



Appendix E for BT Test Data

Product Name: Smartphone

Test Model: NOTE 50

Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	54.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





E.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	1.79	20	Pass
NVNT	1-DH5	2480	1.96	20	Pass
NVNT	2-DH5	2402	1.18	20	Pass
NVNT	2-DH5	2480	1.26	20	Pass
NVNT	3-DH5	2402	1.58	20	Pass
NVNT	3-DH5	2480	2.06	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVLT	1-DH5	2402	1.72	20	Pass
NVLT	1-DH5	2480	1.74	20	Pass
NVLT	2-DH5	2402	1.02	20	Pass
NVLT	2-DH5	2480	1.21	20	Pass
NVLT	3-DH5	2402	1.38	20	Pass
NVLT	3-DH5	2480	1.83	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVHT	1-DH5	2402	1.57	20	Pass
NVHT	1-DH5	2480	1.65	20	Pass
NVHT	2-DH5	2402	0.82	20	Pass
NVHT	2-DH5	2480	1.00	20	Pass
NVHT	3-DH5	2402	1.24	20	Pass
NVHT	3-DH5	2480	1.67	20	Pass

***Note: 20 bursts had been captured for power measurement.

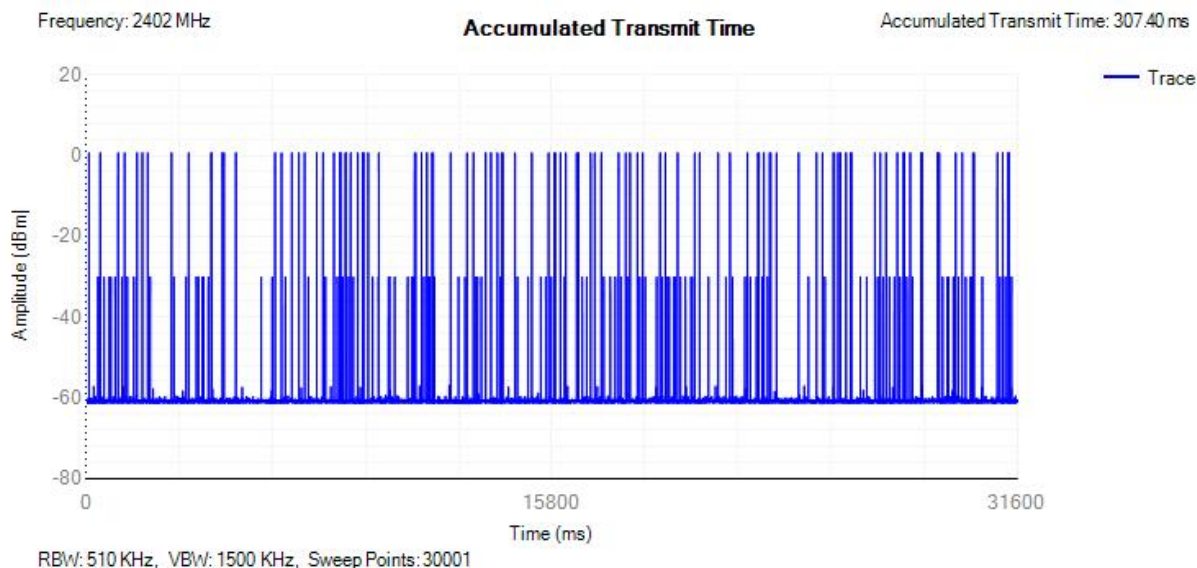




E.2 Accumulated Transmit Time

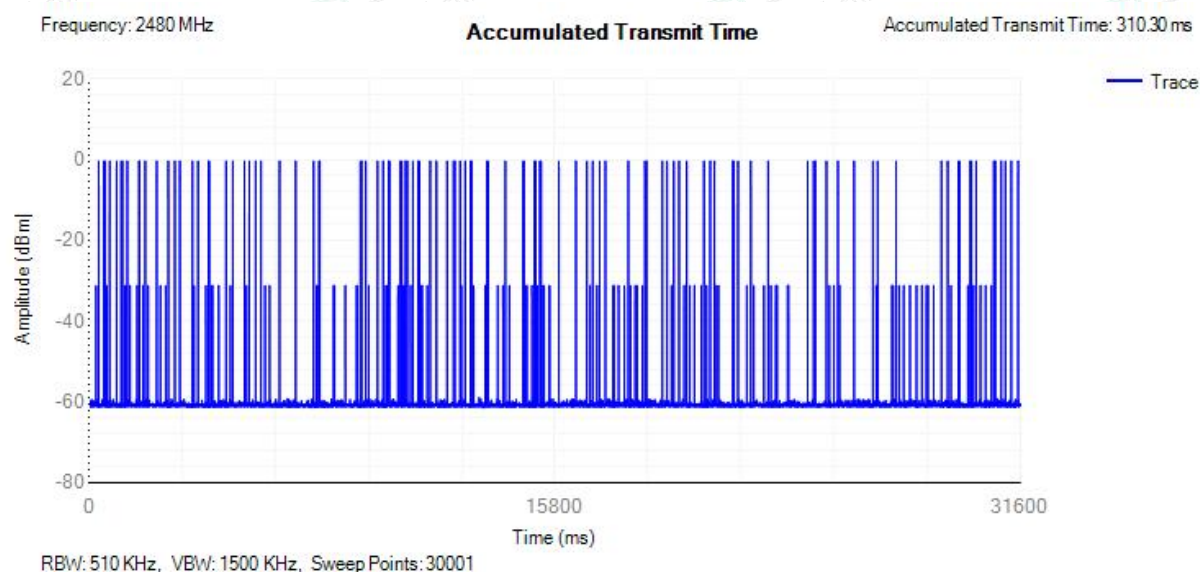
Condition	Mode	Frequency (MHz)	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	307.4	400	31600	106	Pass
NVNT	1-DH5	2480	310.3	400	31600	107	Pass
NVNT	2-DH5	2402	261.25	400	31600	95	Pass
NVNT	2-DH5	2480	280.5	400	31600	102	Pass
NVNT	3-DH5	2402	277.75	400	31600	101	Pass
NVNT	3-DH5	2480	275	400	31600	100	Pass

