

WCDMA Band 5 HSUPA Test Data

FCC ID: 2BLBN-SMART

Table of Contents

1. Conducted Output Power&&EIRP/ERP.....	2
2. Occupied Bandwidth	3
3. Peak to Average Ratio.....	5
4. Unwanted Spurious Emission	7
5. Frequency Stability	10

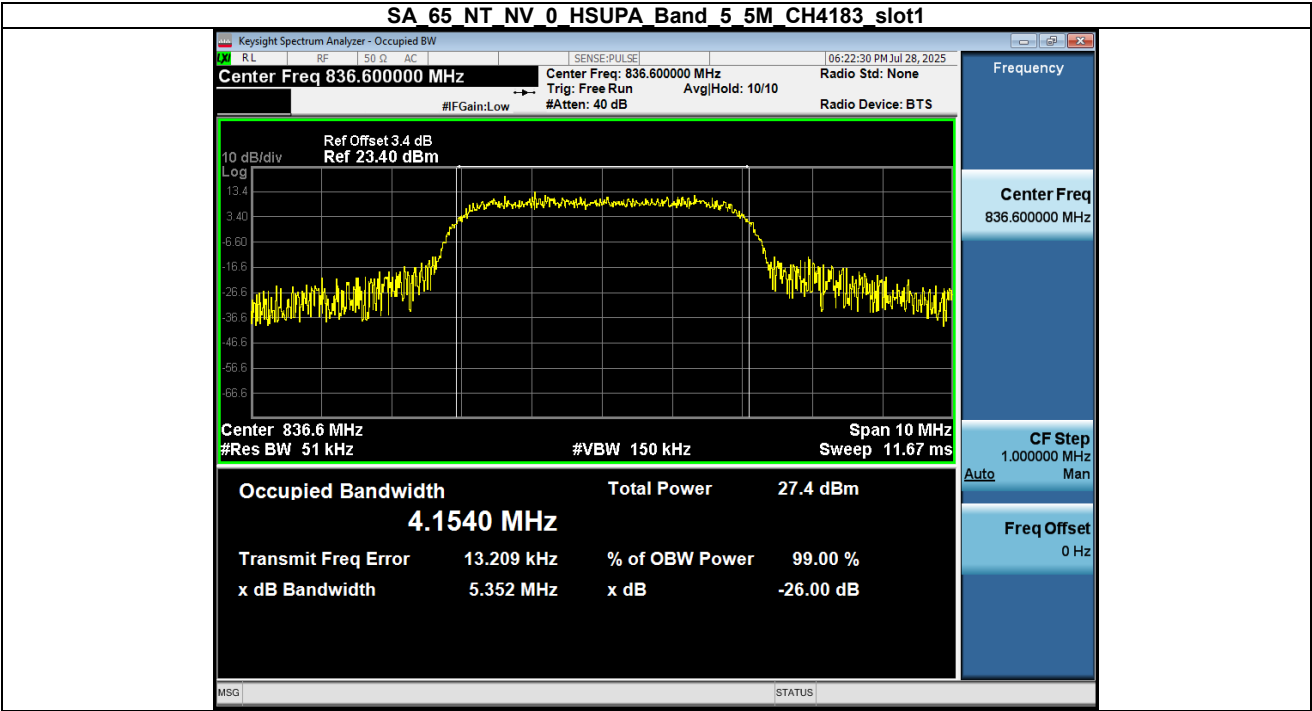
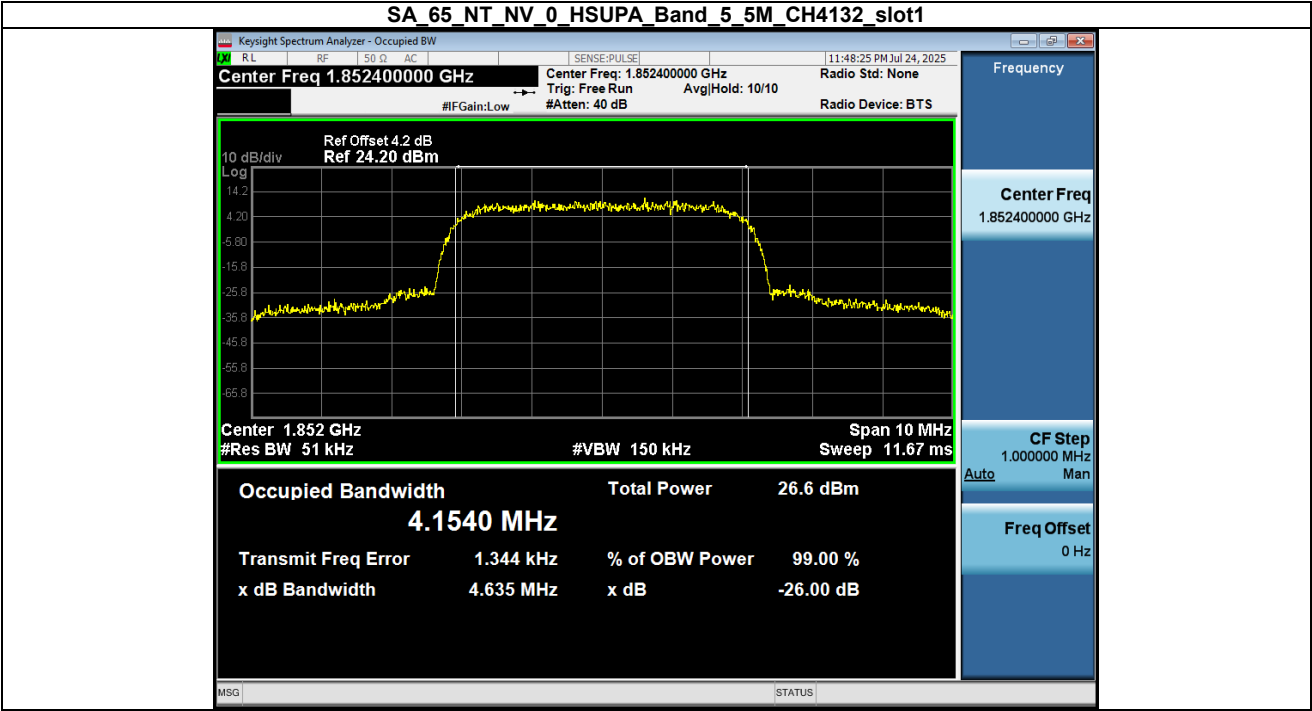
1. Conducted Output Power&&EIRP/ERP

