46.00	-5.59	QP
` ``	5		371.2678	45.21	-9.34	35.87	46.00	-10.13	QP
_ ر	6	İ	464.8867	50.77	-8.29	42.48	46.00	-3.52	QP



Vertical:



Site Polarization: Vertical Temperature: 25(C)
Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

-	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
	1		44.7793	40.53	-12.18	28.35	40.00	-11.65	QP
<u> </u>	2		141.7694	40.65	-15.80	24.85	43.50	-18.65	QP
_	3		213.1035	39.03	-13.26	25.77	43.50	-17.73	QP
	4		353.4471	45.90	-9.29	36.61	46.00	-9.39	QP
	5	*	458.3987	51.00	-8.30	42.70	46.00	-3.30	QP
-	6		708.6941	34.17	-5.02	29.15	46.00	-16.85	QP

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

- 2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20)), and the worst case Mode (Highest channel and 802.11b) was submitted only.
- 3. Freq. = Emission frequency in MHz

 $\textit{Measurement (dB}\mu\textit{V/m}) = \textit{Reading level (dB}\mu\textit{V}) + \textit{Corr. Factor (dB)}$

Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

 $Limit (dB\mu V/m) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V/m) - Limits (dB\mu V/m)$

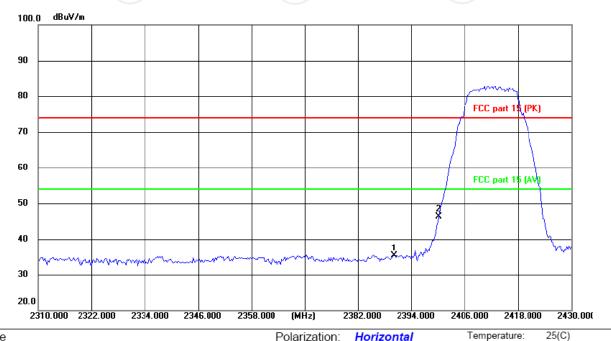
^{*} is meaning the worst frequency has been tested in the test frequency range.



Test Result of Radiated Spurious at Band edges

Lowest channel 2412:

Horizontal:

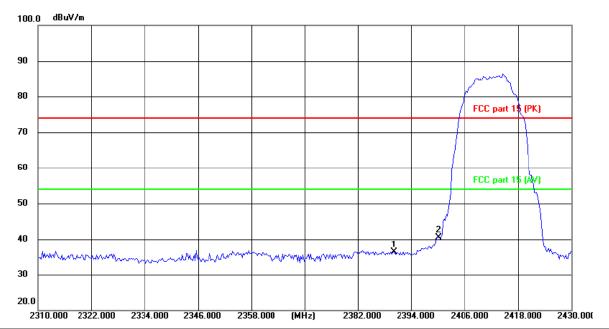


Site Polarization: Horizontal Temperature: 2
Limit: FCC part 15 (PK) Power: Humidity: 55 %

	No.	Mk	. Freq.			Measure- ment	Limit	Over	
_			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
X	1		2390.000	48.39	-13.15	35.24	74.00	-38.76	peak
_	2	*	2400.000	59.41	-13.12	46.29	74.00	-27.71	peak



Vertical:



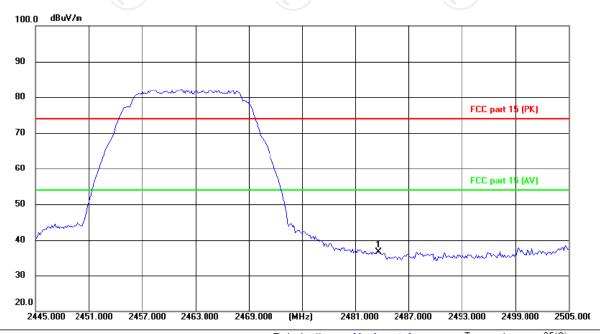
Site Polarization: Vertical Temperature: 25(C)
Limit: FCC part 15 (PK) Power: Humidity: 55 %

_	No. Mk.		Freq.	Reading Correct Measure- Freq. Level Factor ment		Limit	Over		
_			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
	1	23	390.000	49.46	-13.15	36.31	74.00	-37.69	peak
_	2	* 24	100.000	53.69	-13.12	40.57	74.00	-33.43	peak



Highest channel 2462:

Horizontal:

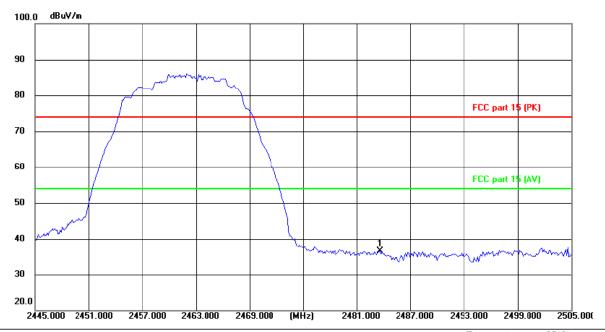


Site Polarization: Horizontal Temperature: 25(C)
Limit: FCC part 15 (PK) Power: Humidity: 55 %

	No. M	k. Fr				Measure- ment	Limit	Over	
		MI	Hz	dBuV	dB	dBuV/m	dB/m	dB	Detector
×-	1 *	2483.5	500	49.15	-12.74	36.41	74.00	-37.59	peak



Vertical:



Site Polarization: Vertical Temperature: 25(C)
Limit: FCC part 15 (PK) Power: Humidity: 55 %

-	No.	Mk	c. Freq.			Measure- ment	Limit	Over	
-			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
_	1	*	2483.500	49.18	-12.74	36.44	74.00	-37.56	peak

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20)), and the worst case Mode (802.11b) was submitted only.



