14.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

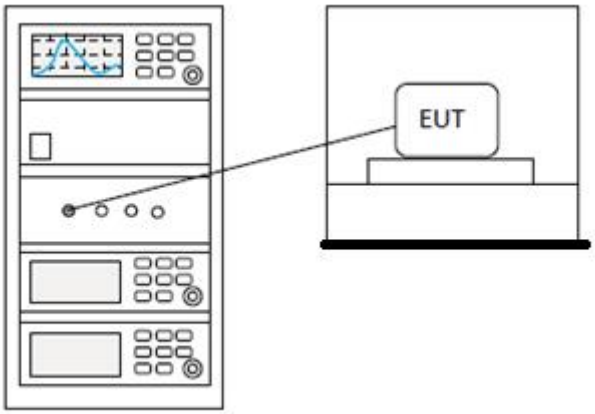
15 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25℃
Humidity	60%

15.1 LIMITS

Limit:	≥500 kHz

15.2 BLOCK DIAGRAM OF TEST SETUP



15.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

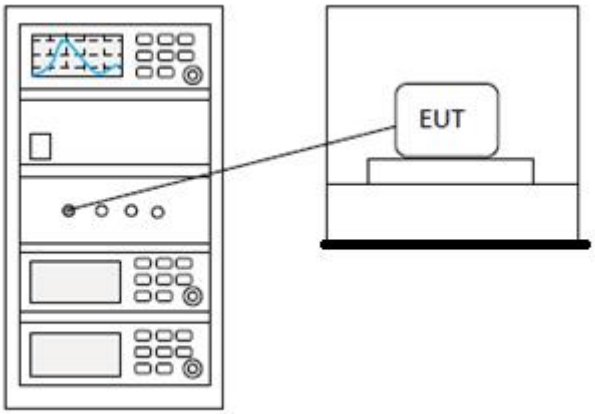
16 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25℃
Humidity	60%

16.1 LIMITS

Limit:	≤8dBm in any 3 kHz band during any time interval of continuous transmission

16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

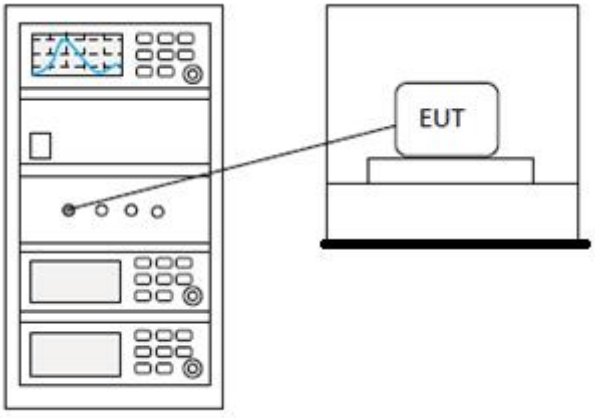
17 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25℃
Humidity	60%

17.1 LIMITS

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

17.2 BLOCK DIAGRAM OF TEST SETUP



17.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

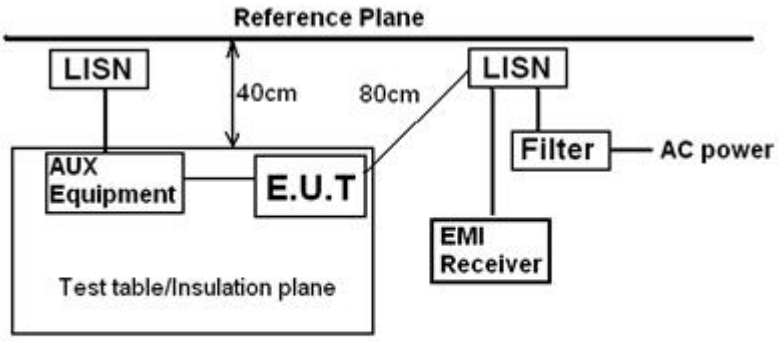
18 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25℃
Humidity	60%

18.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

18.2 BLOCK DIAGRAM OF TEST SETUP



Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m

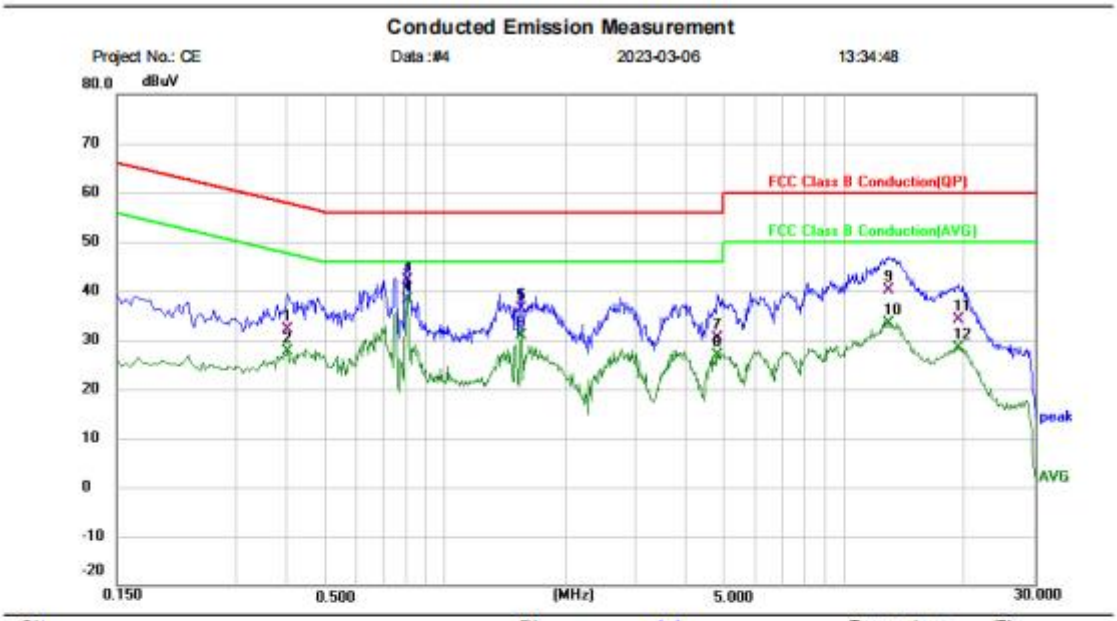
18.3 PROCEDURE

1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
5) 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 on conducted measurement.
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

18.4 TEST DATA

[TestMode: TX]; [Line: Line]; [Power:AC120V/60Hz]



Site
Limit: FCC Class B Conduction(QP)
EUT: Dash Cam
M/N: Mini Pro
Mode: TX
Note:

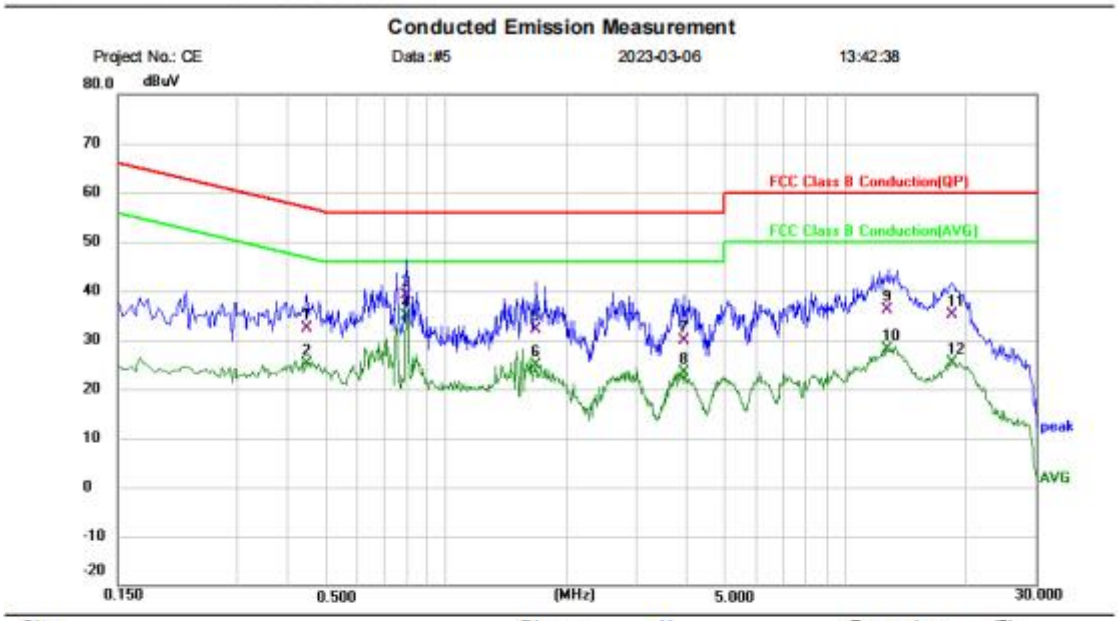
Phase: L1
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4020	22.14	10.07	32.21	57.81	-25.60	QP	
2		0.4020	17.49	10.07	27.56	47.81	-20.25	AVG	
3		0.8020	31.91	10.10	42.01	56.00	-13.99	QP	
4	*	0.8020	28.10	10.10	38.20	46.00	-7.80	AVG	
5		1.5540	26.28	10.22	36.50	56.00	-19.50	QP	
6		1.5540	20.76	10.22	30.98	46.00	-15.02	AVG	
7		4.7980	20.30	10.03	30.33	56.00	-25.67	QP	
8		4.7980	16.86	10.03	26.89	46.00	-19.11	AVG	
9		12.9020	30.20	10.01	40.21	60.00	-19.79	QP	
10		12.9020	23.44	10.01	33.45	50.00	-16.55	AVG	
11		19.2300	24.11	10.00	34.11	60.00	-25.89	QP	
12		19.2300	18.43	10.00	28.43	50.00	-21.57	AVG	

Test Result: Pass

[TestMode: TX]; [Line: Nutral] ;[Power:AC120V/60Hz]



Site
Limit: FCC Class B Conduction(QP)
EUT: Dash Cam
M/N: Mini Pro
Mode: TX
Note:

Phase: N
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4460	22.32	10.05	32.37	56.95	-24.58	QP	
2		0.4460	15.07	10.05	25.12	46.95	-21.83	AVG	
3		0.7940	29.14	10.02	39.16	56.00	-16.84	QP	
4	*	0.7940	24.82	10.02	34.84	46.00	-11.16	AVG	
5		1.6780	22.09	10.08	32.17	56.00	-23.83	QP	
6		1.6780	14.92	10.08	25.00	46.00	-21.00	AVG	
7		3.9340	19.94	9.91	29.85	56.00	-26.15	QP	
8		3.9340	13.41	9.91	23.32	46.00	-22.68	AVG	
9		12.8139	26.06	10.00	36.06	60.00	-23.94	QP	
10		12.8139	18.09	10.00	28.09	50.00	-21.91	AVG	
11		18.4980	25.12	10.02	35.14	60.00	-24.86	QP	
12		18.4980	15.32	10.02	25.34	50.00	-24.66	AVG	