Condition	Mode	Band	Frequency (MHz)	Sub	Conducted Power(dBm)	ANT Gain(dBi)	ERP(dBm)	limit(dBm)	Result
NVNT	HSUPA	Band 5	826.4	1	22.71	0.72	21.28	38.45	Pass
NVNT	HSUPA	Band 5	826.4	2	21.80	0.72	20.37	38.45	Pass
NVNT	HSUPA	Band 5	826.4	3	22.21	0.72	20.78	38.45	Pass
NVNT	HSUPA	Band 5	826.4	4	22.85	0.72	21.62	38.45	Pass
NVNT	HSUPA	Band 5	826.4	5	22.83	0.72	21.40	38.45	Pass
NVNT	HSUPA	Band 5	836.6	1	22.81	0.72	21.38	38.45	Pass
NVNT	HSUPA	Band 5	836.6	2	22.51	0.72	21.08	38.45	Pass
NVNT	HSUPA	Band 5	836.6	3	22.40	0.72	20.97	38.45	Pass
NVNT	HSUPA	Band 5	836.6	4	21.82	0.72	20.39	38.45	Pass
NVNT	HSUPA	Band 5	836.6	5	22.02	0.72	20.59	38.45	Pass
NVNT	HSUPA	Band 5	846.6	1	22.19	0.72	20.76	38.45	Pass
NVNT	HSUPA	Band 5	846.6	2	22.44	0.72	21.01	38.45	Pass
NVNT	HSUPA	Band 5	846.6	3	22.95	0.72	21.91	38.45	Pass
NVNT	HSUPA	Band 5	846.6	4	21.90	0.72	20.47	38.45	Pass
NVNT	HSUPA	Band 5	846.6	5	22.42	0.72	20.99	38.45	Pass

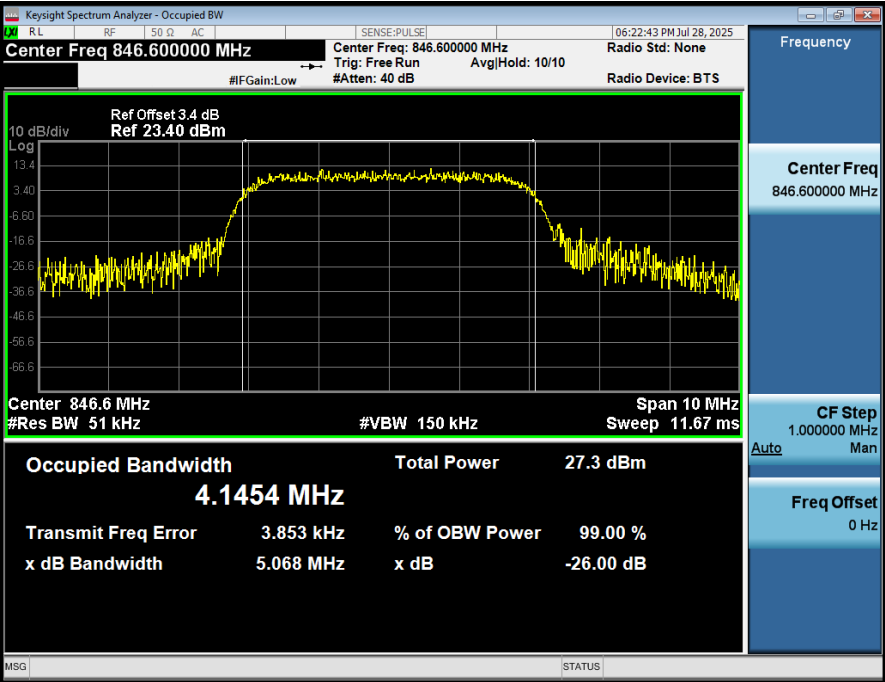
ERP = Conducted Power + ANT Gain - 2.15

2. Occupied Bandwidth

Condition	Mode	Band	Frequency(MHz)	Sub	OBW(MHz)	-26EBW(MHz)
NVNT	HSUPA	Band 5	826.4	1	4.1540	4.6350
NVNT	HSUPA	Band 5	836.6	1	4.1540	5.3523
NVNT	HSUPA	Band 5	846.6	1	4.1454	5.0683

