



Appendix E for BT Test Data

Product Name: Smartphone

Test Model: KINGKONG ES PRO

Environmental Conditions

Temperature:	23.0° C
Relative Humidity:	53.0%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



E.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	3.13	20	Pass
NVNT	1-DH5	2480	3.21	20	Pass
NVNT	2-DH5	2402	1.22	20	Pass
NVNT	2-DH5	2480	1.76	20	Pass
NVNT	3-DH5	2402	2.78	20	Pass
NVNT	3-DH5	2480	2.56	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVLT	1-DH5	2402	3.09	20	Pass
NVLT	1-DH5	2480	3.08	20	Pass
NVLT	2-DH5	2402	1.17	20	Pass
NVLT	2-DH5	2480	1.69	20	Pass
NVLT	3-DH5	2402	2.73	20	Pass
NVLT	3-DH5	2480	2.48	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVHT	1-DH5	2402	2.92	20	Pass
NVHT	1-DH5	2480	3.00	20	Pass
NVHT	2-DH5	2402	1.00	20	Pass
NVHT	2-DH5	2480	1.57	20	Pass
NVHT	3-DH5	2402	2.59	20	Pass
NVHT	3-DH5	2480	2.38	20	Pass

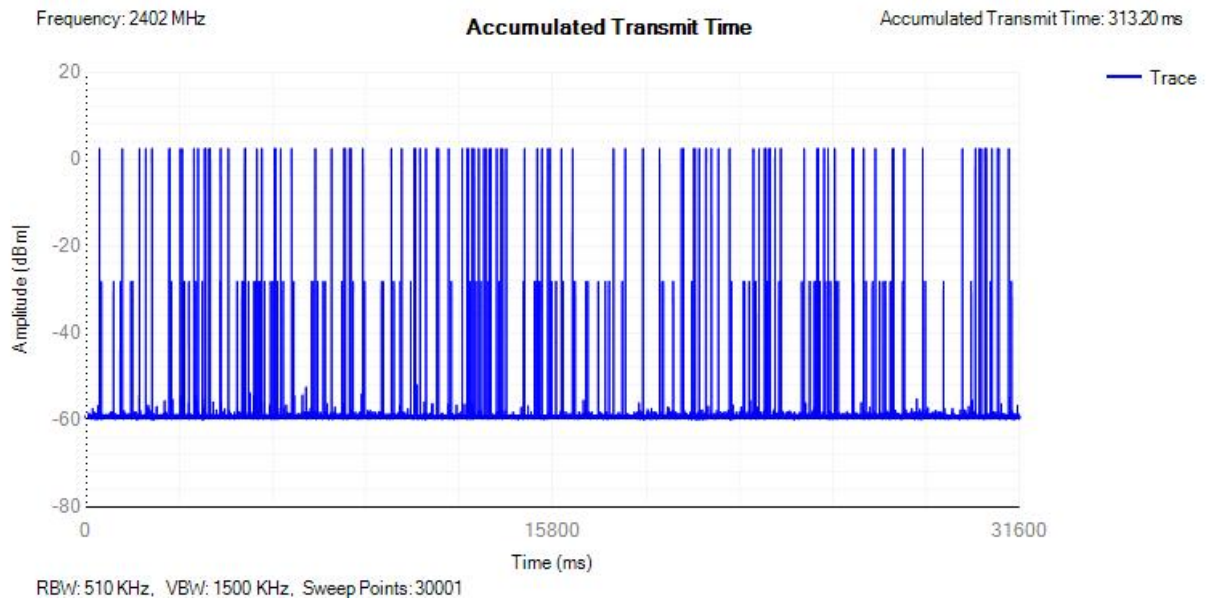
Note: 20 bursts had been captured for power measurement.



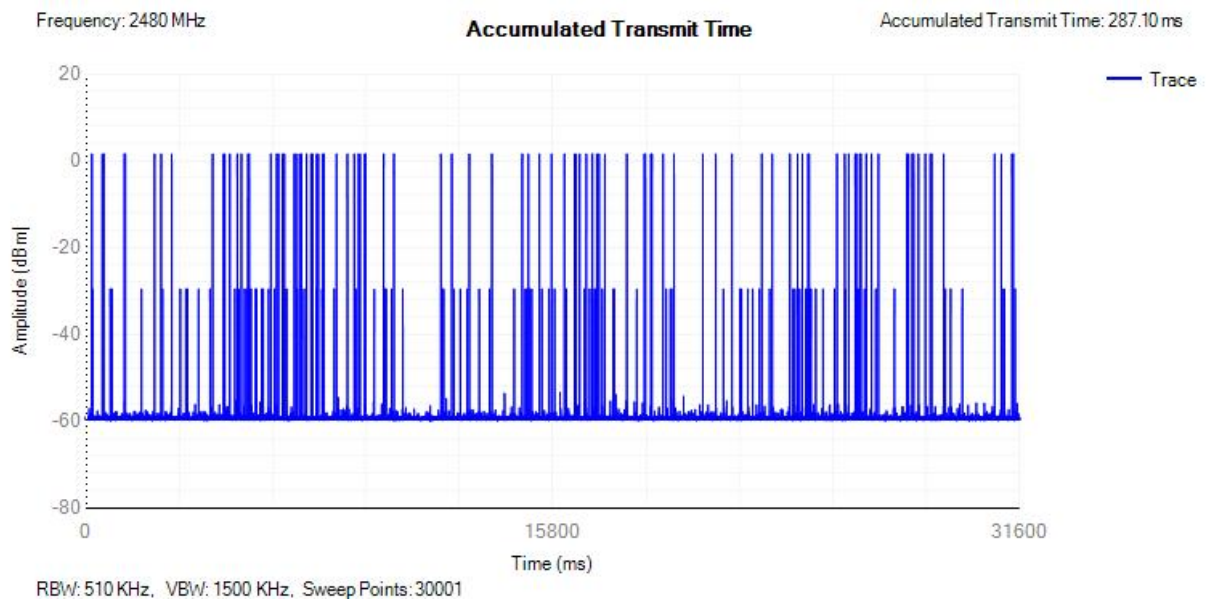
E.2 Accumulated Transmit Time

Condition	Mode	Frequency (MHz)	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	313.2	400	31600	108	Pass
NVNT	1-DH5	2480	287.1	400	31600	99	Pass
NVNT	2-DH5	2402	299.75	400	31600	109	Pass
NVNT	2-DH5	2480	286	400	31600	104	Pass
NVNT	3-DH5	2402	277.75	400	31600	101	Pass
NVNT	3-DH5	2480	299.75	400	31600	109	Pass

Dwell NVNT 1-DH5 2402MHz



Dwell NVNT 1-DH5 2480MHz



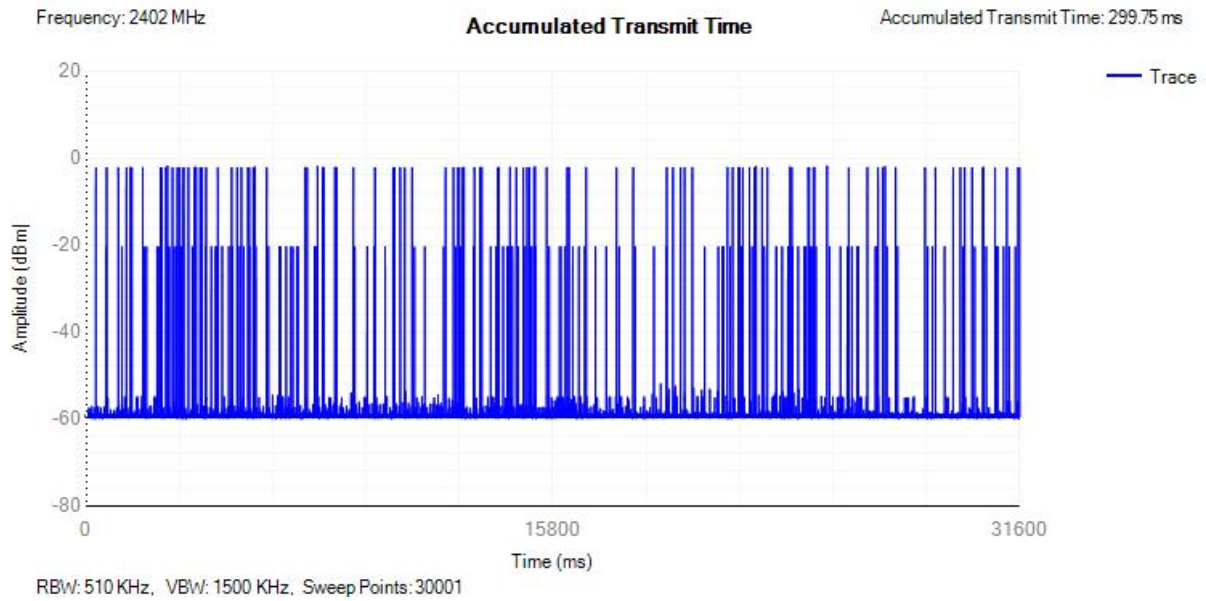
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

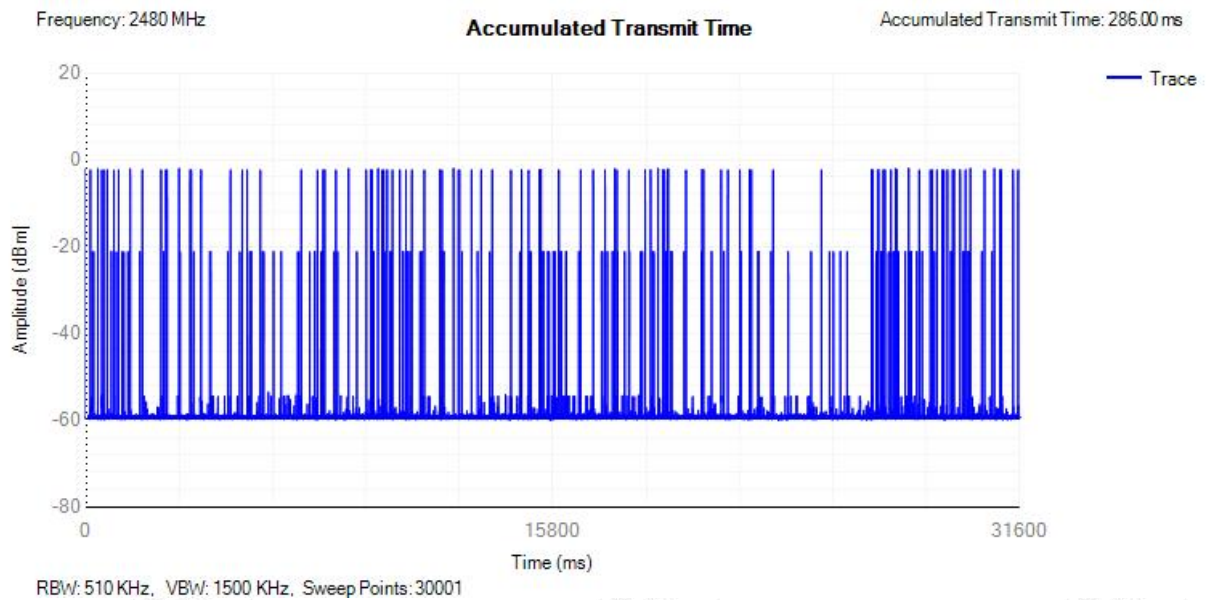
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