Dwell NVNT 1-DH5 2402MHz

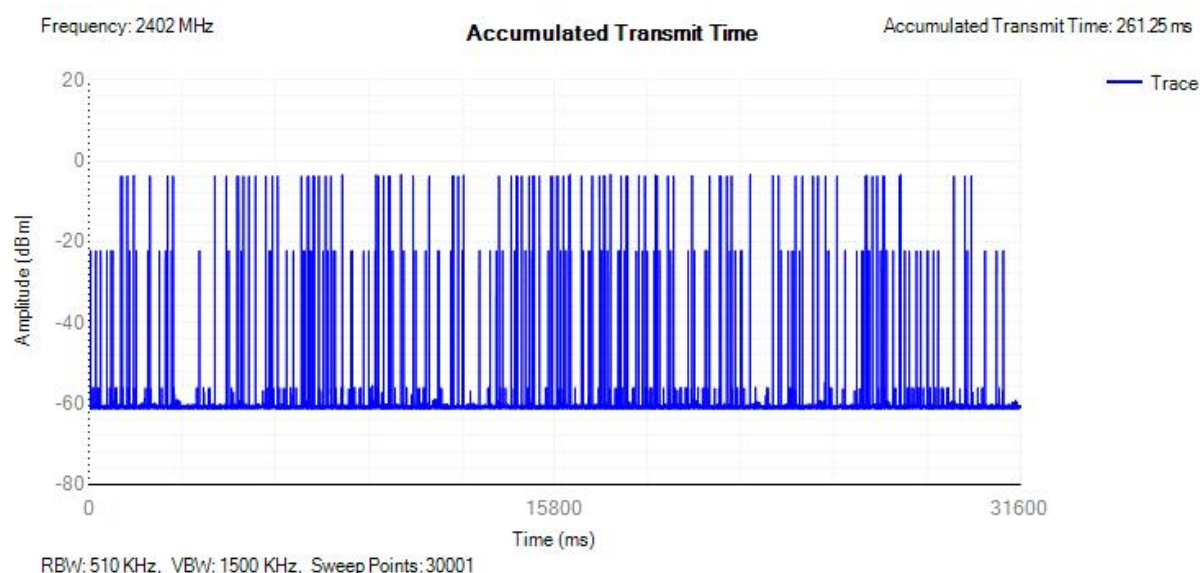




Dwell NVNT 1-DH5 2480MHz

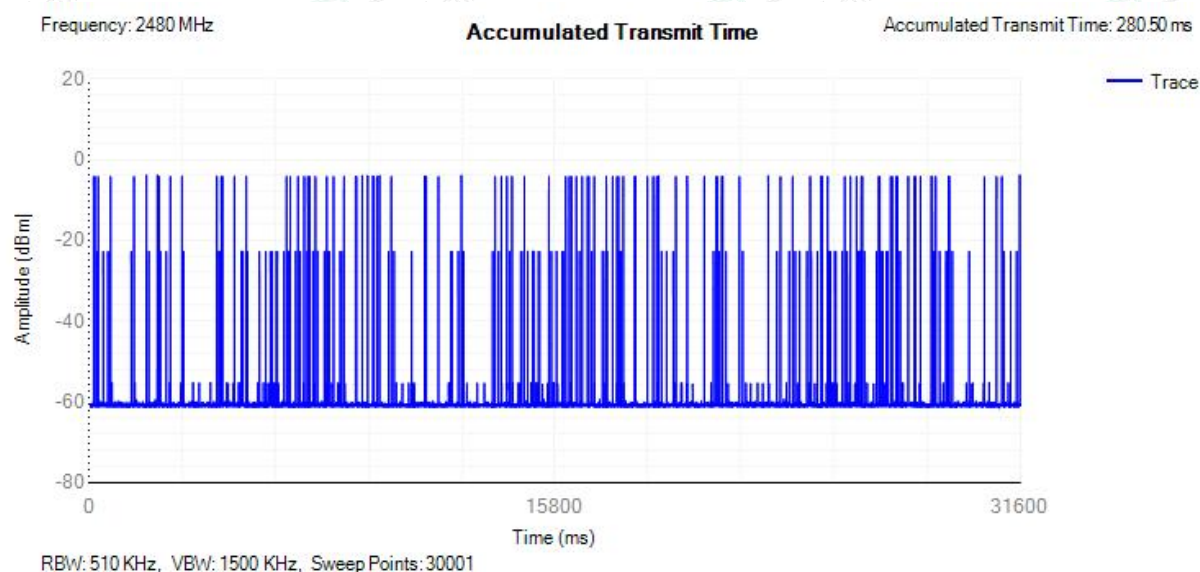


Dwell NVNT 2-DH5 2402MHz

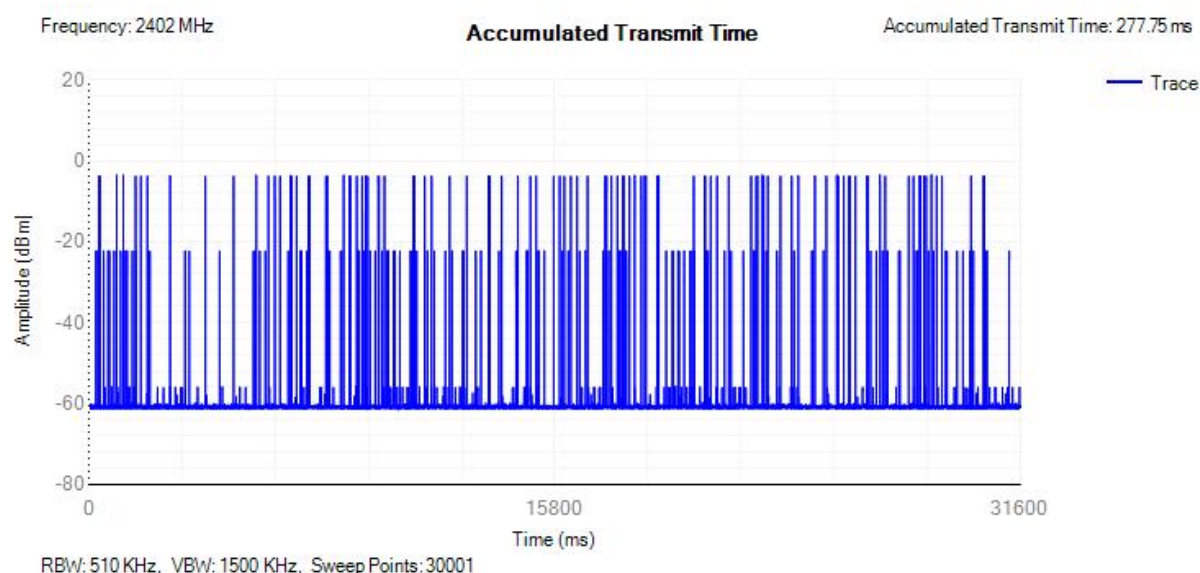




Dwell NVNT 2-DH5 2480MHz

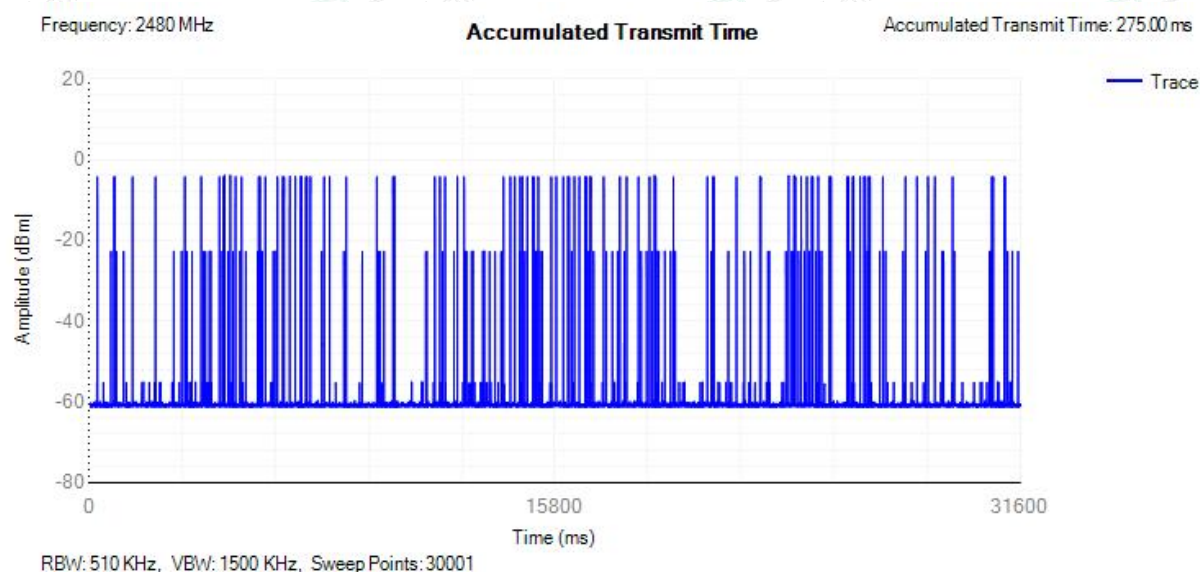


Dwell NVNT 3-DH5 2402MHz





Dwell NVNT 3-DH5 2480MHz

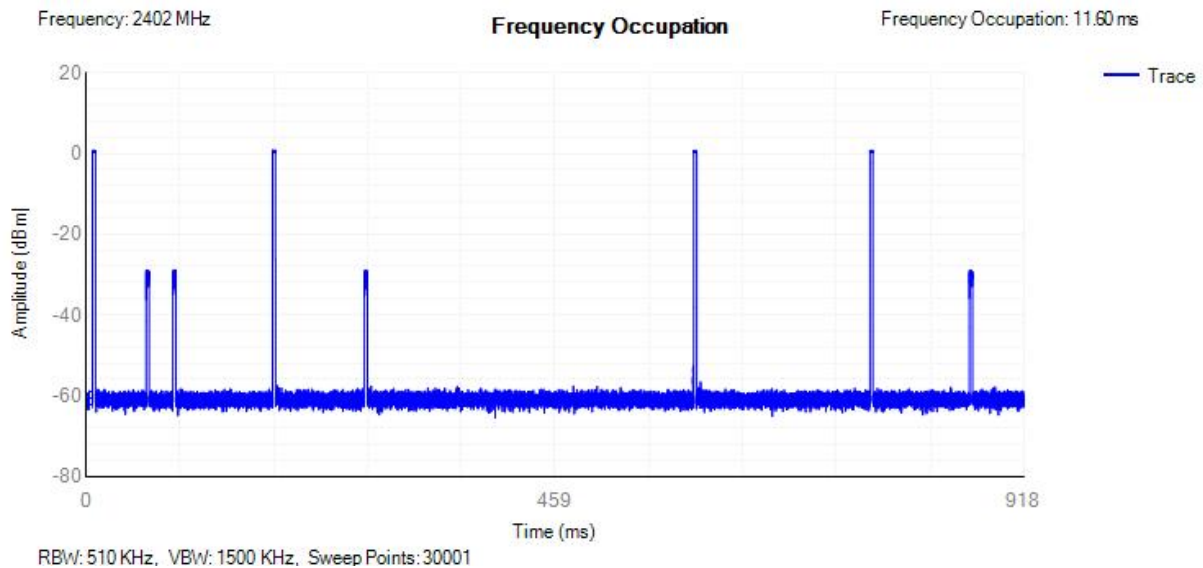




E.3 Frequency Occupation

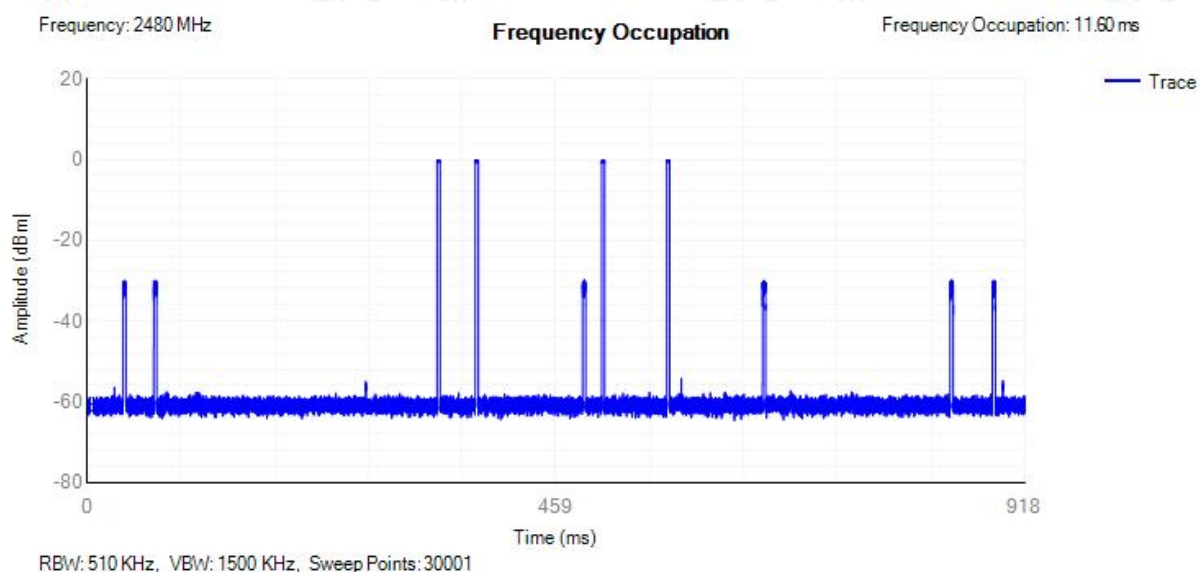
Condition	Mode	Frequency (MHz)	Frequency Occupation (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	11.6	0	916.4	4	Pass
NVNT	1-DH5	2480	11.6	0	916.4	4	Pass
NVNT	2-DH5	2402	0	0	869	0	Pass
NVNT	2-DH5	2480	19.25	0	869	7	Pass
NVNT	3-DH5	2402	2.75	0	869	1	Pass
NVNT	3-DH5	2480	2.75	0	869	1	Pass