Above 1GHz

Modulation Type: 802.11b

	Low channel: 2412 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	T	47.59		0.75	48.34		74	54	-5.66
7236	H	37.02		9.87	46.89		74	54	-7.11
\	Н				💘	-J-		X.	
4824	V	46.84		0.75	47.59		74	54	-6.41
7236	V	37.37		9.87	47.24		74	54	-6.76
	V			((

			M	iddle chann	el: 2437MF	·Ιz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	C H	48.60	(-, C)	0.97	49.57	·C ? }	74	54	-4.43
7311	H	38.15		9.83	47.98		74	54	-6.02
	Н								
4874	V	46.28		0.97	47.25		74	54	-6.75
7311	V	35.71		9.83	45.54		74	54	-8.46
J	V	\\\\		(<i>)</i>		,		

	High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	H	47.93	-77	1.18	49.11	<u></u>	74	54	-4.89		
7386	Н	35.46		10.07	45.53		74	54	-8.47		
	Н										
X.					Z)						
4924	V	46.52		1.18	47.7		74	54	-6.3		
7386	V	36.85		10.07	46.92		74	54	-7.08		
	V										

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. 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.
- 6. All the restriction bands are compliance with the limit of 15.209.





Modulation Type: 802.11g

	Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4824	Η	47.03		0.75	47.78		74	54	-6.22		
7236	Η	35.86		9.87	45.73		74	54	-8.27		
	Н					-					
4824	V	48.74	140	0.75	49.49	7-	74	54	-4.51		
7236	V	37.39		9.87	47.26		74	54	-6.74		
	V										

	Middle channel: 2437MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4874	Ι	47.64		0.97	48.61		74	54	-5.39		
7311	Ŧ,	38.48		9.83	48.31		74	54	-5.69		
(H		fC		(. C 24		(C)			
7				/	7				7		
4874	V	46.15		0.97	47.12		74	54	-6.88		
7311	V	37.92		9.83	47.75		74	54	-6.25		
	V										

	High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	H	48.57	7-	1.18	49.75		74	54	-4.25		
7386	OH	38.20	C	10.07	48.27	(O-1)	74	54	-5.73		
`	H		77								
4924	V	46.46		1.18	47.64		74	54	-6.36		
7386	V	37.83		10.07	47.90		74	54	-6.10		
	V	(. C.)		(, ((.e.)		(, (

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. 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.
- 6. All the restriction bands are compliance with the limit of 15.209.





Modulation Type: 802.11n (HT20)

mediation Type: Gozii in (TTZG)											
	Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4824	Ι	48.63		0.75	49.38		74	54	-4.62		
7236	Ι	38.72		9.87	48.59		74	54	-5.41		
	H										
4824	V	46.10	120	0.75	46.85	- J-	74	54	-7.15		
7236	>	35.59		9.87	45.46		74	54	-8.54		
	V										

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	47.81		0.97	48.78		74	54	-5.22
7311	H	37.46		9.83	47.29		74	54	-6.71
(H		 -C		(f-; C)	
~									/
4874	V	47.08		0.97	48.05		74	54	-5.95
7311	V	37.94		9.83	47.77		74	54	-6.23
	V								

	High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	H	46.25		1.18	47.43		74	54	-6.57		
7386	OH	36.83	C	10.07	46.90	(O-)	74	54	-7.10		
`	H					<u></u>		-32			
4924	V	46.52		1.18	47.70		74	54	-6.30		
7386	V	36.61		10.07	46.68		74	54	-7.32		
	V	(-G)		(, ()		(.e.)		(, (

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. 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.
- 6. All the restriction bands are compliance with the limit of 15.209.







Appendix A: Test Result of Conducted Test

Duty Cycle

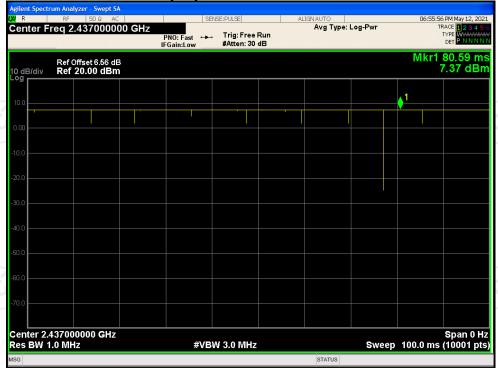
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	100	0
NVNT	b	2437	100	0
NVNT	b	2462	100	0
NVNT	g	2412	100	0
NVNT	g	2437	100	0
NVNT	g	2462	100	0
NVNT	n20	2412	100	0
NVNT	n20	2437	100	0
NVNT	n20	2462	100	0