Dwell NVNT 2-DH5 2402MHz

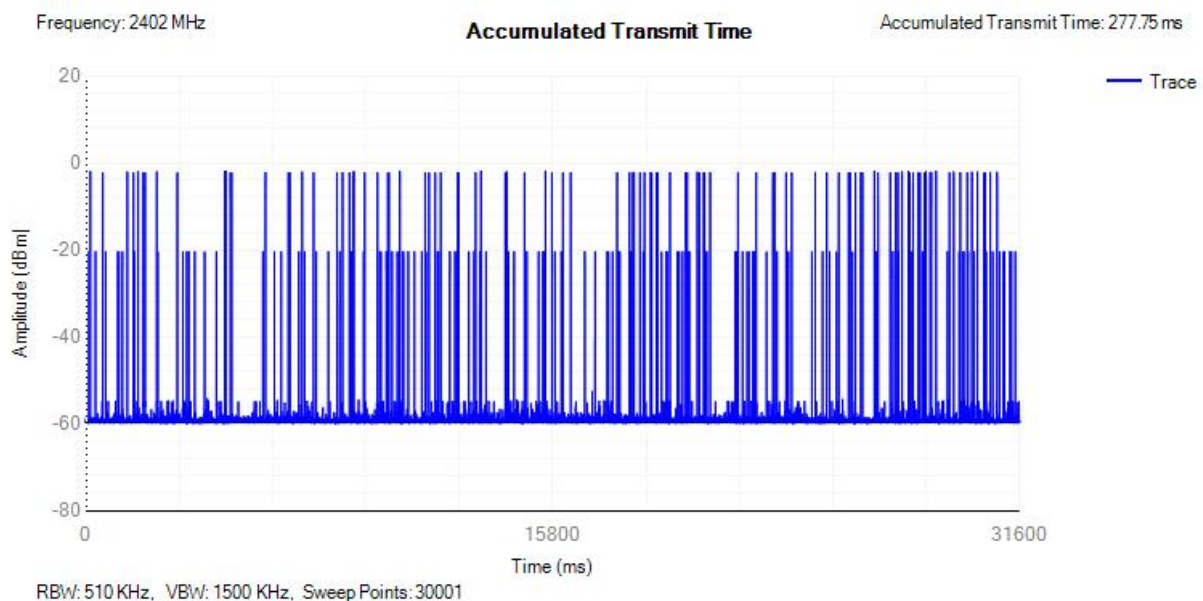


Dwell NVNT 2-DH5 2480MHz

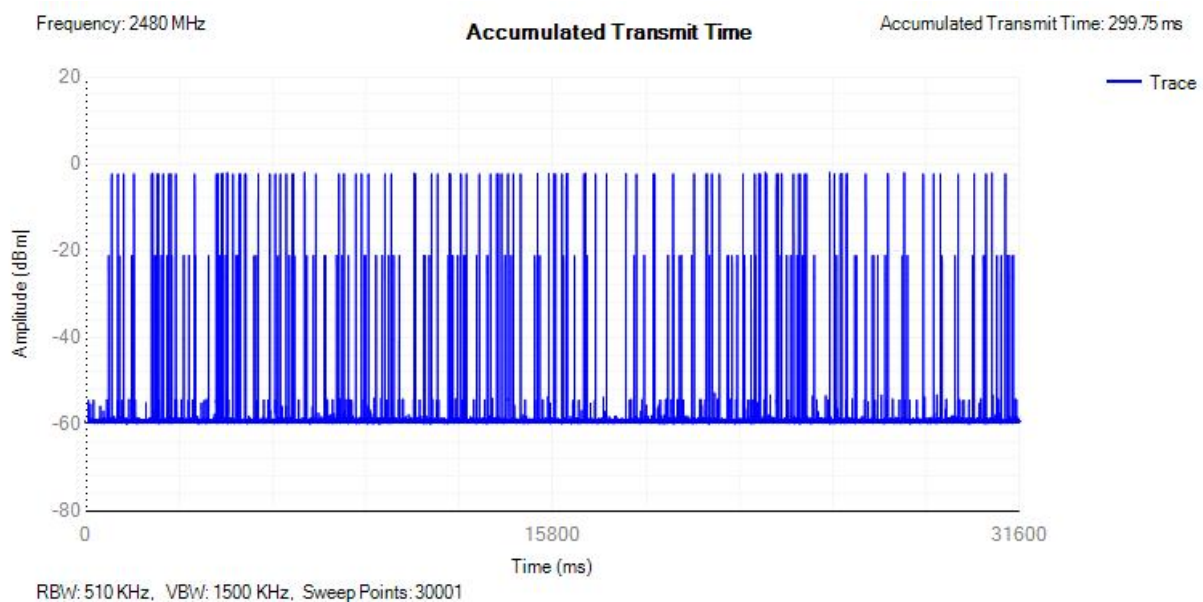




Dwell NVNT 3-DH5 2402MHz



Dwell NVNT 3-DH5 2480MHz

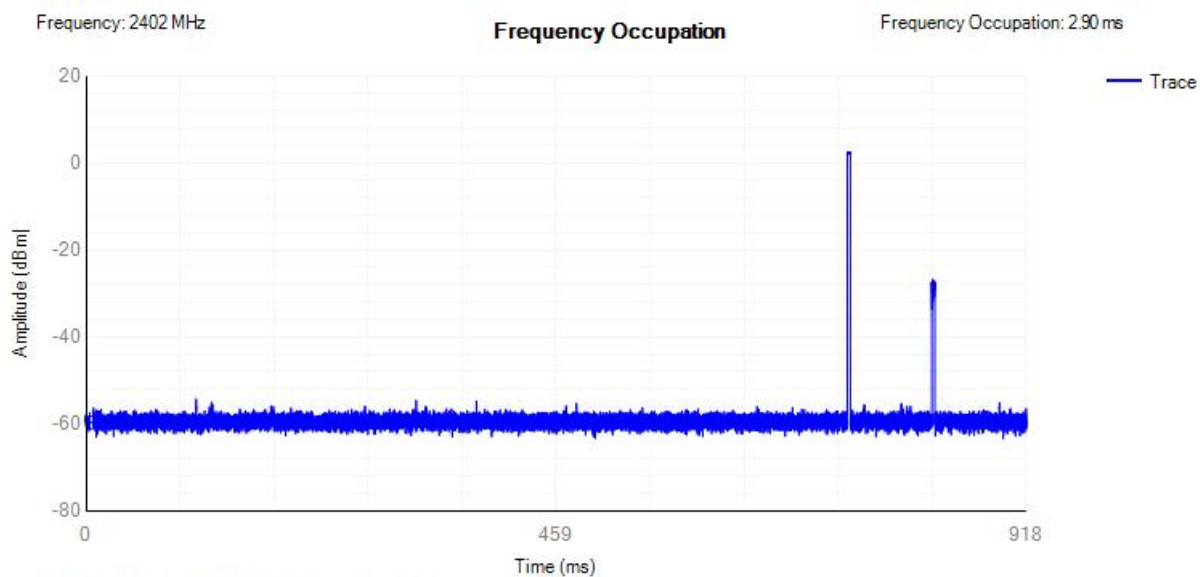




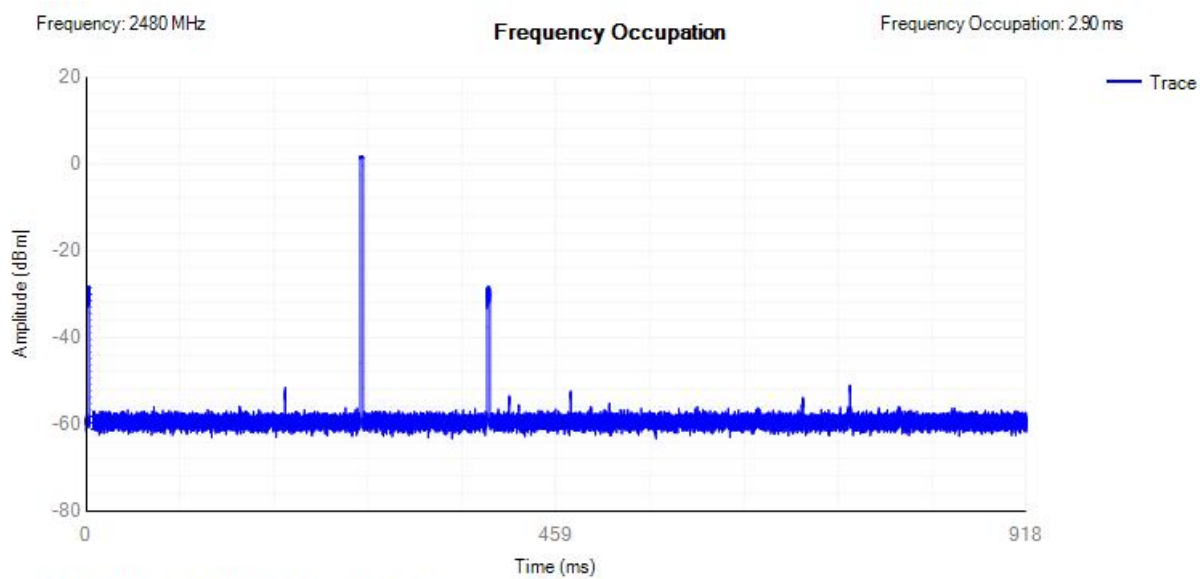
E.3 Frequency Occupation

Condition	Mode	Frequency (MHz)	Frequency Occupation (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	2.9	0	916.4	1	Pass
NVNT	1-DH5	2480	2.9	0	916.4	1	Pass
NVNT	2-DH5	2402	13.75	0	869	5	Pass
NVNT	2-DH5	2480	24.75	0	869	9	Pass
NVNT	3-DH5	2402	8.25	0	869	3	Pass
NVNT	3-DH5	2480	5.5	0	869	2	Pass