Freq. Occup. NVNT 1-DH5 2402MHz

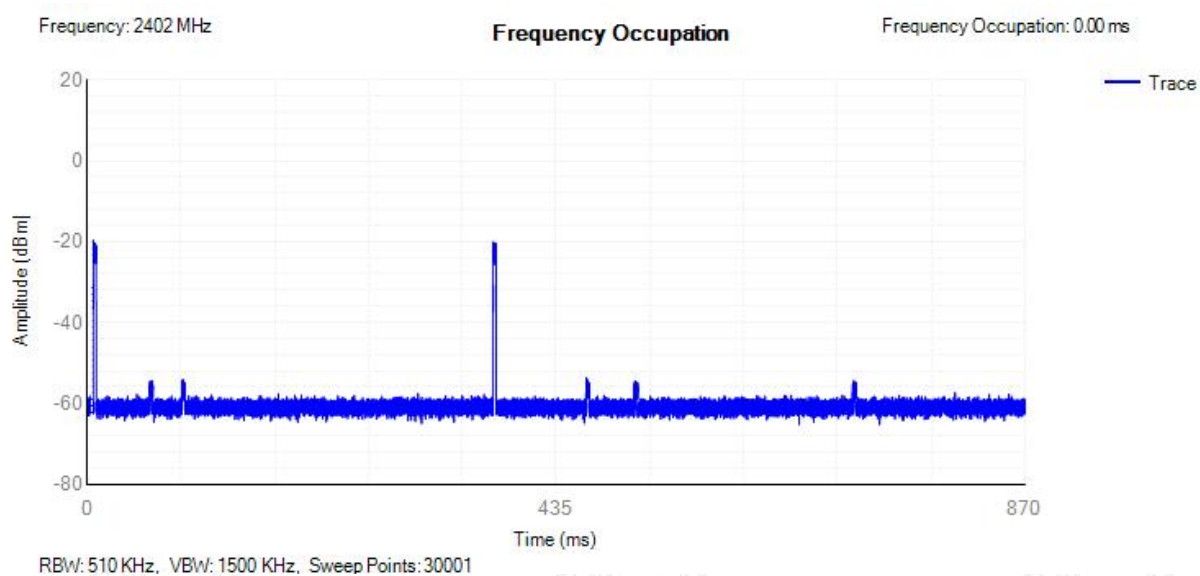




Freq. Occup. NVNT 1-DH5 2480MHz

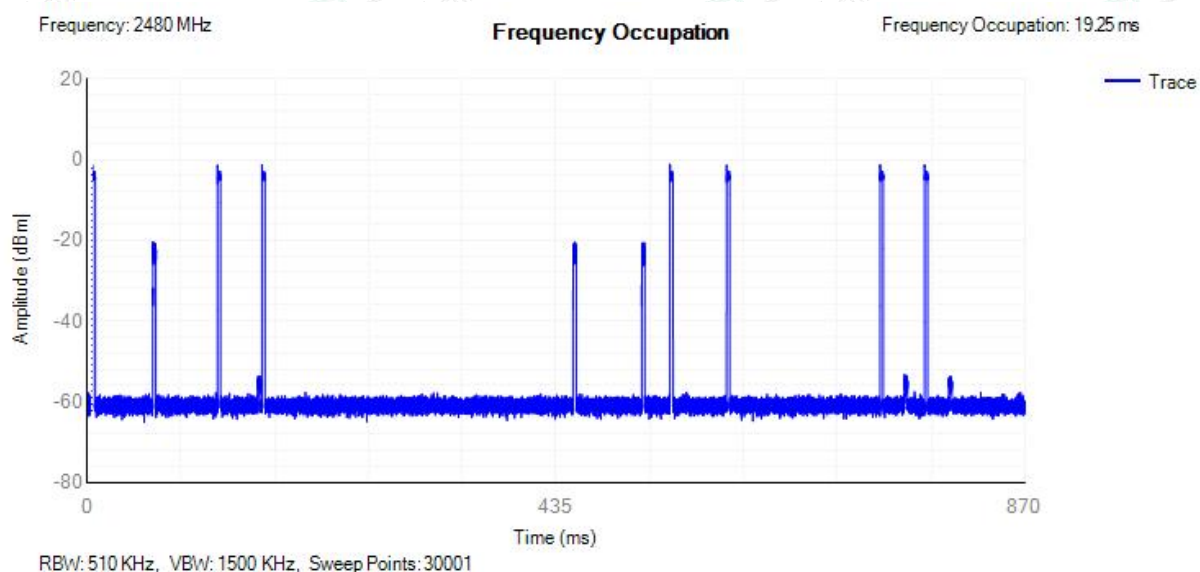


Freq. Occup. NVNT 2-DH5 2402MHz

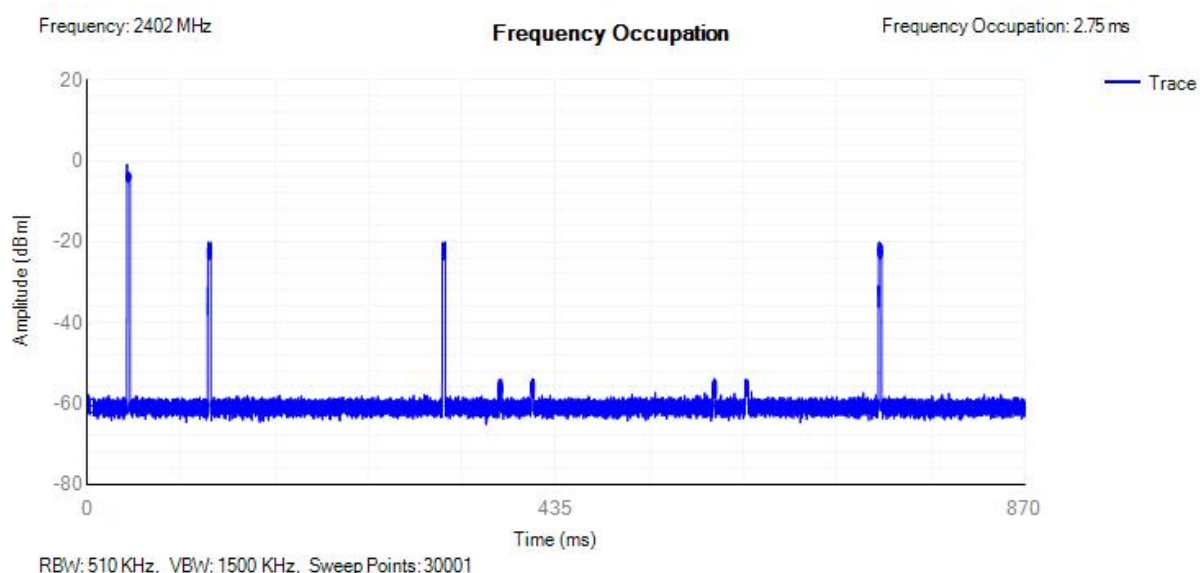




Freq. Occup. NVNT 2-DH5 2480MHz

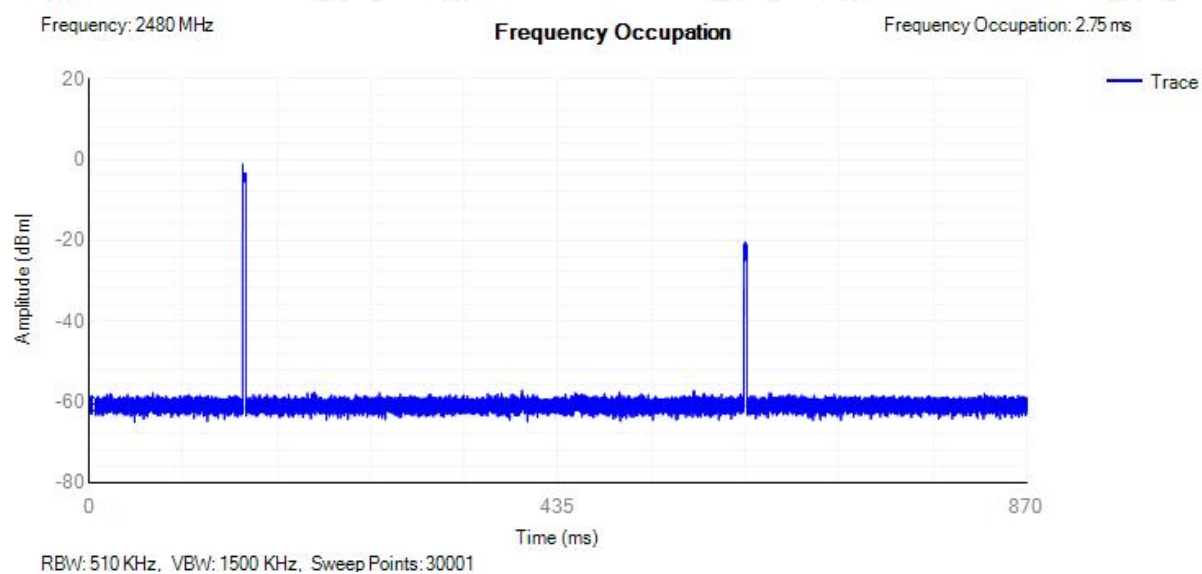


Freq. Occup. NVNT 3-DH5 2402MHz





Freq. Occup. NVNT 3-DH5 2480MHz

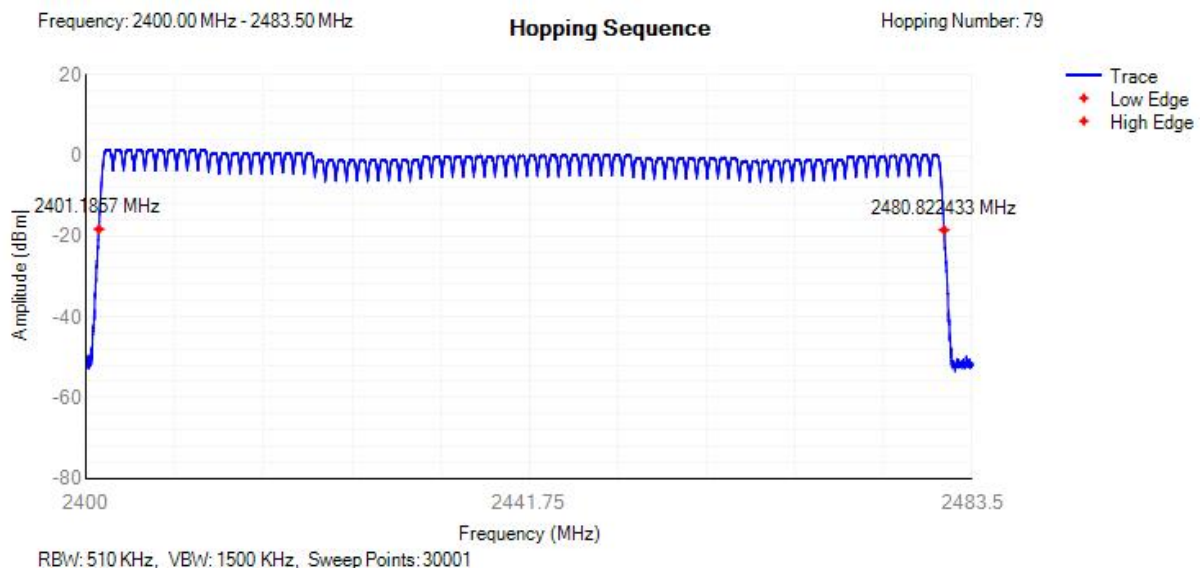




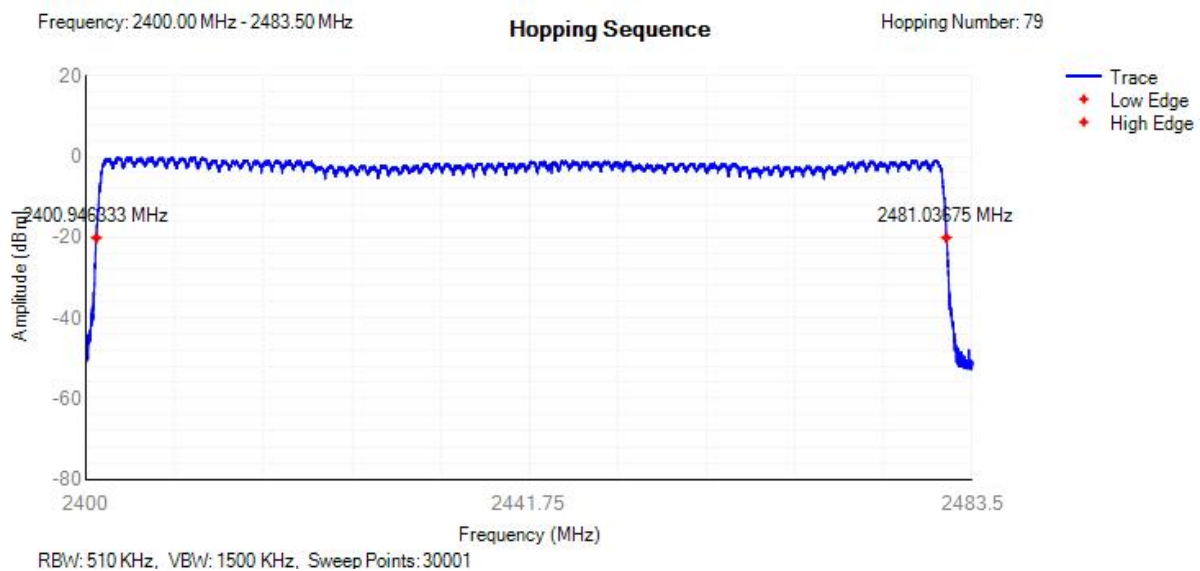
E.4 Hopping Sequence

Condition	Mode	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	79	15	95.37	70	Pass
NVNT	2-DH5	79	15	95.91	70	Pass
NVNT	3-DH5	79	15	95.97	70	Pass

Hopping Seq. NVNT 1-DH5 2402MHz

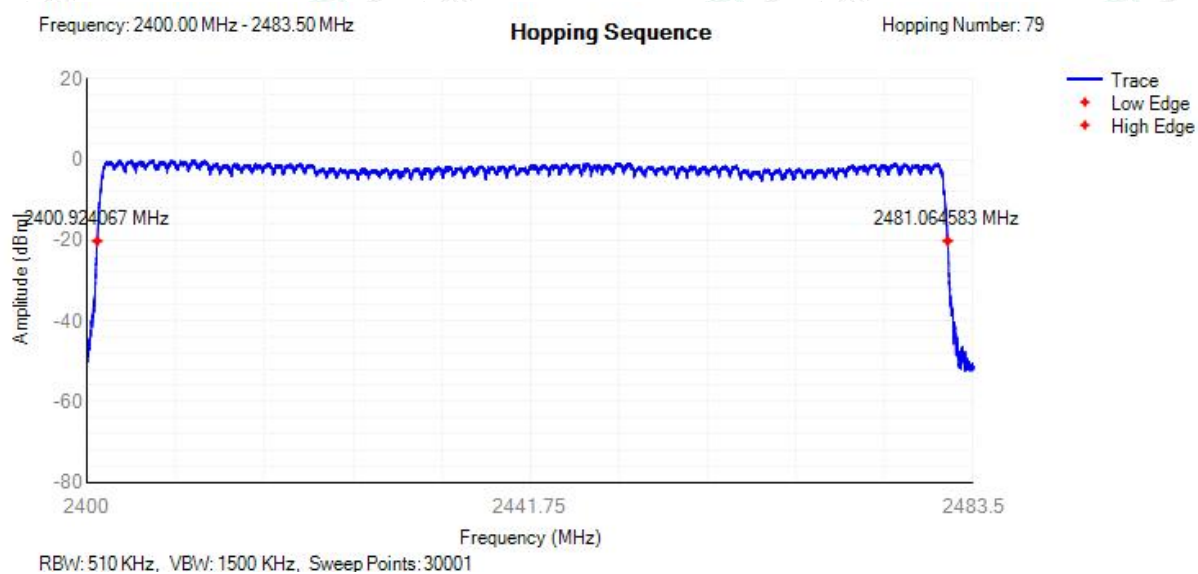


Hopping Seq. NVNT 2-DH5 2402MHz





Hopping Seq. NVNT 3-DH5 2402MHz

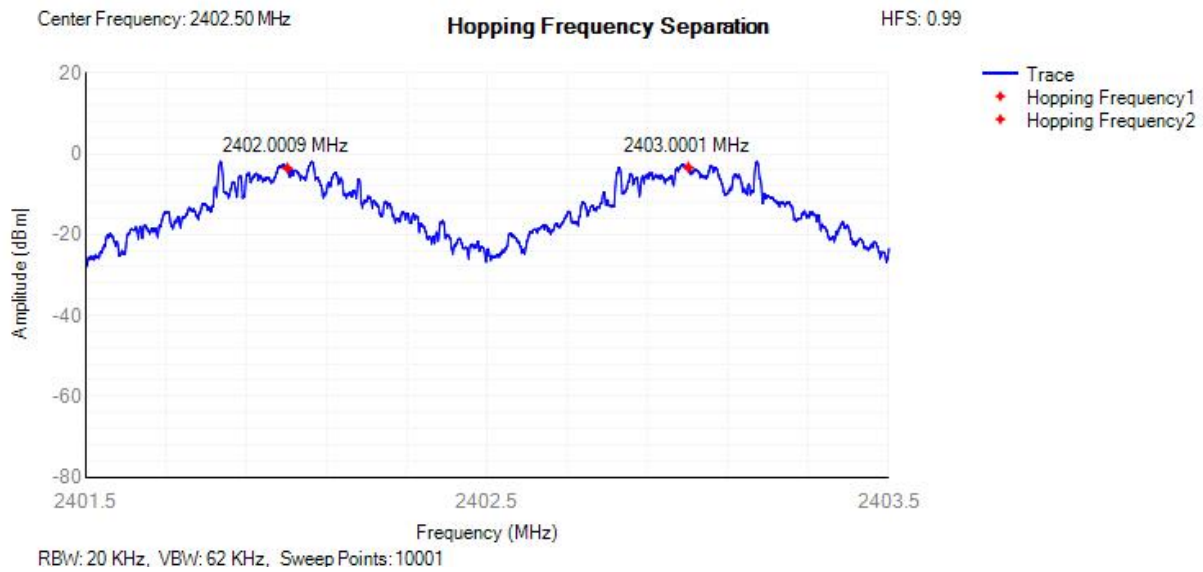




E.5 Hopping Frequency Separation

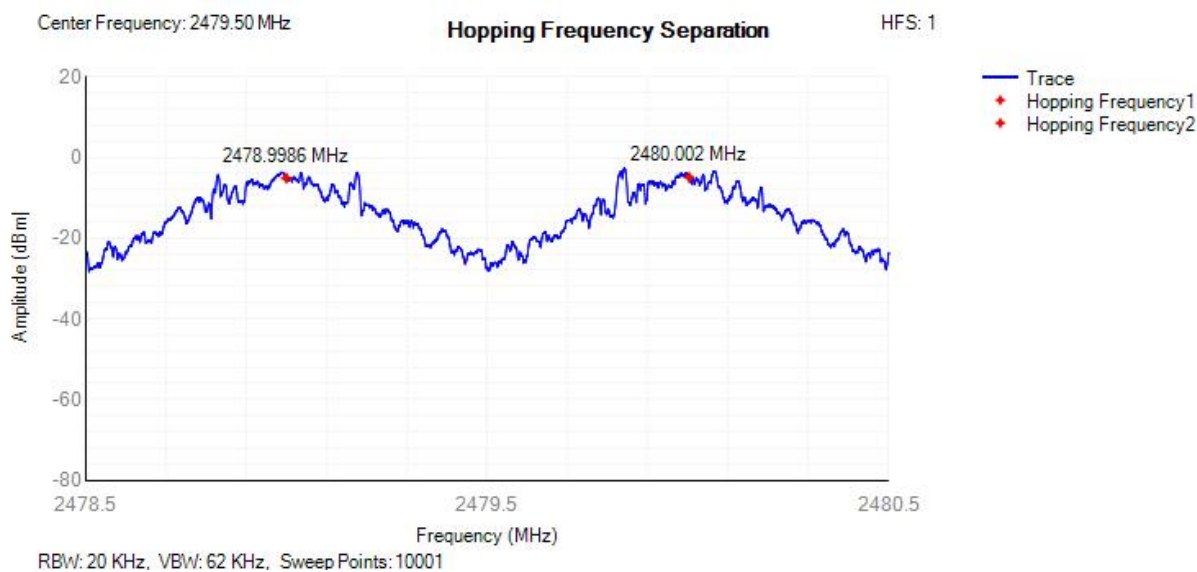
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.0009	2403.0001	0.99	0.1	Pass
NVNT	1-DH5	2478.9986	2480.002	1	0.1	Pass
NVNT	2-DH5	2401.9879	2403.0042	1.01	0.1	Pass
NVNT	2-DH5	2478.9993	2480.2115	1.21	0.1	Pass
NVNT	3-DH5	2401.9064	2403.0261	1.11	0.1	Pass
NVNT	3-DH5	1239.7025	2480.0202	1240.31	0.1	Pass