Duty Cycle NVNT b 2412MHz

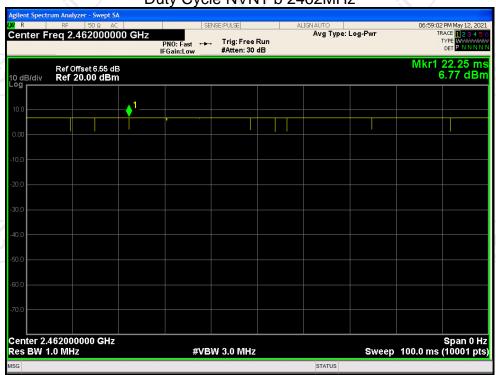




Duty Cycle NVNT b 2437MHz

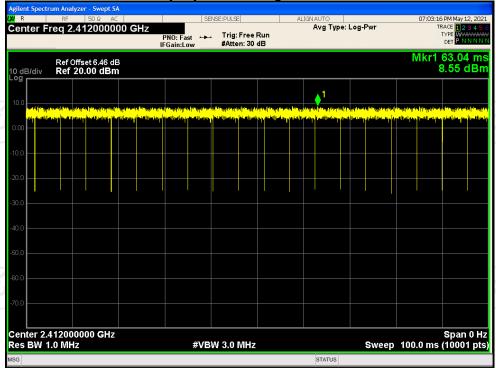


Duty Cycle NVNT b 2462MHz

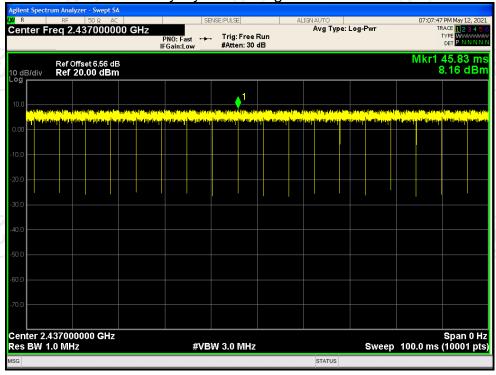




Duty Cycle NVNT g 2412MHz

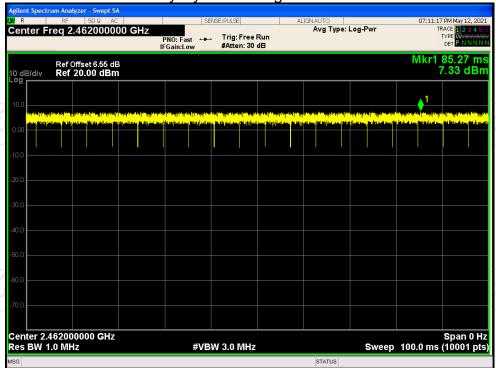


Duty Cycle NVNT g 2437MHz

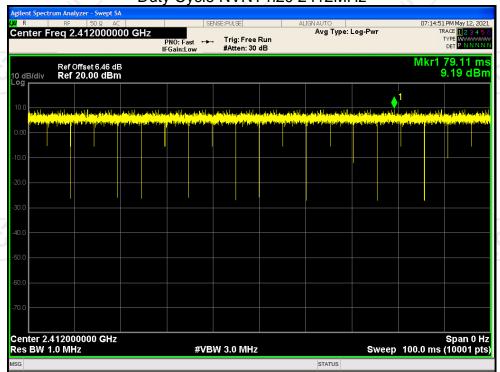




Duty Cycle NVNT g 2462MHz

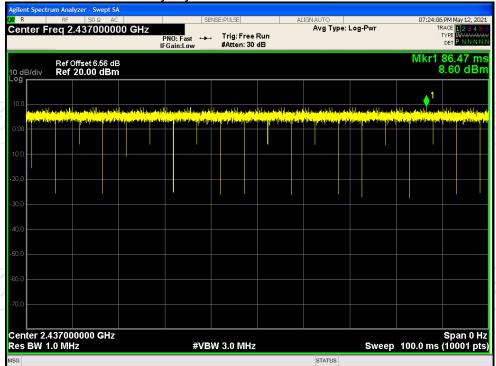


Duty Cycle NVNT n20 2412MHz

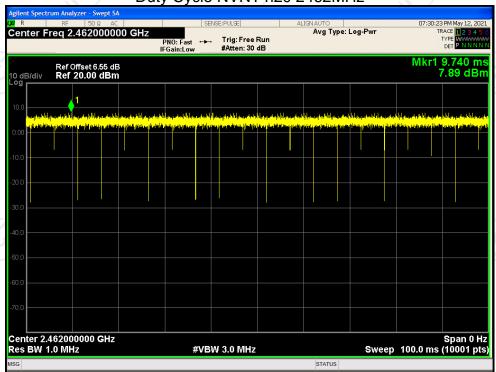




Duty Cycle NVNT n20 2437MHz



Duty Cycle NVNT n20 2462MHz

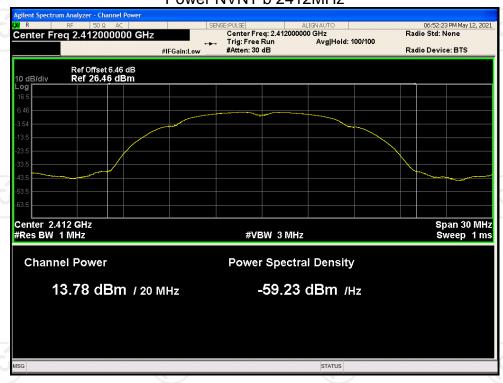




Maximum Conducted Output Power

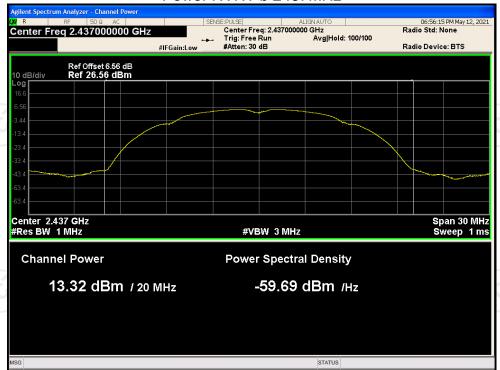
							
Condition	Mode	Frequency	Conducted	Duty	Total	Limit	Verdict
		(MHz)	Power (dBm)	Factor	Power	(dBm)	
				(dB)	(dBm)		
NVNT	b	2412	13.784	0	13.784	30	Pass
NVNT	b	2437	13.325	0	13.325	30	Pass
NVNT	b	2462	12.663	0	12.663	30	Pass
NVNT	g	2412	13.383	0	13.383	30	Pass
NVNT	g	2437	13.058	0	13.058	30	Pass
NVNT	g	2462	12.349	0	12.349	30	Pass
NVNT	n20	2412	13.473	0	13.473	30	Pass
NVNT	n20	2437	12.985	0	12.985	30	Pass
NVNT	n20	2462	12.356	0	12.356	30	Pass