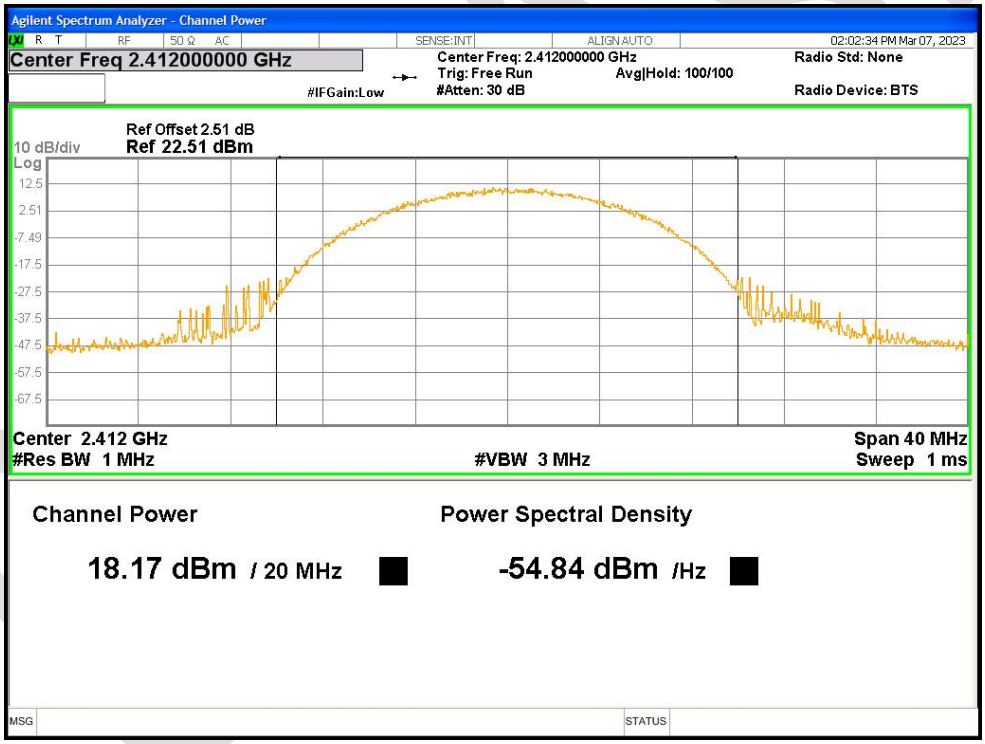
Test Result: Pass

19 APPENDIX

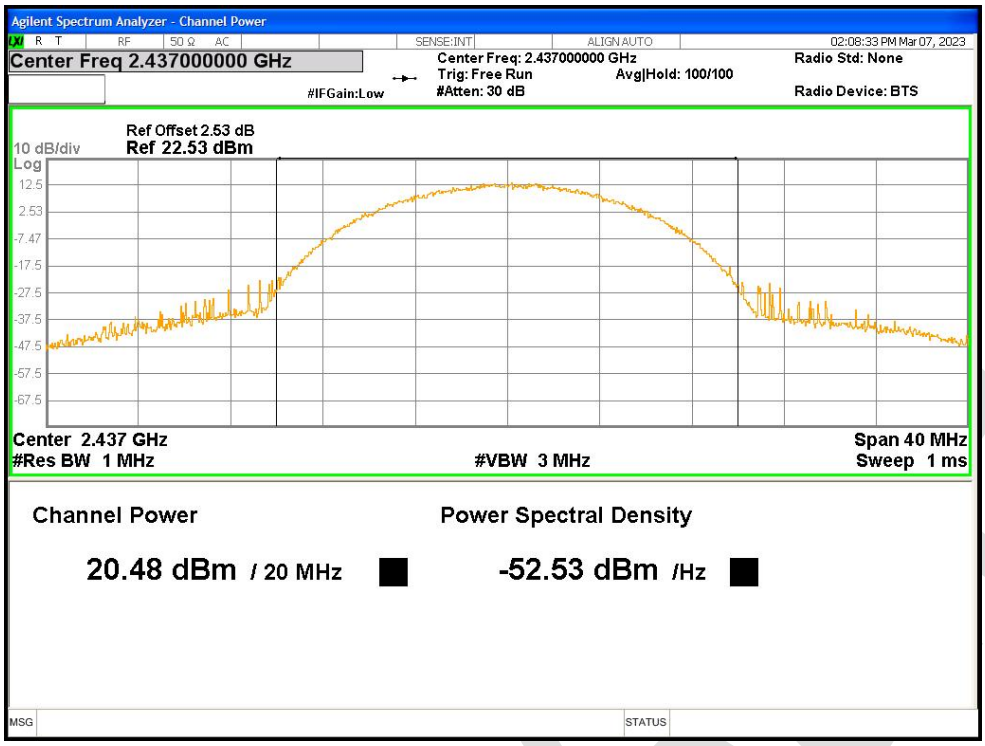
19.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Type	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	SISO	18.168	30	Pass
NVNT	b	2437	Ant1	SISO	20.481	30	Pass
NVNT	b	2462	Ant1	SISO	19.12	30	Pass
NVNT	g	2412	Ant1	SISO	16.488	30	Pass
NVNT	g	2437	Ant1	SISO	18.389	30	Pass
NVNT	g	2462	Ant1	SISO	17.825	30	Pass
NVNT	n20	2412	Ant1	SISO	16.534	30	Pass
NVNT	n20	2437	Ant1	SISO	17.481	30	Pass
NVNT	n20	2462	Ant1	SISO	16.817	30	Pass