HFS NVNT 1-DH5 2402MHz

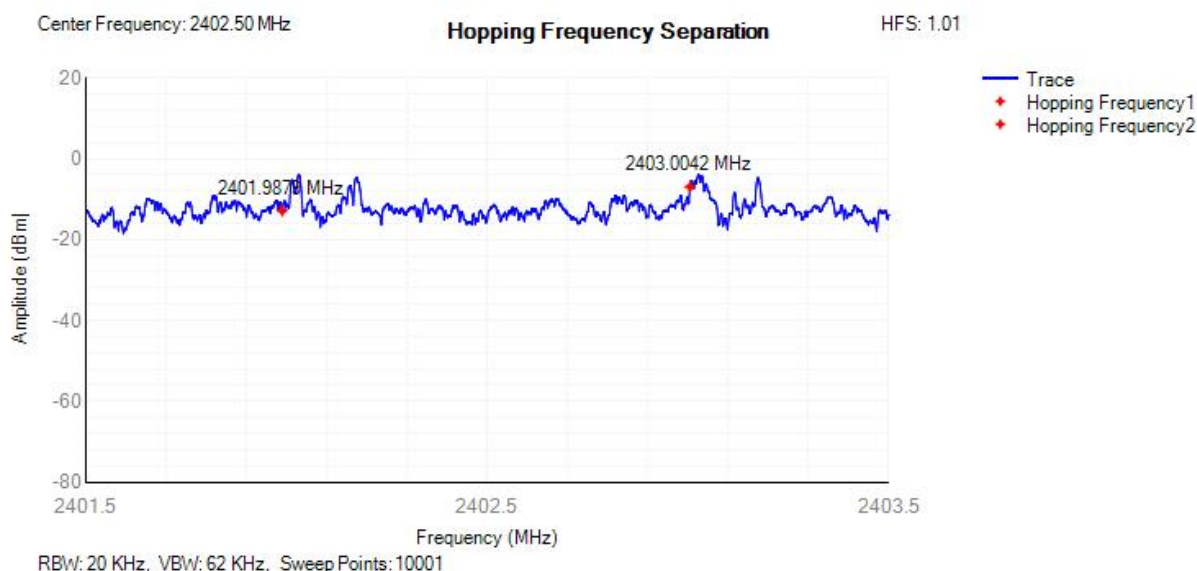




HFS NVNT 1-DH5 2480MHz



HFS NVNT 2-DH5 2402MHz



Shenzhen LCS Compliance Testing Laboratory Ltd.

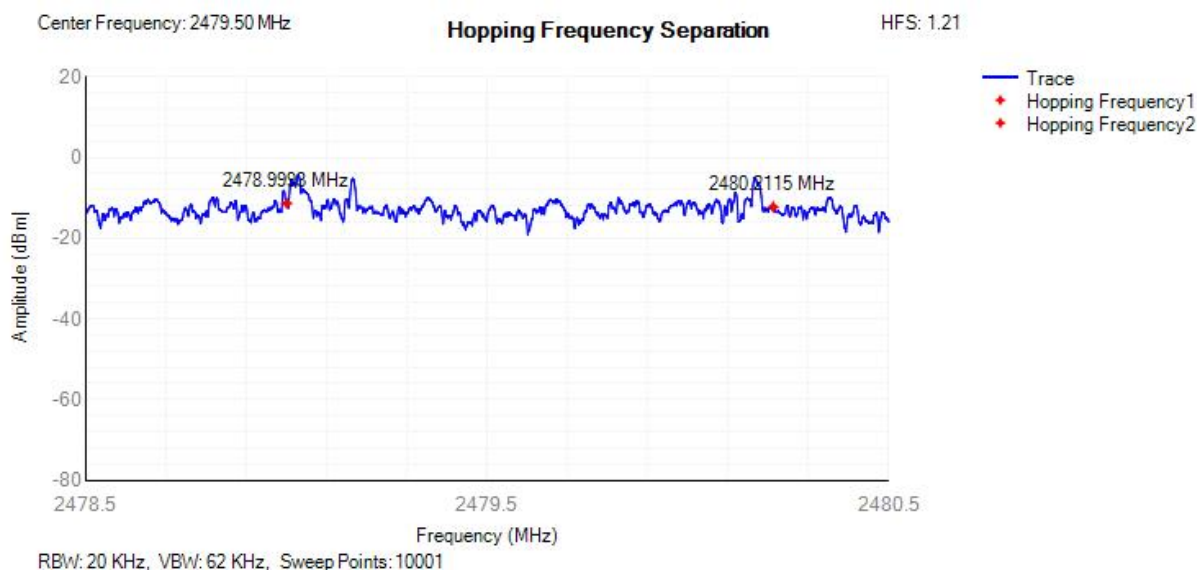
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

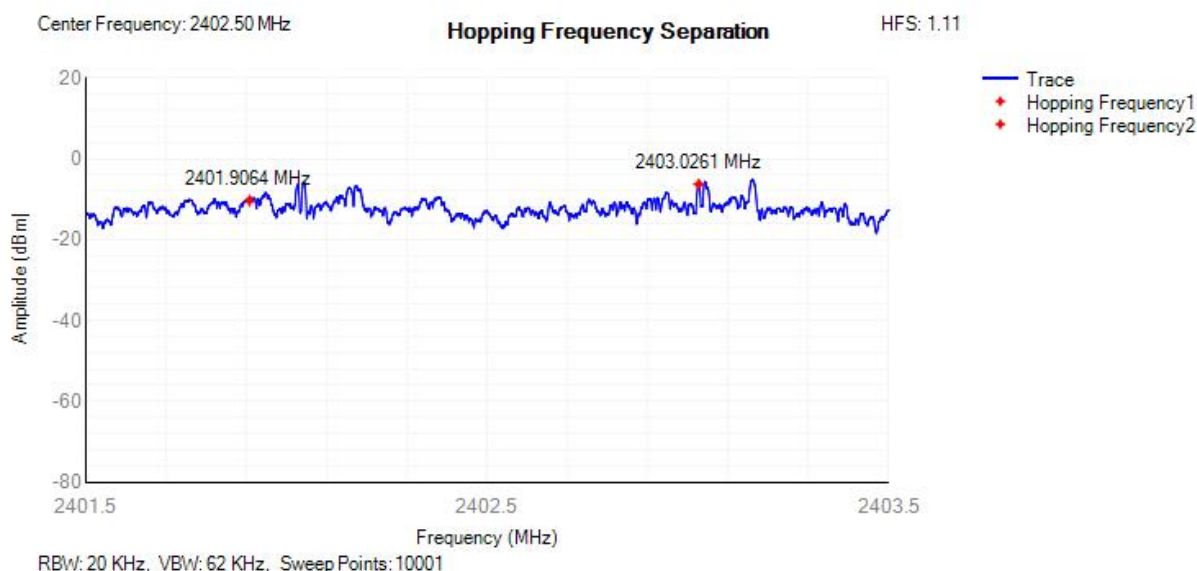
Scan code to check authenticity



HFS NVNT 2-DH5 2480MHz



HFS NVNT 3-DH5 2402MHz



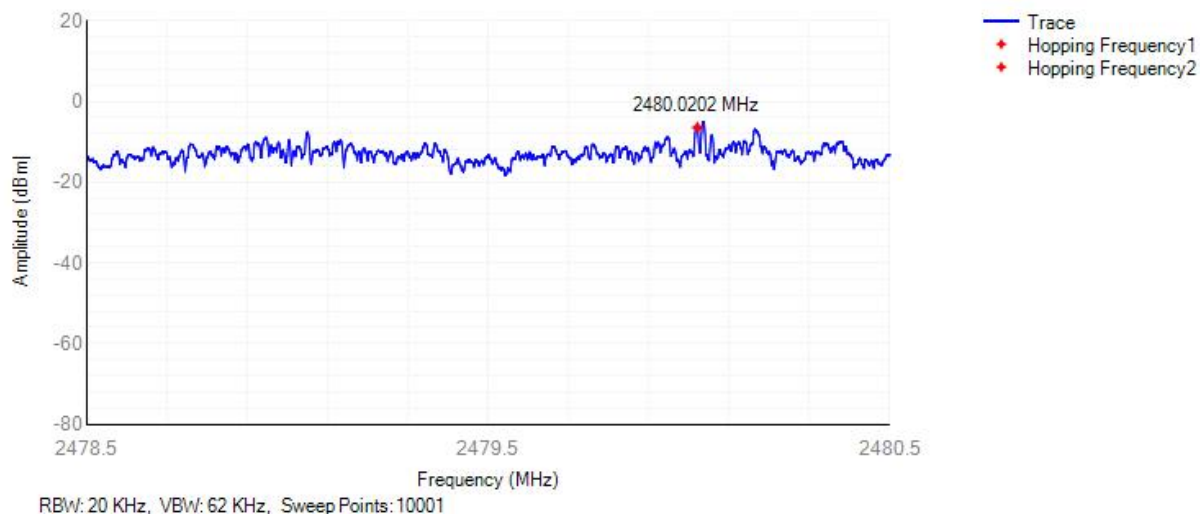


HFS NVNT 3-DH5 2480MHz

Center Frequency: 2479.50 MHz

Hopping Frequency Separation

HFS: 1240.31

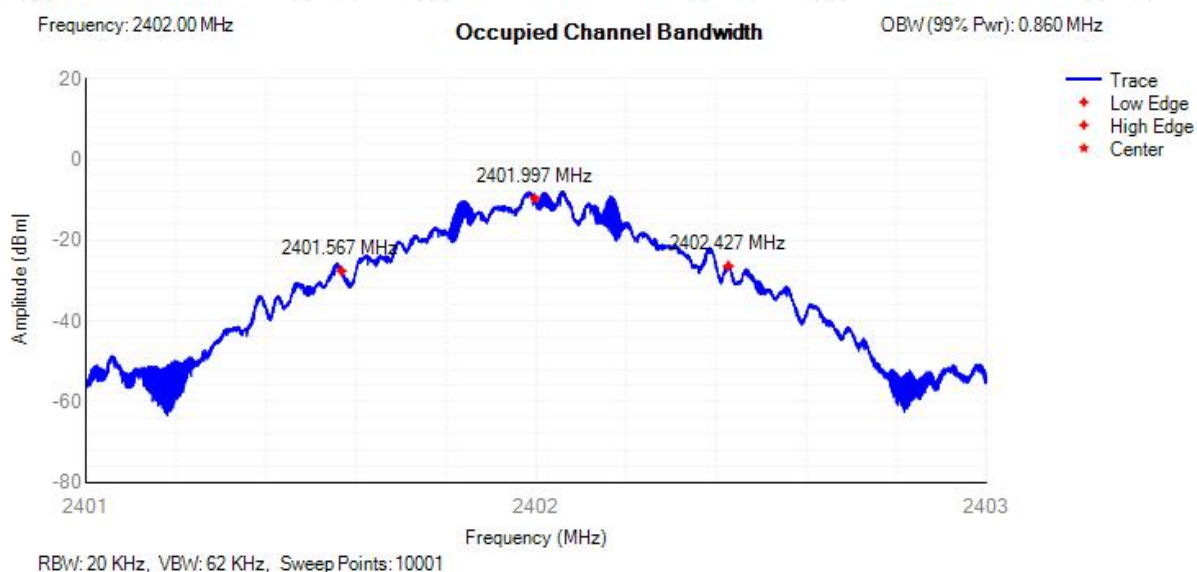




E.6 Occupied Channel Bandwidth

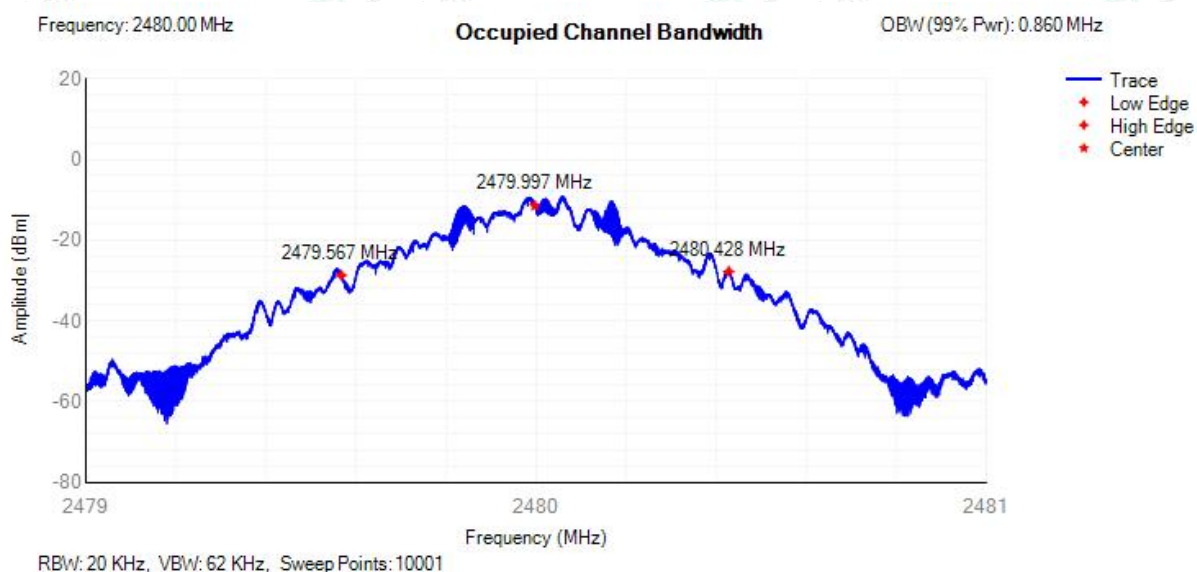
Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	1-DH5	2402	2401.997	0.86	2401.567	2402.427	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	2479.997	0.86	2479.567	2480.428	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	2401.999	1.18	2401.409	2402.589	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	2480	1.18	2479.41	2480.59	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	2401.997	1.194	2401.4	2402.595	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	2479.997	1.194	2479.4	2480.594	2400 - 2483.5MHz	Pass

