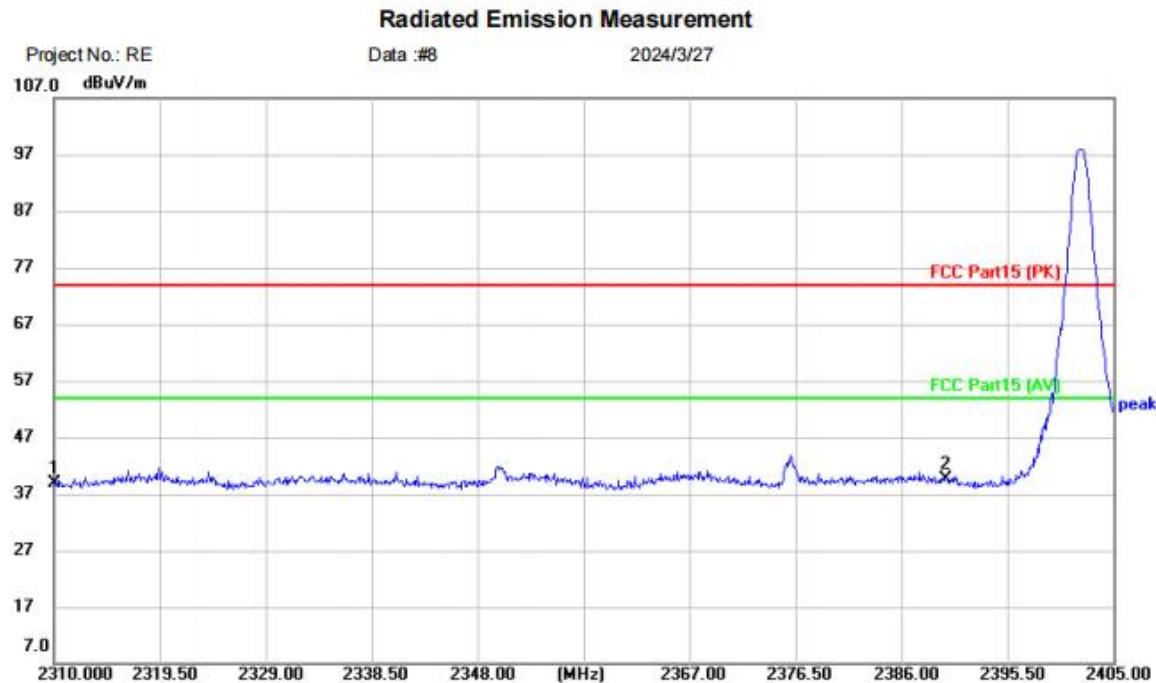


18.4 TEST DATA

[TestMode: TX lowest channel]; [Polarity: Horizontal]

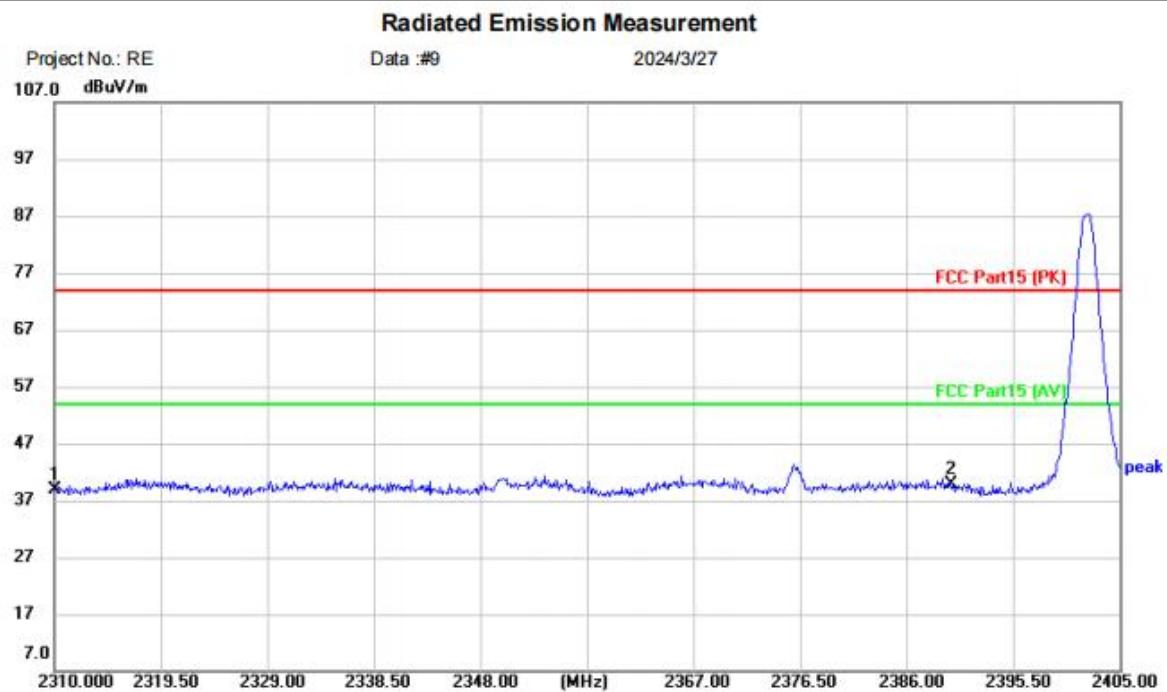


Site: Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: ALL IN ONE RECORD PLAYER
M/N: TR-19PCD
Mode: TX 2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
							dBuV	dB	dBuV/m	dB	Detector
1		2310.000	41.85	-2.89	38.96	74.00	-35.04	peak			
2	*	2390.000	42.30	-2.70	39.60	74.00	-34.40	peak			

Test Result: Pass

[TestMode: TX lowest channel]; [Polarity: Vertical]



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: ALL IN ONE RECORD PLAYER

M/N: TR-19PCD

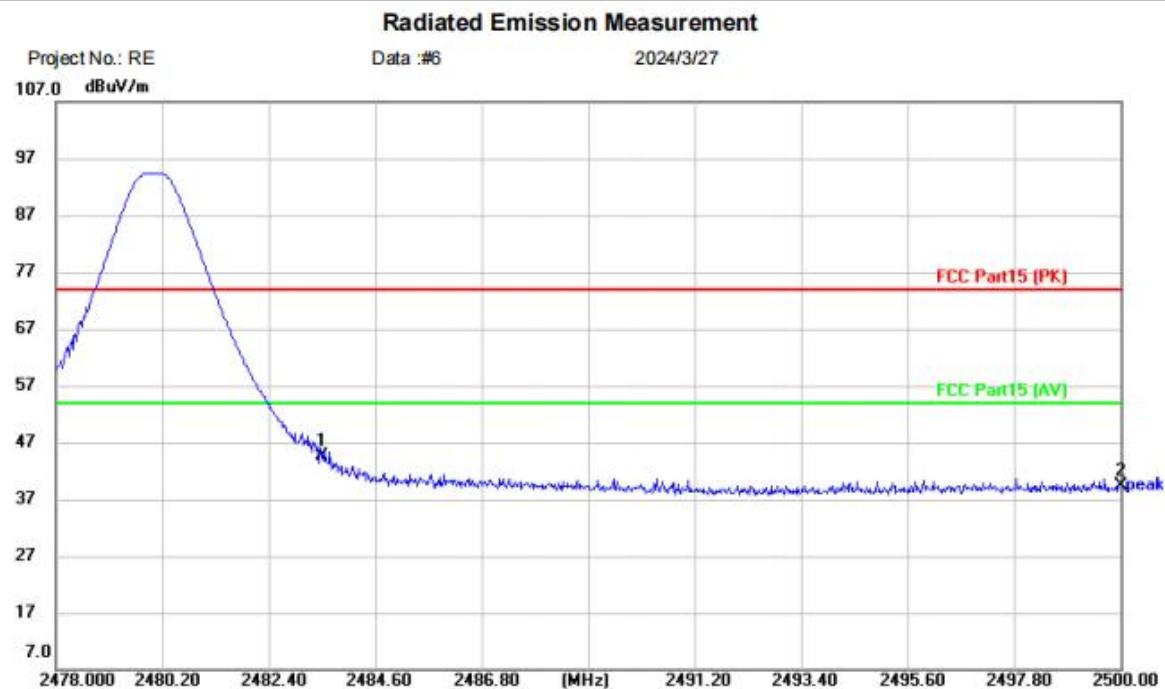
Mode: TX 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
							dB	dBuV/m	Detector
1		2310.000	41.89	-2.89	39.00	74.00	-35.00		peak
2	*	2390.000	42.51	-2.70	39.81	74.00	-34.19		peak