Power NVNT b 2412MHz

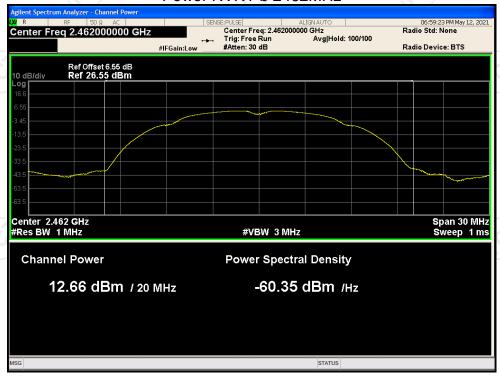




Power NVNT b 2437MHz

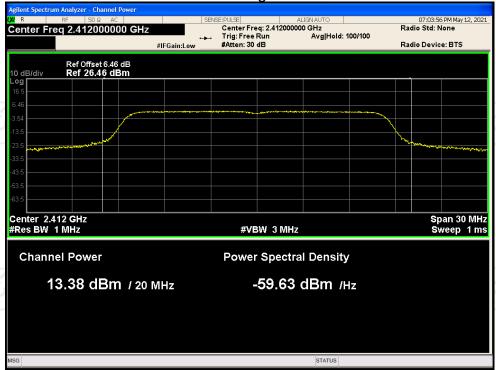


Power NVNT b 2462MHz

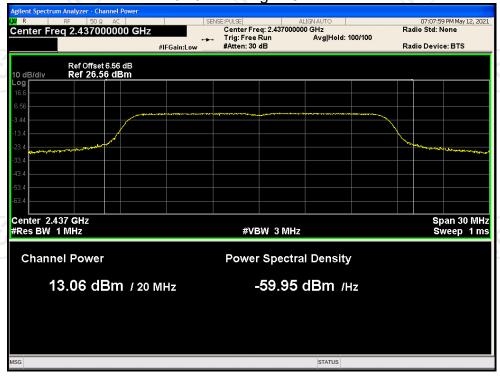




Power NVNT g 2412MHz

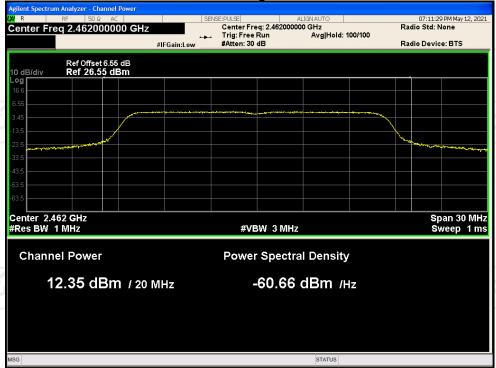


Power NVNT g 2437MHz

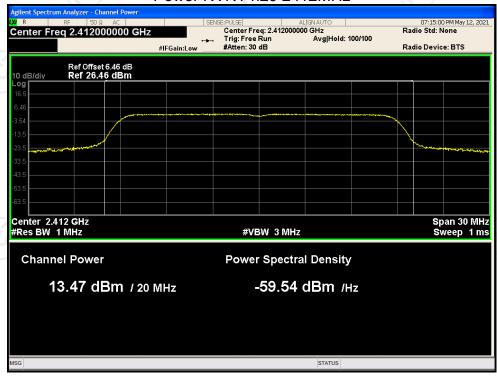




Power NVNT g 2462MHz

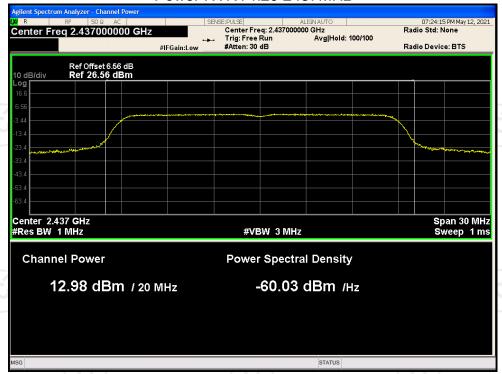


Power NVNT n20 2412MHz

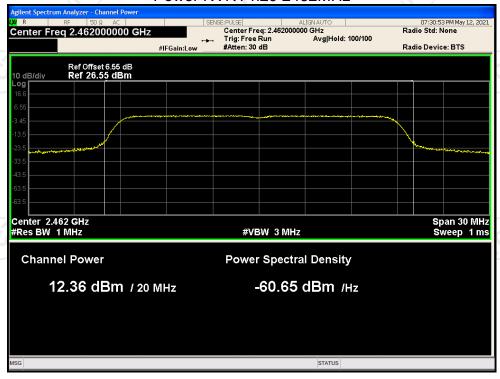




Power NVNT n20 2437MHz



Power NVNT n20 2462MHz





-6dB Bandwidth

Condition	Mode	Frequency	-6 dB Bandwidth	Limit -6 dB Bandwidth	Verdict
		(MHz)	(MHz)	(MHz)	(.0
NVNT	b	2412	9.088	0.5	Pass
NVNT	b	2437	9.089	0.5	Pass
NVNT	b	2462	10.037	0.5	Pass
NVNT	g	2412	16.337	0.5	Pass
NVNT	g	2437	16.351	0.5	Pass
NVNT	g	2462	16.331	0.5	Pass
NVNT	n20	2412	17.566	0.5	Pass
NVNT	n20	2437	17.647	0.5	Pass
NVNT	n20	2462	17.53	0.5	Pass