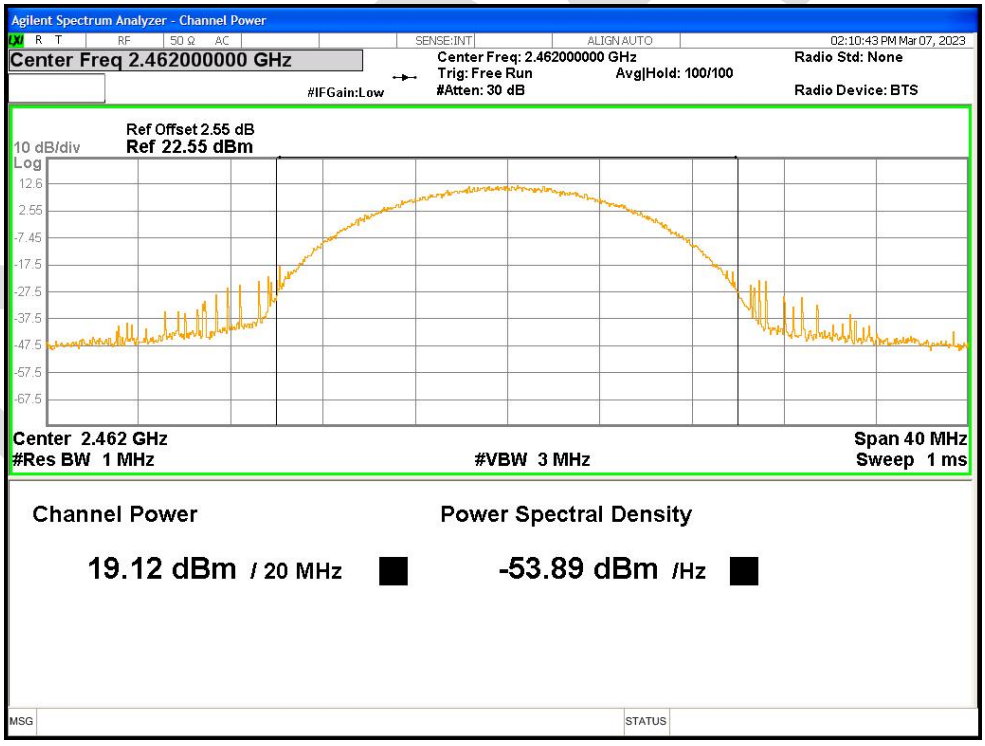
Power NVNT b 2412MHz Ant1



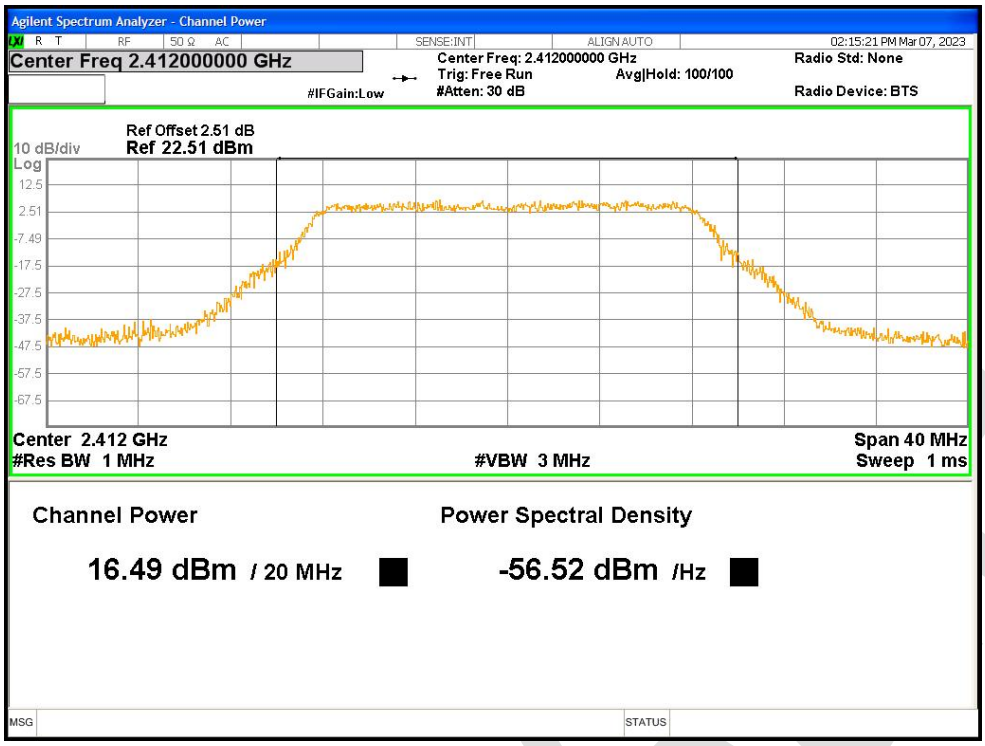
Power NVNT b 2437MHz Ant1



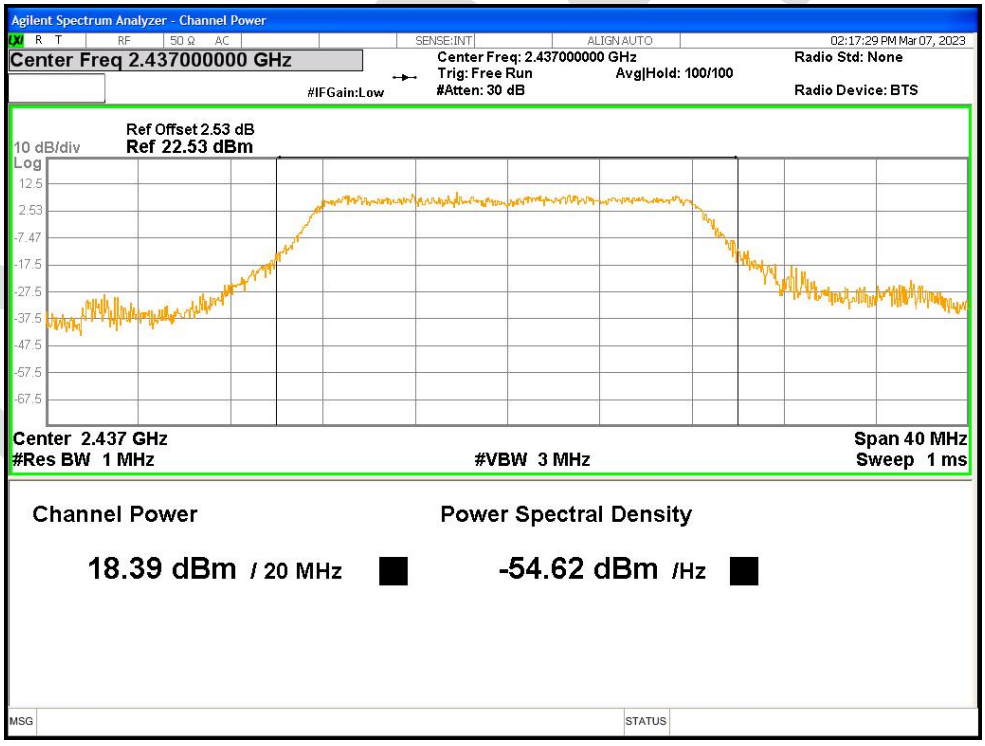
Power NVNT b 2462MHz Ant1



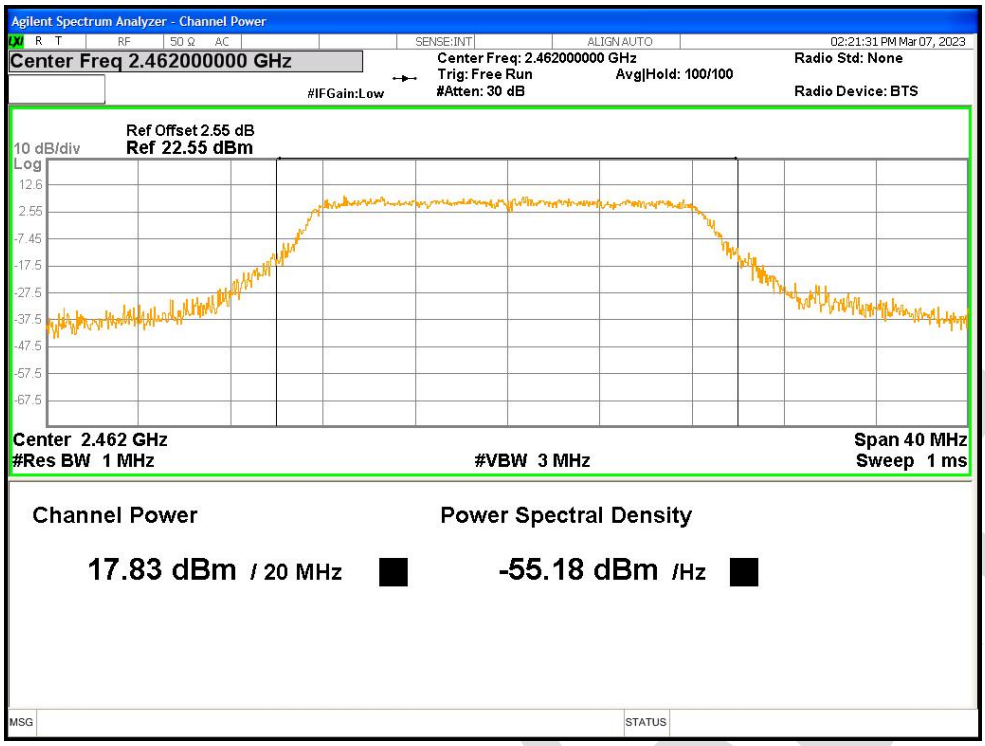
Power NVNT g 2412MHz Ant1



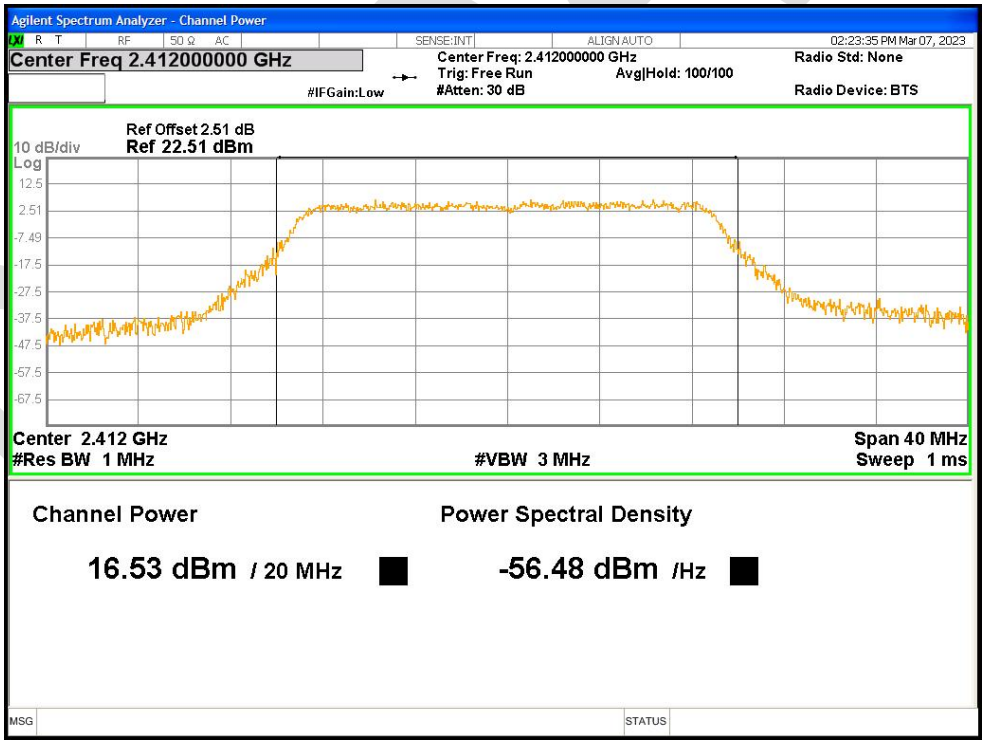