OBW NVNT 1-DH5 2402MHz

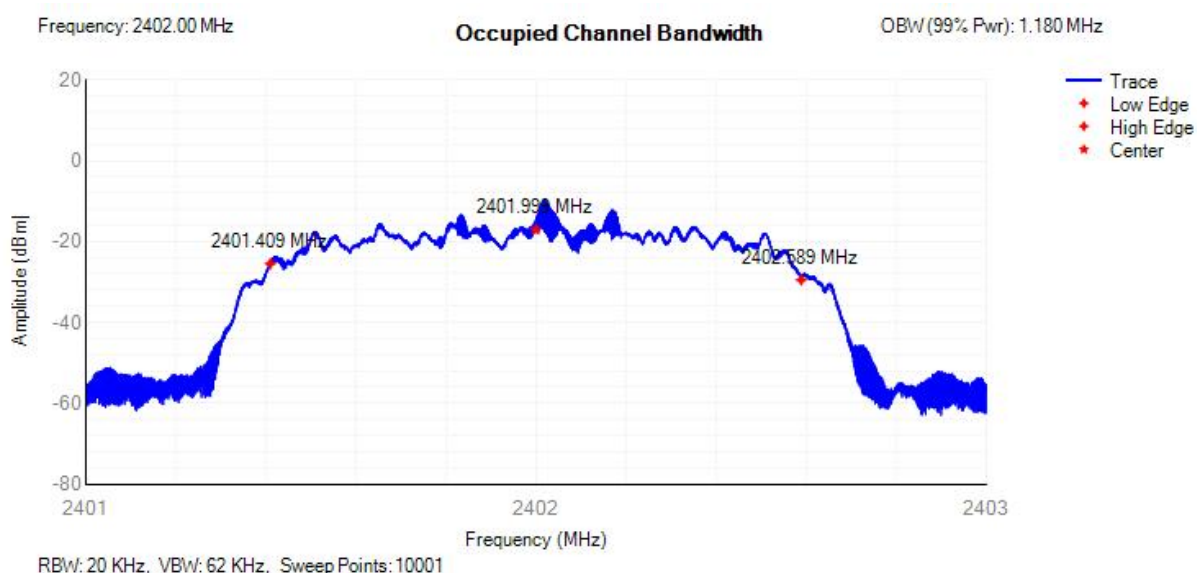




OBW NVNT 1-DH5 2480MHz

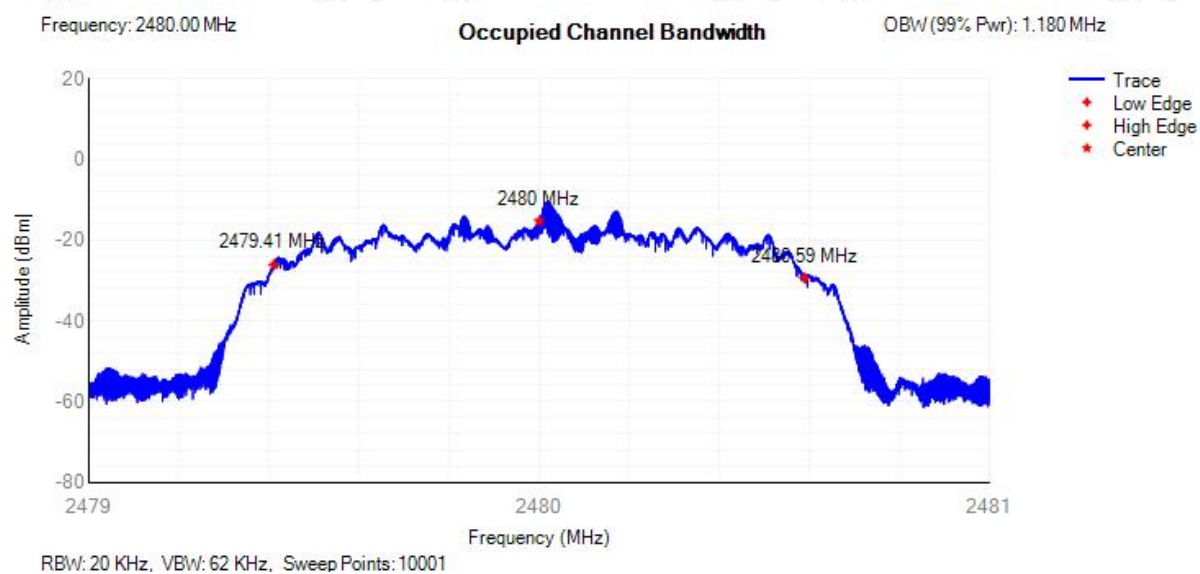


OBW NVNT 2-DH5 2402MHz

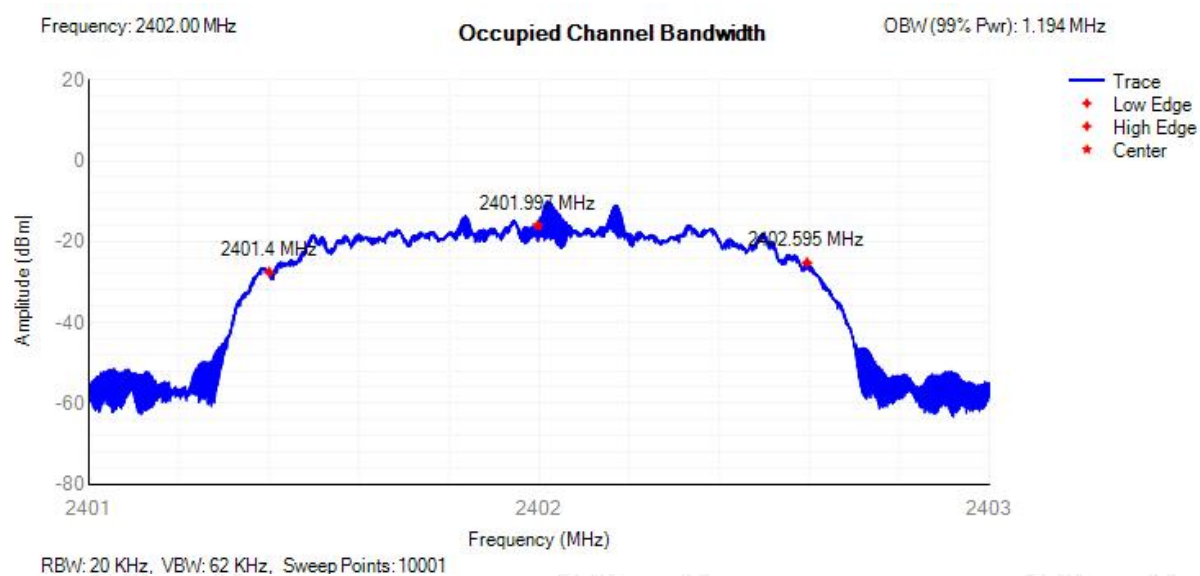




OBW NVNT 2-DH5 2480MHz

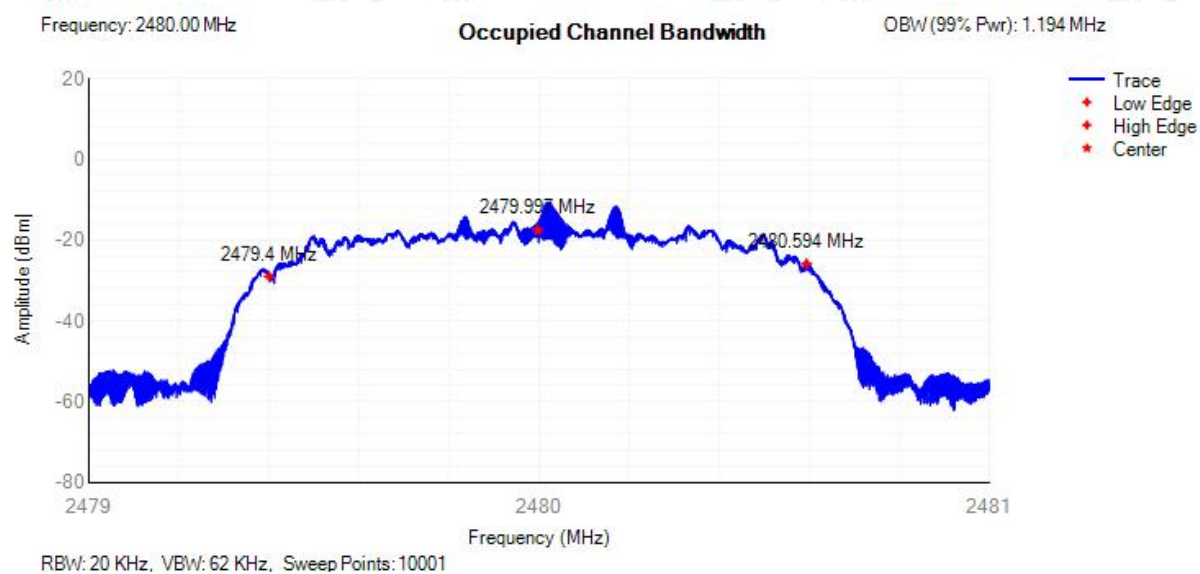


OBW NVNT 3-DH5 2402MHz





OBW NVNT 3-DH5 2480MHz





E.7 Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	2402	2399.5	-64.69	-10	Pass
NVNT	1-DH5	2402	2399.306	-70.71	-10	Pass
NVNT	1-DH5	2402	2398.306	-73.71	-20	Pass
NVNT	1-DH5	2402	2398.112	-77.28	-20	Pass
NVNT	1-DH5	2402	2484	-75.68	-10	Pass
NVNT	1-DH5	2402	2484.194	-69.03	-10	Pass
NVNT	1-DH5	2402	2485.194	-72.44	-20	Pass
NVNT	1-DH5	2402	2485.388	-72.87	-20	Pass
NVNT	1-DH5	2480	2399.5	-70.91	-10	Pass
NVNT	1-DH5	2480	2399.306	-71.91	-10	Pass
NVNT	1-DH5	2480	2398.306	-73.55	-20	Pass
NVNT	1-DH5	2480	2398.112	-77	-20	Pass
NVNT	1-DH5	2480	2484	-73.98	-10	Pass
NVNT	1-DH5	2480	2484.194	-76.51	-10	Pass
NVNT	1-DH5	2480	2485.194	-70.95	-20	Pass
NVNT	1-DH5	2480	2485.388	-77.04	-20	Pass
NVNT	2-DH5	2402	2399.5	-58.31	-10	Pass
NVNT	2-DH5	2402	2399.306	-77.31	-10	Pass
NVNT	2-DH5	2402	2398.306	-74.75	-20	Pass
NVNT	2-DH5	2402	2398.112	-71.59	-20	Pass
NVNT	2-DH5	2402	2484	-77.01	-10	Pass
NVNT	2-DH5	2402	2484.194	-77.44	-10	Pass
NVNT	2-DH5	2402	2485.194	-71.7	-20	Pass
NVNT	2-DH5	2402	2485.388	-76.98	-20	Pass
NVNT	2-DH5	2480	2399.5	-57.46	-10	Pass
NVNT	2-DH5	2480	2399.306	-73.29	-10	Pass
NVNT	2-DH5	2480	2398.306	-77.55	-20	Pass
NVNT	2-DH5	2480	2398.112	-75.25	-20	Pass
NVNT	2-DH5	2480	2484	-72.64	-10	Pass
NVNT	2-DH5	2480	2484.194	-75.85	-10	Pass
NVNT	2-DH5	2480	2485.194	-77.02	-20	Pass
NVNT	2-DH5	2480	2485.388	-77.25	-20	Pass
NVNT	3-DH5	2402	2399.5	-57.39	-10	Pass
NVNT	3-DH5	2402	2399.306	-72.75	-10	Pass



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Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

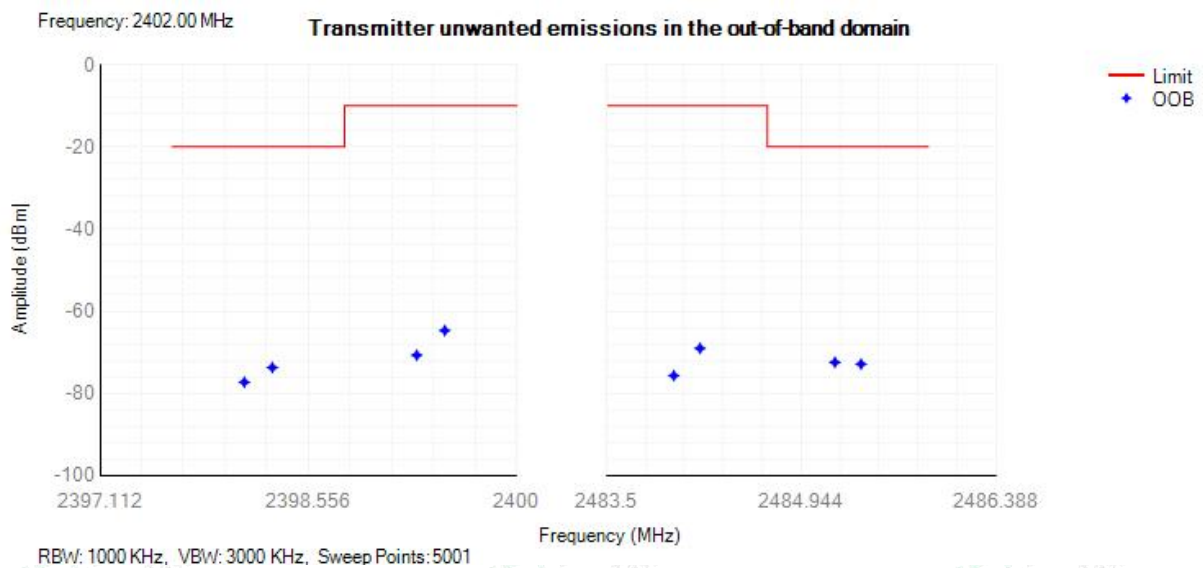
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



