

WCDMA Band 5 HSUPA Test Data

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

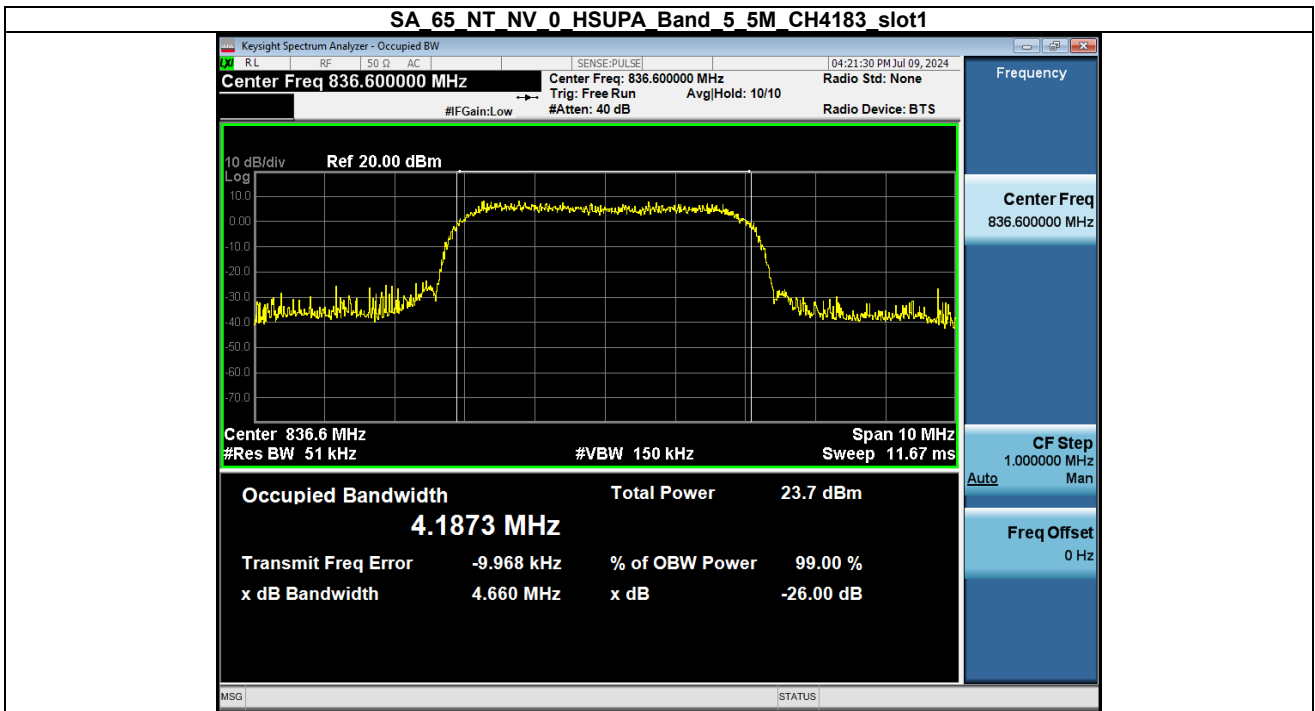
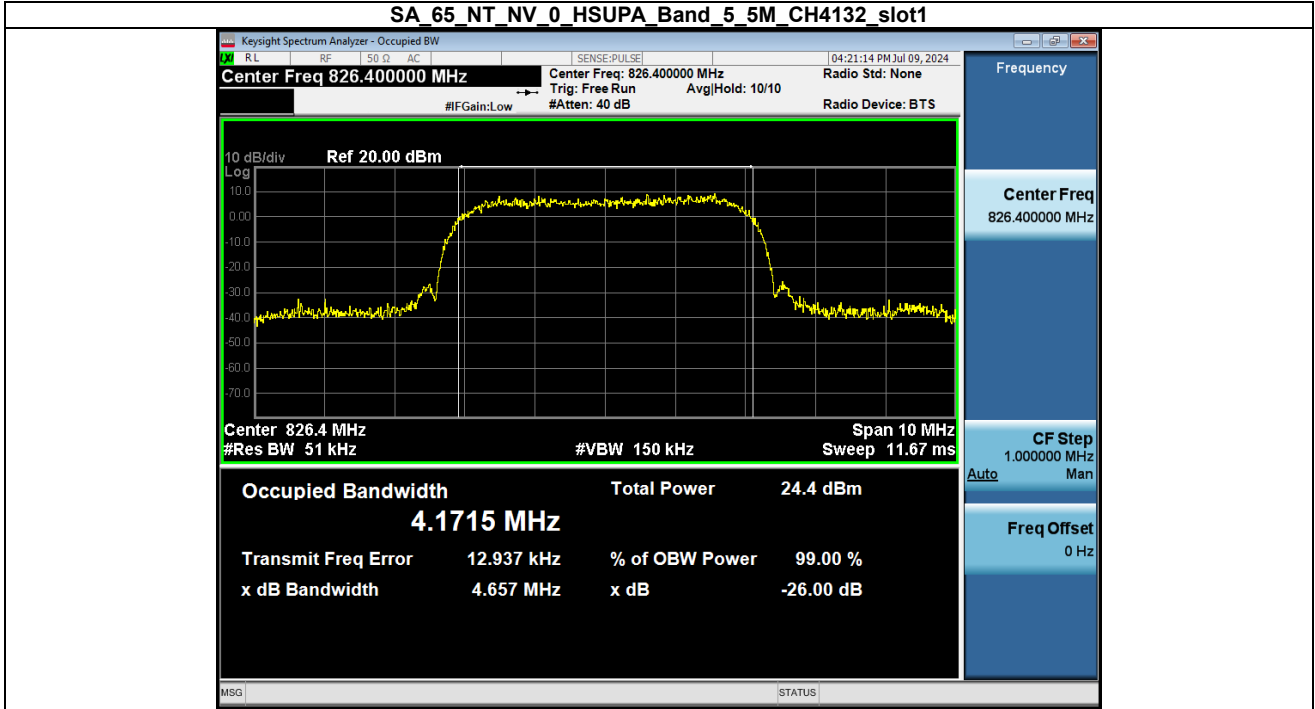
1. Conducted Output Power&&EIRP/ERP