Test Result: Pass

[TestMode: TX highest channel]; [Polarity: Horizontal]

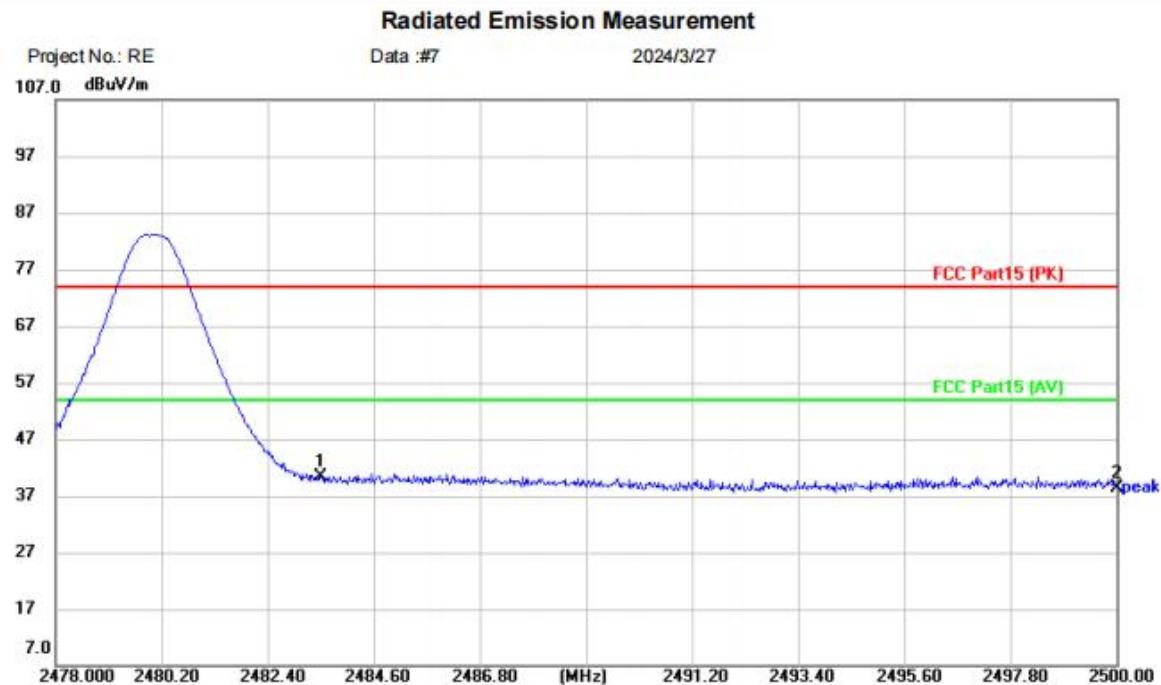


Site: Limit: FCC Part15 (PK) Polarization: **Horizontal** Temperature: (C)
EUT: ALL IN ONE RECORD PLAYER Power: Humidity: %RH
M/N: TR-19PCD
Mode: TX 2480
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over							
							MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	47.55	-2.91	44.64	74.00	-29.36	peak						
2		2500.000	42.34	-3.00	39.34	74.00	-34.66	peak						

Test Result: Pass

[TestMode: TX highest channel]; [Polarity: Vertical]



Site: Limit: FCC Part15 (PK) EUT: ALL IN ONE RECORD PLAYER M/N: TR-19PCD Mode: TX 2480 Note: Polarization: **Vertical** Power: Temperature: (C) Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
							dBuV	dB	dBuV/m	dB	Detector
1	*	2483.500	43.36	-2.91	40.45	74.00	-33.55	peak			
2		2500.000	41.42	-3.00	38.42	74.00	-35.58	peak			

Test Result: Pass

Remark:

DH1,DH3, DH5 all have been tested, during the test, GFSK, pi/4DQPSK, 8DPSK, modulation were all pre-scanned Only the GFSK of the worst mode would be recorded in this report.

19 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

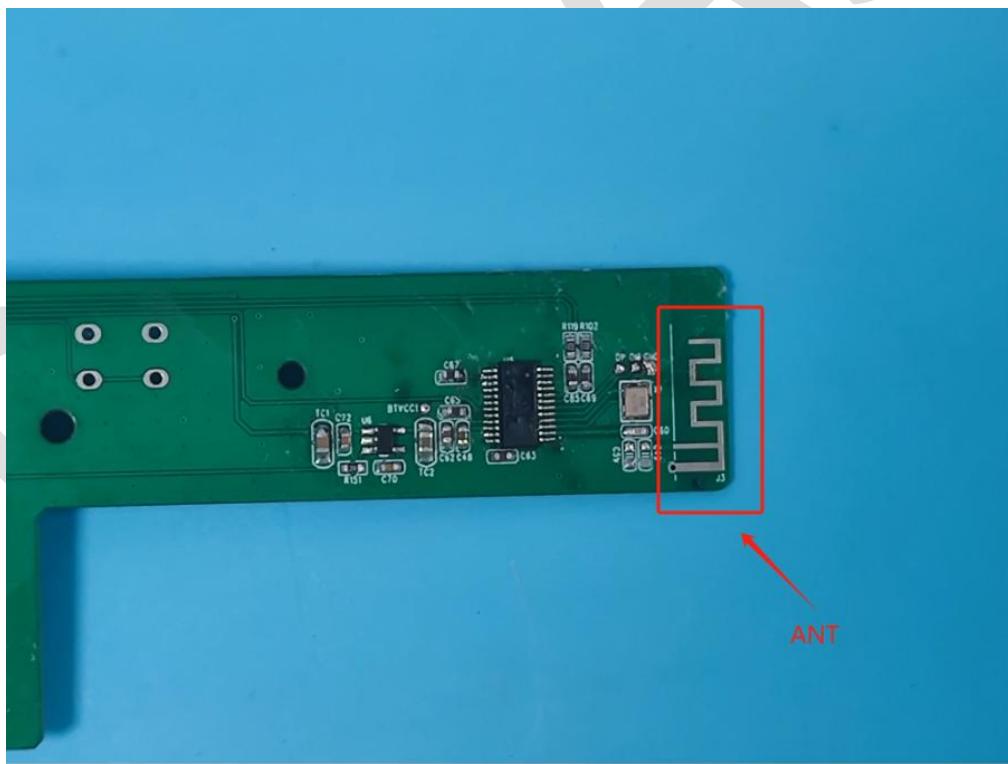
19.1 CONCLUSION

Standard 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 ~~an~~ antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.58dBi.