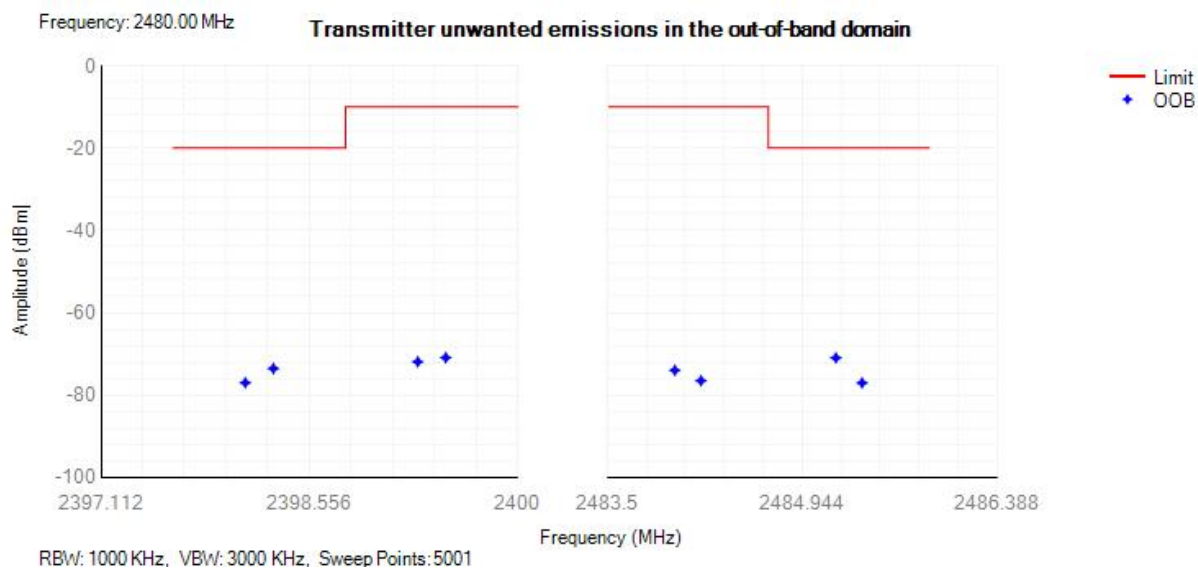
NVNT	3-DH5	2402	2398.306	-76.86	-20	Pass
NVNT	3-DH5	2402	2398.112	-74.7	-20	Pass
NVNT	3-DH5	2402	2484	-71.01	-10	Pass
NVNT	3-DH5	2402	2484.194	-77.53	-10	Pass
NVNT	3-DH5	2402	2485.194	-75.04	-20	Pass
NVNT	3-DH5	2402	2485.388	-77.68	-20	Pass
NVNT	3-DH5	2480	2399.5	-75	-10	Pass
NVNT	3-DH5	2480	2399.306	-74.74	-10	Pass
NVNT	3-DH5	2480	2398.306	-76.23	-20	Pass
NVNT	3-DH5	2480	2398.112	-74.6	-20	Pass
NVNT	3-DH5	2480	2484	-77.5	-10	Pass
NVNT	3-DH5	2480	2484.194	-74.76	-10	Pass
NVNT	3-DH5	2480	2485.194	-77.29	-20	Pass
NVNT	3-DH5	2480	2485.388	-76.85	-20	Pass