-6dB Bandwidth NVNT b 2412MHz





-6dB Bandwidth NVNT b 2437MHz

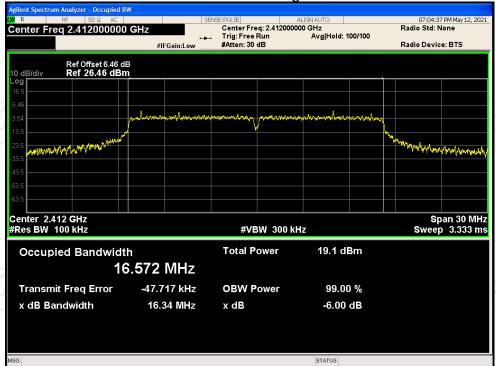


-6dB Bandwidth NVNT b 2462MHz





-6dB Bandwidth NVNT g 2412MHz

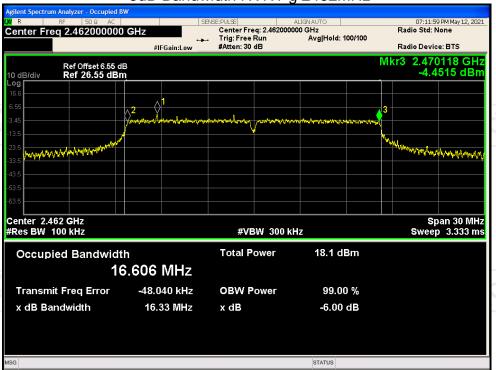


-6dB Bandwidth NVNT g 2437MHz

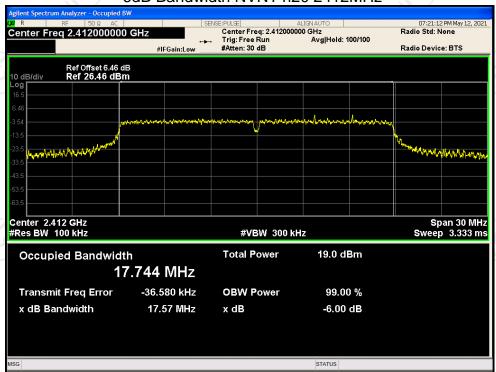




-6dB Bandwidth NVNT g 2462MHz

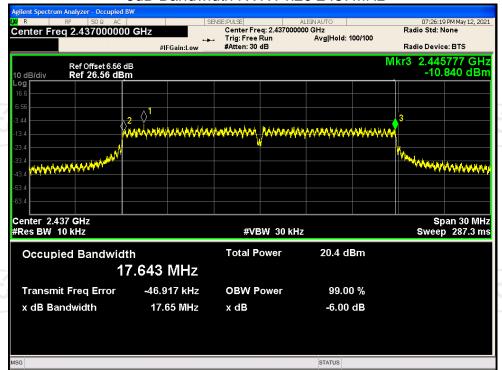


-6dB Bandwidth NVNT n20 2412MHz

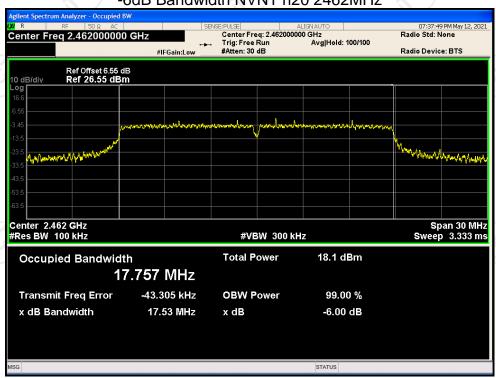




-6dB Bandwidth NVNT n20 2437MHz



-6dB Bandwidth NVNT n20 2462MHz





Maximum Power Spectral Density Level

maximum: One: operical periody zero:						
Condition	Mode	Frequency (MHz)	Result	Result	Limit	Verdict
	([dBm/10kHz]	[dBm/3kHz]	[dBm/3kHz]	(
NVNT	b	2412	-13.571	-18.801	8	Pass
NVNT	b	2437	-14.06	-19.290	8	Pass
NVNT	b	2462	-14.946	-20.176	8	Pass
NVNT	g	2412	-16.365	-21.595	8	Pass
NVNT	g	2437	-16.694	-21.924	8	Pass
NVNT	g	2462	-17.67	-22.900	8	Pass
NVNT	n20	2412	-16.599	-21.829	8	Pass
NVNT	n20	2437	-16.908	-22.138	- 8	Pass
NVNT	n20	2462	-17.655	-22.885	8	Pass