Condition	Mode	Band	Frequency(MHz)	Sub	Conducted Power(dBm)	ANT Gain(dBi)	ERP(dBm)	limit(dBm)	Result
NVNT	HSUPA	Band 5	826.4	1	22.59	-6.1	14.34	38.45	Pass
NVNT	HSUPA	Band 5	826.4	2	22.13	-6.1	13.88	38.45	Pass
NVNT	HSUPA	Band 5	826.4	3	22.41	-6.1	14.16	38.45	Pass
NVNT	HSUPA	Band 5	826.4	4	22.44	-6.1	14.19	38.45	Pass
NVNT	HSUPA	Band 5	826.4	5	22.10	-6.1	13.85	38.45	Pass
NVNT	HSUPA	Band 5	836.6	1	22.36	-6.1	14.11	38.45	Pass
NVNT	HSUPA	Band 5	836.6	2	22.48	-6.1	14.23	38.45	Pass
NVNT	HSUPA	Band 5	836.6	3	21.71	-6.1	13.46	38.45	Pass
NVNT	HSUPA	Band 5	836.6	4	22.02	-6.1	13.77	38.45	Pass
NVNT	HSUPA	Band 5	836.6	5	22.06	-6.1	13.81	38.45	Pass
NVNT	HSUPA	Band 5	846.6	1	21.91	-6.1	13.66	38.45	Pass
NVNT	HSUPA	Band 5	846.6	2	22.11	-6.1	13.86	38.45	Pass
NVNT	HSUPA	Band 5	846.6	3	22.82	-6.1	14.57	38.45	Pass
NVNT	HSUPA	Band 5	846.6	4	21.60	-6.1	13.35	38.45	Pass
NVNT	HSUPA	Band 5	846.6	5	22.12	-6.1	13.87	38.45	Pass