Tx. Emissions OOB NVNT 1-DH5 2402MHz

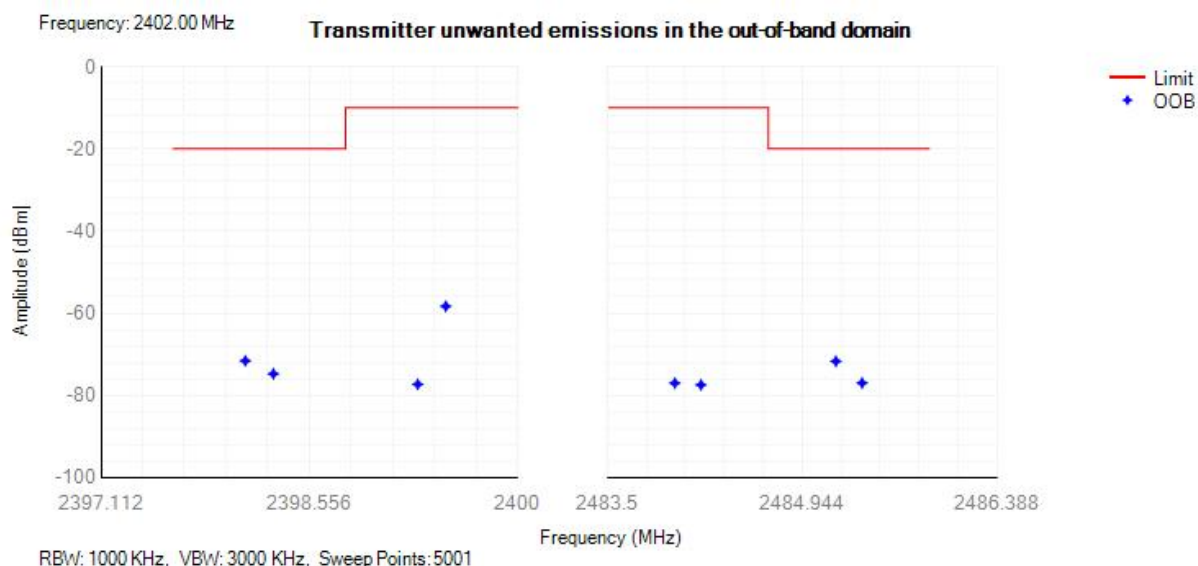




Tx. Emissions OOB NVNT 1-DH5 2480MHz

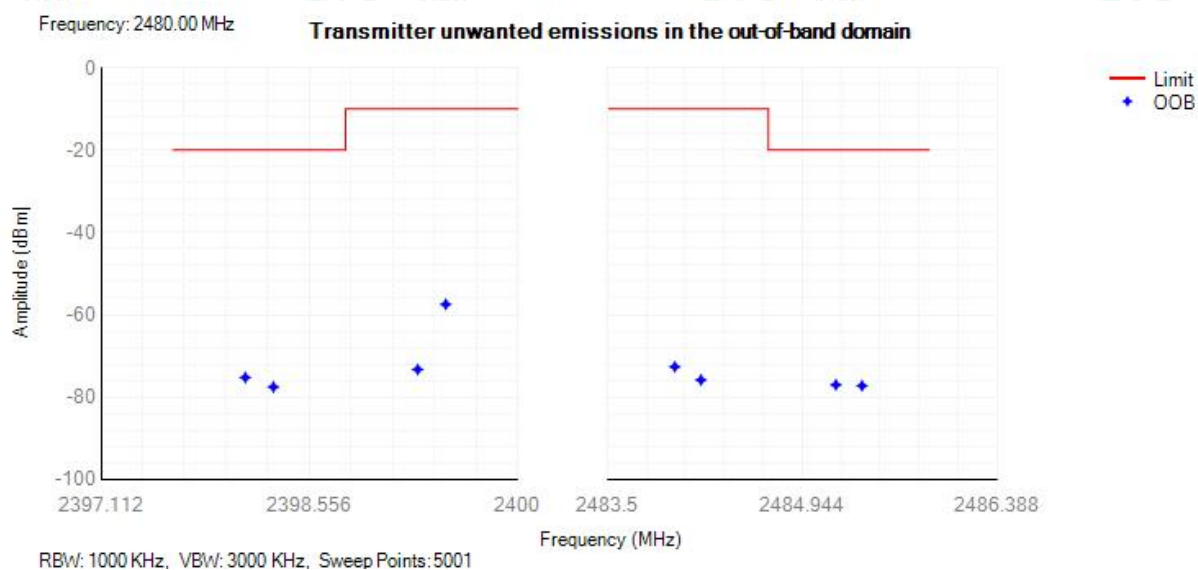


Tx. Emissions OOB NVNT 2-DH5 2402MHz

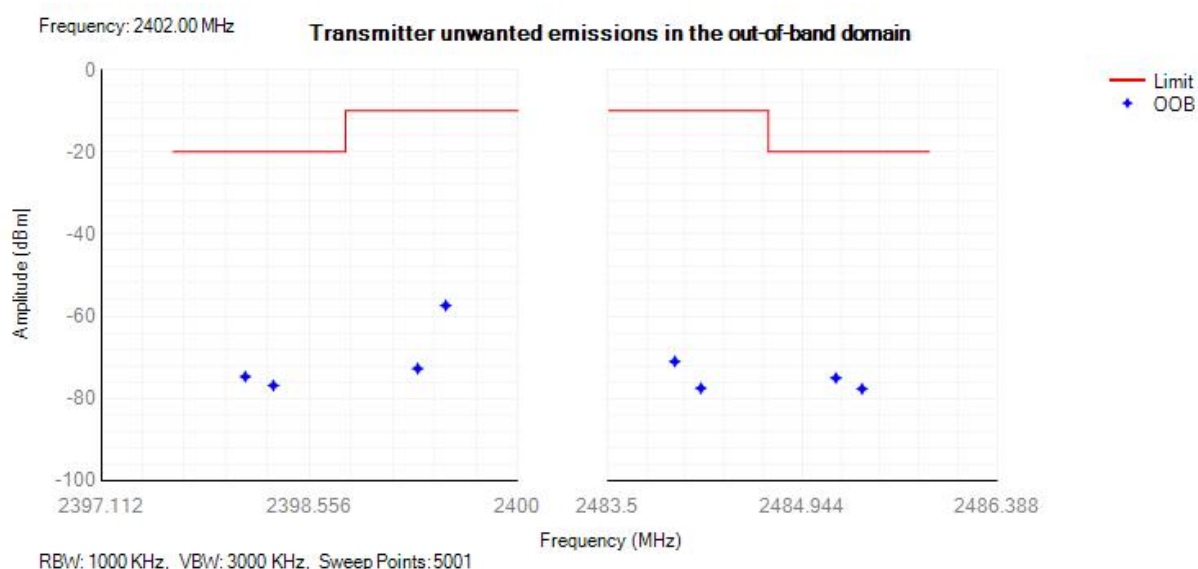




Tx. Emissions OOB NVNT 2-DH5 2480MHz

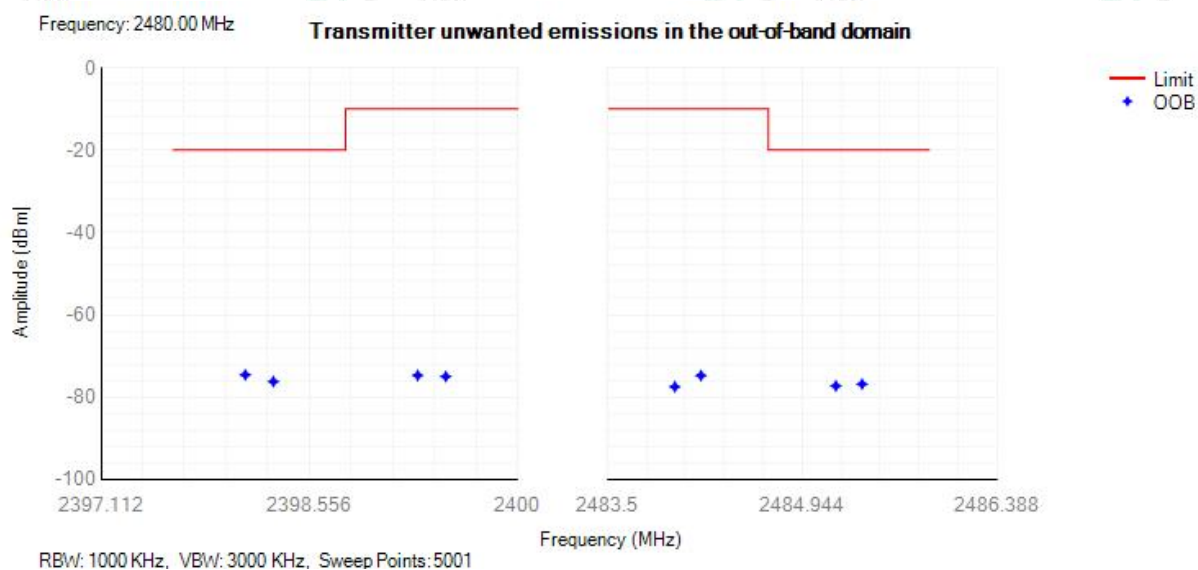


Tx. Emissions OOB NVNT 3-DH5 2402MHz





Tx. Emissions OOB NVNT 3-DH5 2480MHz

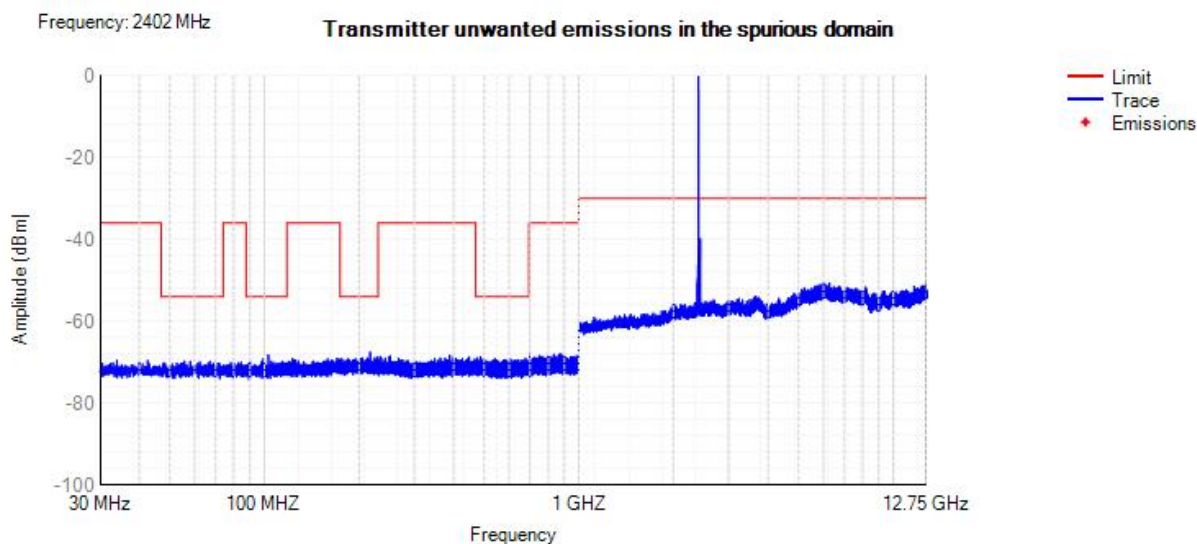




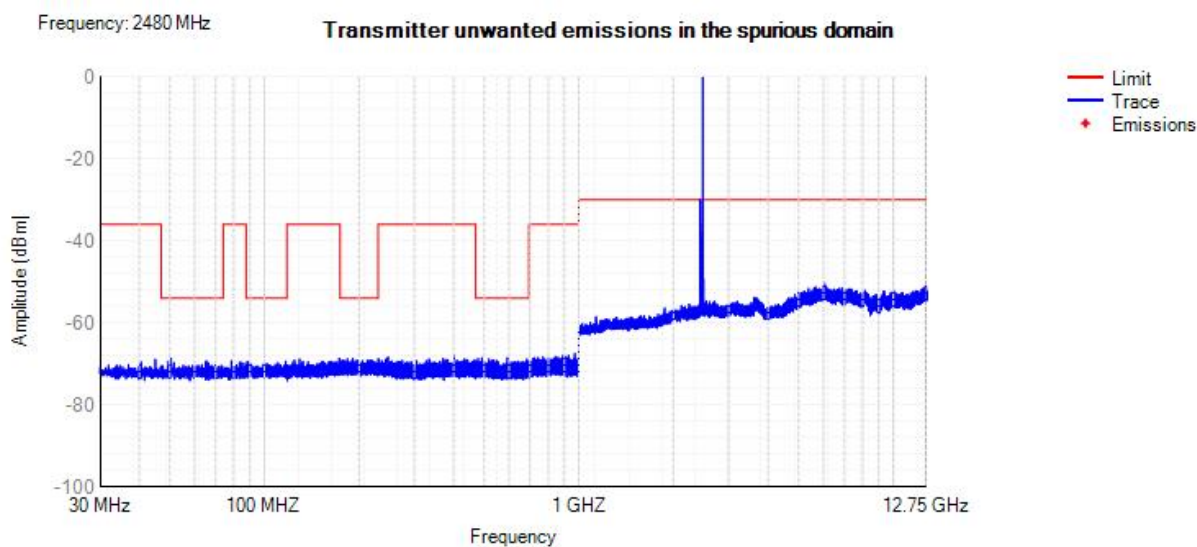
E.8 Transmitter unwanted emissions in the spurious domain

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
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Tx. Spurious NVNT 1-DH5 2402MHz