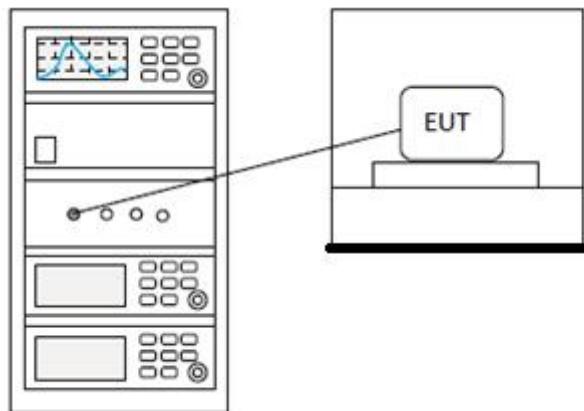
20 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25 °C
Humidity	60%

20.1 LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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20.2 BLOCK DIAGRAM OF TEST SETUP



20.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

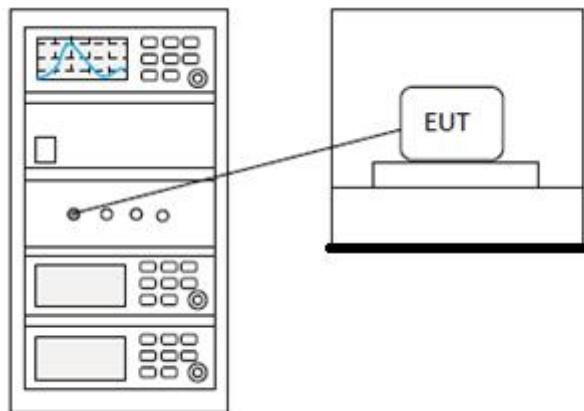
21 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25 °C
Humidity	60%

21.1 LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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21.2 BLOCK DIAGRAM OF TEST SETUP



21.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

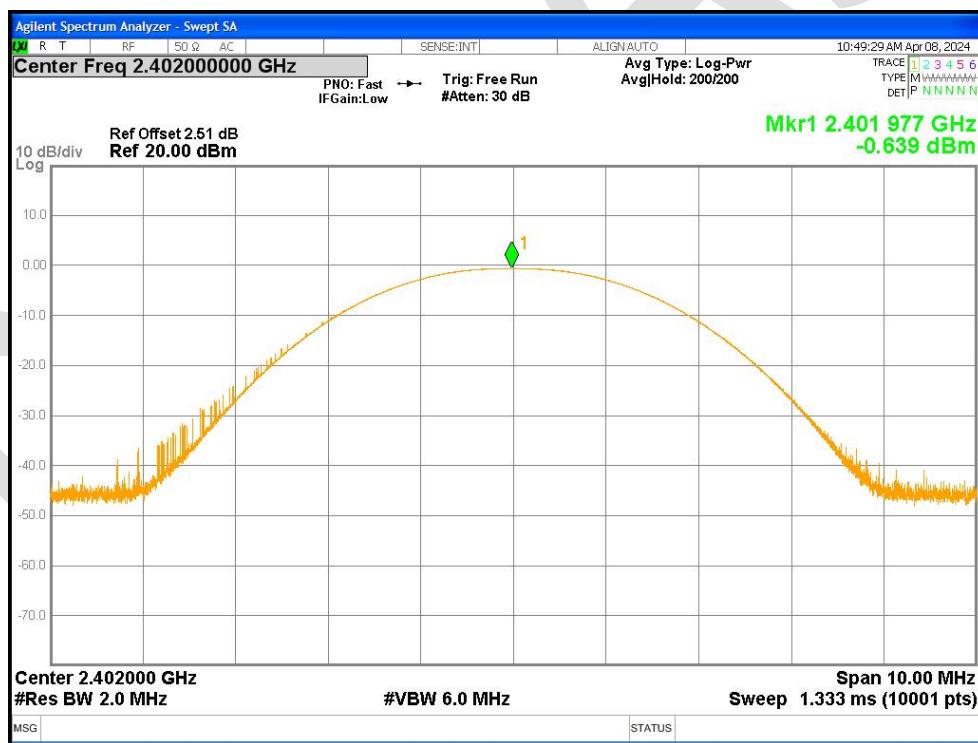
22 APPENDIX

Appendix1

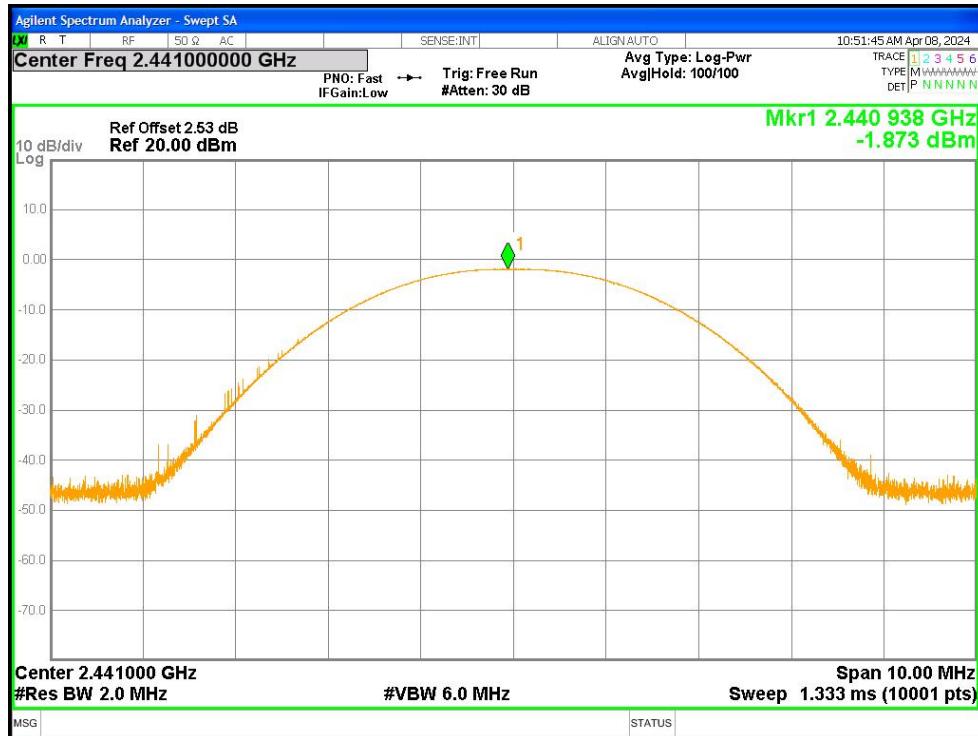
22.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-0.639	21	Pass
NVNT	1-DH1	2441	Ant1	-1.873	21	Pass
NVNT	1-DH1	2480	Ant1	-2.939	21	Pass
NVNT	2-DH1	2402	Ant1	1.765	21	Pass
NVNT	2-DH1	2441	Ant1	0.505	21	Pass
NVNT	2-DH1	2480	Ant1	-0.679	21	Pass
NVNT	3-DH1	2402	Ant1	2.458	21	Pass
NVNT	3-DH1	2441	Ant1	1.192	21	Pass
NVNT	3-DH1	2480	Ant1	0.063	21	Pass