Freq. Occup. NVNT 1-DH5 2402MHz

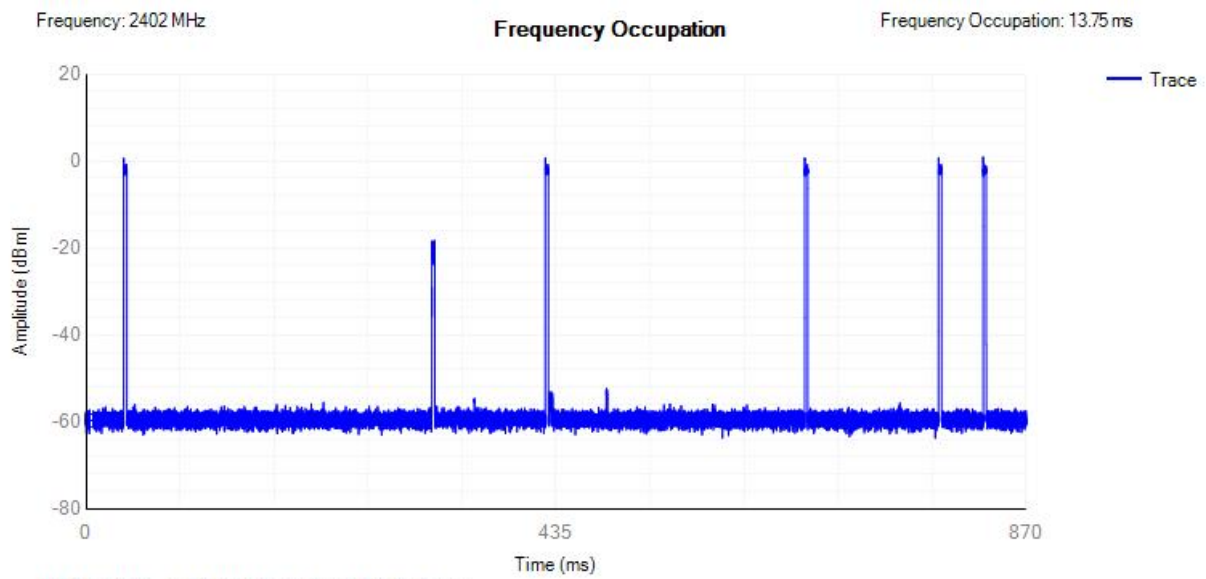


Freq. Occup. NVNT 1-DH5 2480MHz

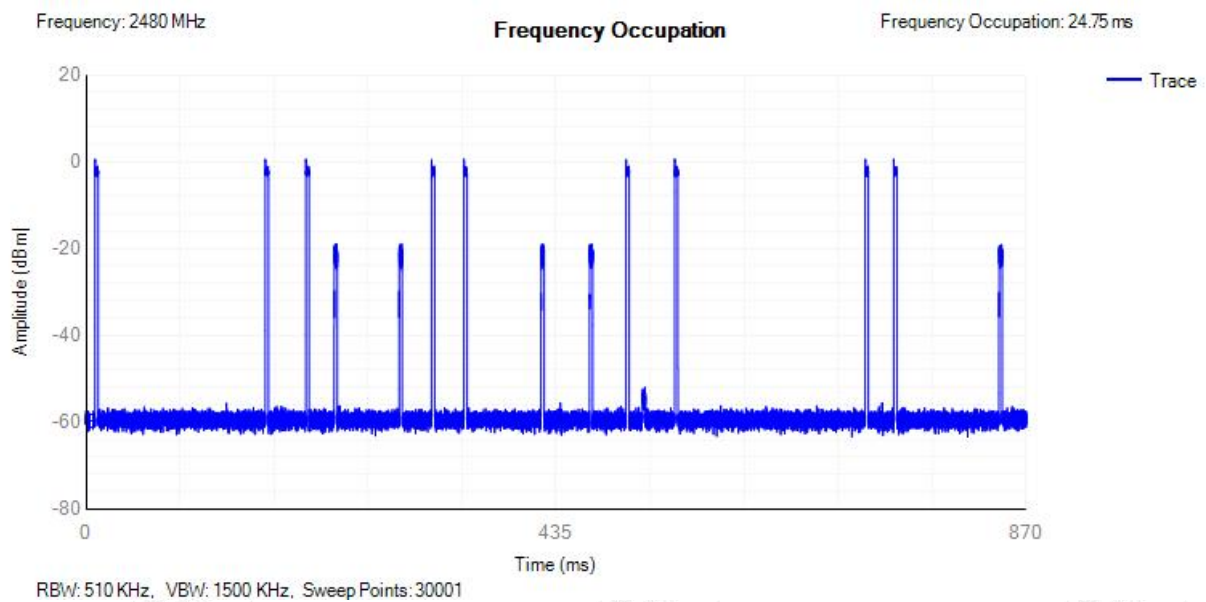




Freq. Occup. NVNT 2-DH5 2402MHz

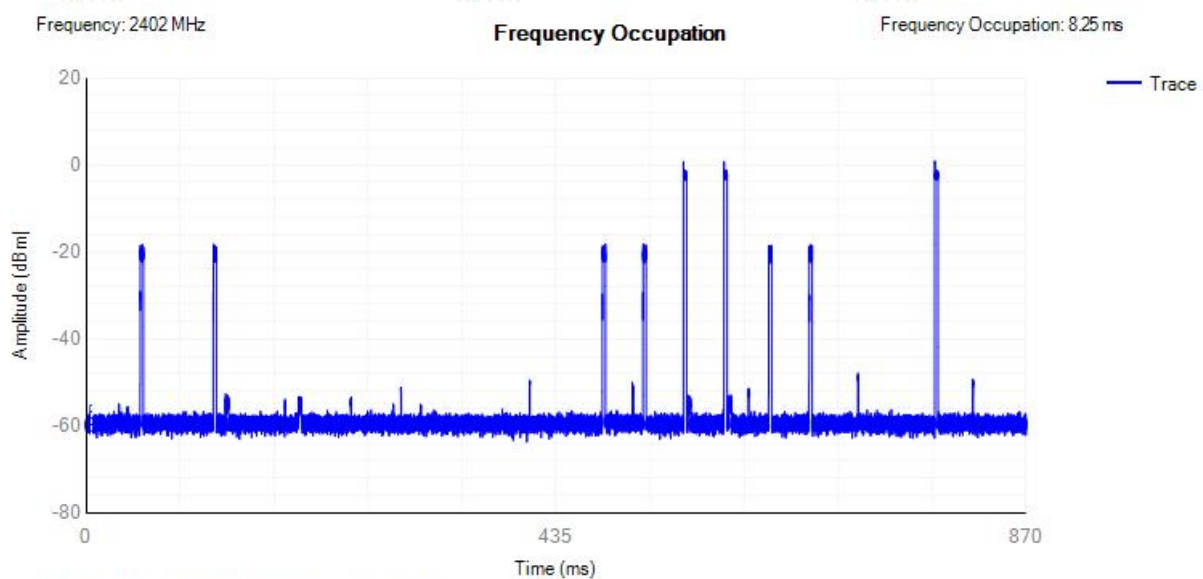


Freq. Occup. NVNT 2-DH5 2480MHz

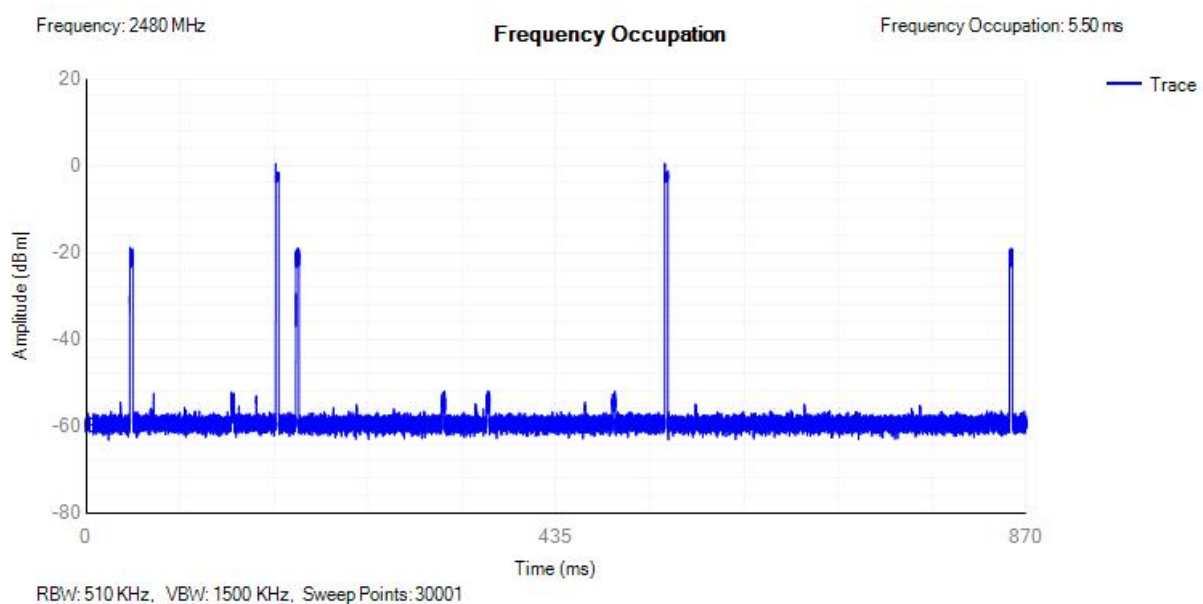




Freq. Occup. NVNT 3-DH5 2402MHz



Freq. Occup. NVNT 3-DH5 2480MHz

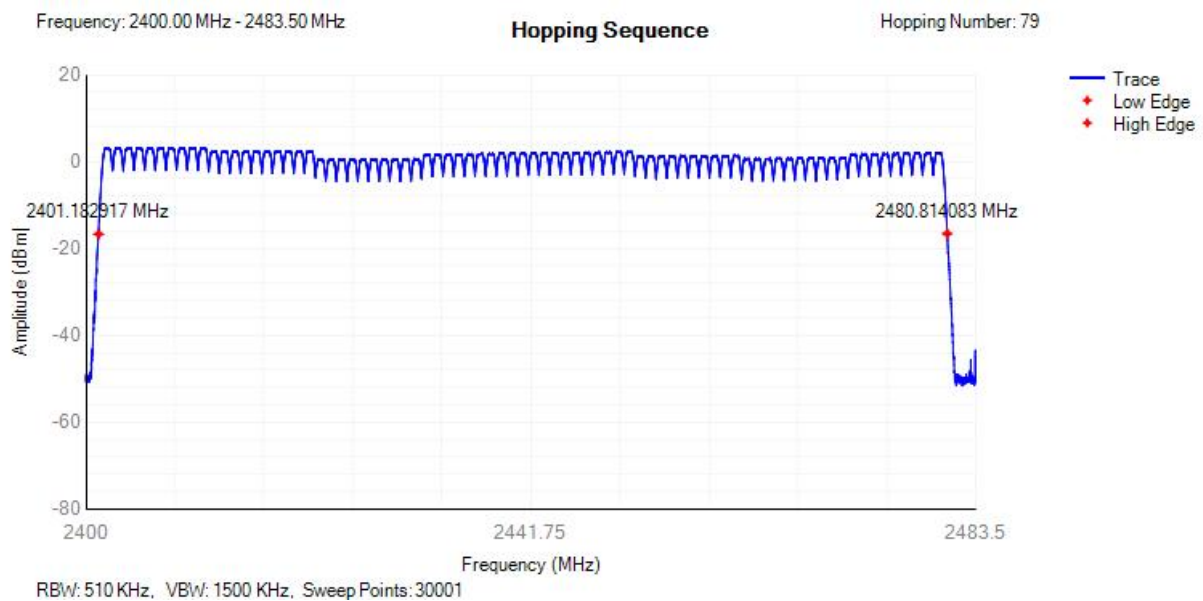




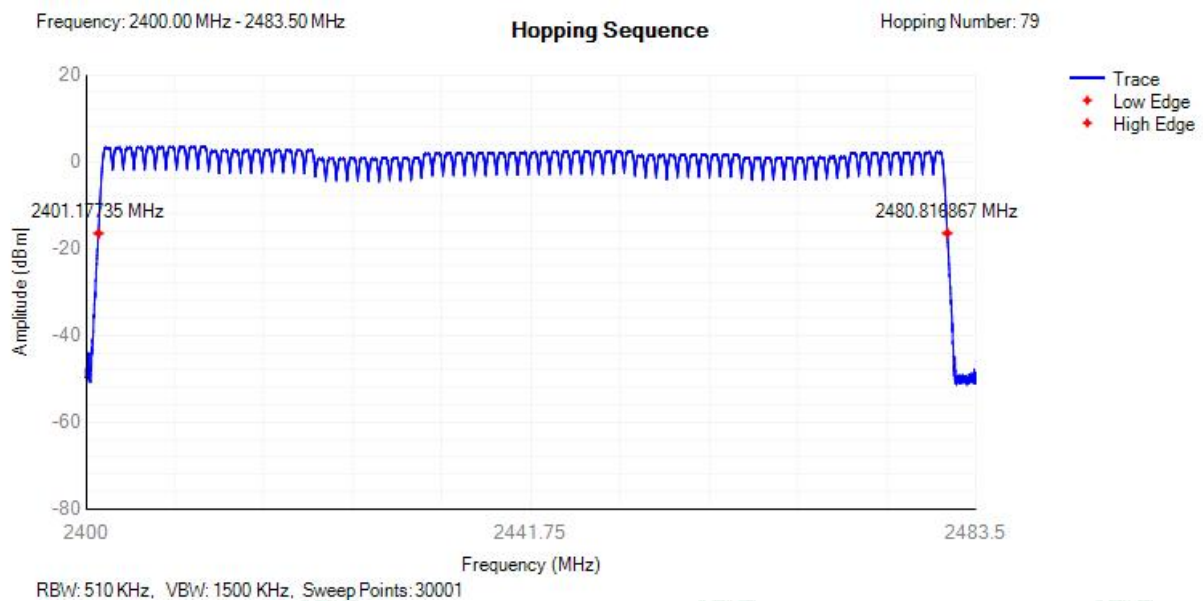
E.4 Hopping Sequence

Condition	Mode	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	79	15	95.36	70	Pass
NVNT	1-DH5	79	15	95.37	70	Pass
NVNT	2-DH5	79	15	95.91	70	Pass
NVNT	2-DH5	79	15	95.96	70	Pass
NVNT	3-DH5	79	15	95.94	70	Pass
NVNT	3-DH5	79	15	95.92	70	Pass