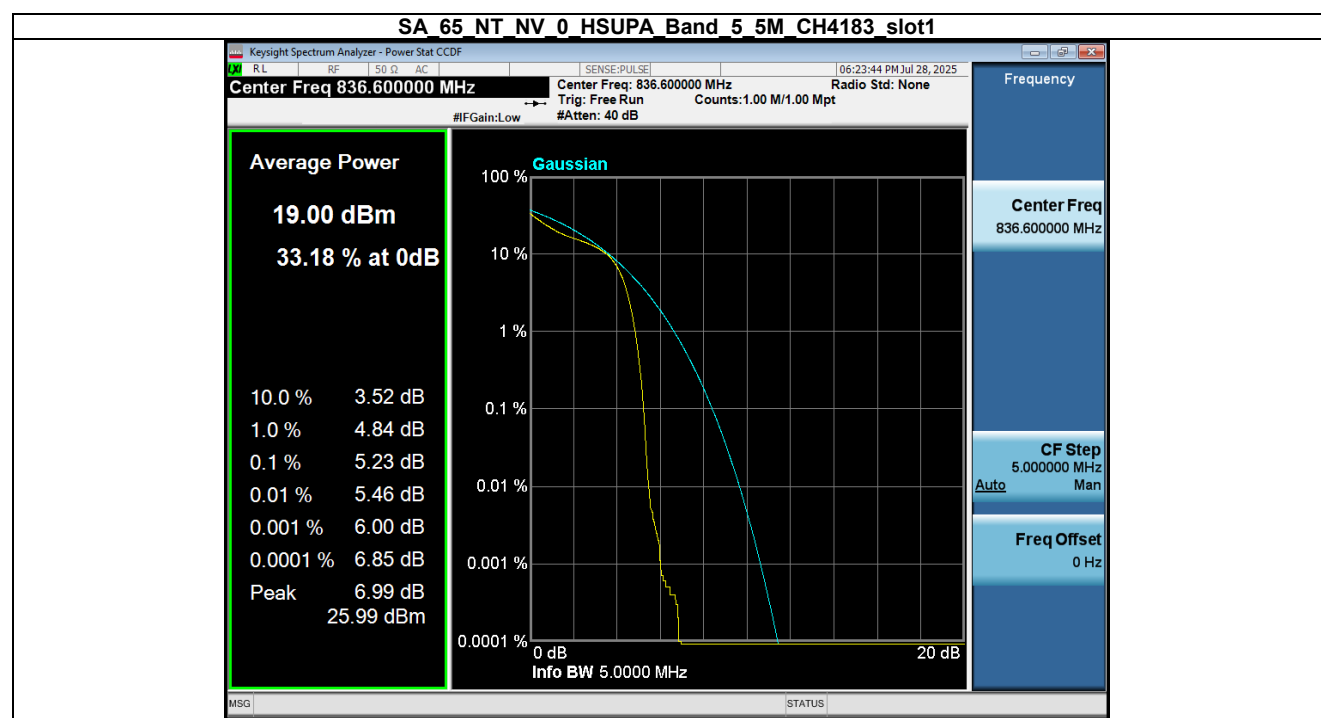
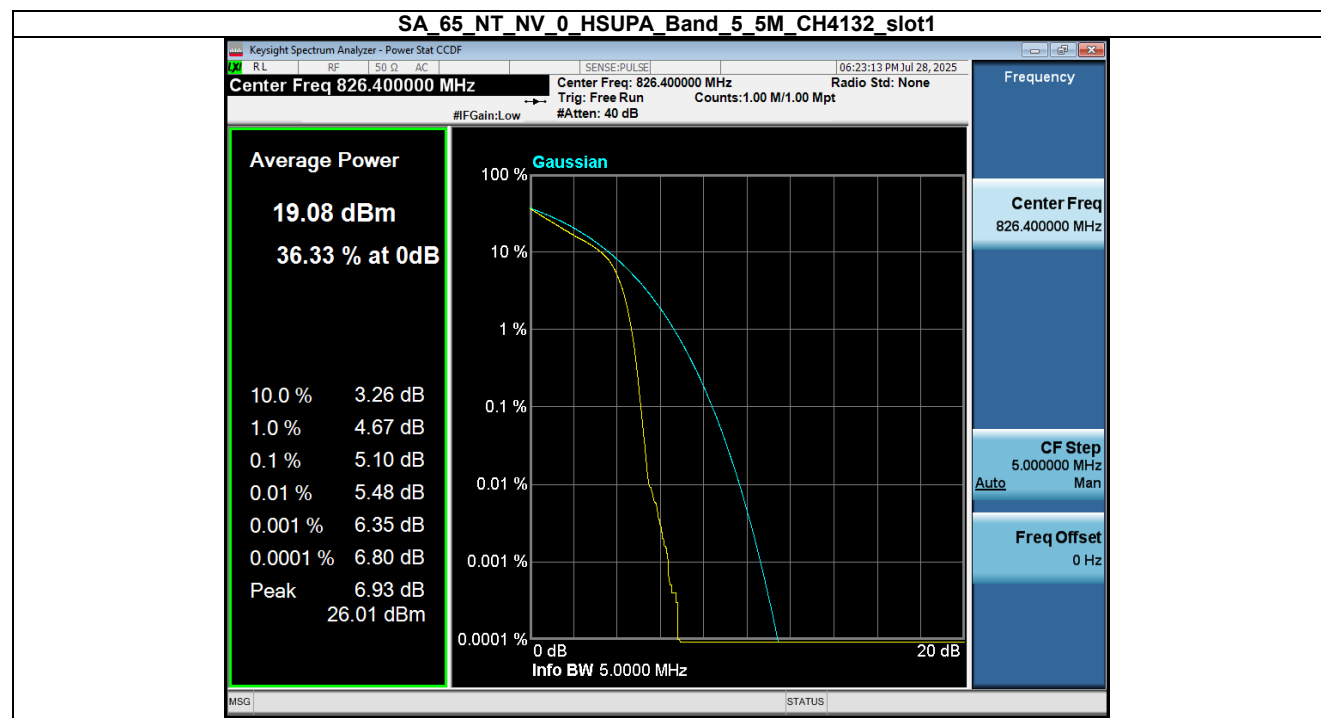