Power NVNT g 2437MHz Ant1



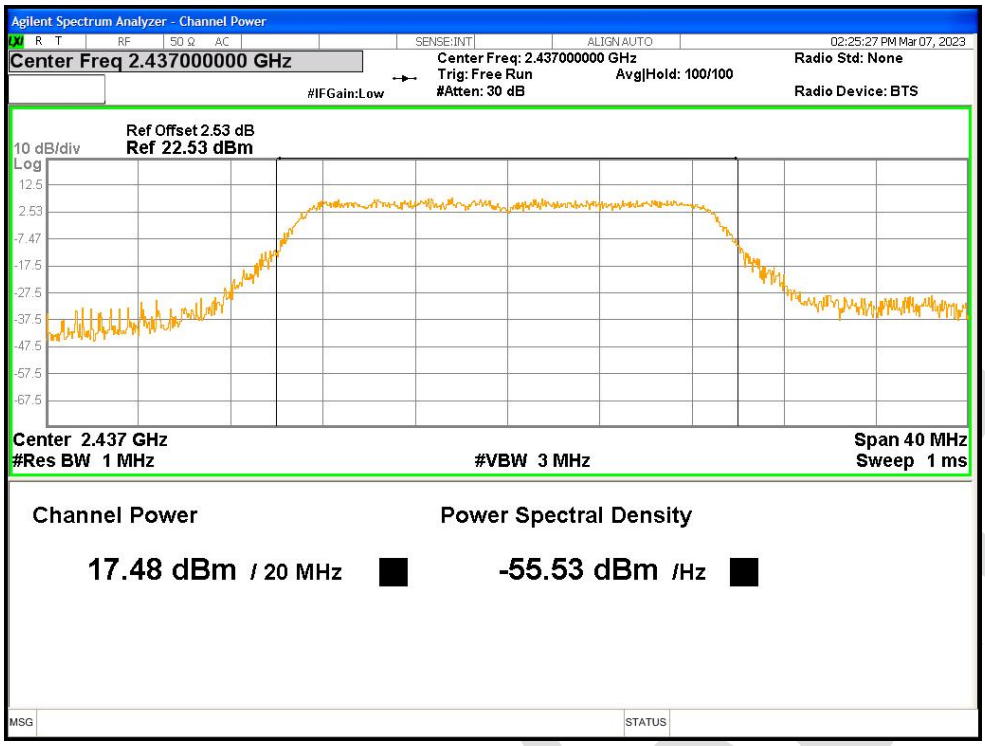
Power NVNT g 2462MHz Ant1



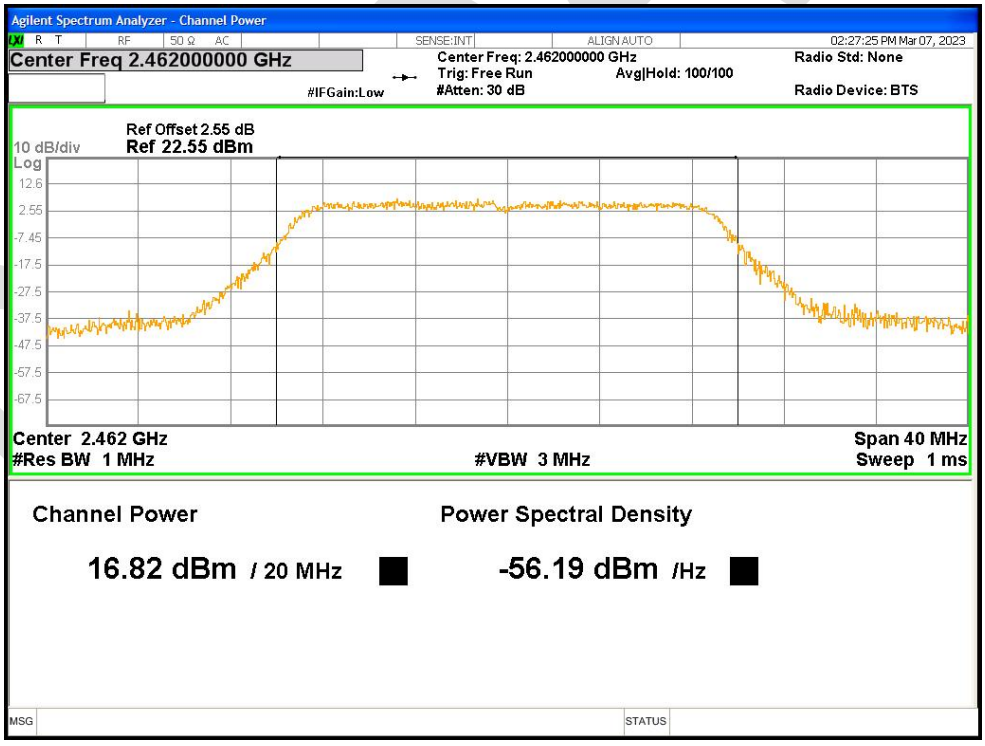
Power NVNT n20 2412MHz Ant1



Power NVNT n20 2437MHz Ant1



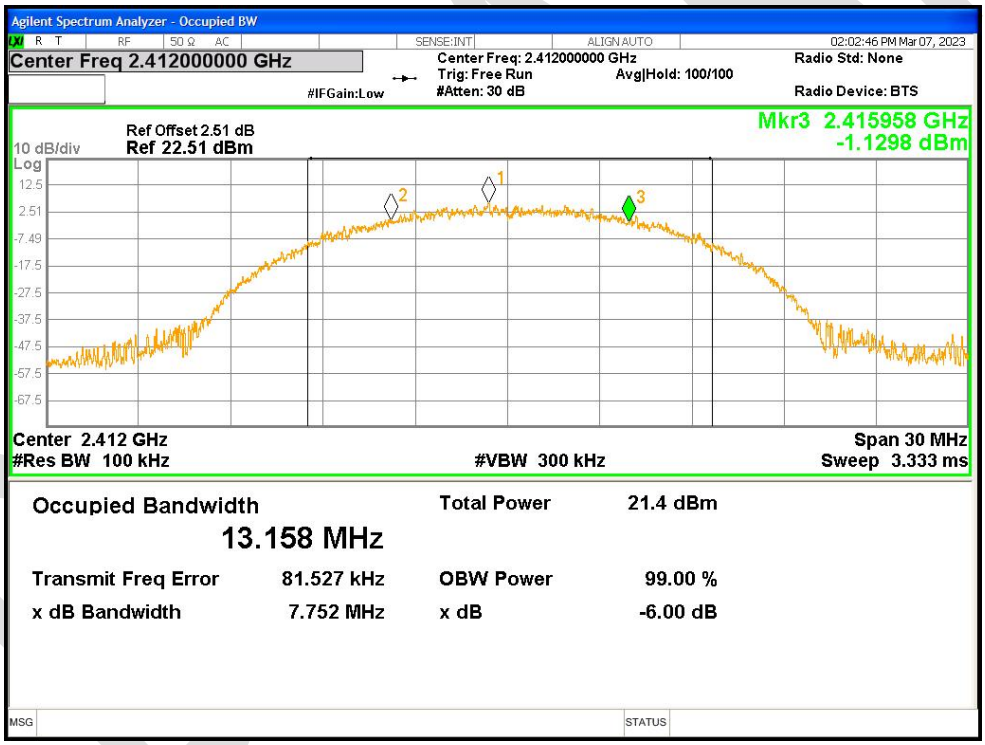
Power NVNT n20 2462MHz Ant1



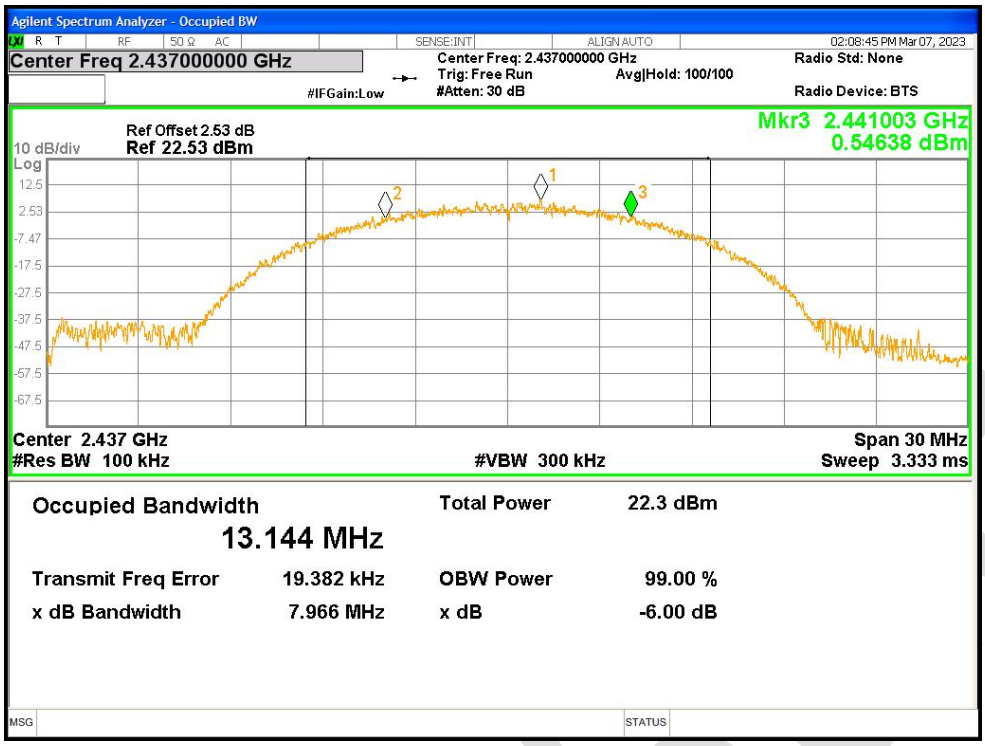
19.2 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.752	0.5	Pass
NVNT	b	2437	Ant1	7.966	0.5	Pass
NVNT	b	2462	Ant1	7.888	0.5	Pass
NVNT	g	2412	Ant1	16.404	0.5	Pass
NVNT	g	2437	Ant1	16.332	0.5	Pass
NVNT	g	2462	Ant1	16.459	0.5	Pass
NVNT	n20	2412	Ant1	17.35	0.5	Pass
NVNT	n20	2437	Ant1	17.563	0.5	Pass
NVNT	n20	2462	Ant1	17.613	0.5	Pass