Hopping Seq. NVNT 1-DH5 2402MHz

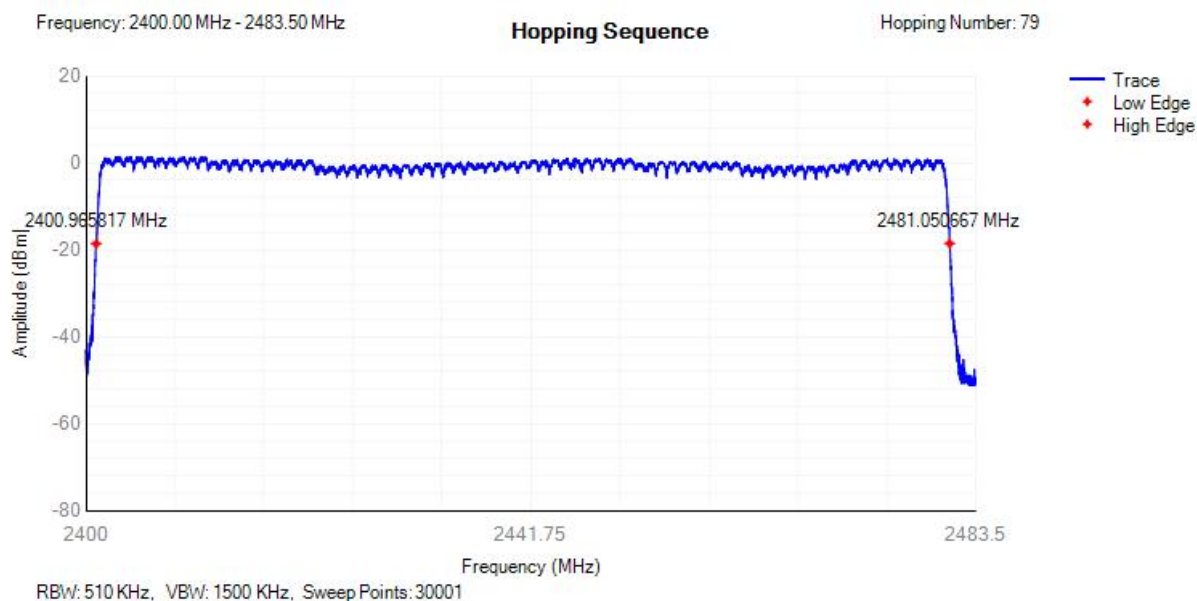


Hopping Seq. NVNT 1-DH5 2480MHz

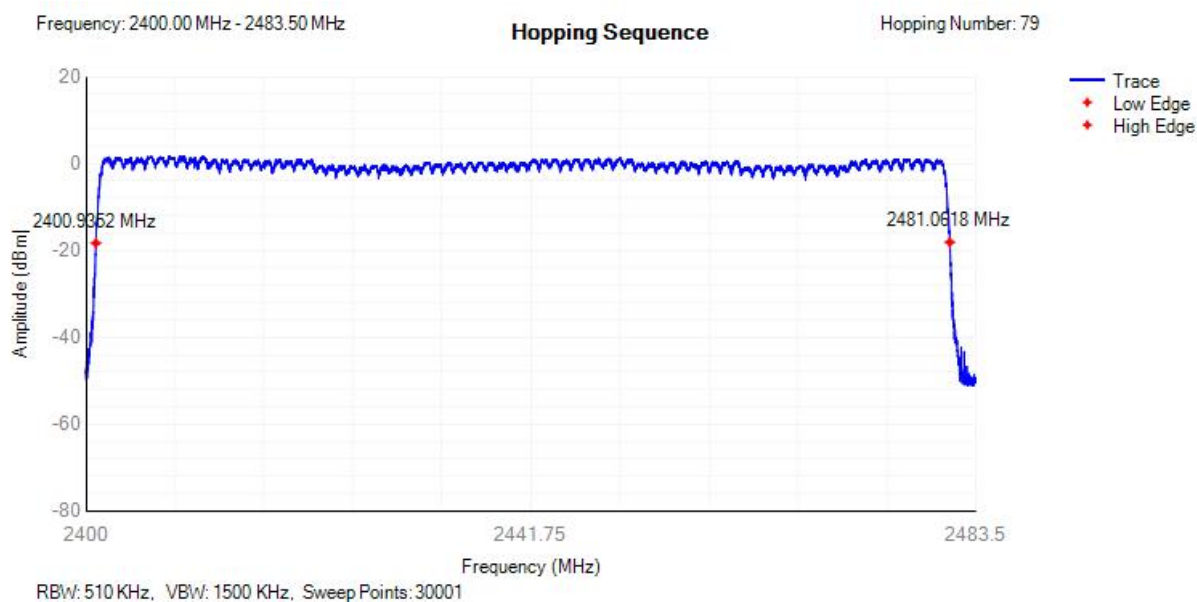




Hopping Seq. NVNT 2-DH5 2402MHz

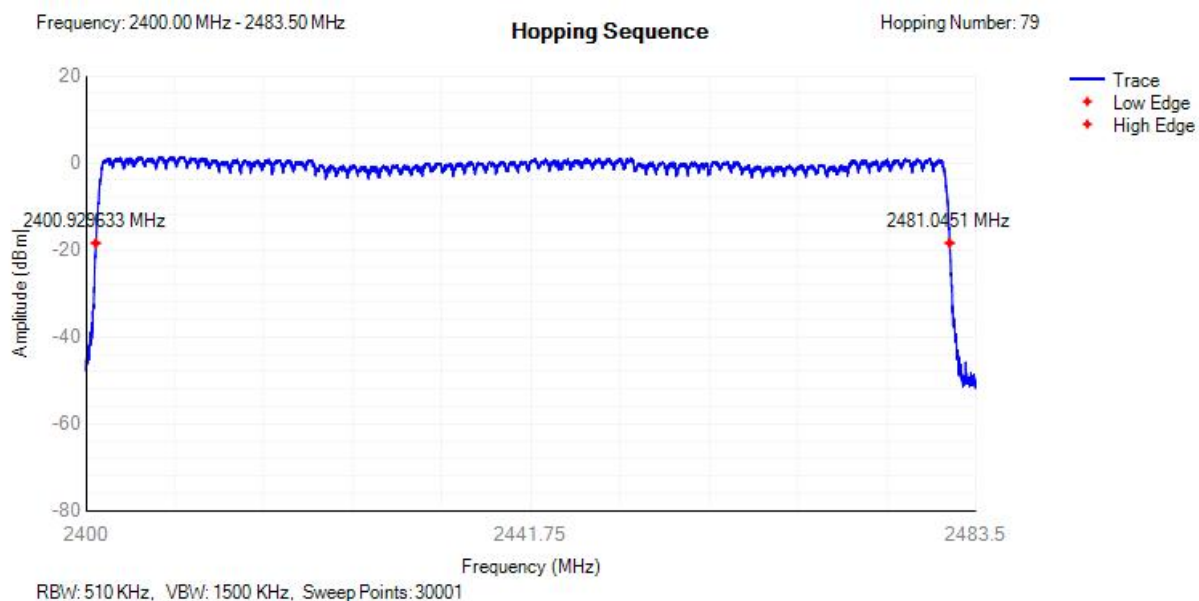


Hopping Seq. NVNT 2-DH5 2480MHz

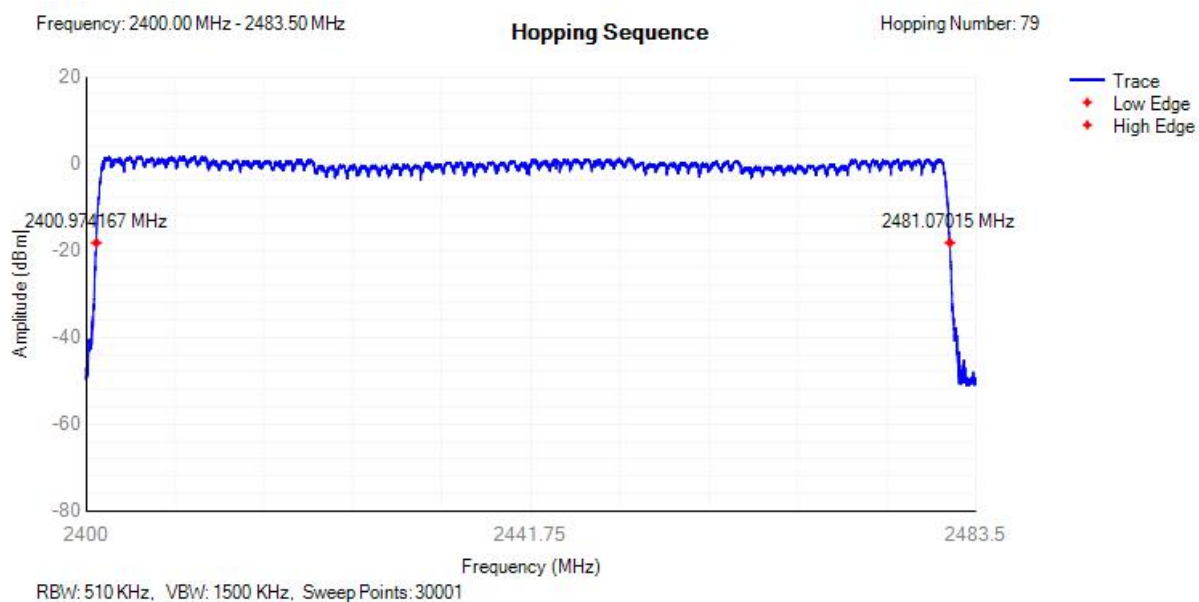




Hopping Seq. NVNT 3-DH5 2402MHz



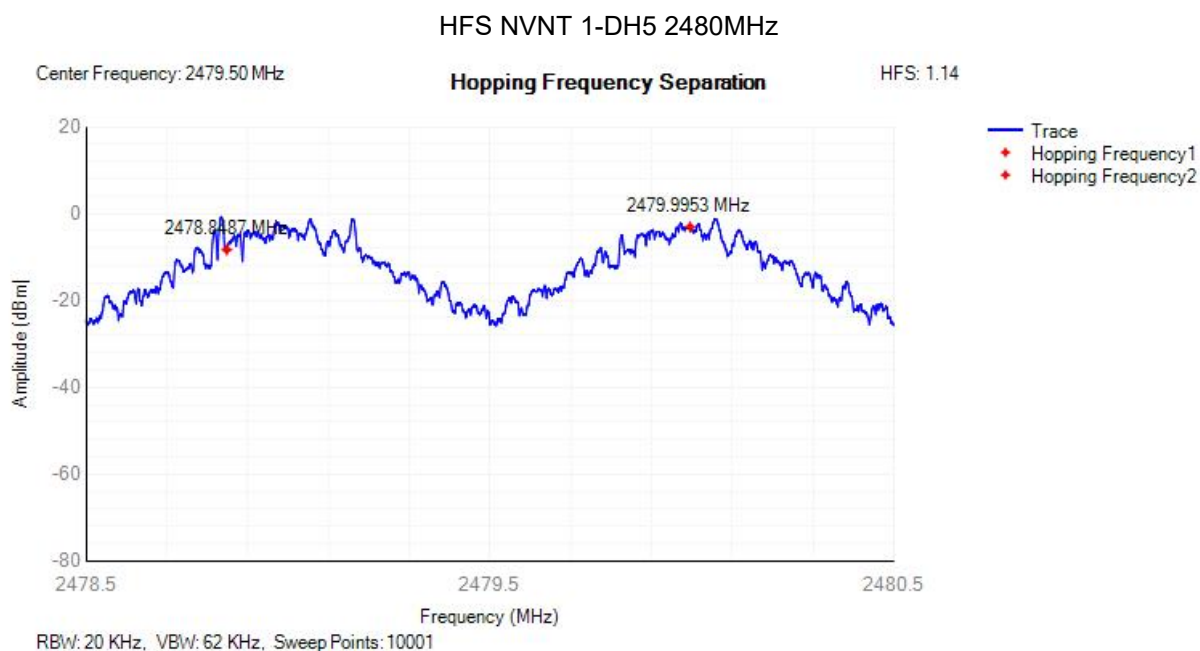
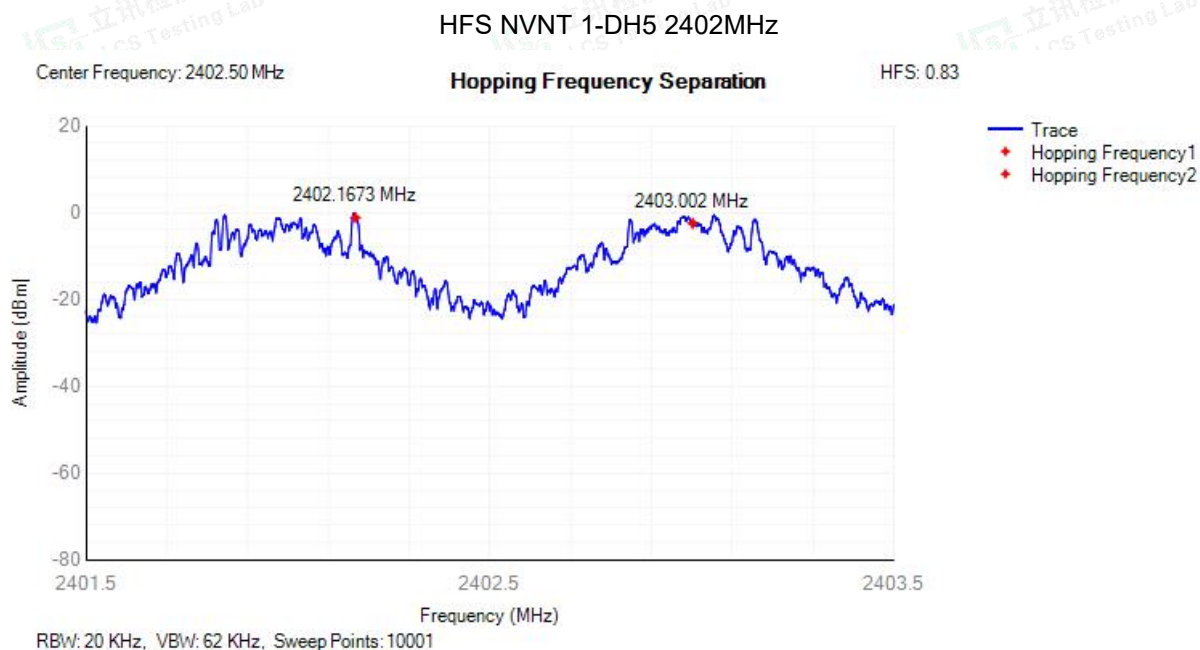
Hopping Seq. NVNT 3-DH5 2480MHz





E.5 Hopping Frequency Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.1673	2403.002	0.83	0.1	Pass
NVNT	1-DH5	2478.8487	2479.9953	1.14	0.1	Pass
NVNT	2-DH5	2402.0047	2403.0816	1.07	0.1	Pass
NVNT	2-DH5	2479.0014	2479.9327	0.93	0.1	Pass
NVNT	3-DH5	2402.0047	2402.9563	0.95	0.1	Pass
NVNT	3-DH5	2479.1686	2480.1629	0.99	0.1	Pass