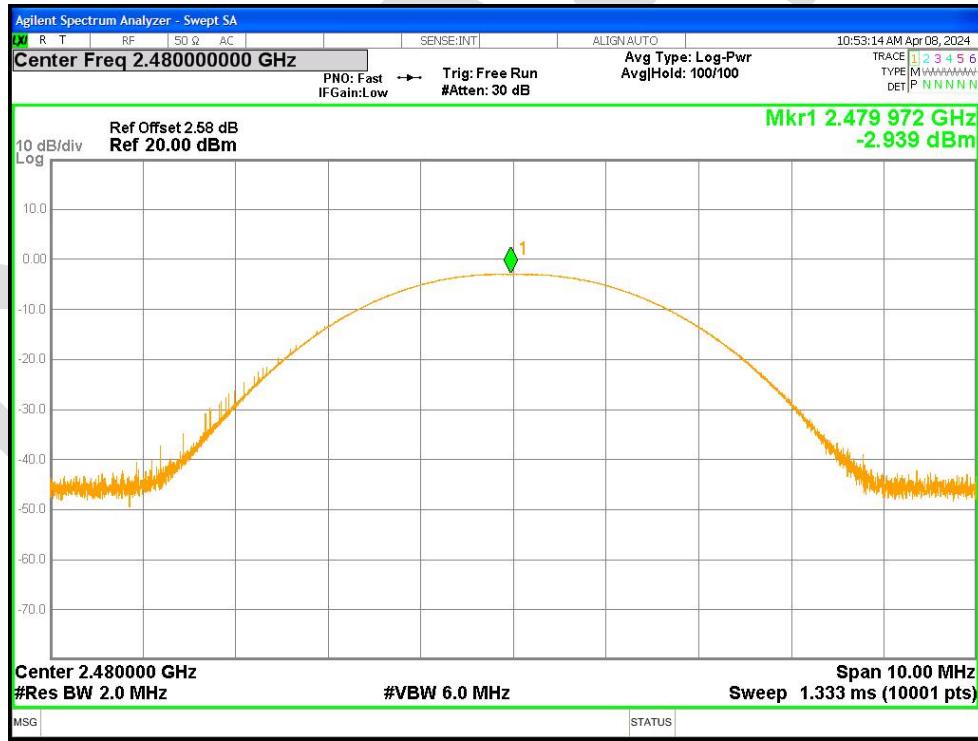
Power NVNT 1-DH1 2402MHz Ant1



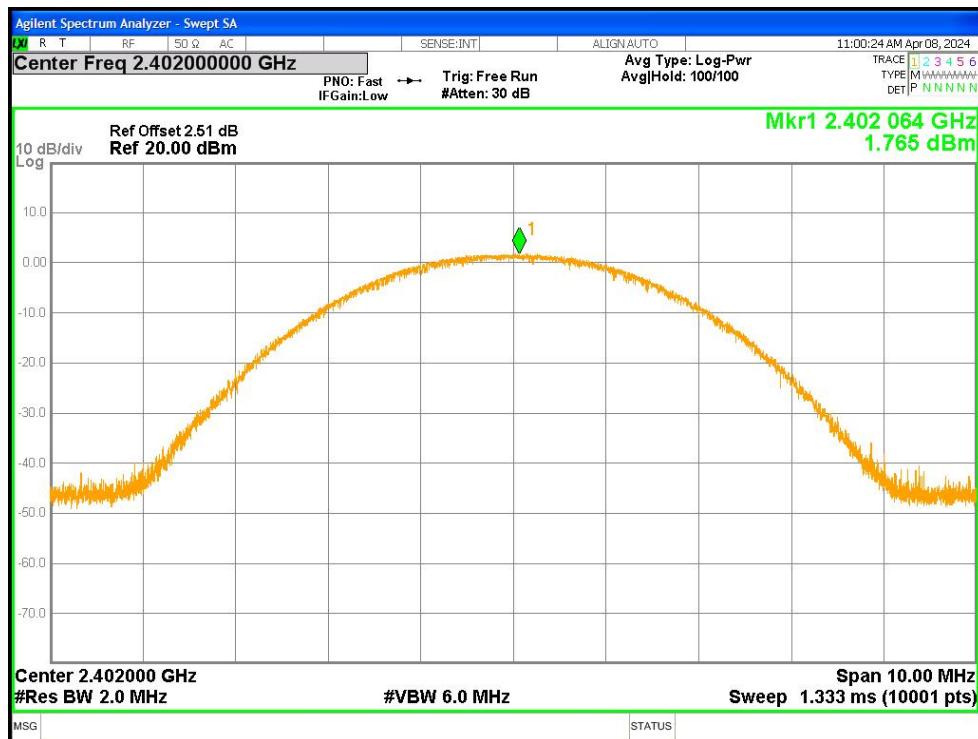
Power NVNT 1-DH1 2441MHz Ant1



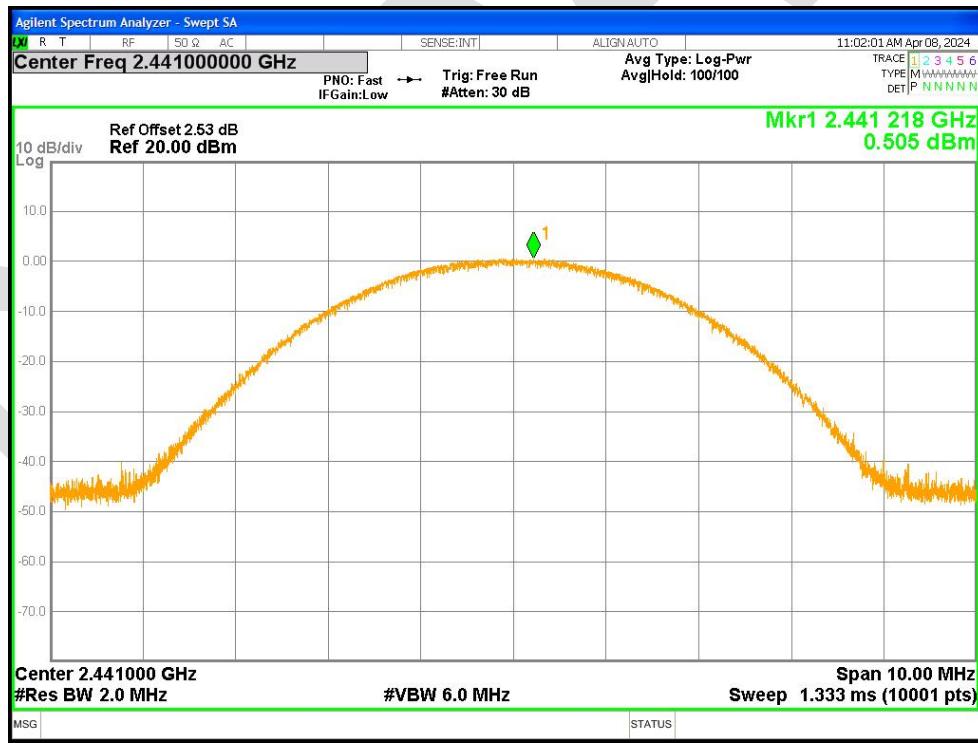
Power NVNT 1-DH1 2480MHz Ant1



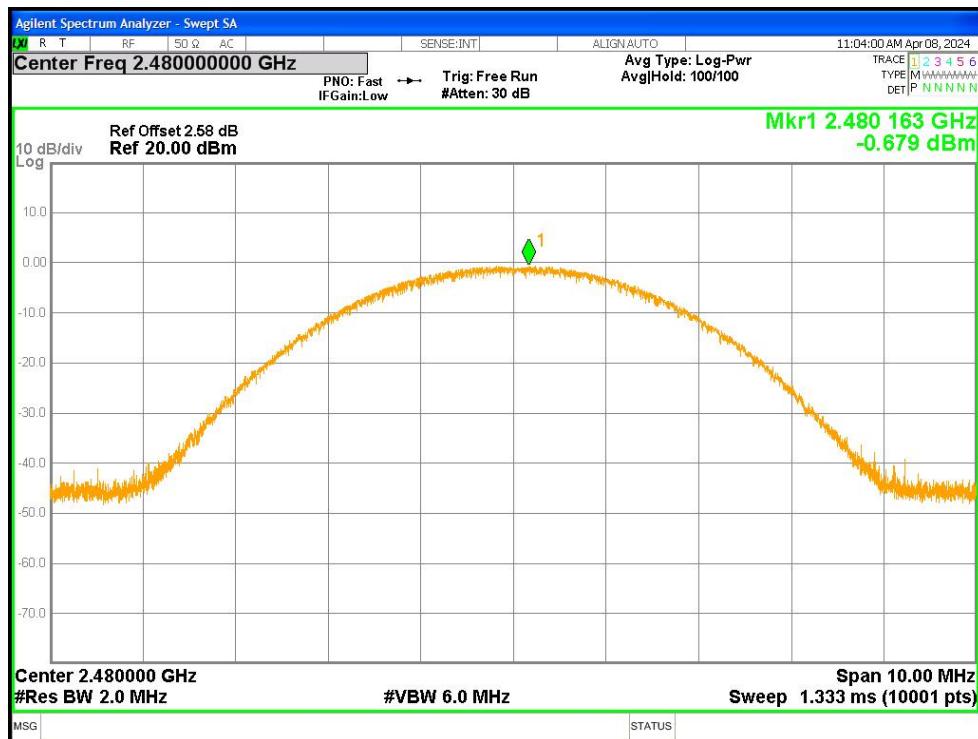