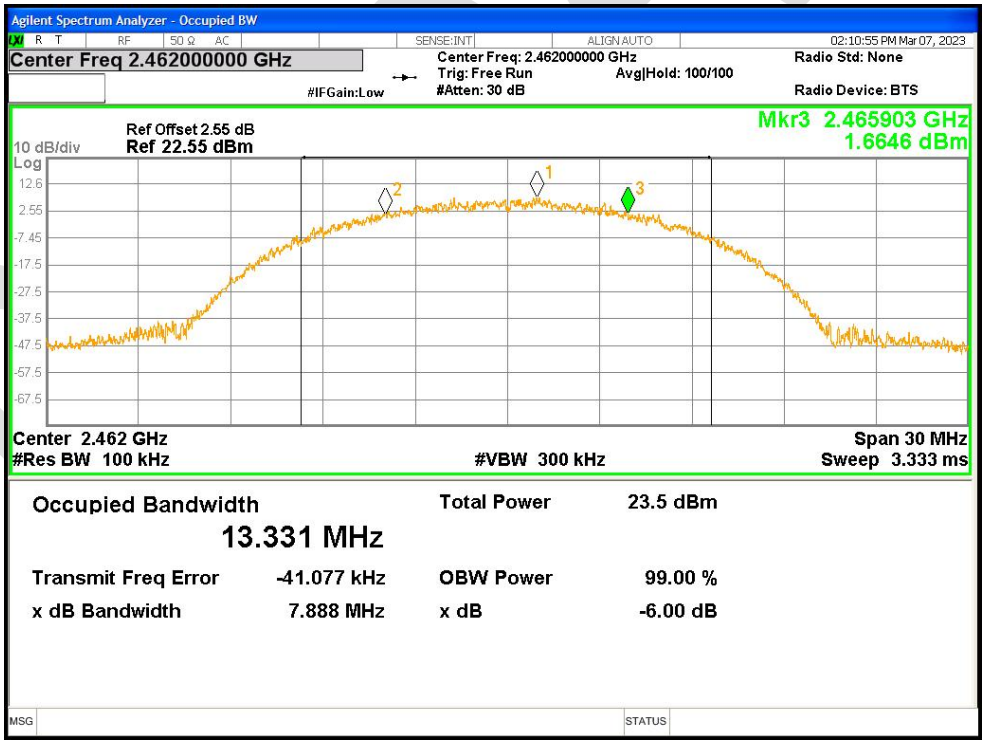
-6dB Bandwidth NVNT b 2412MHz Ant1



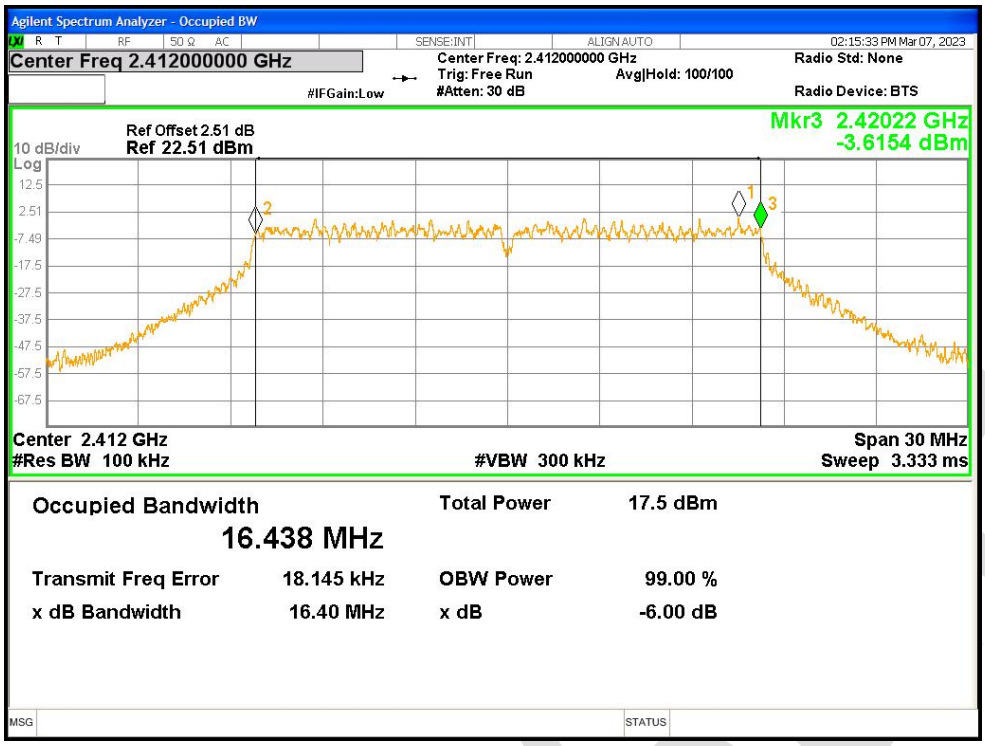
-6dB Bandwidth NVNT b 2437MHz Ant1



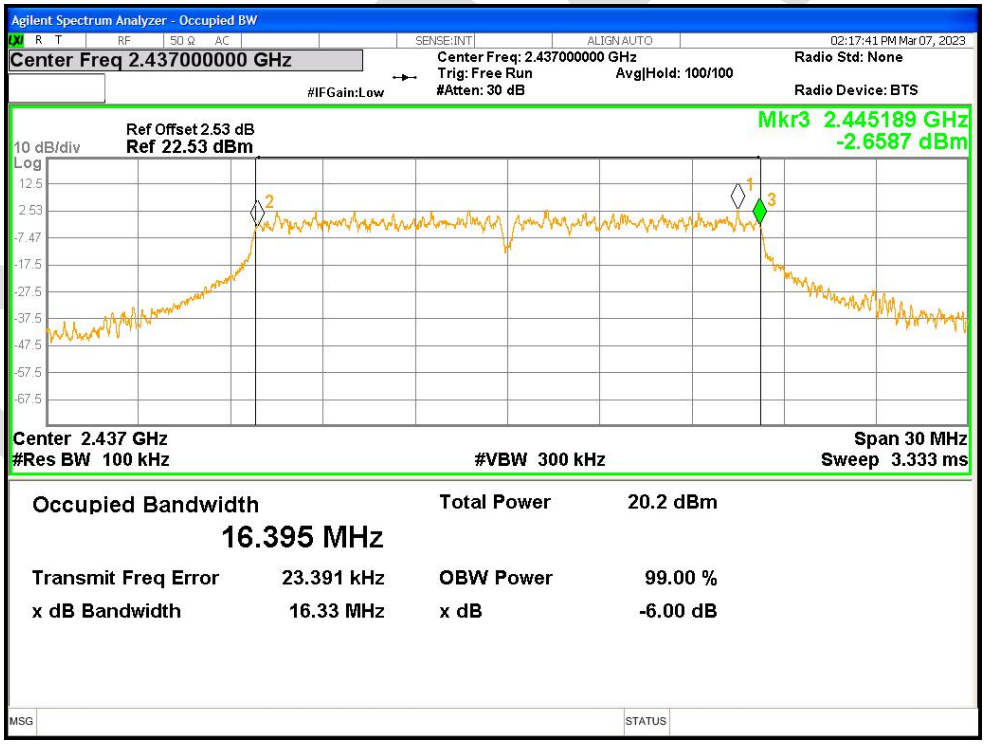
-6dB Bandwidth NVNT b 2462MHz Ant1



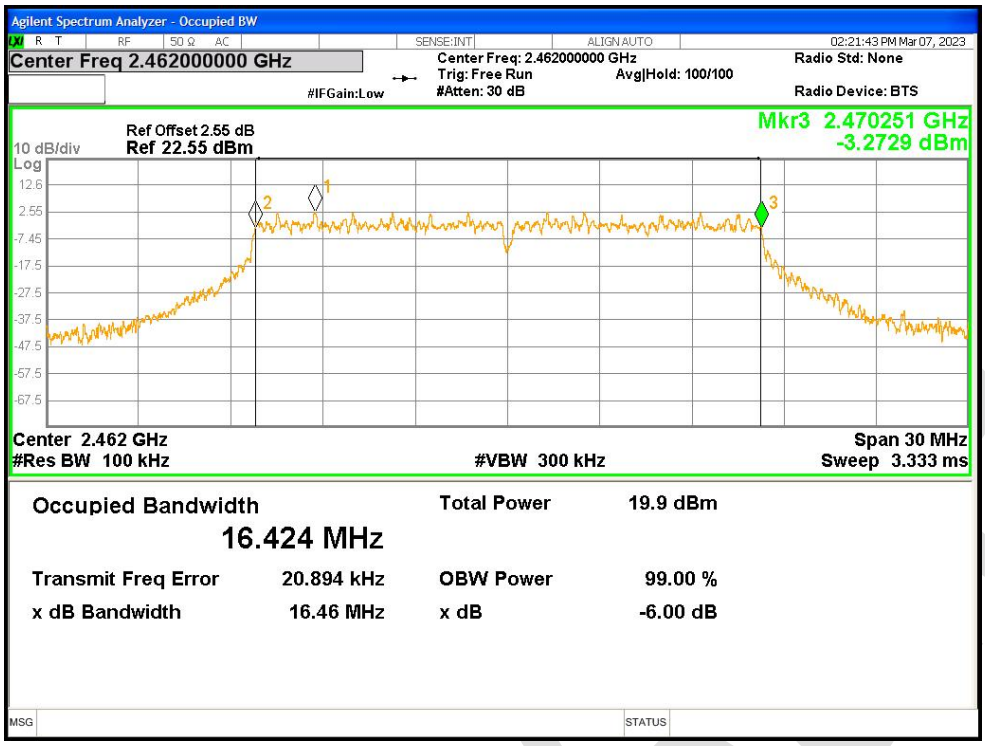
-6dB Bandwidth NVNT g 2412MHz Ant1



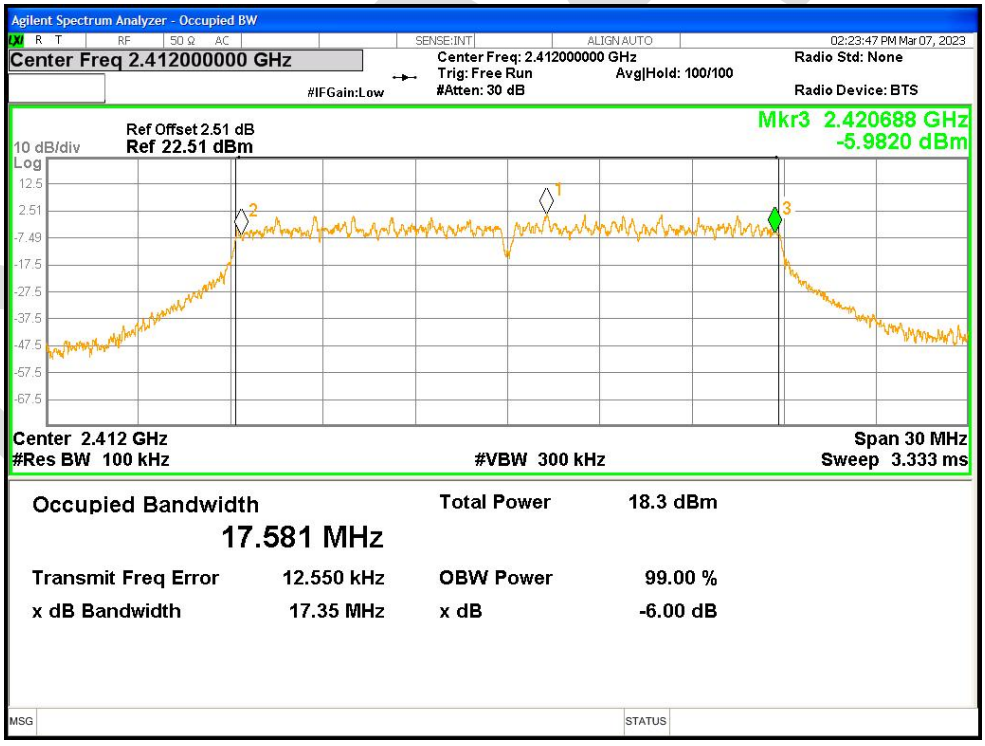
-6dB Bandwidth NVNT g 2437MHz Ant1



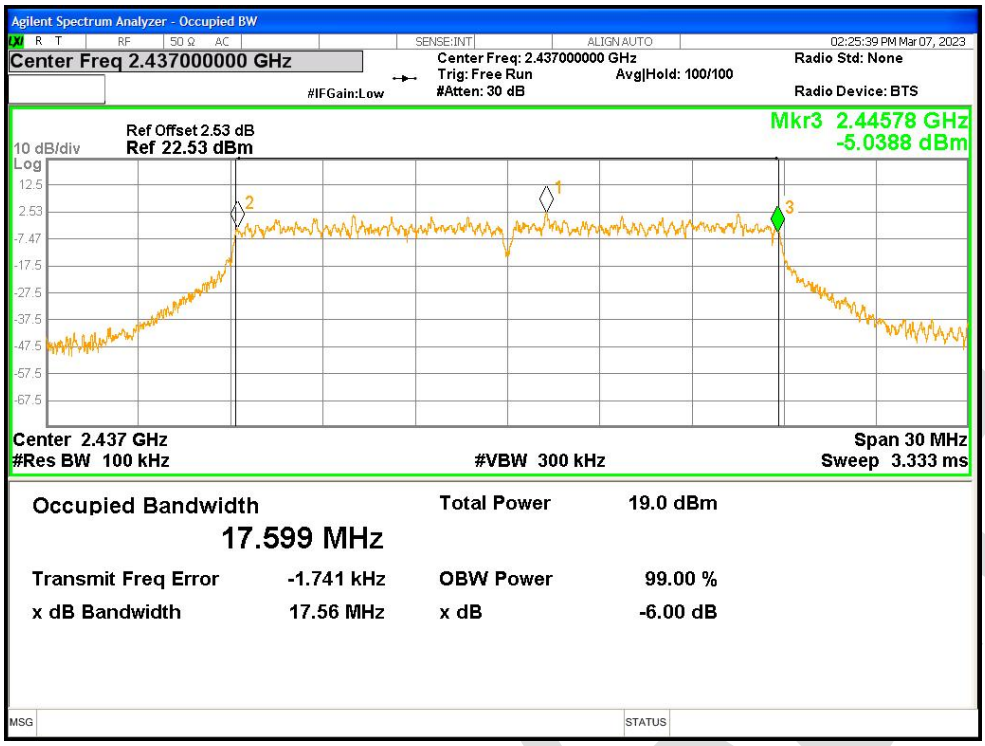
-6dB Bandwidth NVNT g 2462MHz Ant1