PSD NVNT b 2412MHz





PSD NVNT b 2437MHz

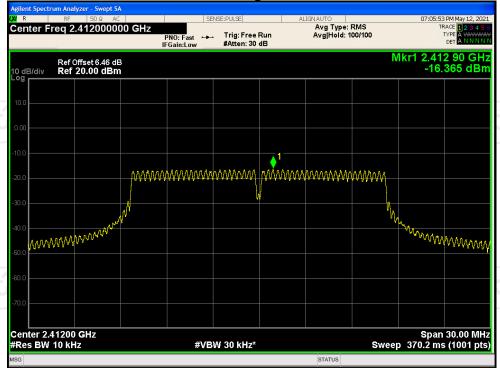


PSD NVNT b 2462MHz

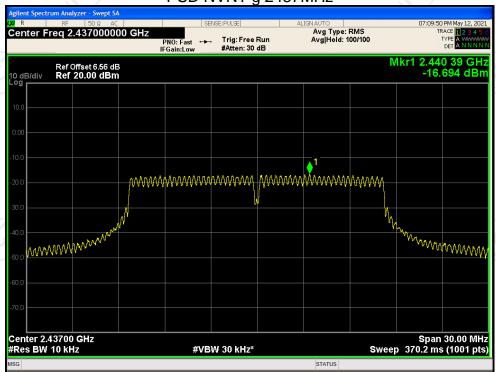




PSD NVNT g 2412MHz

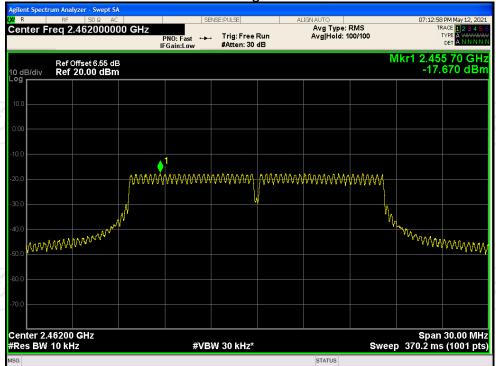


PSD NVNT g 2437MHz

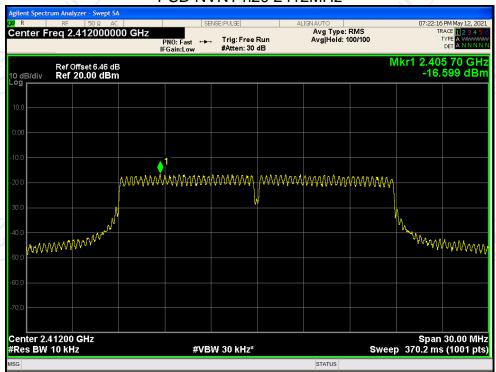




PSD NVNT g 2462MHz

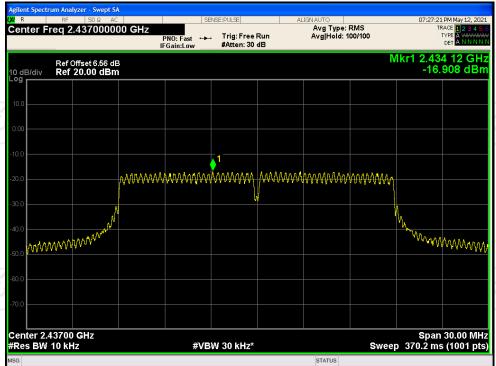


PSD NVNT n20 2412MHz

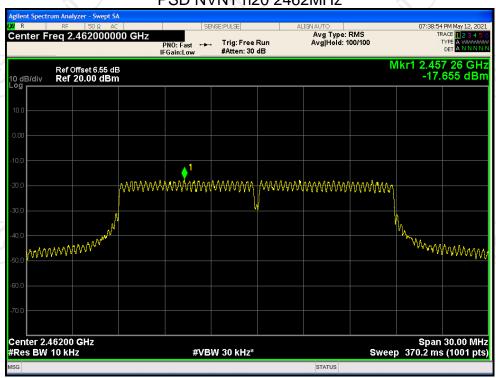




PSD NVNT n20 2437MHz



PSD NVNT n20 2462MHz





Band Edge

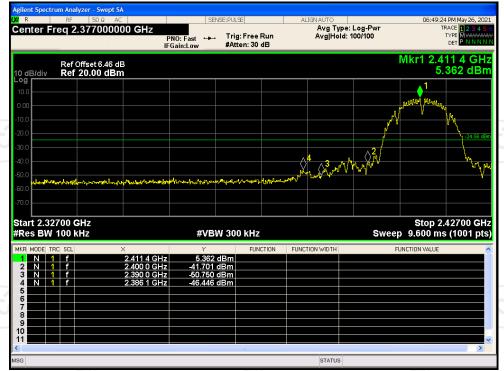
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-51.88	-30	Pass
NVNT	b	2462	-51.34	-30	Pass
NVNT	g	2412	-37.67	-30	Pass
NVNT	g	2462	-34.88	-30	Pass
NVNT	n20	2412	-35.9	-30	Pass
NVNT	n20	2462	-32.14	-30	Pass