Power NVNT 2-DH1 2402MHz Ant1



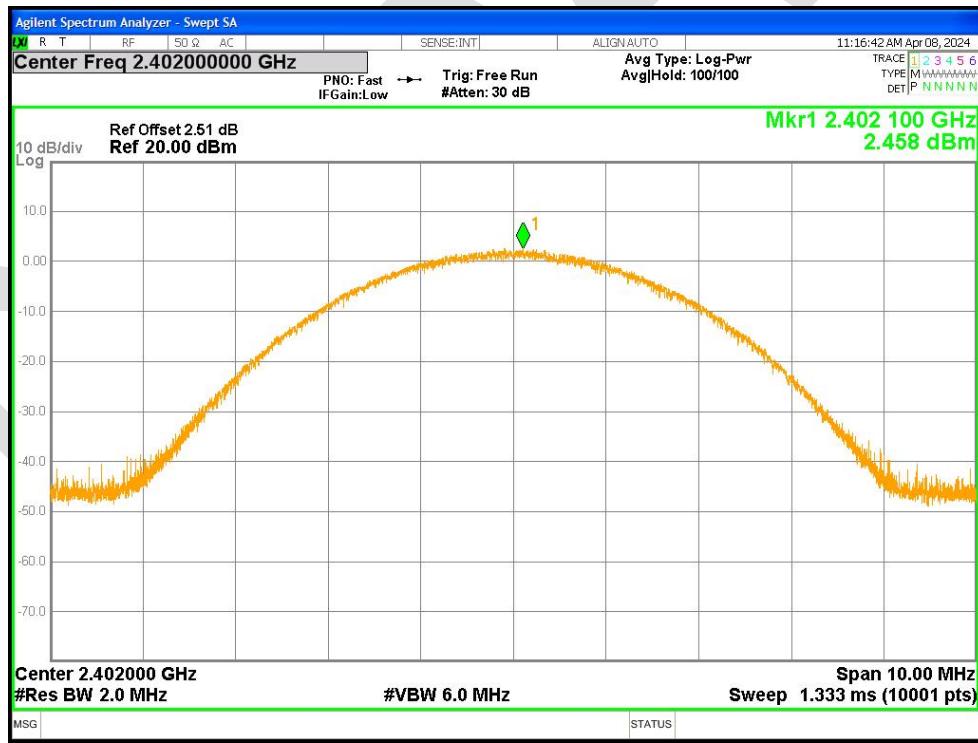
Power NVNT 2-DH1 2441MHz Ant1



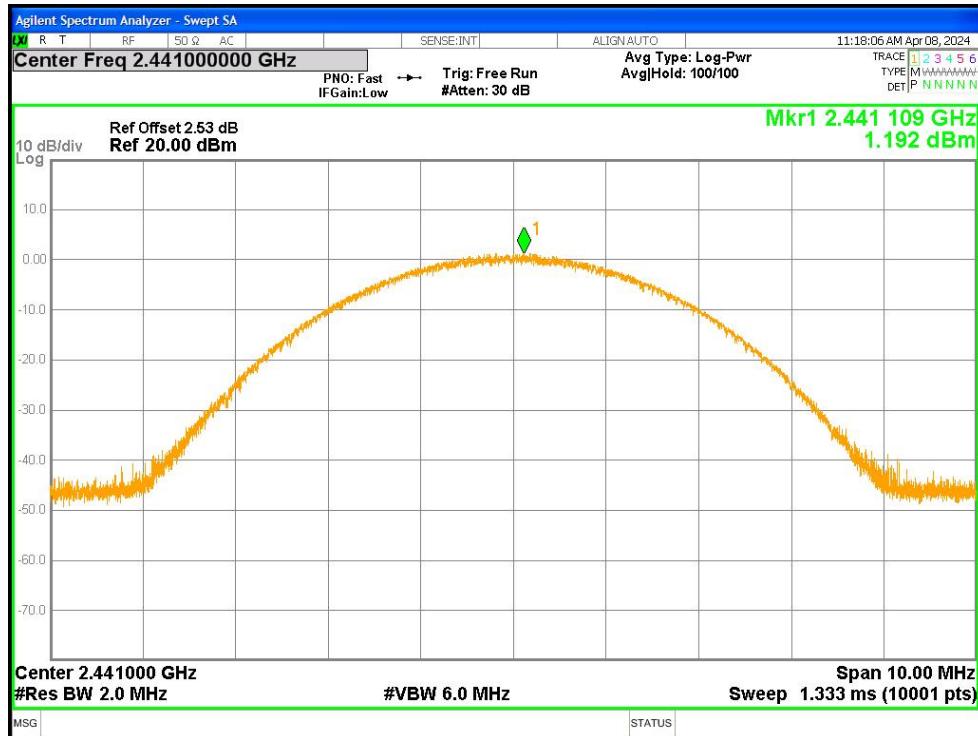
Power NVNT 2-DH1 2480MHz Ant1



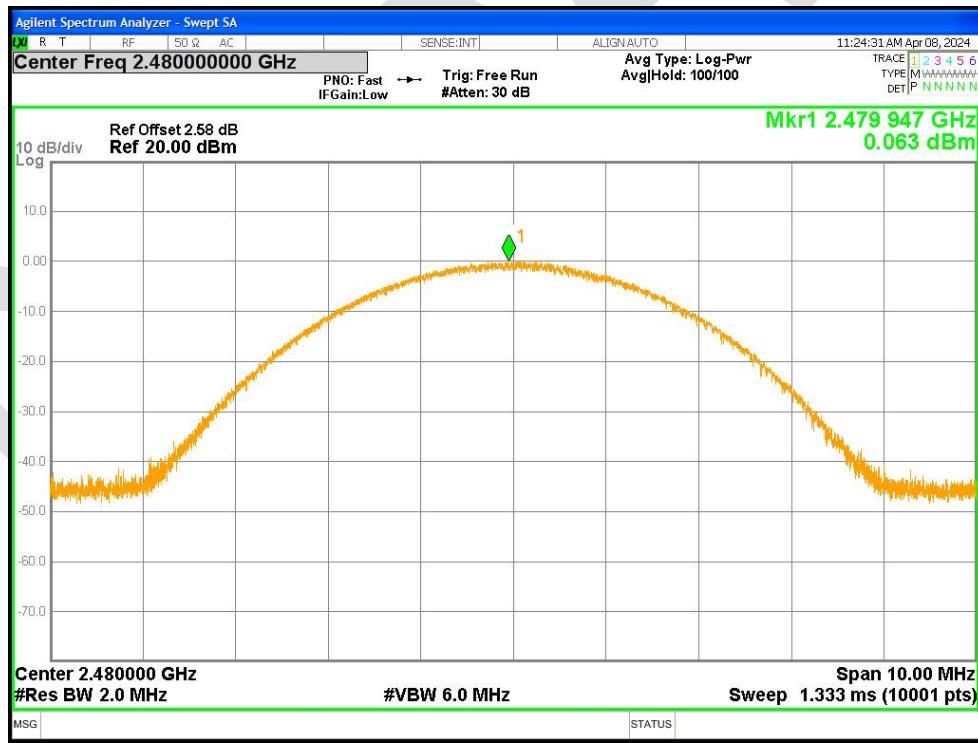
Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