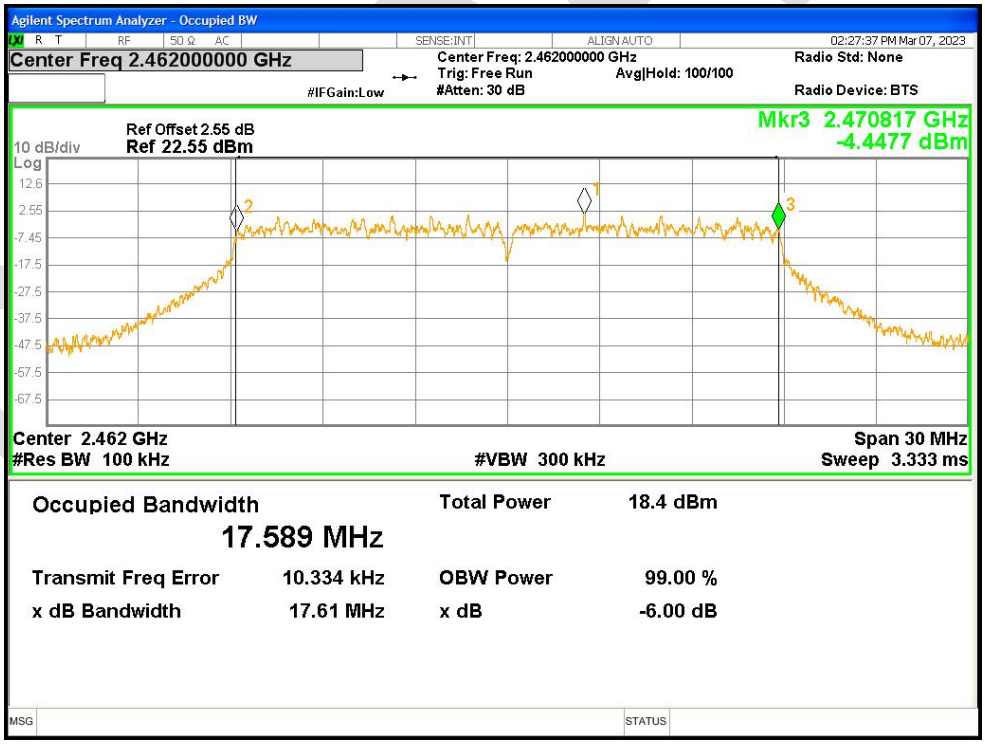
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



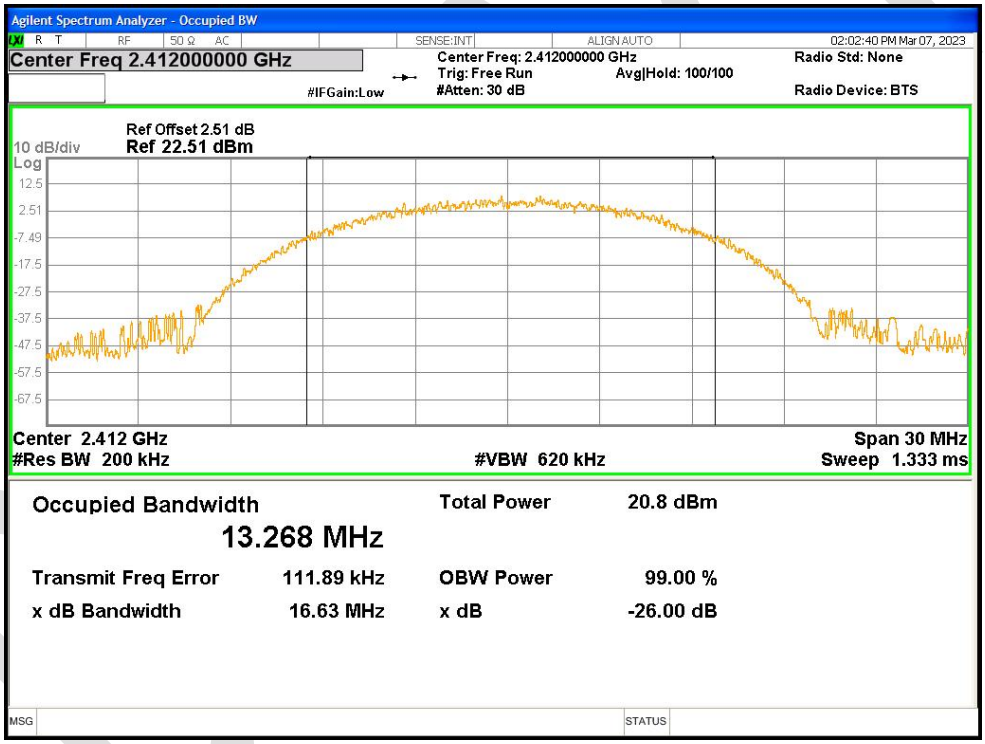
-6dB Bandwidth NVNT n20 2462MHz Ant1



19.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.267
NVNT	b	2437	Ant1	13.128
NVNT	b	2462	Ant1	13.254
NVNT	g	2412	Ant1	16.533
NVNT	g	2437	Ant1	16.429
NVNT	g	2462	Ant1	16.513
NVNT	n20	2412	Ant1	17.580
NVNT	n20	2437	Ant1	17.663
NVNT	n20	2462	Ant1	17.685

OBW NVNT b 2412MHz Ant1



OBW NVNT b 2437MHz Ant1