SA_65_NT_NV_0_HSUPA_Band_5_5M_CH4233_slot1

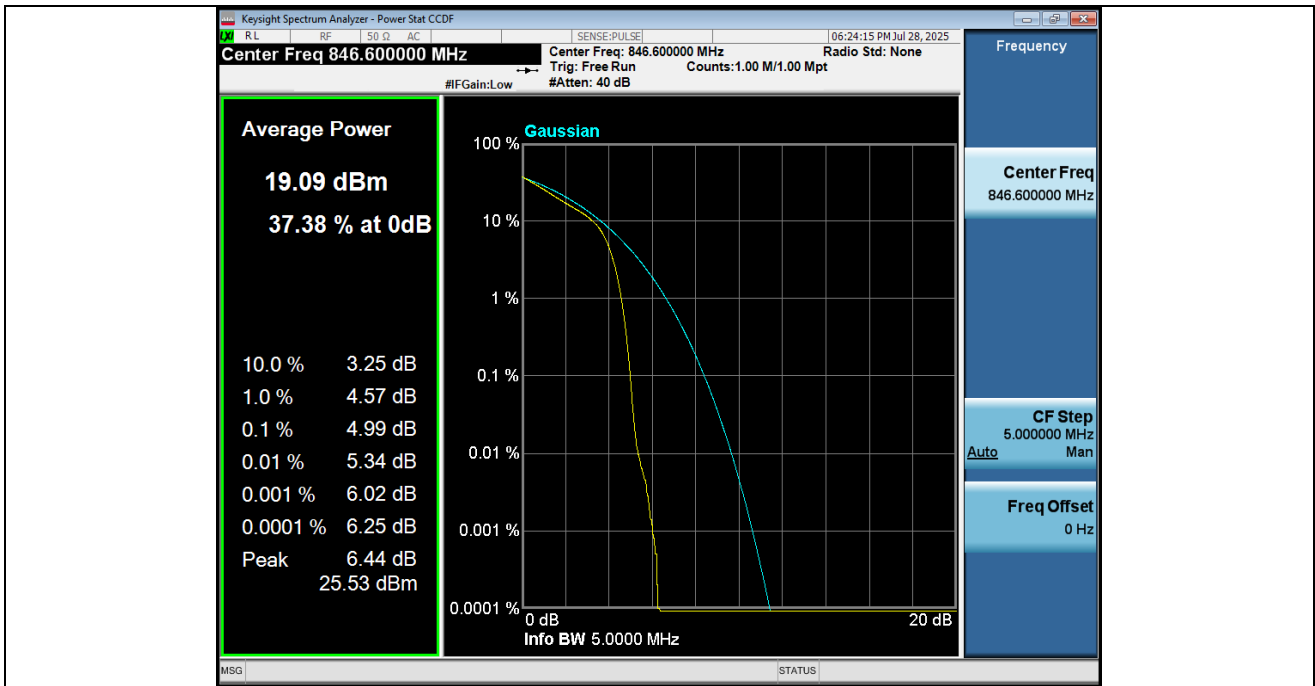


3. Peak to Average Ratio

Condition	Mode	Band	Frequency(MHz)	Sub	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	HSUPA	Band 5	826.4	1	5.10	13.00	Pass
NVNT	HSUPA	Band 5	836.6	1	5.23	13.00	Pass
NVNT	HSUPA	Band 5	846.6	1	4.99	13.00	Pass