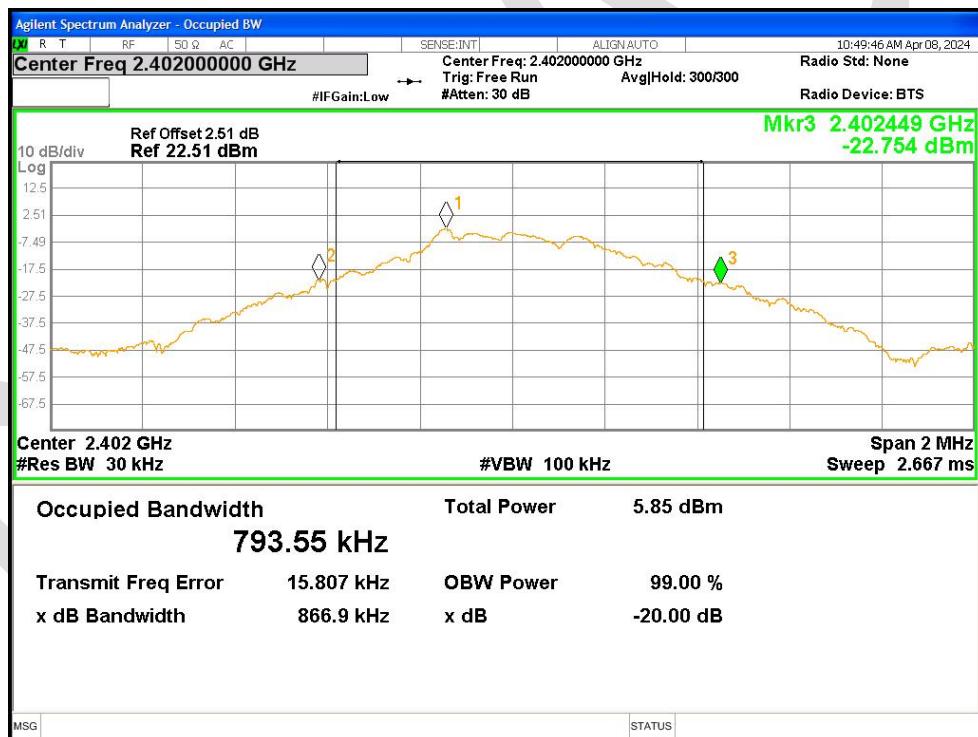
Power NVNT 3-DH1 2480MHz Ant1



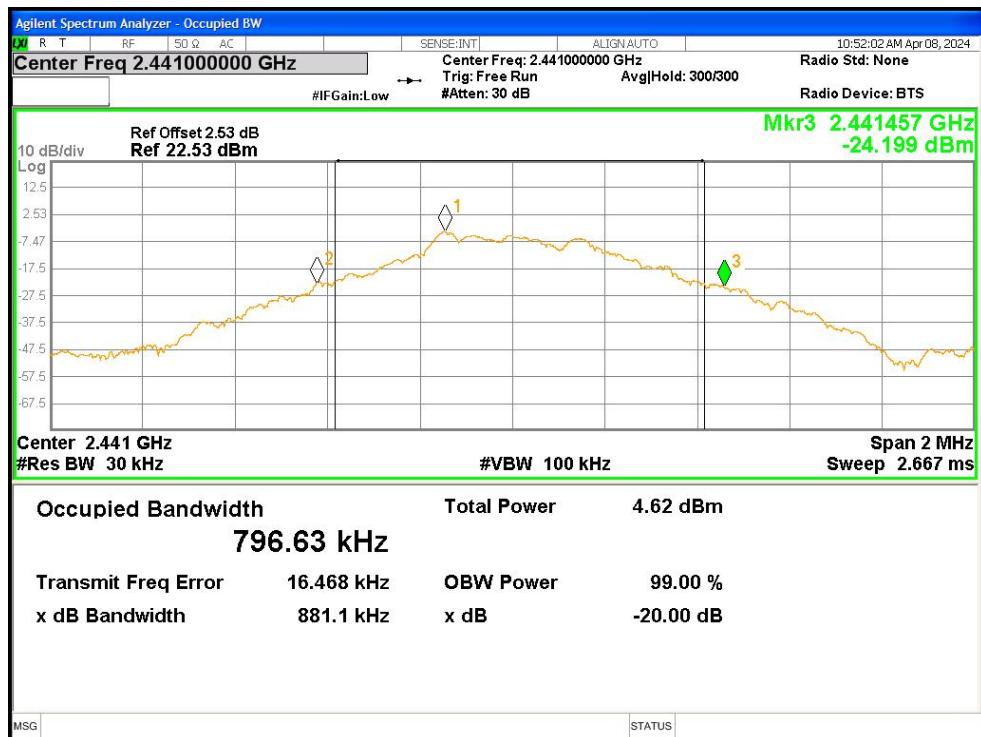
22.2 -20DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.867	N/A	Pass
NVNT	1-DH1	2441	Ant1	0.881	N/A	Pass
NVNT	1-DH1	2480	Ant1	0.878	N/A	Pass
NVNT	2-DH1	2402	Ant1	1.289	N/A	Pass
NVNT	2-DH1	2441	Ant1	1.265	N/A	Pass
NVNT	2-DH1	2480	Ant1	1.294	N/A	Pass
NVNT	3-DH1	2402	Ant1	1.213	N/A	Pass
NVNT	3-DH1	2441	Ant1	1.212	N/A	Pass
NVNT	3-DH1	2480	Ant1	1.215	N/A	Pass

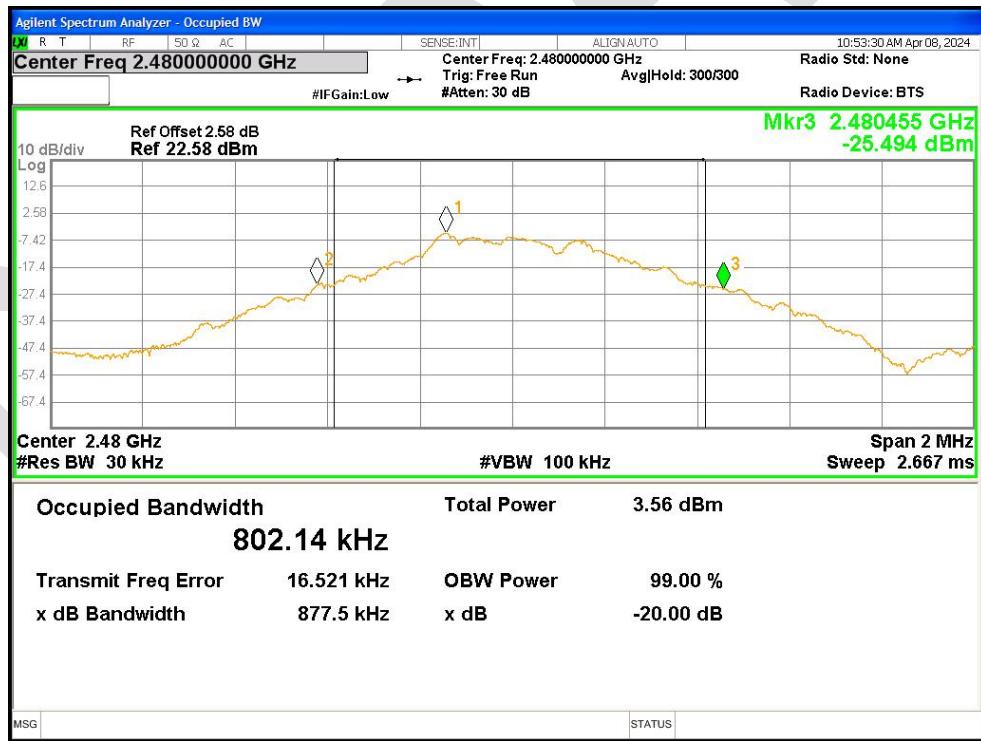
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



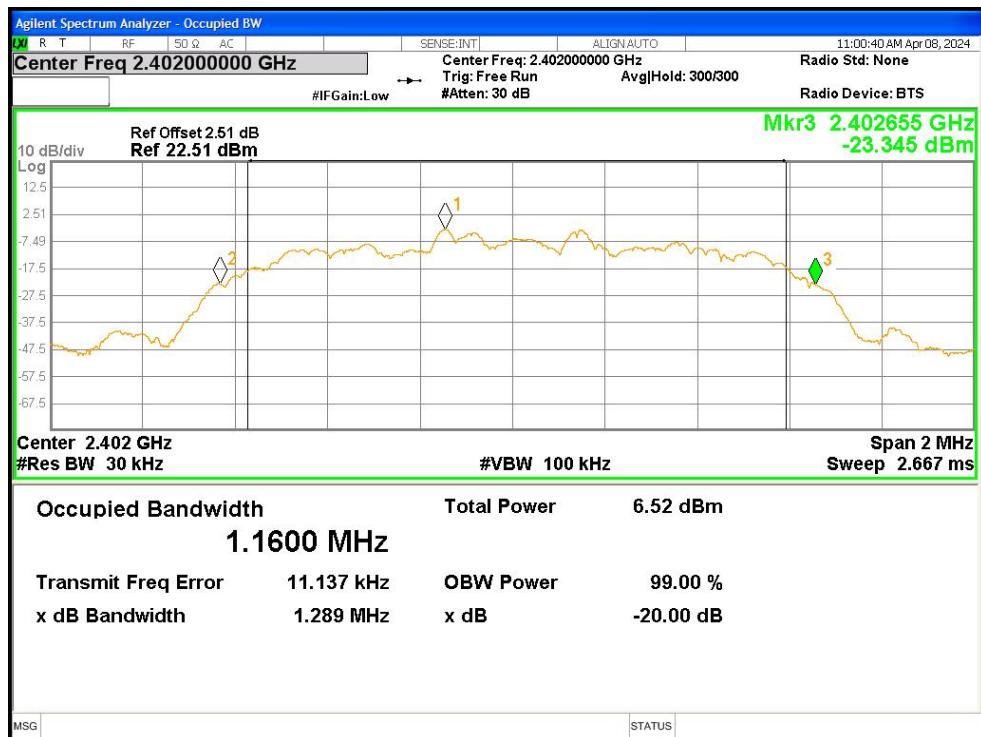
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