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



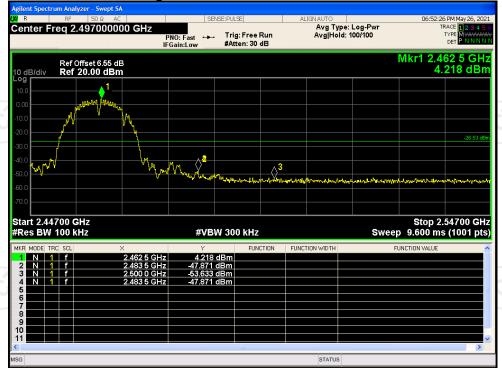


Band Edge NVNT b 2462MHz Ant1 Ref





Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ref

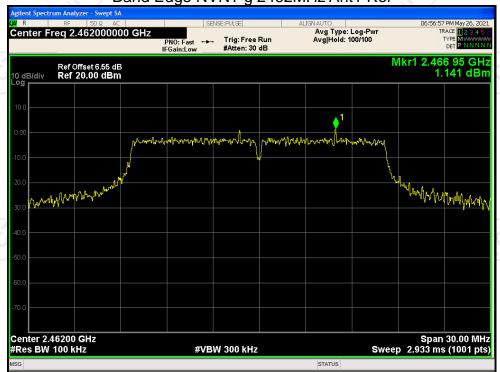




Band Edge NVNT g 2412MHz Emission



Band Edge NVNT g 2462MHz Ant1 Ref





Band Edge NVNT g 2462MHz Ant1 Emission

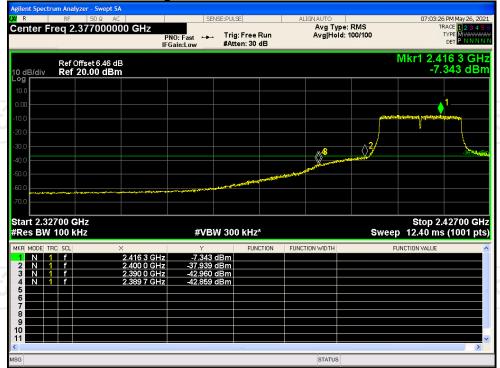


Band Edge NVNT n20 2412MHz Ref





Band Edge NVNT n20 2412MHz Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission





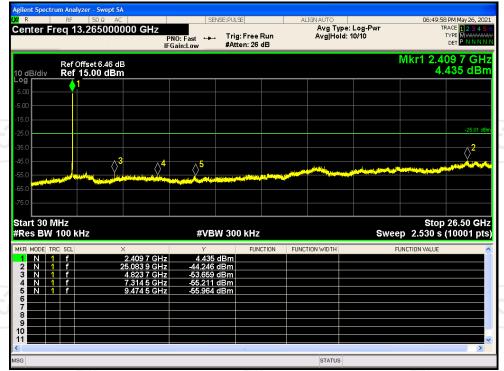
Conducted RF Spurious Emission

	-			-	
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-49.23	-30	Pass
NVNT	b	2437	-48.41	-30	Pass
NVNT	b	2462	-47.73	-30	Pass
NVNT	g	2412	-46.67	-30	Pass
NVNT	g	2437	-45.74	-30	Pass
NVNT	g	2462	-46.12	-30	Pass
NVNT	n20	2412	-47.41	-30	Pass
NVNT	n20	2437	-45.65	-30	Pass
NVNT	n20	2462	-45.56	-30	Pass

Tx. Spurious NVNT b 2412MHz Ant1 Ref



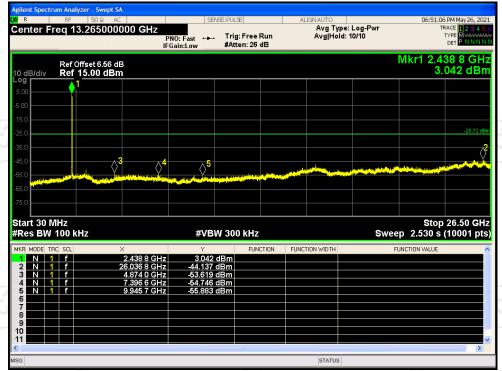
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



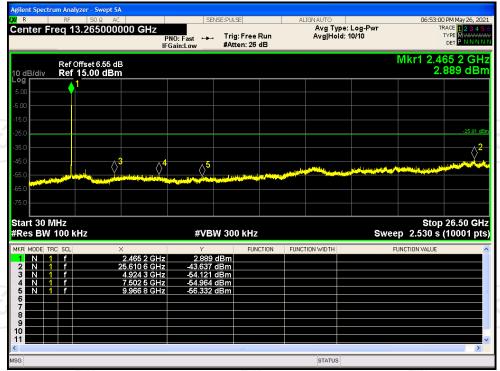
Tx. Spurious NVNT b 2437MHz Ant1 Emission



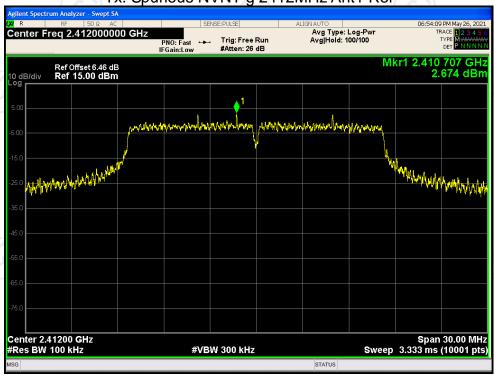
Tx. Spurious NVNT b 2462MHz Ant1 Ref



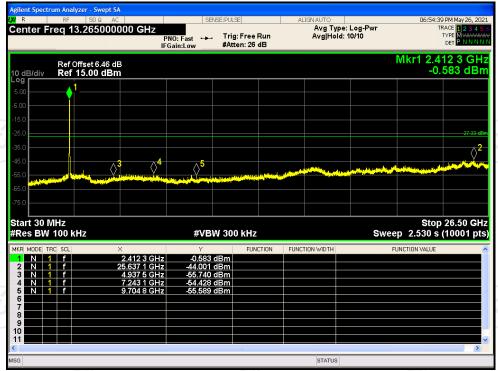
Tx. Spurious NVNT b 2462MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref