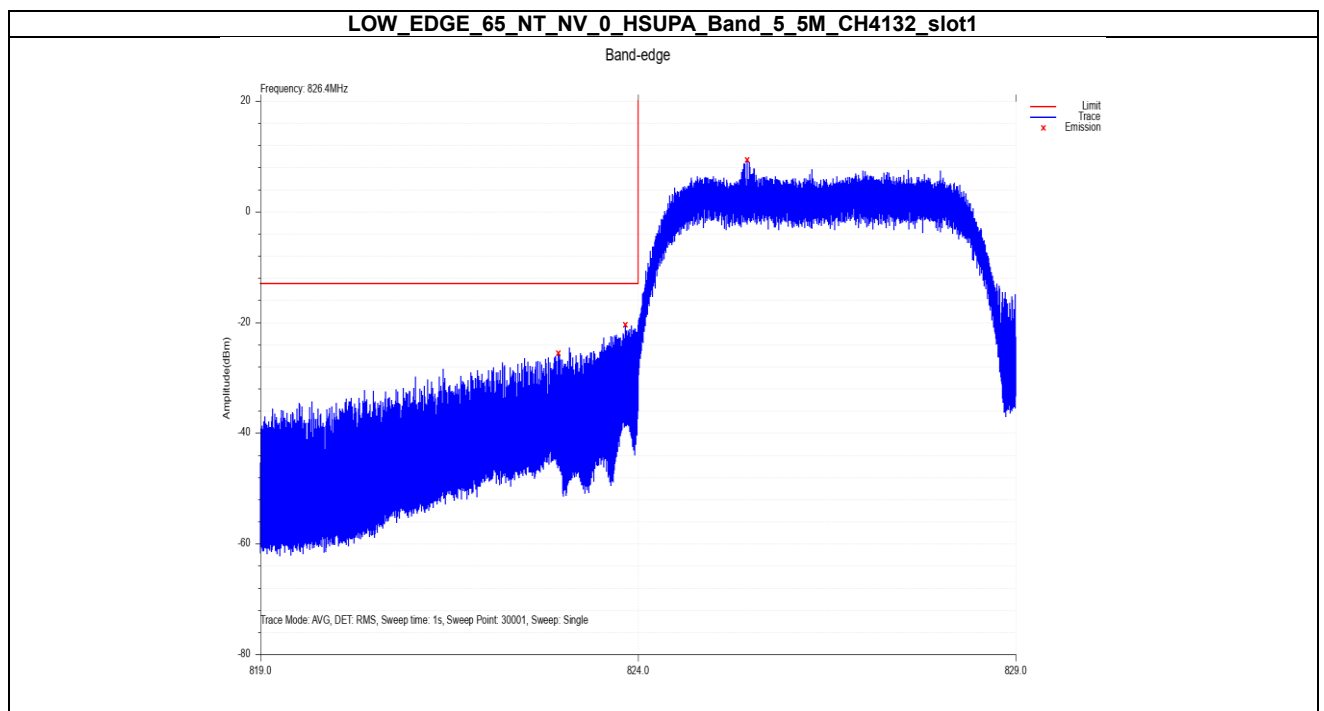


SA_65_NT_NV_0_HSUPA_Band_5_5M_CH4233_slot1



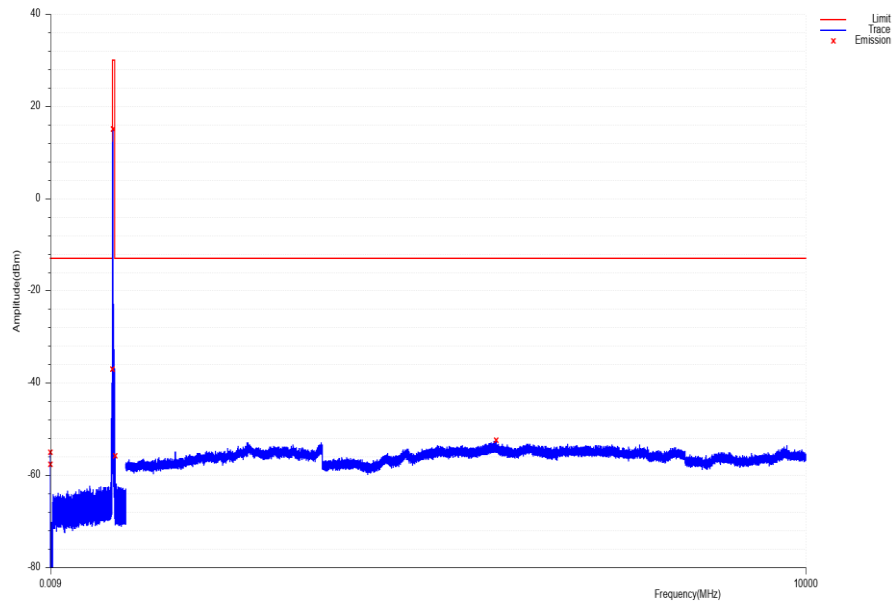
4. Unwanted Spurious Emission

Condition	Mode	Band	Frequency(MHz)	Sub	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	HSUPA	Band 5	826.40	1	100	819.0~823.0	822.943	-25.51	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	50.0	823.0~824.0	823.831	-20.49	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	1	0.009~0.150	0.012	-55.08	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	10	0.150~30.000	0.158	-57.71	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	100	30.000~819.000	818.553	-37.00	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	100	854.000~1000.000	854.170	-55.81	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	1000	1000.000~10000.000	5904.400	-52.41	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	1	0.009~0.150	0.010	-55.88	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	10	0.150~30.000	0.152	-56.81	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	100	30.000~819.000	814.634	-46.56	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	100	854.000~1000.000	854.112	-54.44	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	1000	1000.000~10000.000	6329.500	-52.83	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	50.0	849.0~850.0	849.011	-17.28	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	100	850.0~854.0	850.015	-20.76	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	1	0.009~0.150	0.012	-52.37	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	10	0.150~30.000	0.163	-55.84	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	100	30.000~819.000	811.952	-45.22	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	100	854.000~1000.000	854.175	-41.23	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	1000	1000.000~10000.000	5852.800	-52.77	-13	Pass