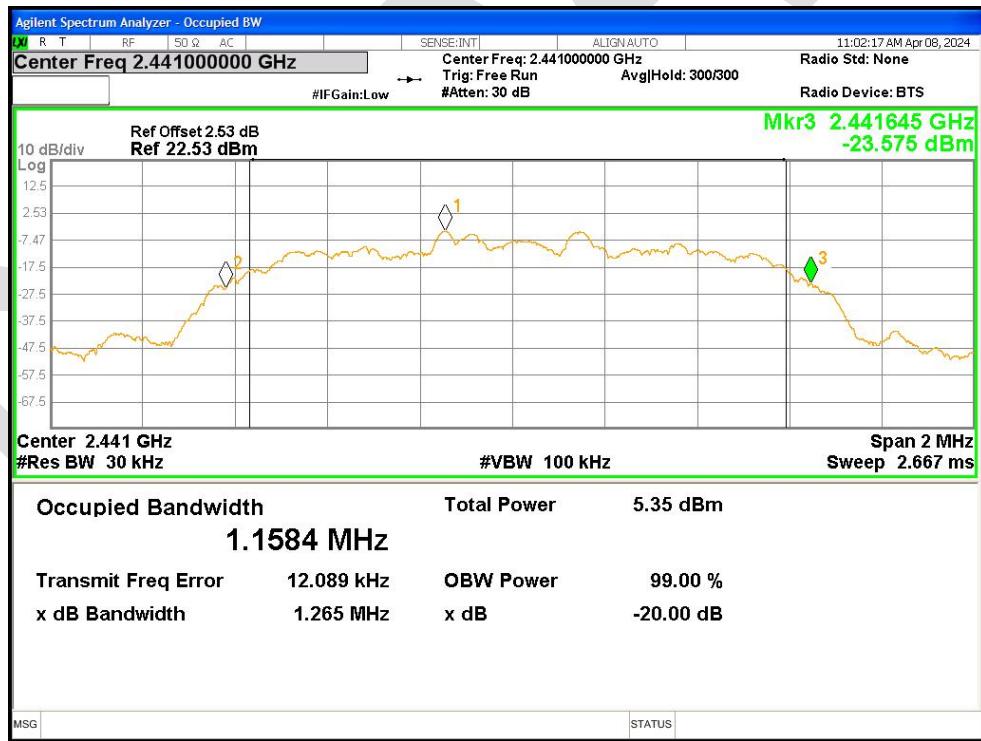
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



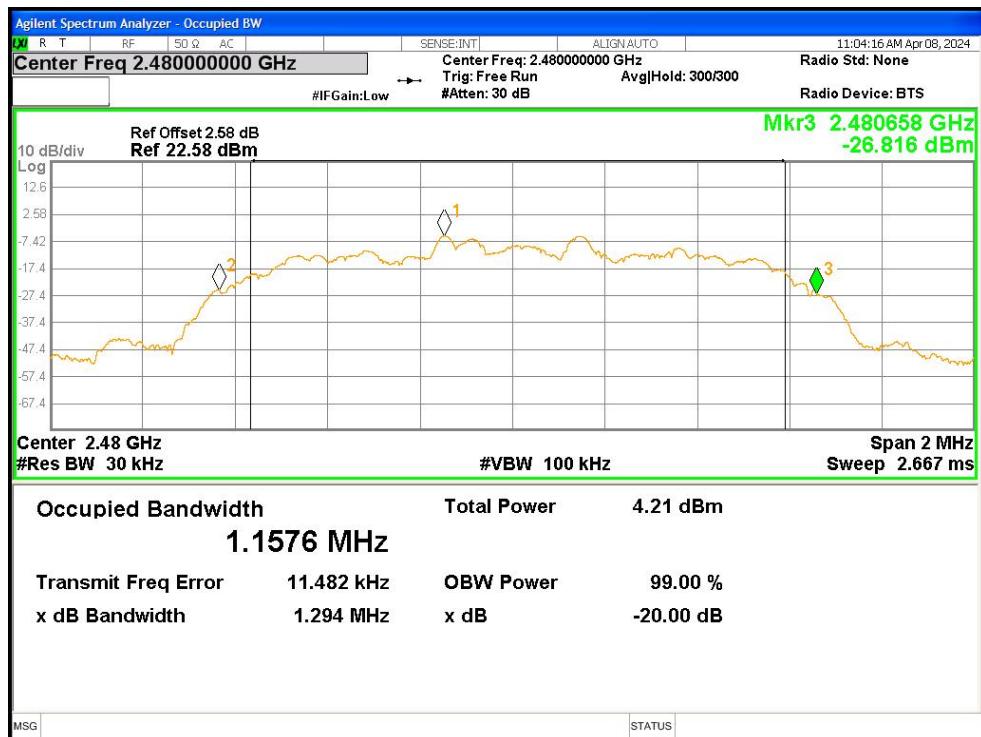
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



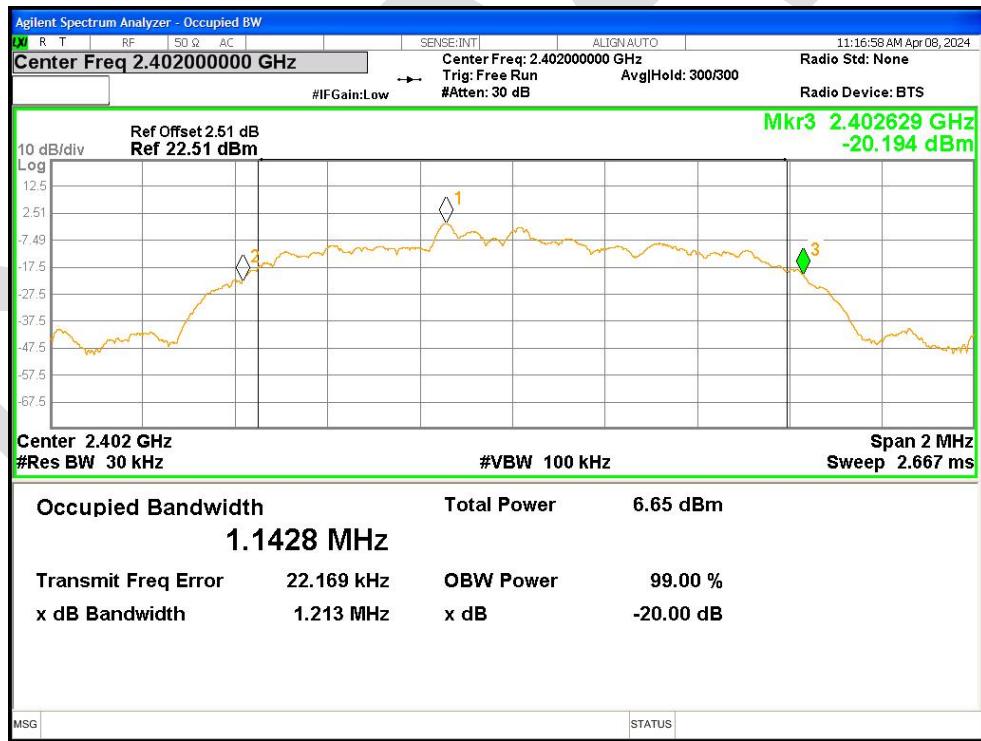
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