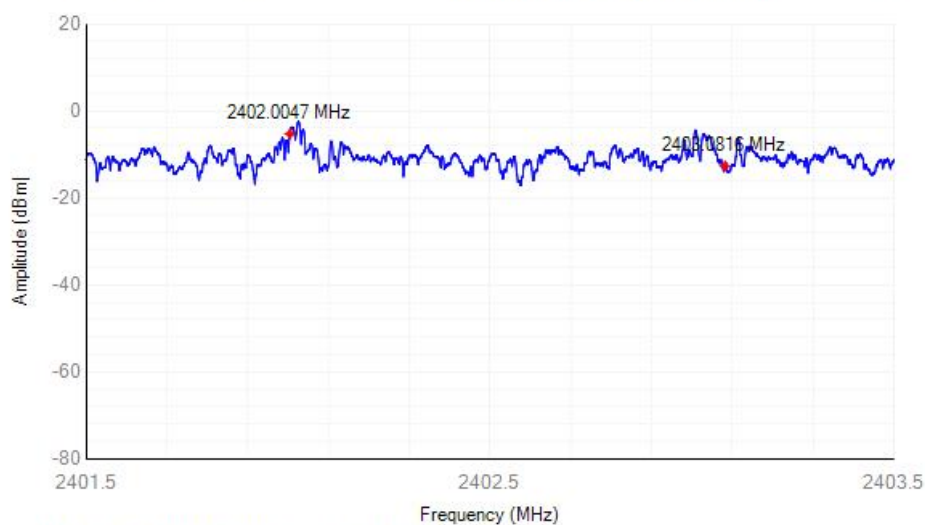


HFS NVNT 2-DH5 2402MHz

Center Frequency: 2402.50 MHz

Hopping Frequency Separation

HFS: 1.07

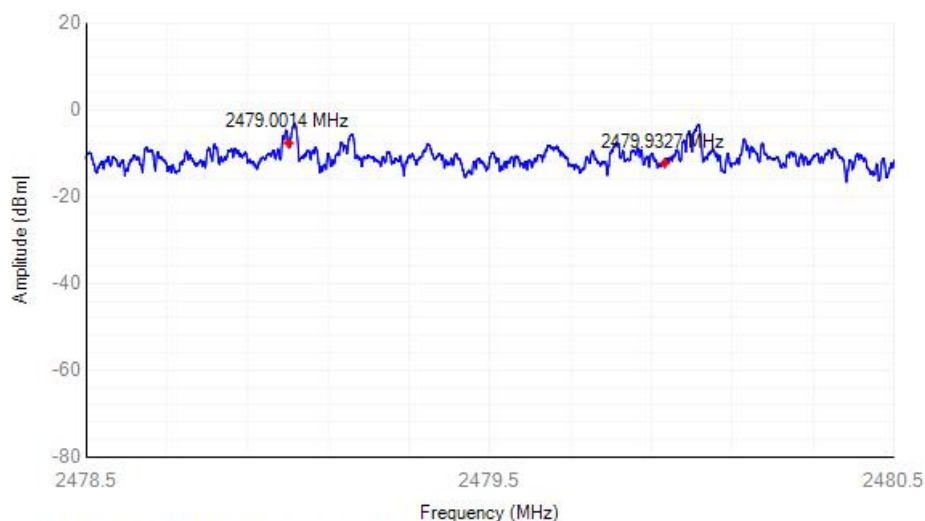


HFS NVNT 2-DH5 2480MHz

Center Frequency: 2479.50 MHz

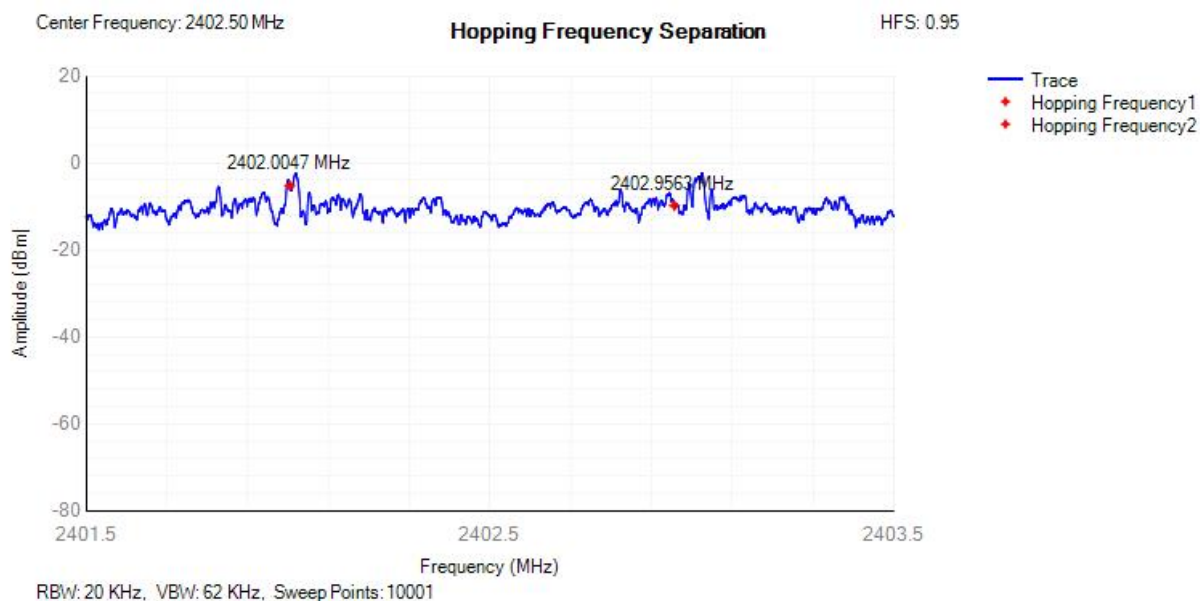
Hopping Frequency Separation

HFS: 0.93

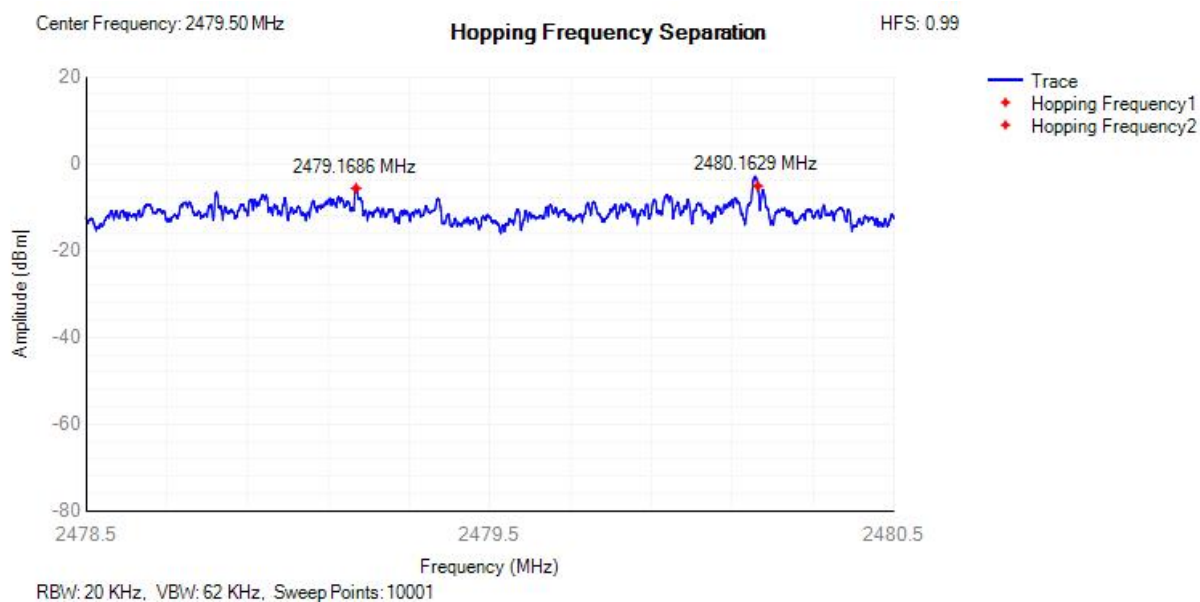




HFS NVNT 3-DH5 2402MHz



HFS NVNT 3-DH5 2480MHz

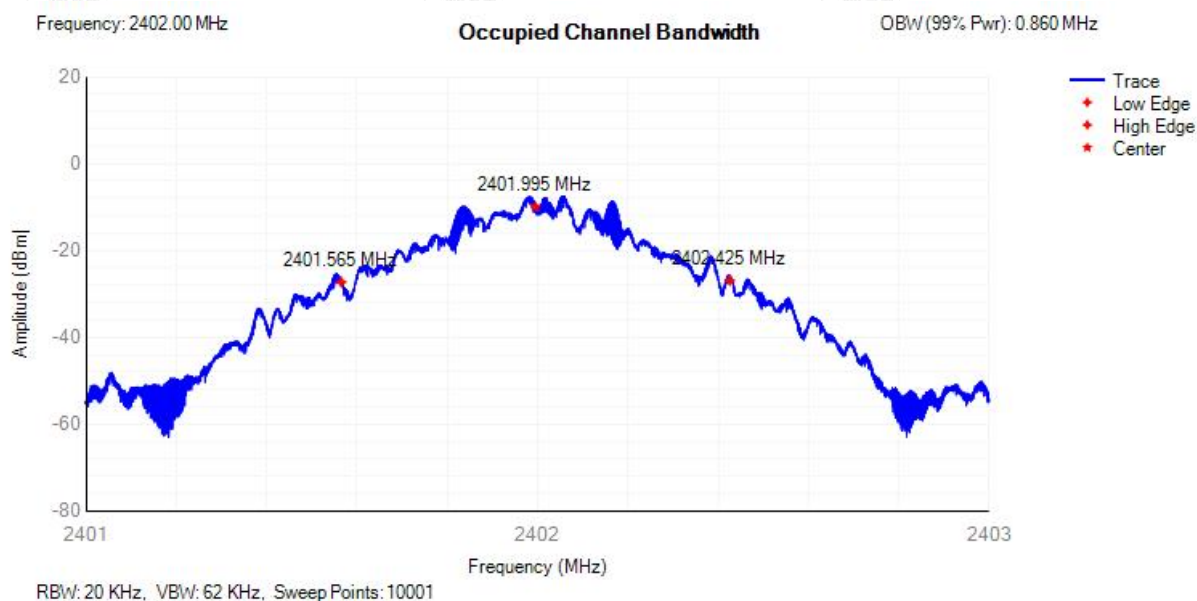




E.6 Occupied Channel Bandwidth

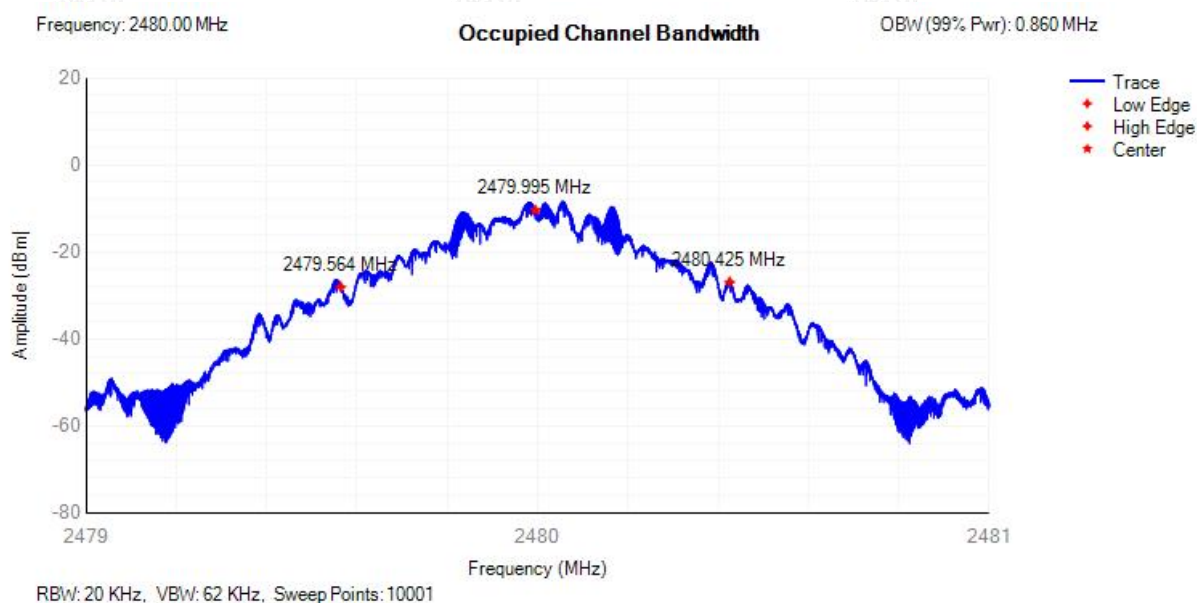
Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	1-DH5	2402	2401.995	0.86	2401.565	2402.425	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	2479.995	0.86	2479.564	2480.425	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	2401.995	1.177	2401.406	2402.584	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	2479.995	1.177	2479.406	2480.584	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	2401.992	1.192	2401.396	2402.589	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	2479.992	1.193	2479.395	2480.589	2400 - 2483.5MHz	Pass

OBW NVNT 1-DH5 2402MHz

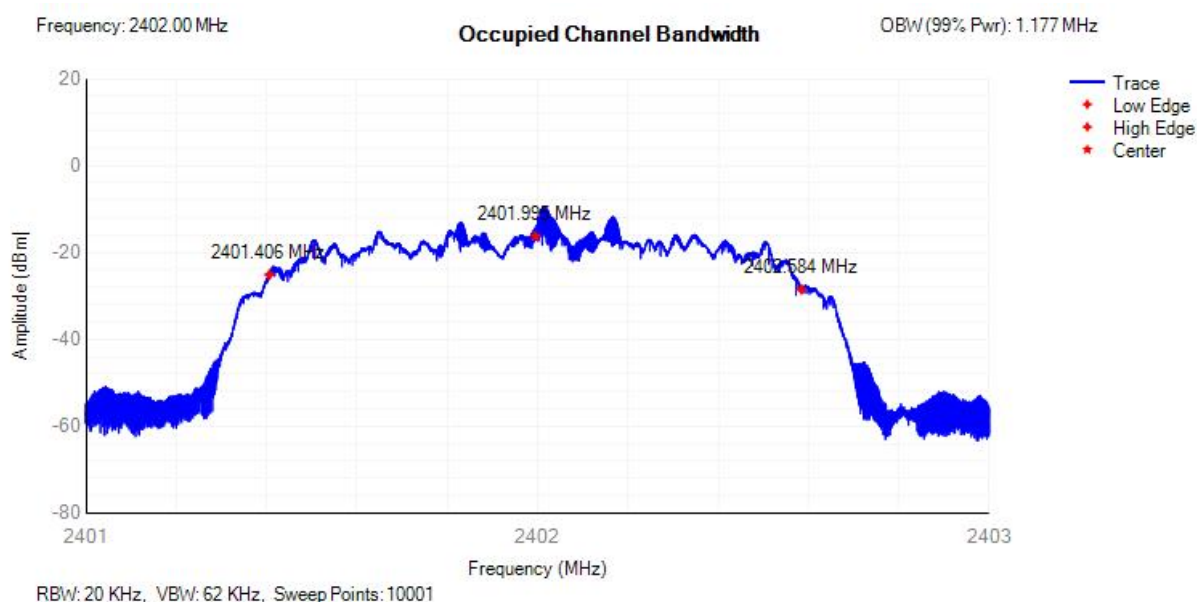




OBW NVNT 1-DH5 2480MHz

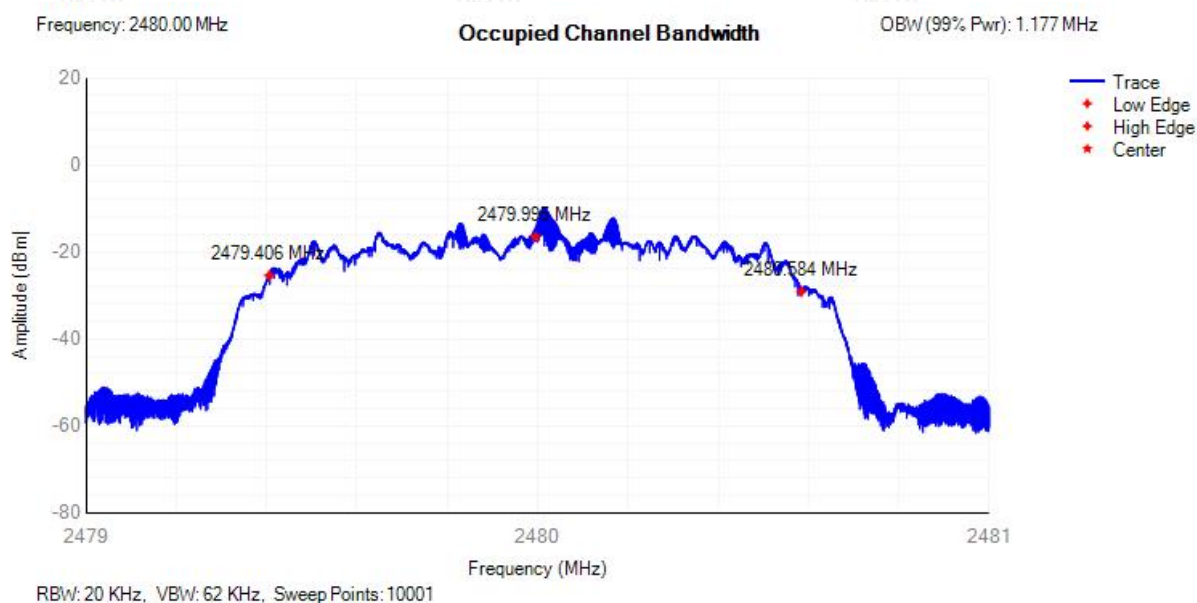


OBW NVNT 2-DH5 2402MHz

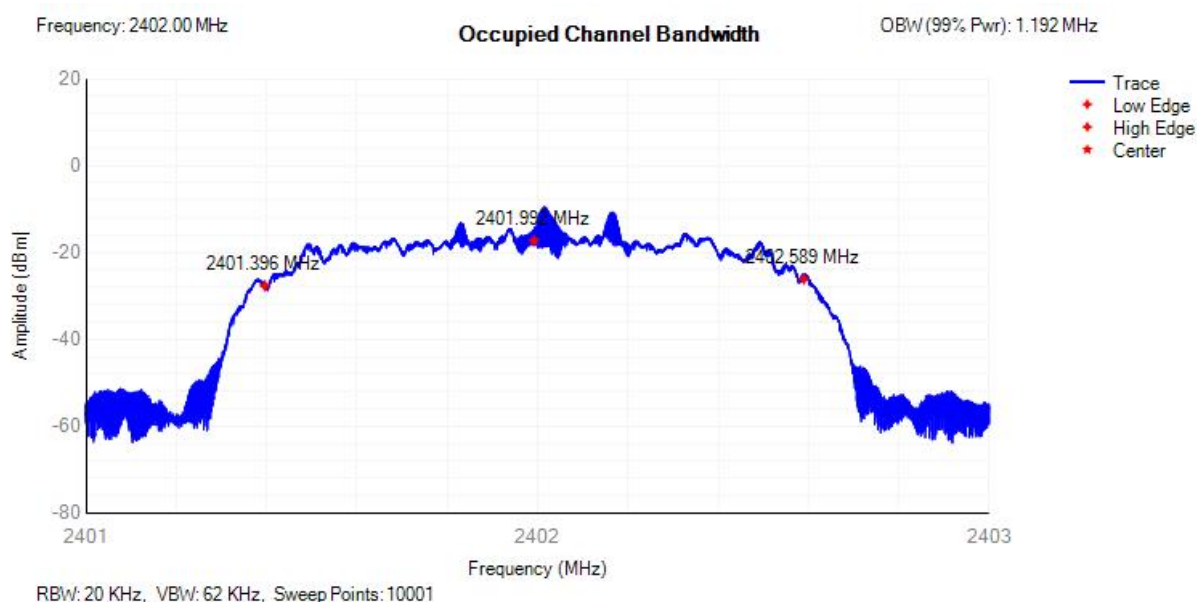




OBW NVNT 2-DH5 2480MHz

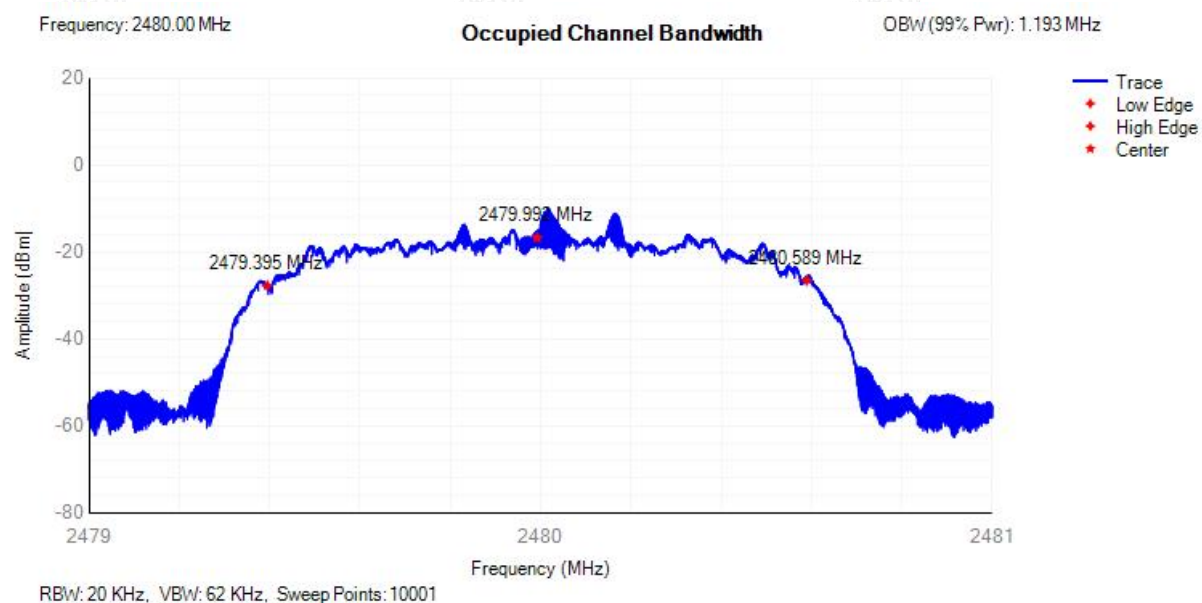


OBW NVNT 3-DH5 2402MHz





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	-76.09	-10	Pass
NVNT	1-DH5	2402	2398.5	-72.3	-20	Pass
NVNT	1-DH5	2402	2484	-73.61	-10	Pass
NVNT	1-DH5	2402	2485	-73.05	-20	Pass
NVNT	1-DH5	2480	2399.5	-70.97	-10	Pass
NVNT	1-DH5	2480	2398.5	-75.57	-20	Pass
NVNT	1-DH5	2480	2484	-70.39	-10	Pass
NVNT	1-DH5	2480	2485	-74.33	-20	Pass
NVNT	2-DH5	2402	2399.5	-56.49	-10	Pass
NVNT	2-DH5	2402	2399.323	-75.86	-10	Pass
NVNT	2-DH5	2402	2398.323	-73.49	-20	Pass
NVNT	2-DH5	2402	2398.146	-73.49	-20	Pass
NVNT	2-DH5	2402	2484	-75.34	-10	Pass
NVNT	2-DH5	2402	2484.177	-73.69	-10	Pass
NVNT	2-DH5	2402	2485.177	-73.03	-20	Pass
NVNT	2-DH5	2402	2485.354	-75.76	-20	Pass
NVNT	2-DH5	2480	2399.5	-75.54	-10	Pass
NVNT	2-DH5	2480	2399.323	-74.57	-10	Pass
NVNT	2-DH5	2480	2398.323	-75.86	-20	Pass
NVNT	2-DH5	2480	2398.146	-72.7	-20	Pass
NVNT	2-DH5	2480	2484	-75.61	-10	Pass
NVNT	2-DH5	2480	2484.177	-75	-10	Pass
NVNT	2-DH5	2480	2485.177	-74.54	-20	Pass
NVNT	2-DH5	2480	2485.354	-72.49	-20	Pass
NVNT	3-DH5	2402	2399.5	-56.26	-10	Pass
NVNT	3-DH5	2402	2399.308	-75.93	-10	Pass
NVNT	3-DH5	2402	2398.308	-72.5	-20	Pass
NVNT	3-DH5	2402	2398.116	-76.09	-20	Pass
NVNT	3-DH5	2402	2484	-75.92	-10	Pass
NVNT	3-DH5	2402	2484.193	-72.65	-10	Pass
NVNT	3-DH5	2402	2485.193	-71.31	-20	Pass
NVNT	3-DH5	2402	2485.386	-75.89	-20	Pass
NVNT	3-DH5	2480	2399.5	-73.7	-10	Pass
NVNT	3-DH5	2480	2399.308	-58.48	-10	Pass
NVNT	3-DH5	2480	2398.308	-75.45	-20	Pass
NVNT	3-DH5	2480	2398.116	-73.16	-20	Pass