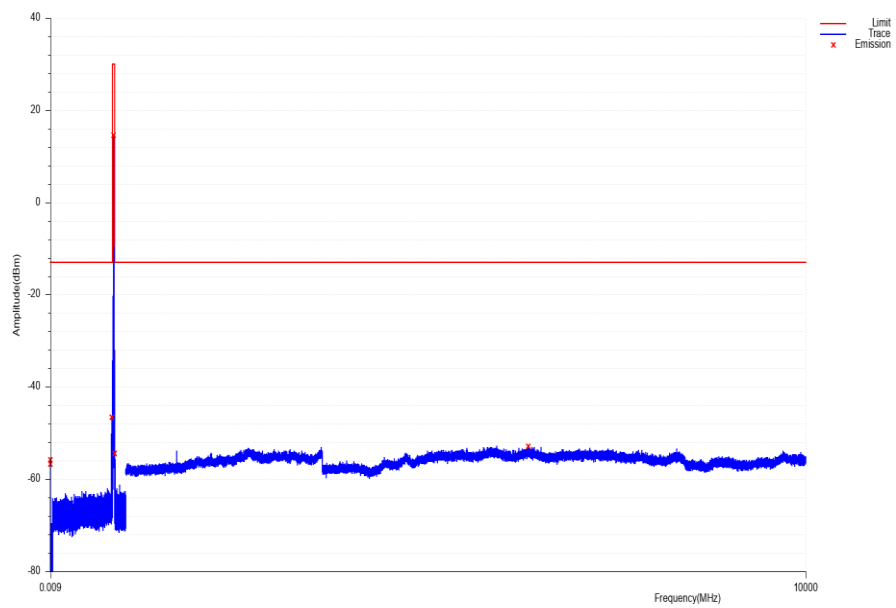
SA_65_NT_NV_0_HSUPA_Band_5_5M_CH4132_slot1

Unwanted spurious emissions

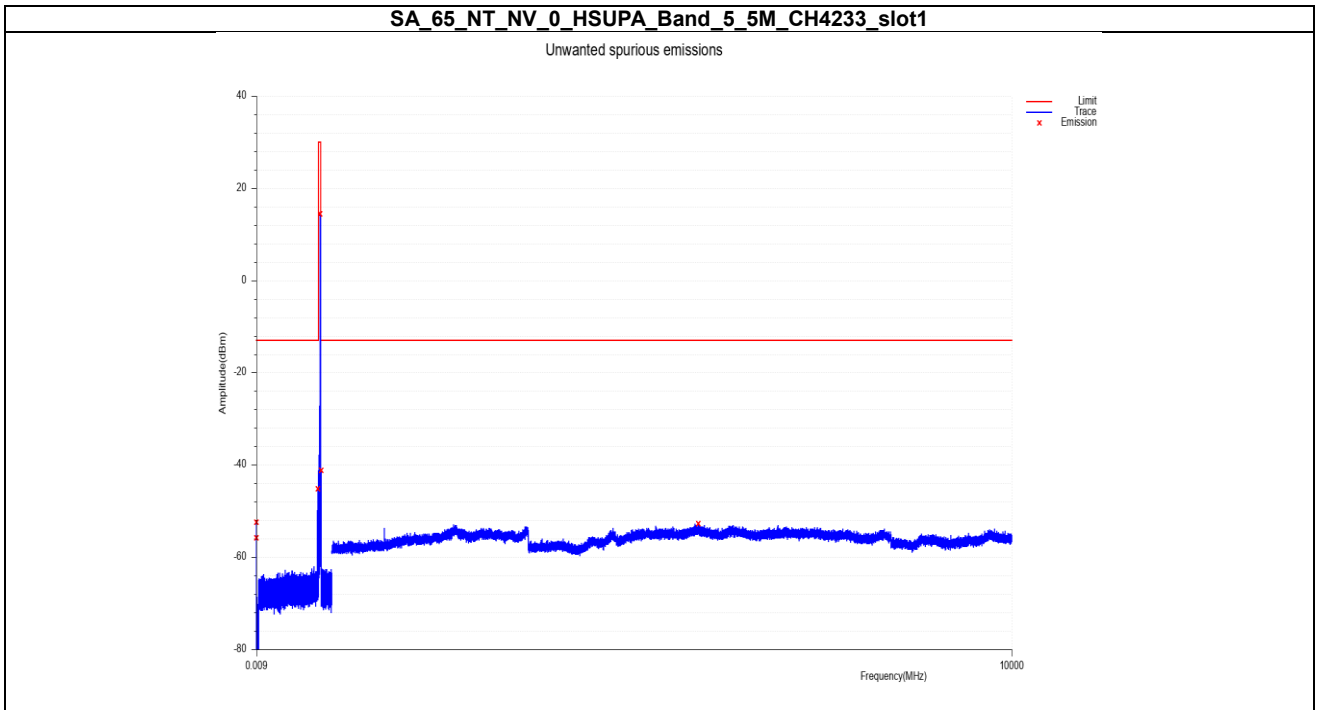
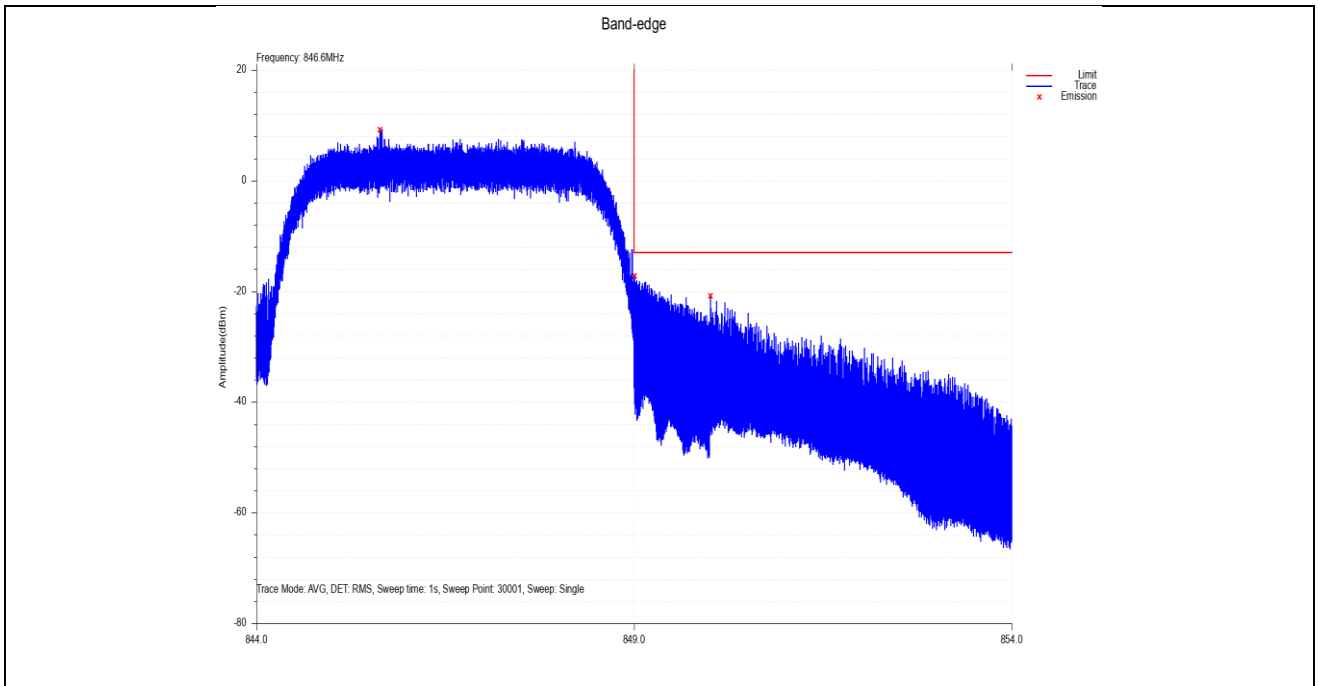