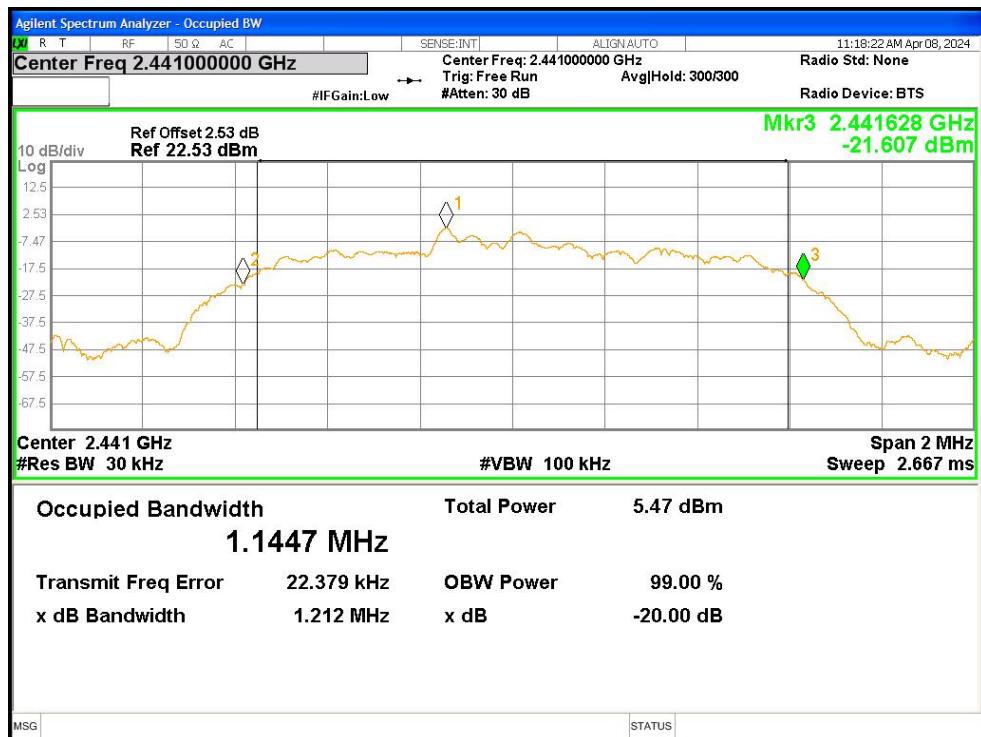
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



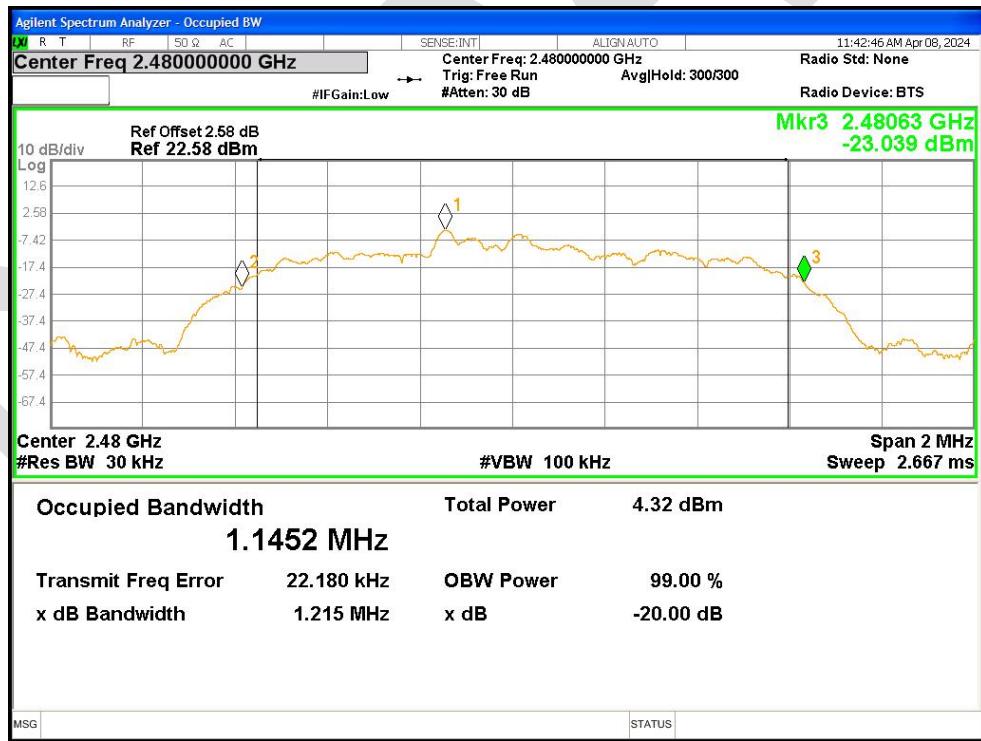
-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



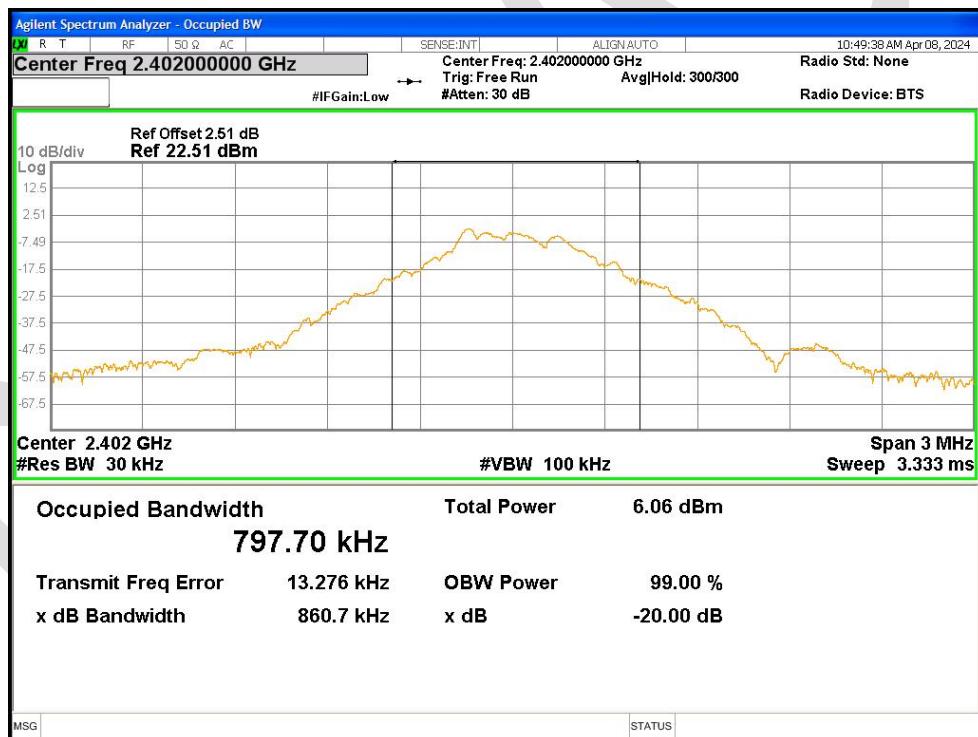
-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1



22.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.79770
NVNT	1-DH1	2441	Ant1	0.80401
NVNT	1-DH1	2480	Ant1	0.80477
NVNT	2-DH1	2402	Ant1	1.1587
NVNT	2-DH1	2441	Ant1	1.1597
NVNT	2-DH1	2480	Ant1	1.1632
NVNT	3-DH1	2402	Ant1	1.1445
NVNT	3-DH1	2441	Ant1	1.1439
NVNT	3-DH1	2480	Ant1	1.1443

OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1