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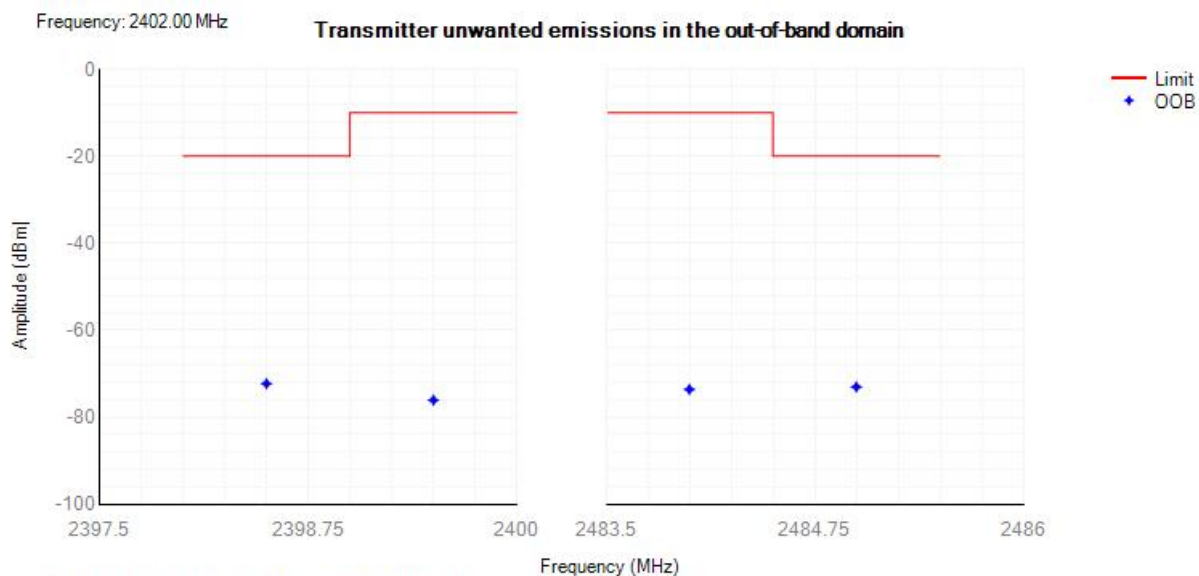
Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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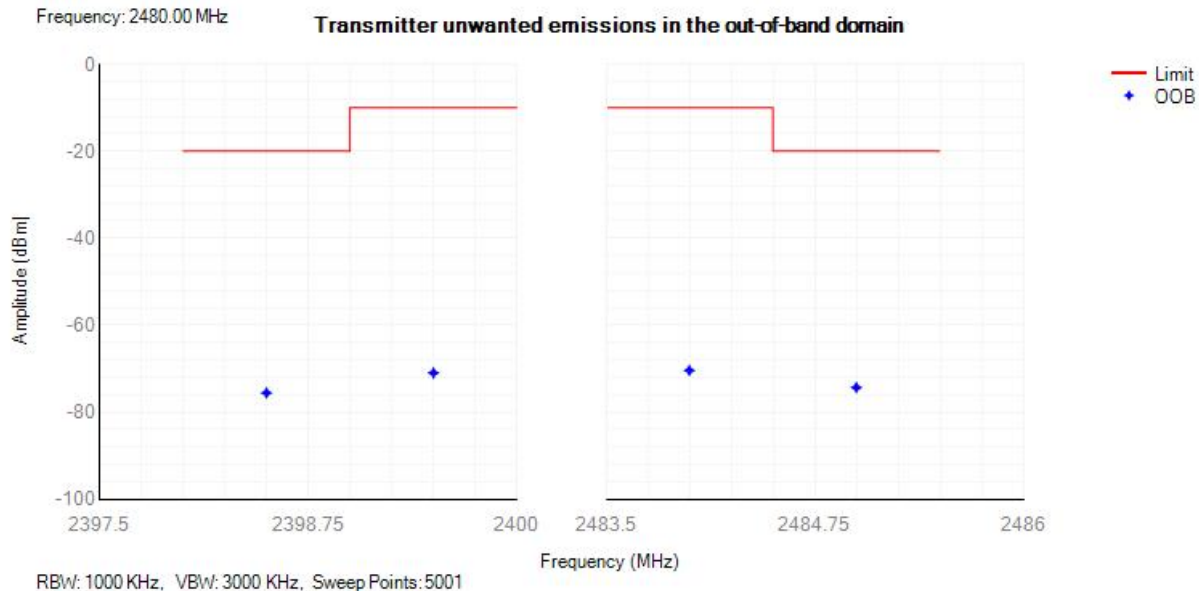


NVNT	3-DH5	2480	2484	-71.27	-10	Pass
NVNT	3-DH5	2480	2484.193	-75.47	-10	Pass
NVNT	3-DH5	2480	2485.193	-73.55	-20	Pass
NVNT	3-DH5	2480	2485.386	-73.61	-20	Pass