SA_65_NT_NV_0_HSUPA_Band_5_5M_CH4183_slot1

Unwanted spurious emissions



UPPER_EDGE_65_NT_NV_0_HSUPA_Band_5_5M_CH4233_slot1



5. Frequency Stability

Temperature (C)	Voltage(V)	Modulation	Band	Frequency (MHz)	Sub	Frequency Stabilization (ppm)	Limit_Low (ppm)	Limit_Up (ppm)	Result
-30	3.47	HSUPA	Band 5	826.4	1	0.0018	-2.50	2.50	Pass
-30	3.47	HSUPA	Band 5	836.6	1	0.0015	-2.50	2.50	Pass
-30	3.47	HSUPA	Band 5	846.6	1	0.0040	-2.50	2.50	Pass
-30	3.85	HSUPA	Band 5	826.4	1	0.0059	-2.50	2.50	Pass
-30	3.85	HSUPA	Band 5	836.6	1	0.0041	-2.50	2.50	Pass
-30	3.85	HSUPA	Band 5	846.6	1	0.0078	-2.50	2.50	Pass
-30	4.24	HSUPA	Band 5	826.4	1	0.0037	-2.50	2.50	Pass
-30	4.24	HSUPA	Band 5	836.6	1	0.0030	-2.50	2.50	Pass
-30	4.24	HSUPA	Band 5	846.6	1	0.0033	-2.50	2.50	Pass
-20	3.47	HSUPA	Band 5	826.4	1	0.0026	-2.50	2.50	Pass
-20	3.47	HSUPA	Band 5	836.6	1	0.0007	-2.50	2.50	Pass
-20	3.47	HSUPA	Band 5	846.6	1	0.0060	-2.50	2.50	Pass
-20	3.85	HSUPA	Band 5	826.4	1	0.0047	-2.50	2.50	Pass
-20	3.85	HSUPA	Band 5	836.6	1	0.0042	-2.50	2.50	Pass
-20	3.85	HSUPA	Band 5	846.6	1	0.0028	-2.50	2.50	Pass
-20	4.24	HSUPA	Band 5	826.4	1	0.0002	-2.50	2.50	Pass
-20	4.24	HSUPA	Band 5	836.6	1	0.0053	-2.50	2.50	Pass
-20	4.24	HSUPA	Band 5	846.6	1	0.0047	-2.50	2.50	Pass
-10	3.47	HSUPA	Band 5	826.4	1	0.0048	-2.50	2.50	Pass
-10	3.47	HSUPA	Band 5	836.6	1	0.0015	-2.50	2.50	Pass
-10	3.47	HSUPA	Band 5	846.6	1	0.0068	-2.50	2.50	Pass
-10	3.85	HSUPA	Band 5	826.4	1	0.0011	-2.50	2.50	Pass
-10	3.85	HSUPA	Band 5	836.6	1	0.0019	-2.50	2.50	Pass
-10	3.85	HSUPA	Band 5	846.6	1	0.0029	-2.50	2.50	Pass
-10	4.24	HSUPA	Band 5	826.4	1	0.0031	-2.50	2.50	Pass
-10	4.24	HSUPA	Band 5	836.6	1	0.0056	-2.50	2.50	Pass
-10	4.24	HSUPA	Band 5	846.6	1	0.0038	-2.50	2.50	Pass
0	3.47	HSUPA	Band 5	826.4	1	0.0007	-2.50	2.50	Pass
0	3.47	HSUPA	Band 5	836.6	1	0.0044	-2.50	2.50	Pass
0	3.47	HSUPA	Band 5	846.6	1	0.0047	-2.50	2.50	Pass
0	3.85	HSUPA	Band 5	826.4	1	0.0014	-2.50	2.50	Pass
0	3.85	HSUPA	Band 5	836.6	1	0.0011	-2.50	2.50	Pass
0	3.85	HSUPA	Band 5	846.6	1	0.0064	-2.50	2.50	Pass
0	4.24	HSUPA	Band 5	826.4	1	0.0035	-2.50	2.50	Pass
0	4.24	HSUPA	Band 5	836.6	1	0.0022	-2.50	2.50	Pass
0	4.24	HSUPA	Band 5	846.6	1	0.0063	-2.50	2.50	Pass
10	3.47	HSUPA	Band 5	826.4	1	0.0027	-2.50	2.50	Pass
10	3.47	HSUPA	Band 5	836.6	1	0.0060	-2.50	2.50	Pass