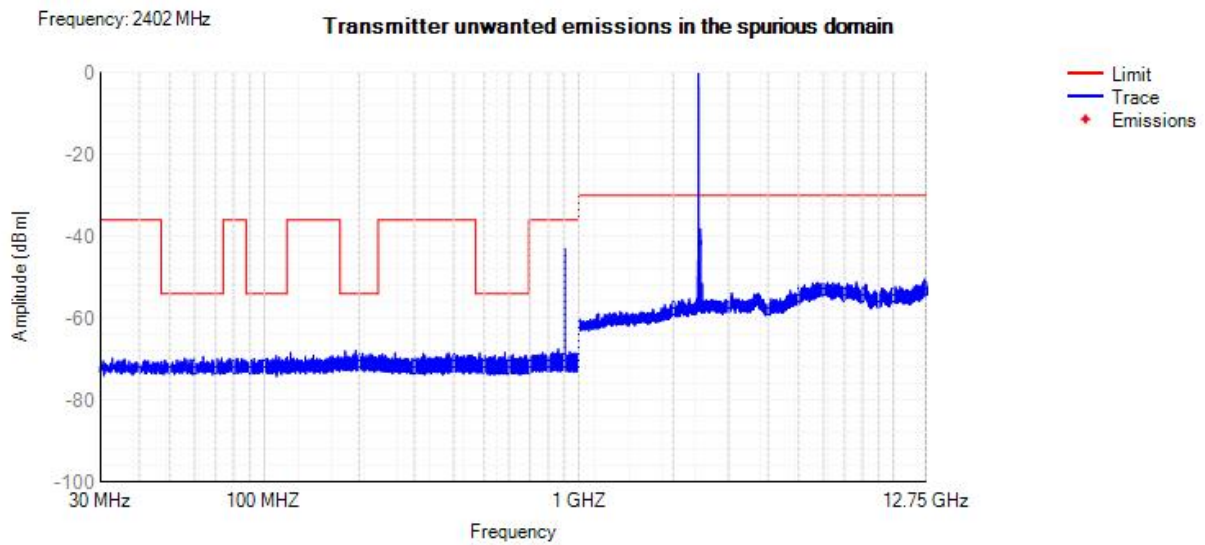


Tx. Spurious NVNT 1-DH5 2480MHz

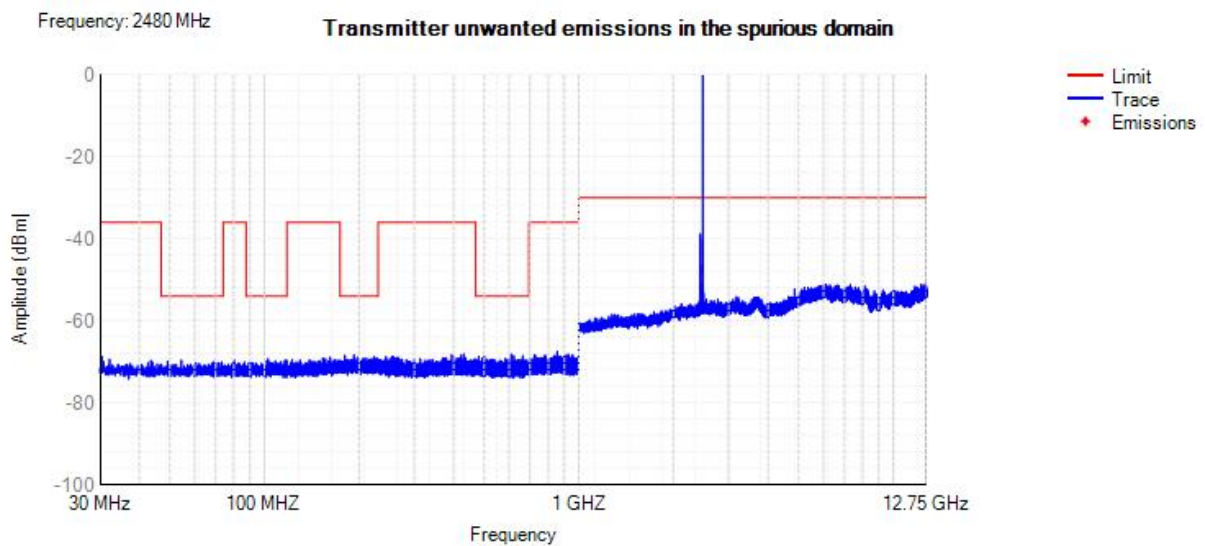


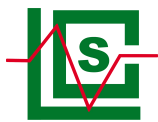


Tx. Spurious NVNT 2-DH5 2402MHz

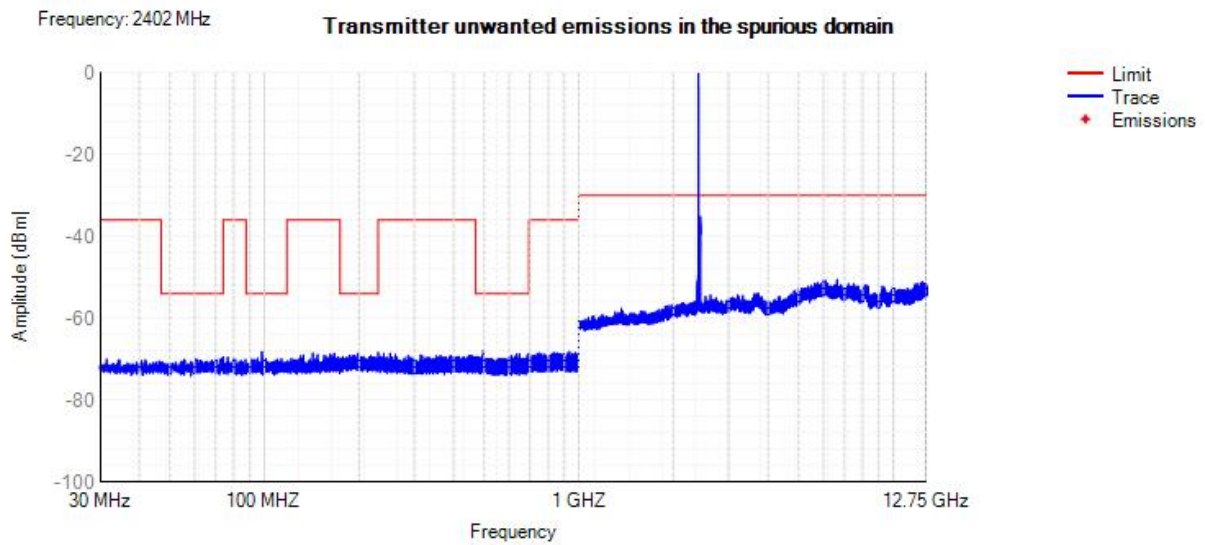


Tx. Spurious NVNT 2-DH5 2480MHz

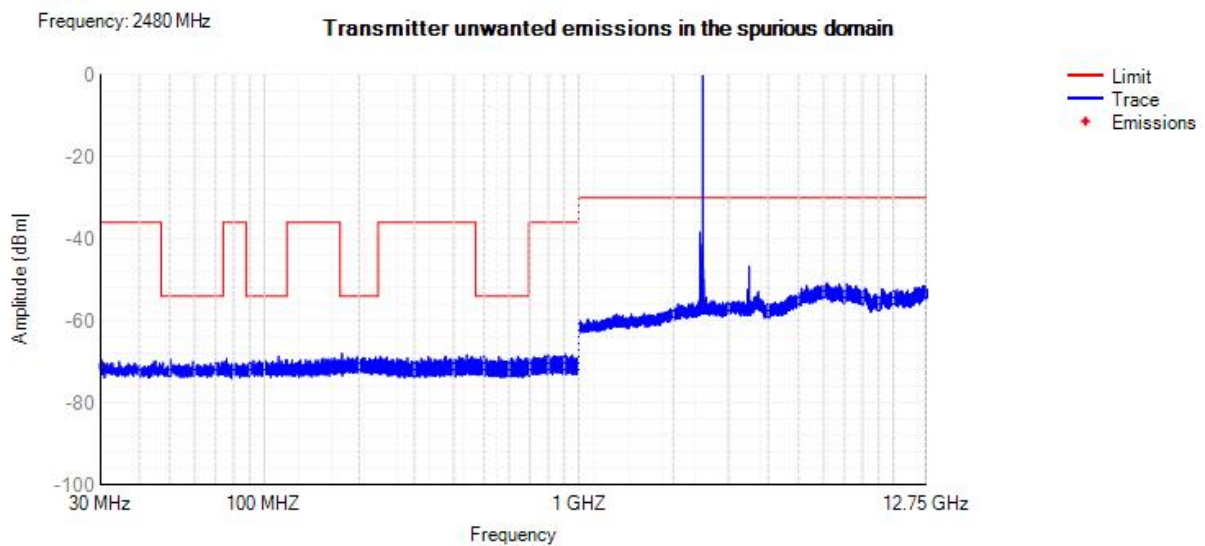




Tx. Spurious NVNT 3-DH5 2402MHz



Tx. Spurious NVNT 3-DH5 2480MHz

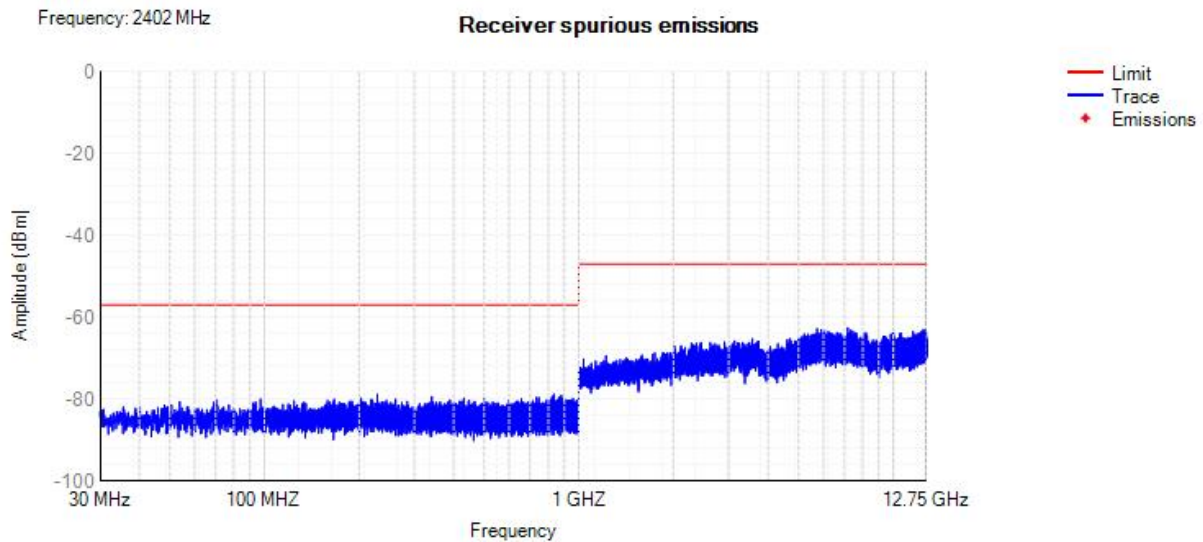




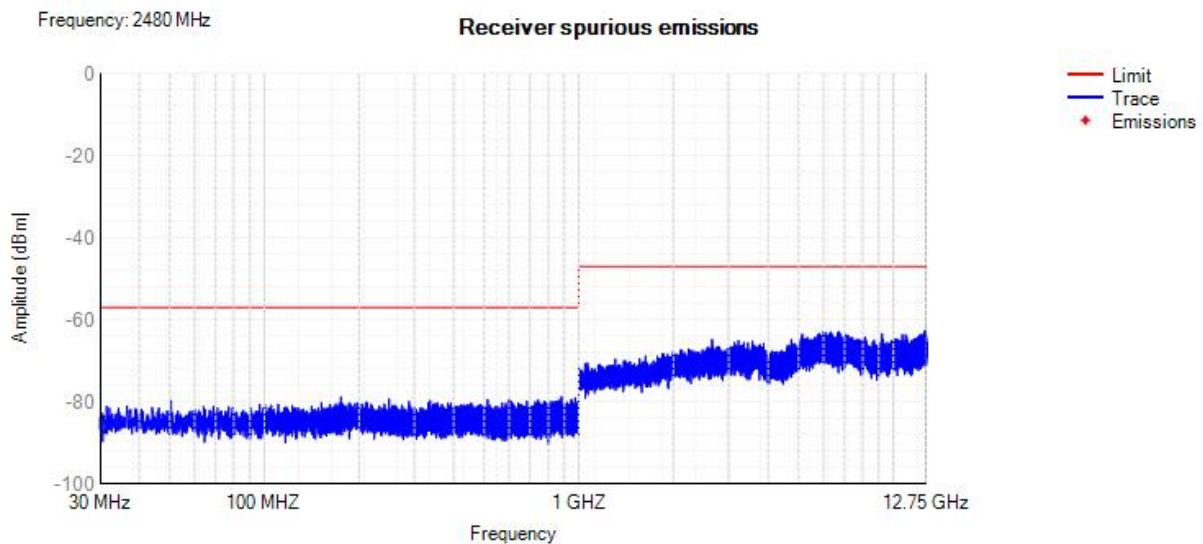
E.9 Receiver spurious emissions

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
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Rx. Spurious NVNT 1-DH5 2402MHz

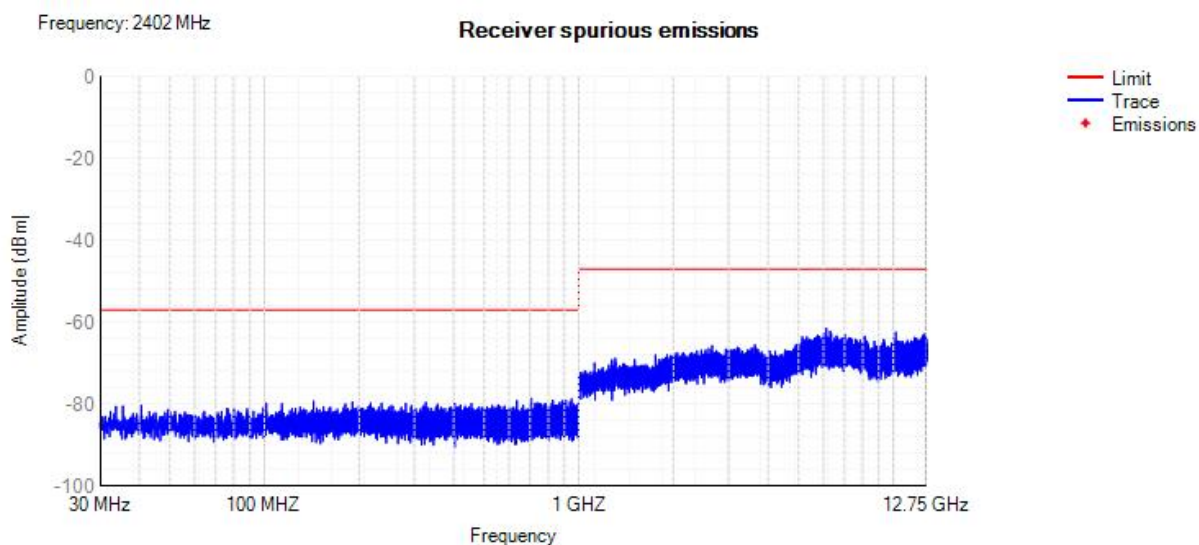


Rx. Spurious NVNT 1-DH5 2480MHz

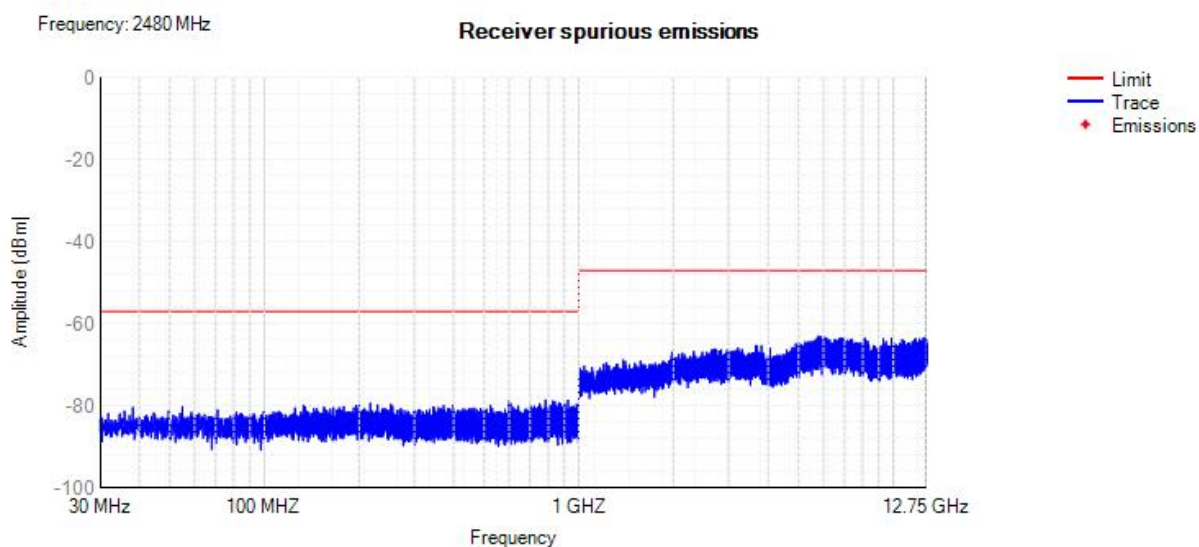




Rx. Spurious NVNT 2-DH5 2402MHz

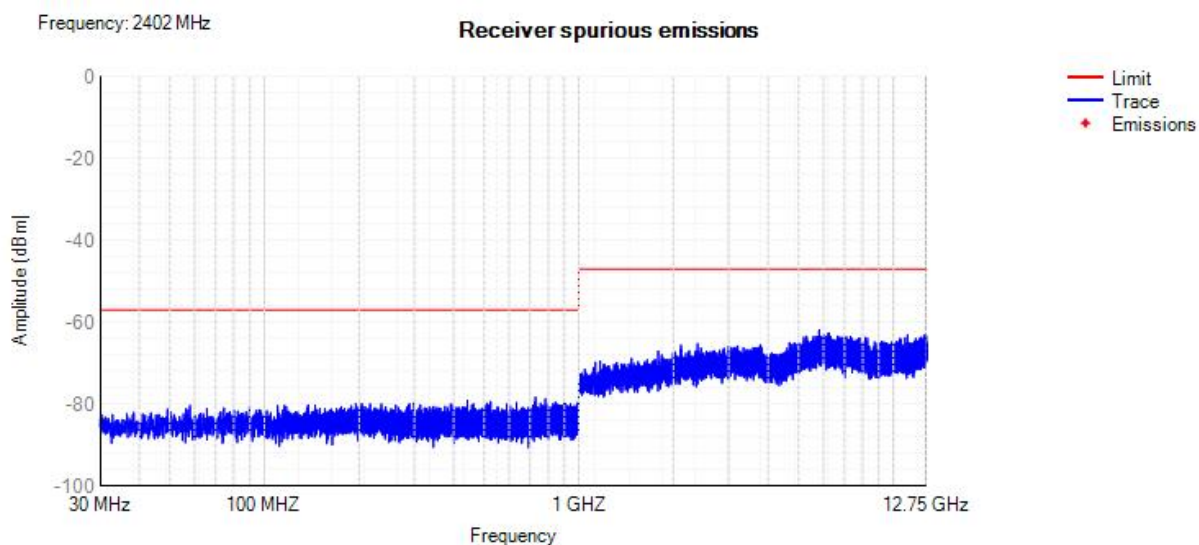


Rx. Spurious NVNT 2-DH5 2480MHz

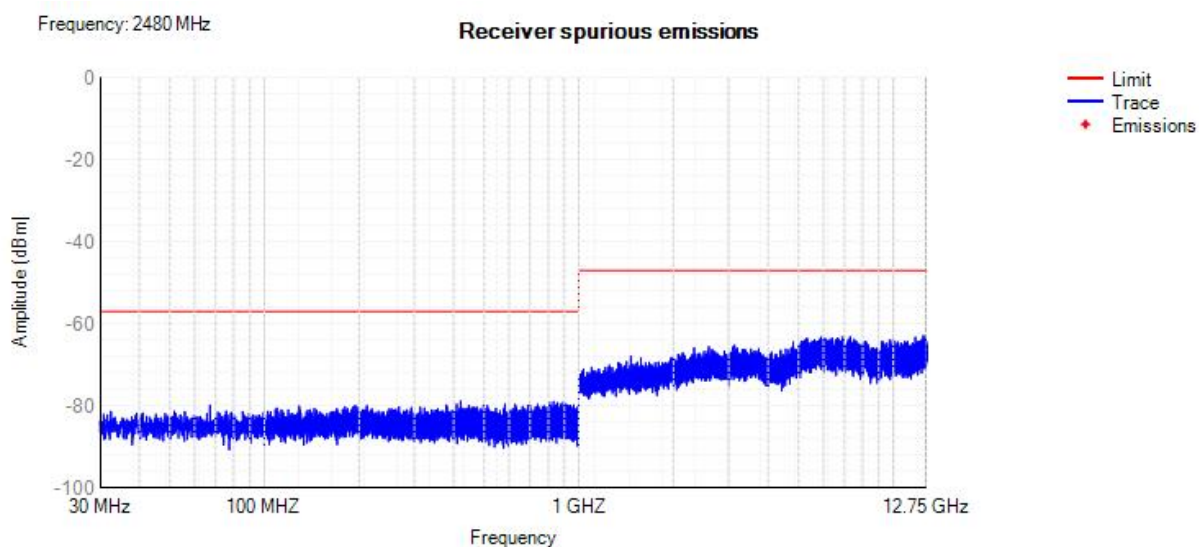




Rx. Spurious NVNT 3-DH5 2402MHz



Rx. Spurious NVNT 3-DH5 2480MHz





E.10 Receiver Blocking

Test Mode	Test Channel (MHz)	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
DH5	2402	-70	2380	-27	≥-34	CW	3.59	10	Pass
			2504	-23	≥-34	CW	3.04	10	Pass
			2300	-26	≥-34	CW	1.98	10	Pass
			2584	-25	≥-34	CW	3.04	10	Pass
	2480	-70	2380	-29	≥-34	CW	1.86	10	Pass
			2504	-24	≥-34	CW	2.42	10	Pass
			2300	-28	≥-34	CW	1.57	10	Pass
			2584	-21	≥-34	CW	2.78	10	Pass
2DH5	2402	-68	2380	-21	≥-34	CW	3.06	10	Pass
			2504	-21	≥-34	CW	4.86	10	Pass
			2300	-29	≥-34	CW	3.13	10	Pass
			2584	-26	≥-34	CW	4.92	10	Pass
	2480	-68	2380	-22	≥-34	CW	4.02	10	Pass
			2504	-29	≥-34	CW	2.34	10	Pass
			2300	-23	≥-34	CW	2.72	10	Pass
			2584	-20	≥-34	CW	0.95	10	Pass
3DH5	2402	-68	2380	-22	≥-34	CW	2.59	10	Pass
			2504	-24	≥-34	CW	2.80	10	Pass
			2300	-25	≥-34	CW	3.69	10	Pass
			2584	-26	≥-34	CW	4.30	10	Pass
	2480	-68	2380	-31	≥-34	CW	3.23	10	Pass
			2504	-24	≥-34	CW	4.97	10	Pass
			2300	-22	≥-34	CW	4.57	10	Pass
			2584	-24	≥-34	CW	4.34	10	Pass



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