Tx. Emissions OOB NVNT 1-DH5 2402MHz

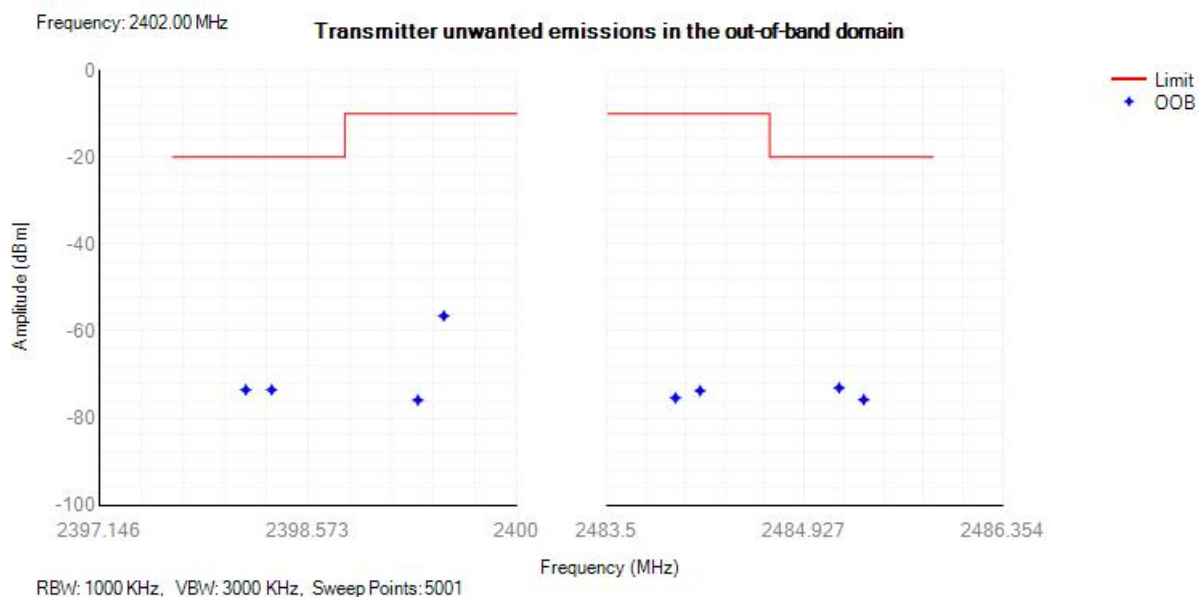


Tx. Emissions OOB NVNT 1-DH5 2480MHz

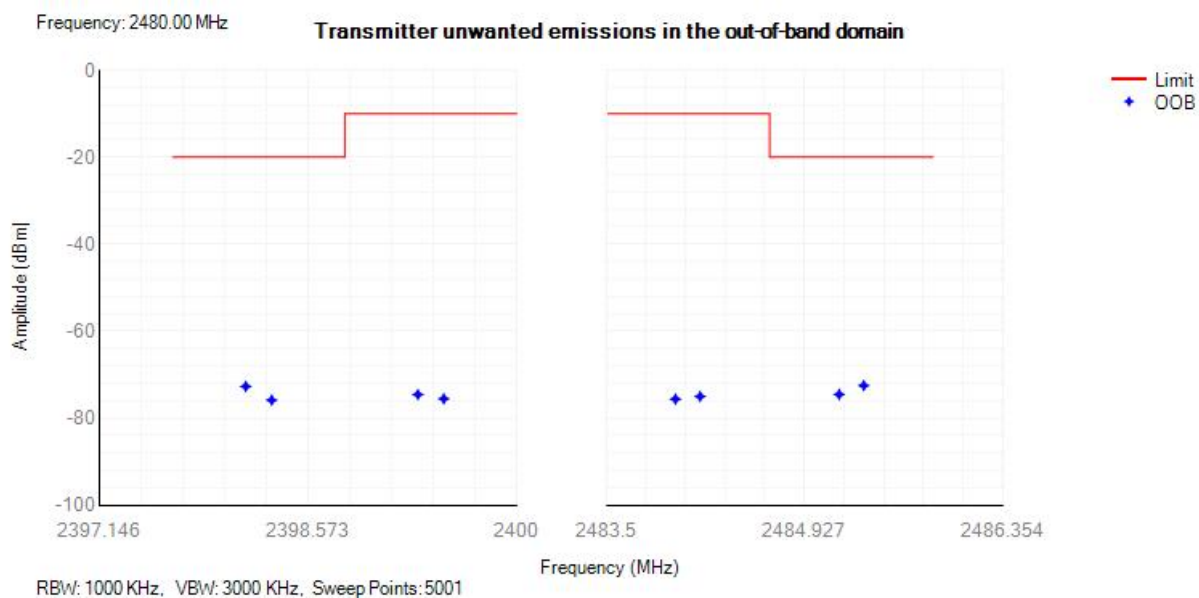




Tx. Emissions OOB NVNT 2-DH5 2402MHz

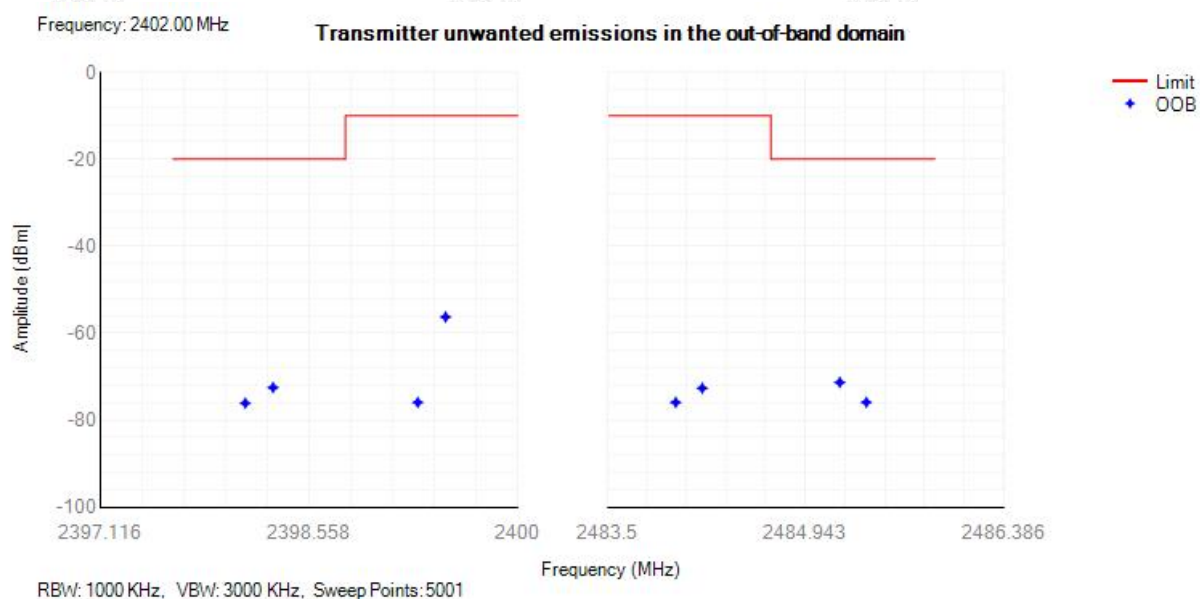


Tx. Emissions OOB NVNT 2-DH5 2480MHz

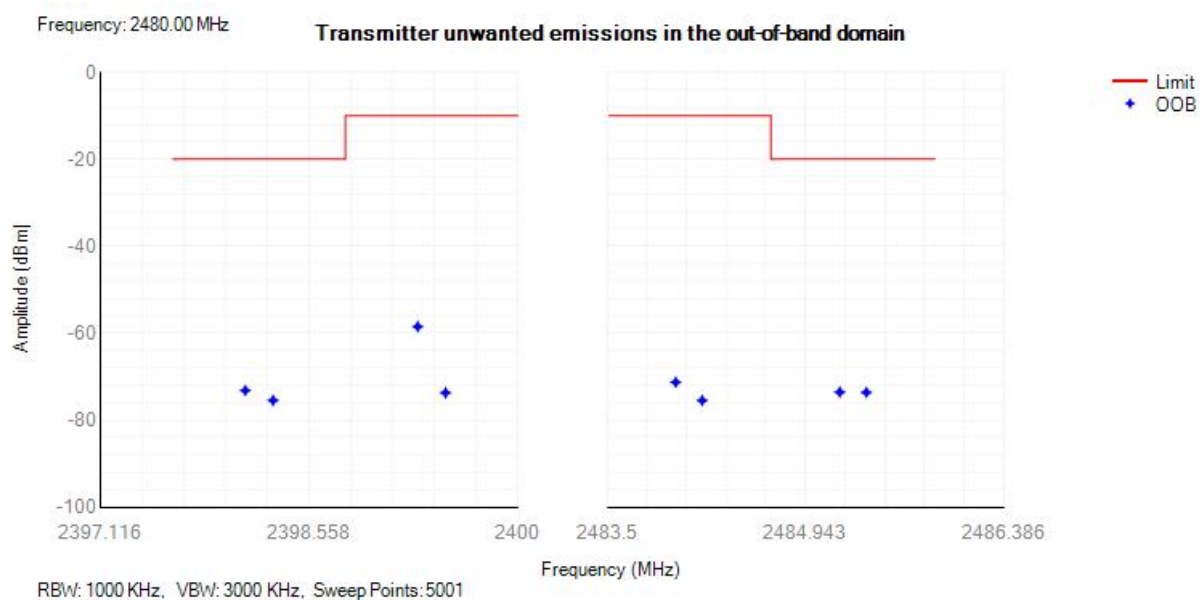




Tx. Emissions OOB NVNT 3-DH5 2402MHz



Tx. Emissions OOB NVNT 3-DH5 2480MHz

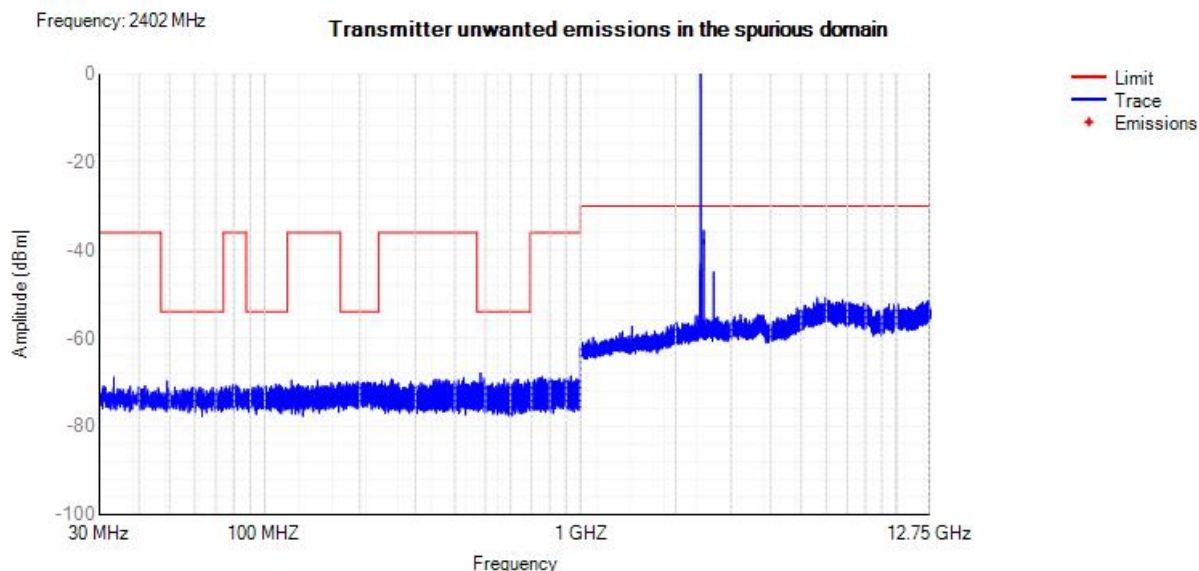




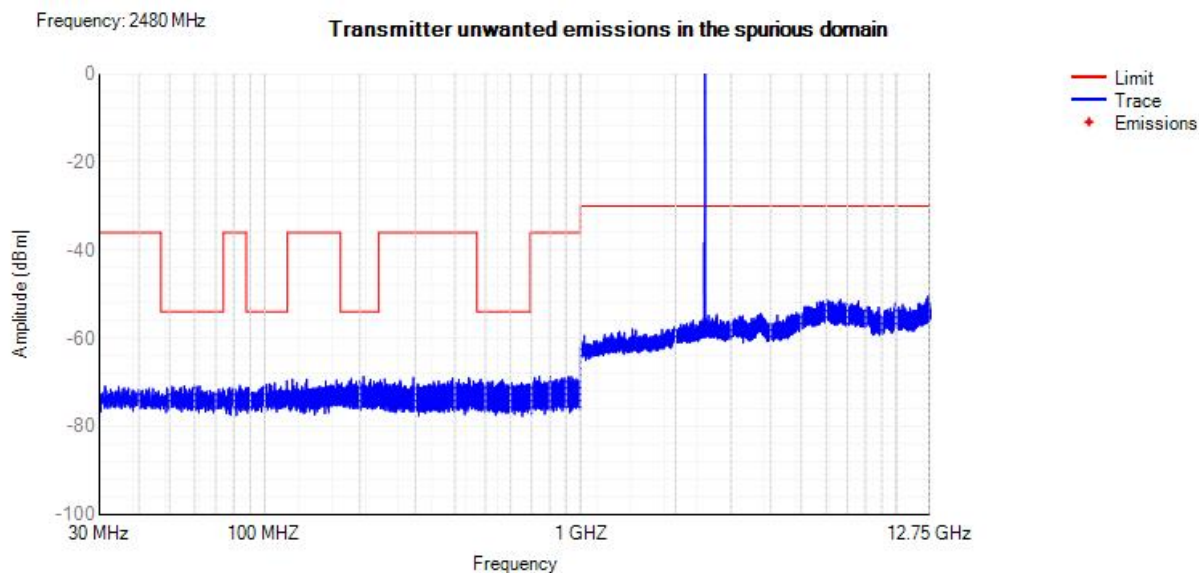
E.8 Transmitter unwanted emissions in the spurious domain