10	3.47	HSUPA	Band 5	846.6	1	0.0043	-2.50	2.50	Pass
10	3.85	HSUPA	Band 5	826.4	1	0.0051	-2.50	2.50	Pass
10	3.85	HSUPA	Band 5	836.6	1	0.0042	-2.50	2.50	Pass
10	3.85	HSUPA	Band 5	846.6	1	0.0048	-2.50	2.50	Pass
10	4.24	HSUPA	Band 5	826.4	1	0.0017	-2.50	2.50	Pass
10	4.24	HSUPA	Band 5	836.6	1	0.0026	-2.50	2.50	Pass
10	4.24	HSUPA	Band 5	846.6	1	0.0067	-2.50	2.50	Pass
20	3.47	HSUPA	Band 5	826.4	1	0.0021	-2.50	2.50	Pass
20	3.47	HSUPA	Band 5	836.6	1	0.0049	-2.50	2.50	Pass
20	3.47	HSUPA	Band 5	846.6	1	0.0045	-2.50	2.50	Pass
20	3.85	HSUPA	Band 5	826.4	1	0.0019	-2.50	2.50	Pass
20	3.85	HSUPA	Band 5	836.6	1	0.0058	-2.50	2.50	Pass
20	3.85	HSUPA	Band 5	846.6	1	0.0039	-2.50	2.50	Pass
20	4.24	HSUPA	Band 5	826.4	1	0.0047	-2.50	2.50	Pass
20	4.24	HSUPA	Band 5	836.6	1	0.0003	-2.50	2.50	Pass
20	4.24	HSUPA	Band 5	846.6	1	0.0027	-2.50	2.50	Pass
30	3.47	HSUPA	Band 5	826.4	1	0.0020	-2.50	2.50	Pass
30	3.47	HSUPA	Band 5	836.6	1	0.0069	-2.50	2.50	Pass
30	3.47	HSUPA	Band 5	846.6	1	0.0056	-2.50	2.50	Pass
30	3.85	HSUPA	Band 5	826.4	1	0.0031	-2.50	2.50	Pass
30	3.85	HSUPA	Band 5	836.6	1	0.0075	-2.50	2.50	Pass
30	3.85	HSUPA	Band 5	846.6	1	0.0028	-2.50	2.50	Pass
30	4.24	HSUPA	Band 5	826.4	1	0.0034	-2.50	2.50	Pass
30	4.24	HSUPA	Band 5	836.6	1	0.0072	-2.50	2.50	Pass
30	4.24	HSUPA	Band 5	846.6	1	0.0051	-2.50	2.50	Pass
40	3.47	HSUPA	Band 5	826.4	1	0.0065	-2.50	2.50	Pass
40	3.47	HSUPA	Band 5	836.6	1	0.0009	-2.50	2.50	Pass

40	3.47	HSUPA	Band 5	846.6	1	0.0027	-2.50	2.50	Pass
40	3.85	HSUPA	Band 5	826.4	1	0.0036	-2.50	2.50	Pass
40	3.85	HSUPA	Band 5	836.6	1	0.0035	-2.50	2.50	Pass
40	3.85	HSUPA	Band 5	846.6	1	0.0039	-2.50	2.50	Pass
40	4.24	HSUPA	Band 5	826.4	1	0.0020	-2.50	2.50	Pass
40	4.24	HSUPA	Band 5	836.6	1	0.0044	-2.50	2.50	Pass
40	4.24	HSUPA	Band 5	846.6	1	0.0033	-2.50	2.50	Pass
50	3.47	HSUPA	Band 5	826.4	1	0.0028	-2.50	2.50	Pass
50	3.47	HSUPA	Band 5	836.6	1	0.0016	-2.50	2.50	Pass
50	3.47	HSUPA	Band 5	846.6	1	0.0028	-2.50	2.50	Pass
50	3.85	HSUPA	Band 5	826.4	1	0.0025	-2.50	2.50	Pass
50	3.85	HSUPA	Band 5	836.6	1	0.0037	-2.50	2.50	Pass
50	3.85	HSUPA	Band 5	846.6	1	0.0056	-2.50	2.50	Pass
50	4.24	HSUPA	Band 5	826.4	1	-0.0001	-2.50	2.50	Pass
50	4.24	HSUPA	Band 5	836.6	1	0.0025	-2.50	2.50	Pass
50	4.24	HSUPA	Band 5	846.6	1	0.0029	-2.50	2.50	Pass