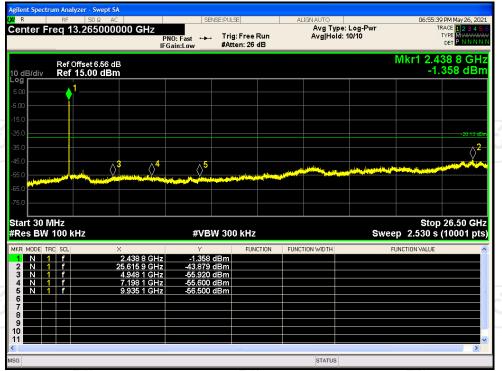
Tx. Spurious NVNT g 2412MHz Ant1 Emission



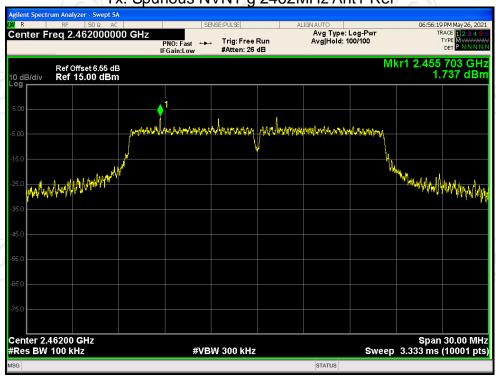
Tx. Spurious NVNT g 2437MHz Ant1 Ref



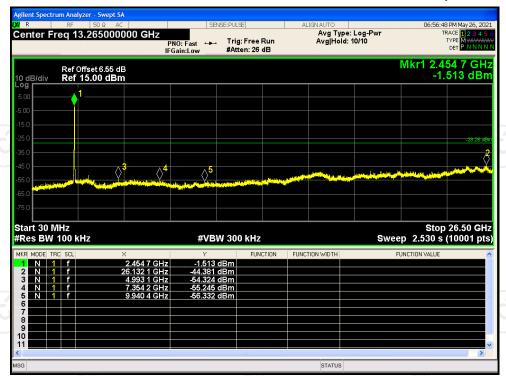
Tx. Spurious NVNT g 2437MHz Ant1 Emission



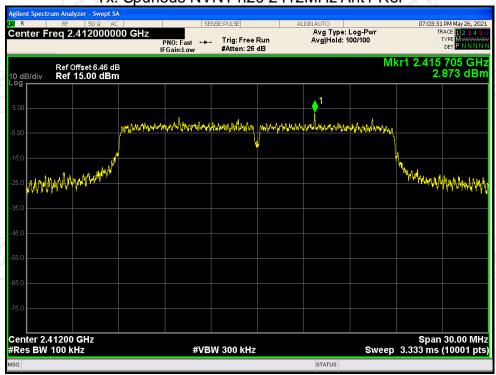
Tx. Spurious NVNT g 2462MHz Ant1 Ref



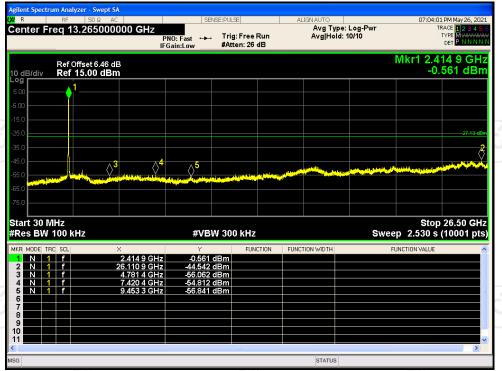
Tx. Spurious NVNT g 2462MHz Ant1 Emission



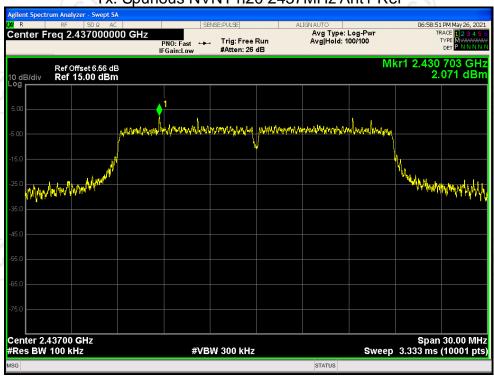
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



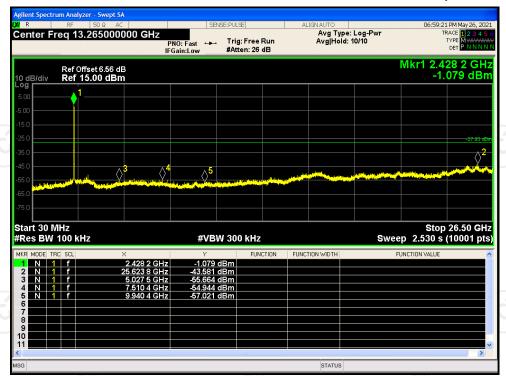
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



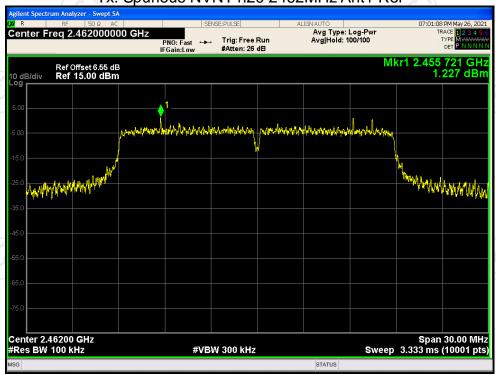
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