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

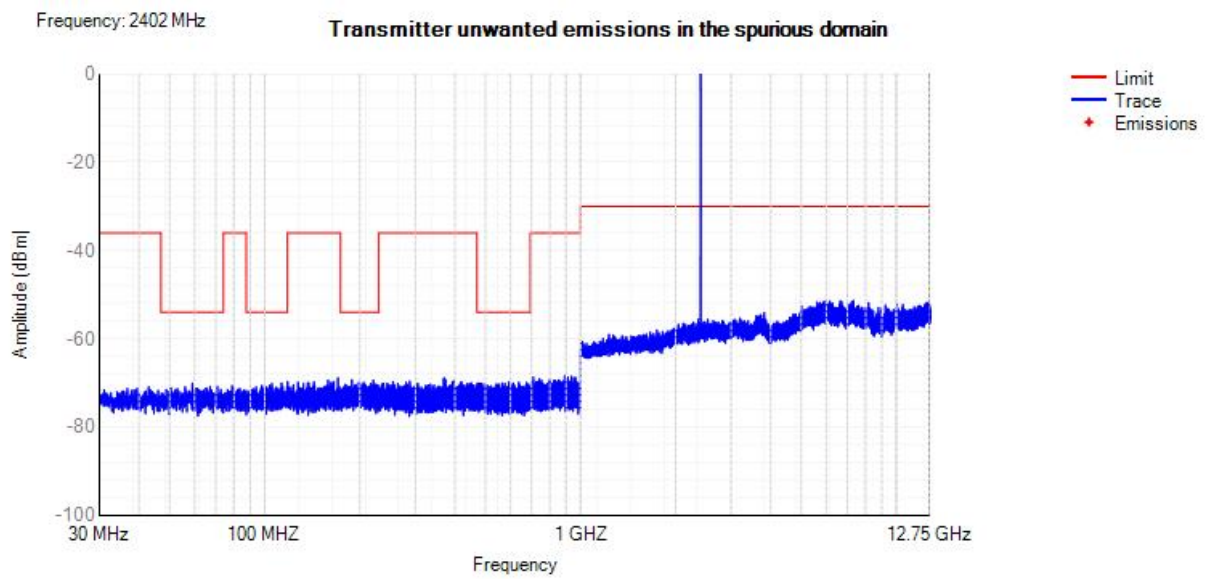


Tx. Spurious NVNT 1-DH5 2480MHz

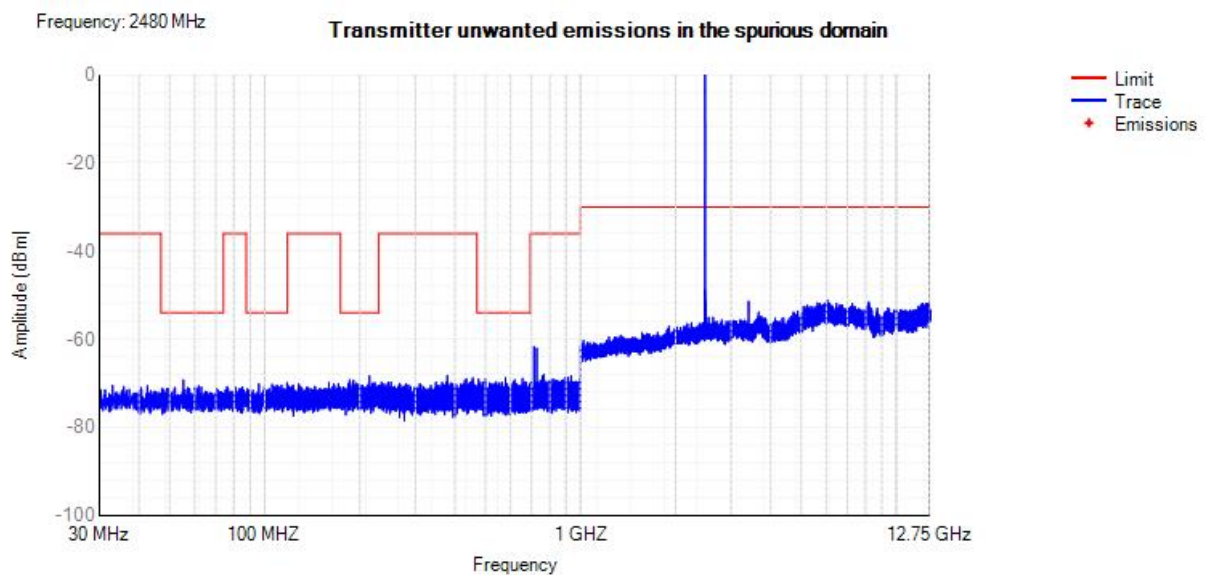




Tx. Spurious NVNT 2-DH5 2402MHz

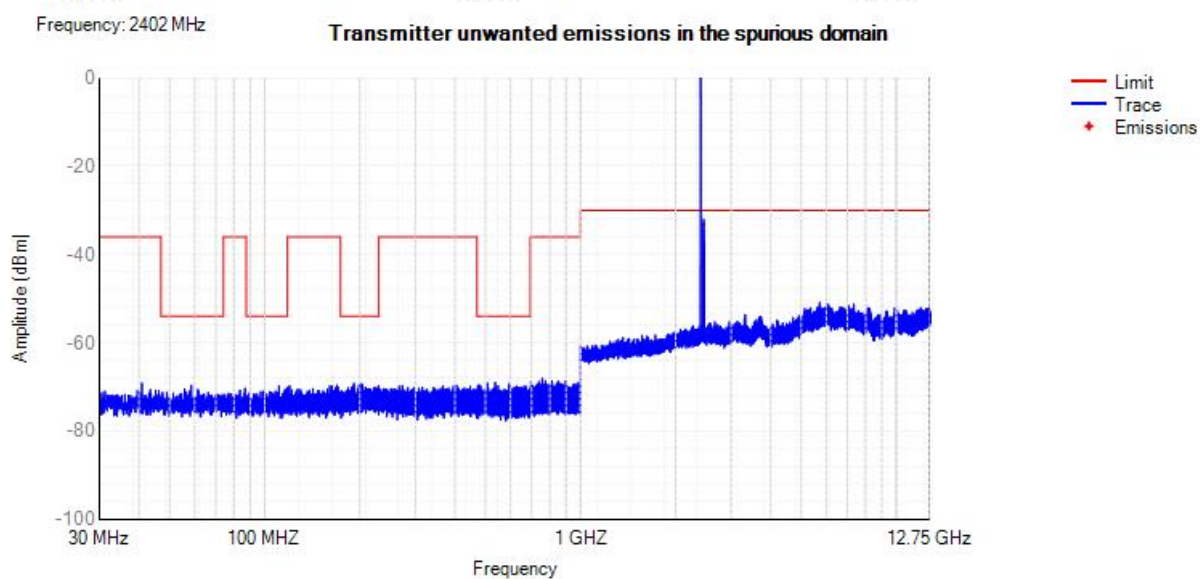


Tx. Spurious NVNT 2-DH5 2480MHz

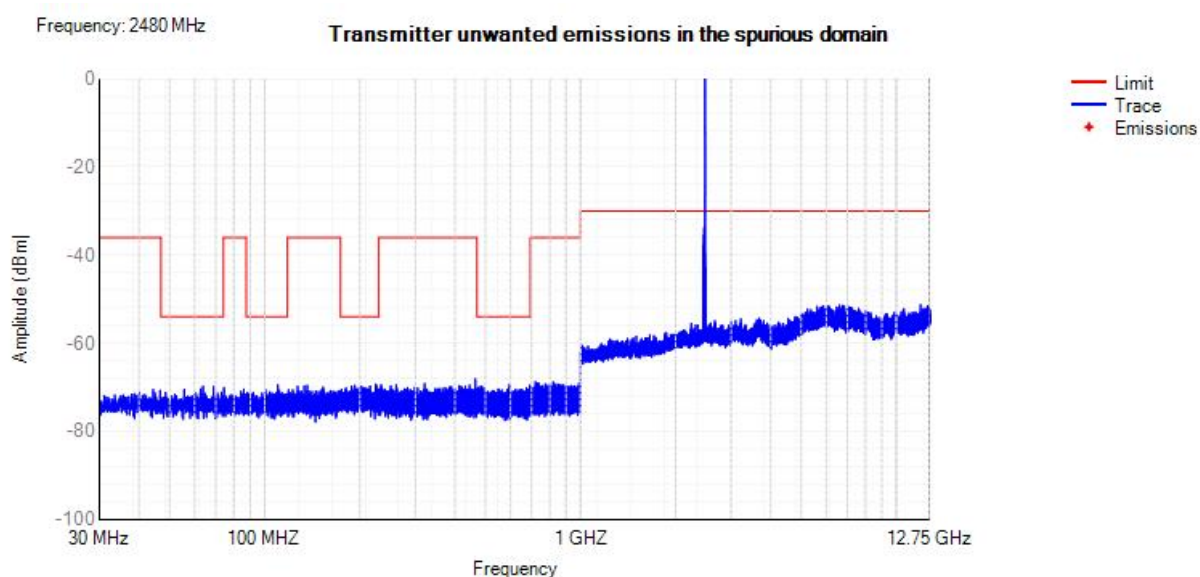




Tx. Spurious NVNT 3-DH5 2402MHz



Tx. Spurious NVNT 3-DH5 2480MHz

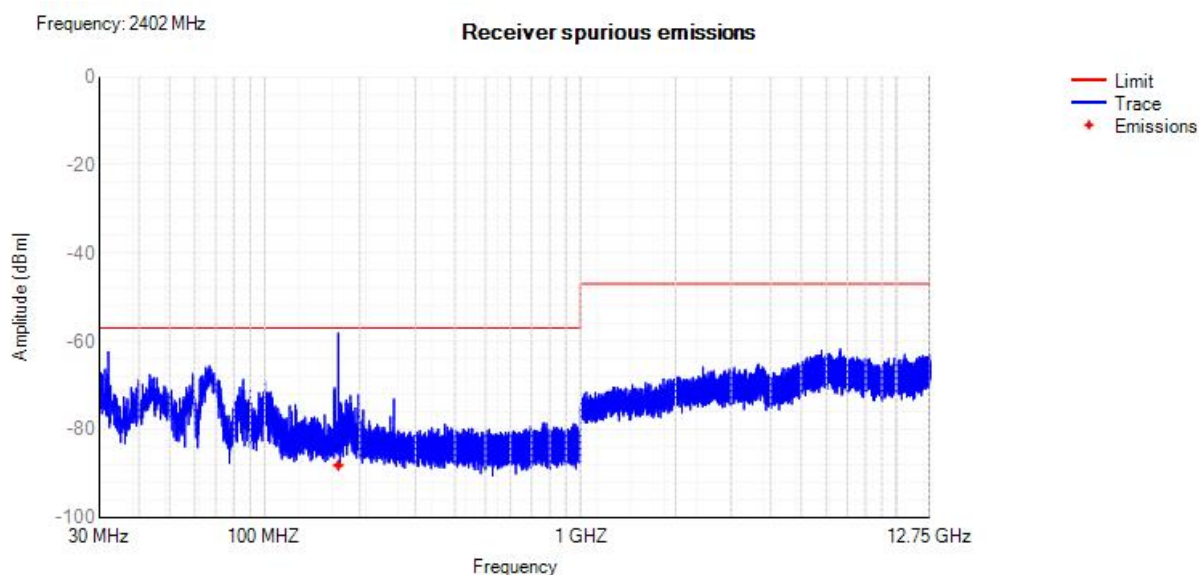




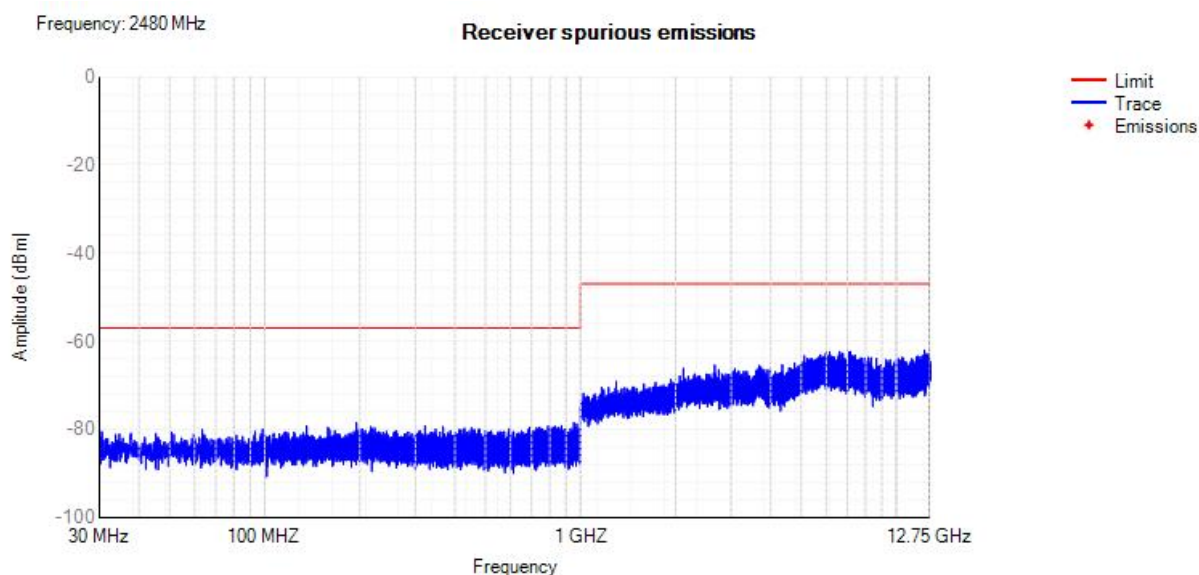
E.9 Receiver spurious emissions

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	30 MHz -1000 MHz	171	-88.17	-57	Pass

Rx. Spurious NVNT 1-DH5 2402MHz

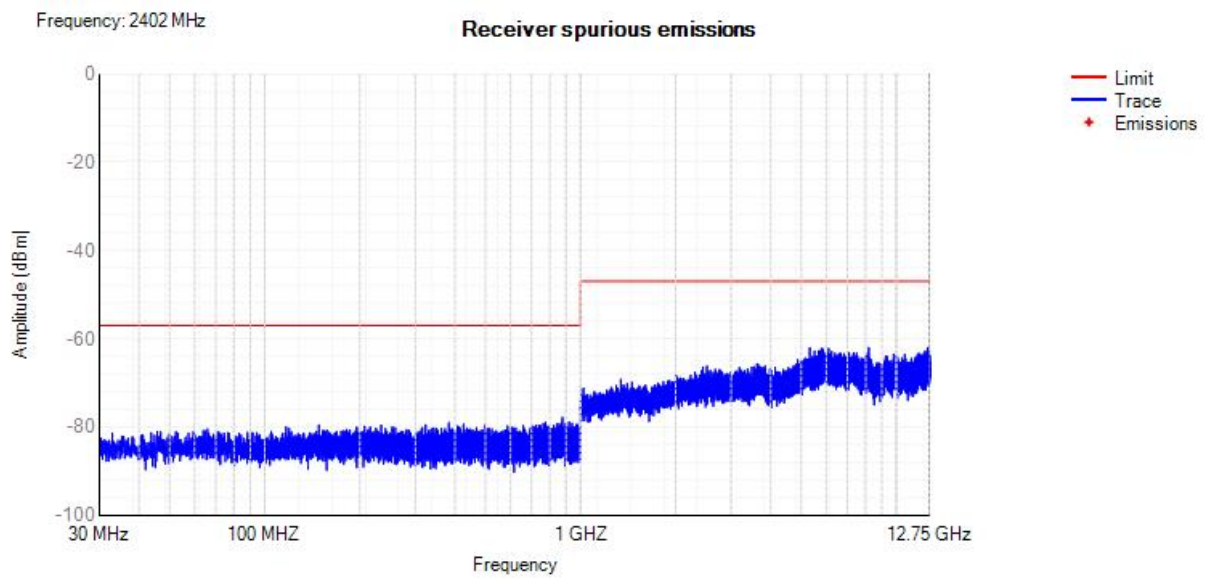


Rx. Spurious NVNT 1-DH5 2480MHz

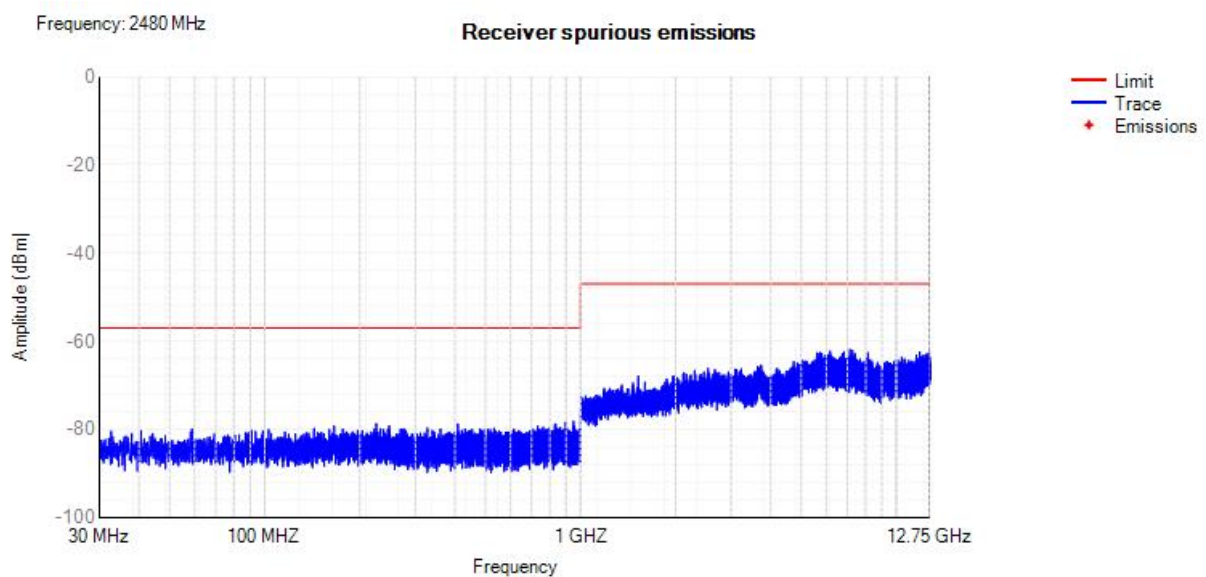




Rx. Spurious NVNT 2-DH5 2402MHz

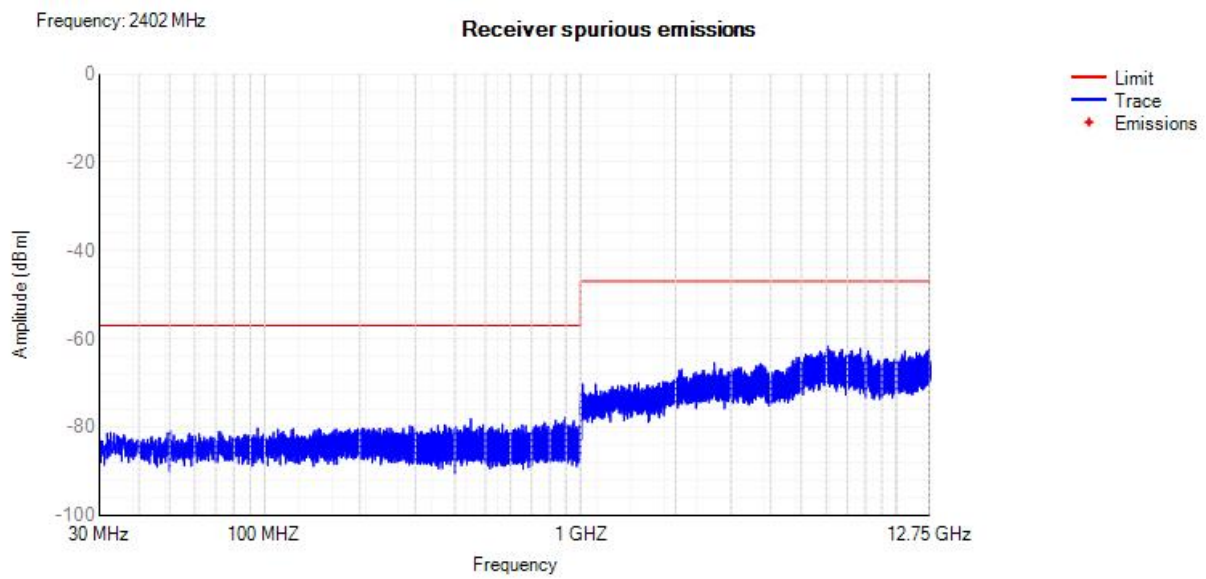


Rx. Spurious NVNT 2-DH5 2480MHz

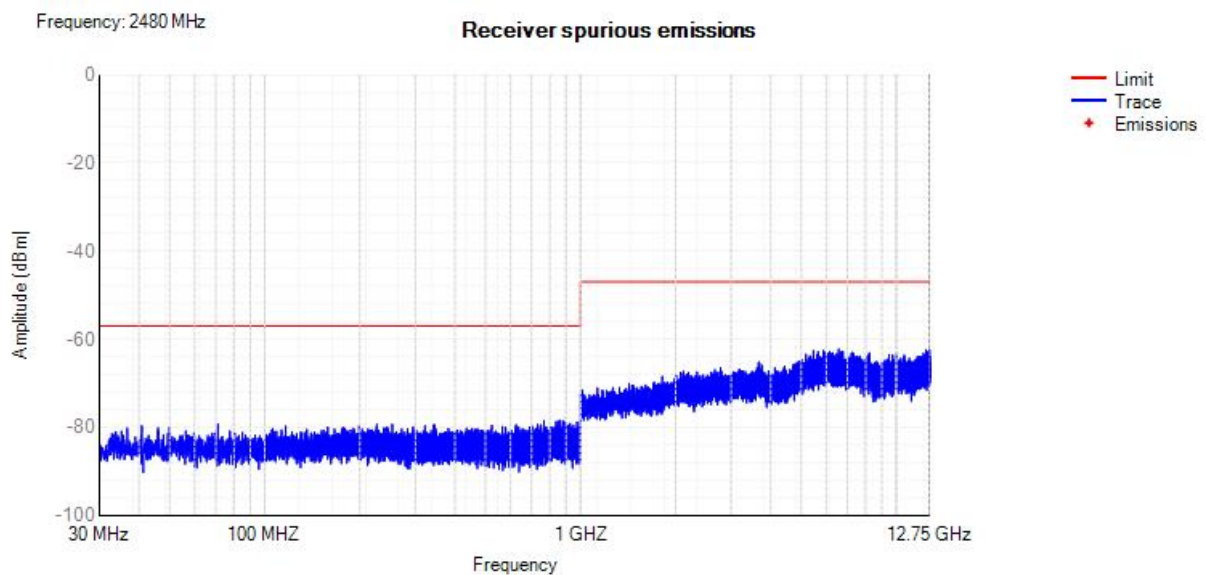




Rx. Spurious NVNT 3-DH5 2402MHz



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	-26	≥-34	CW	2.23	10	Pass
			2504	-22	≥-34	CW	3.38	10	Pass
			2300	-26	≥-34	CW	0.48	10	Pass
			2584	-24	≥-34	CW	0.73	10	Pass
	2480	-70	2380	-30	≥-34	CW	2.37	10	Pass
			2504	-25	≥-34	CW	2.45	10	Pass
			2300	-28	≥-34	CW	3.17	10	Pass
			2584	-20	≥-34	CW	2.61	10	Pass
2DH5	2402	-68	2380	-21	≥-34	CW	3.81	10	Pass
			2504	-21	≥-34	CW	2.67	10	Pass
			2300	-28	≥-34	CW	1.22	10	Pass
			2584	-27	≥-34	CW	3.68	10	Pass
	2480	-68	2380	-22	≥-34	CW	3.75	10	Pass
			2504	-28	≥-34	CW	1.34	10	Pass
			2300	-25	≥-34	CW	0.45	10	Pass
			2584	-20	≥-34	CW	1.70	10	Pass
3DH5	2402	-68	2380	-22	≥-34	CW	1.50	10	Pass
			2504	-24	≥-34	CW	3.56	10	Pass
			2300	-26	≥-34	CW	4.30	10	Pass
			2584	-26	≥-34	CW	4.68	10	Pass
	2480	-68	2380	-30	≥-34	CW	2.51	10	Pass
			2504	-25	≥-34	CW	3.25	10	Pass
			2300	-23	≥-34	CW	3.01	10	Pass
			2584	-24	≥-34	CW	5.39	10	Pass