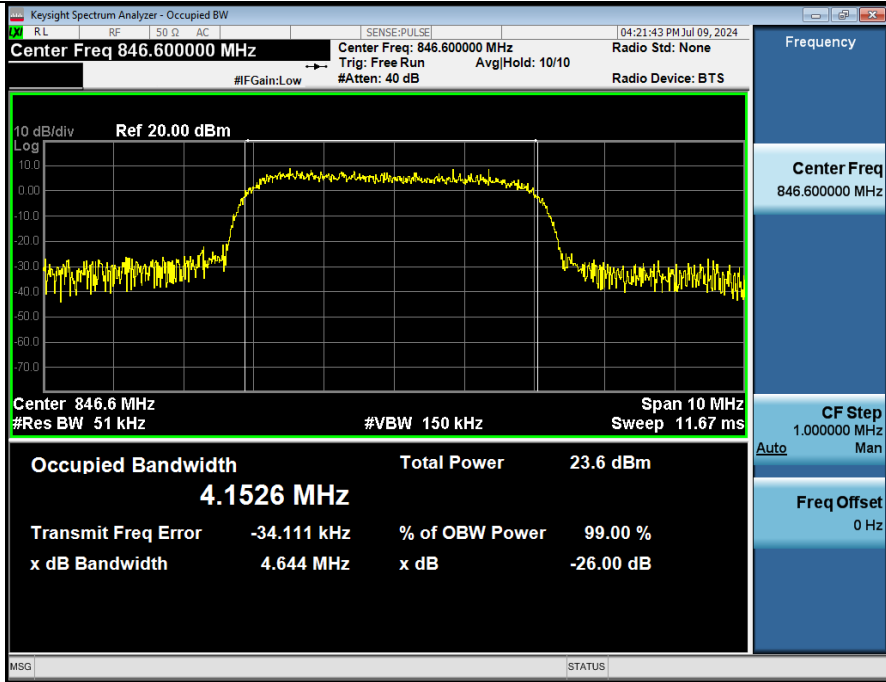
ERP = Conducted Power + ANT Gain - 2.15

2. Occupied Bandwidth

Condition	Mode	Band	Frequency(MHz)	Sub	OBW(MHz)	-26EBW(MHz)
NVNT	HSUPA	Band 5	826.4	1	4.1715	4.6567
NVNT	HSUPA	Band 5	836.6	1	4.1873	4.6604
NVNT	HSUPA	Band 5	846.6	1	4.1526	4.6436

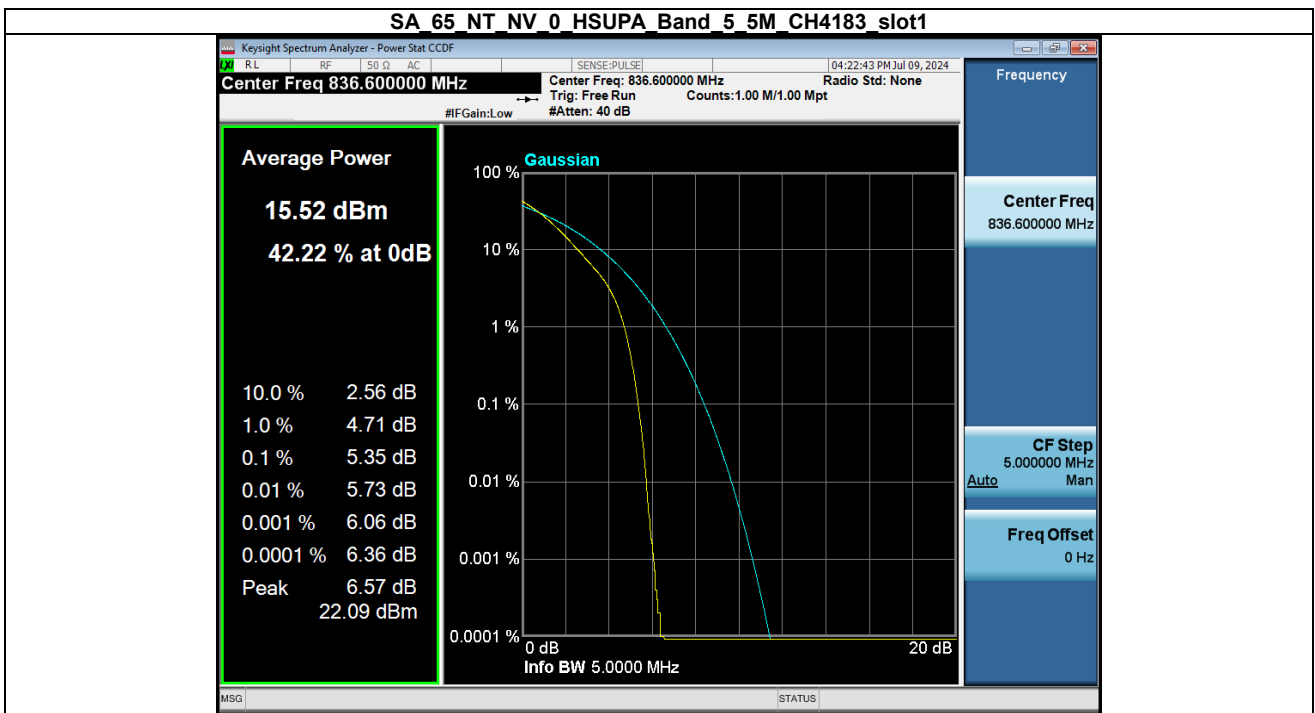
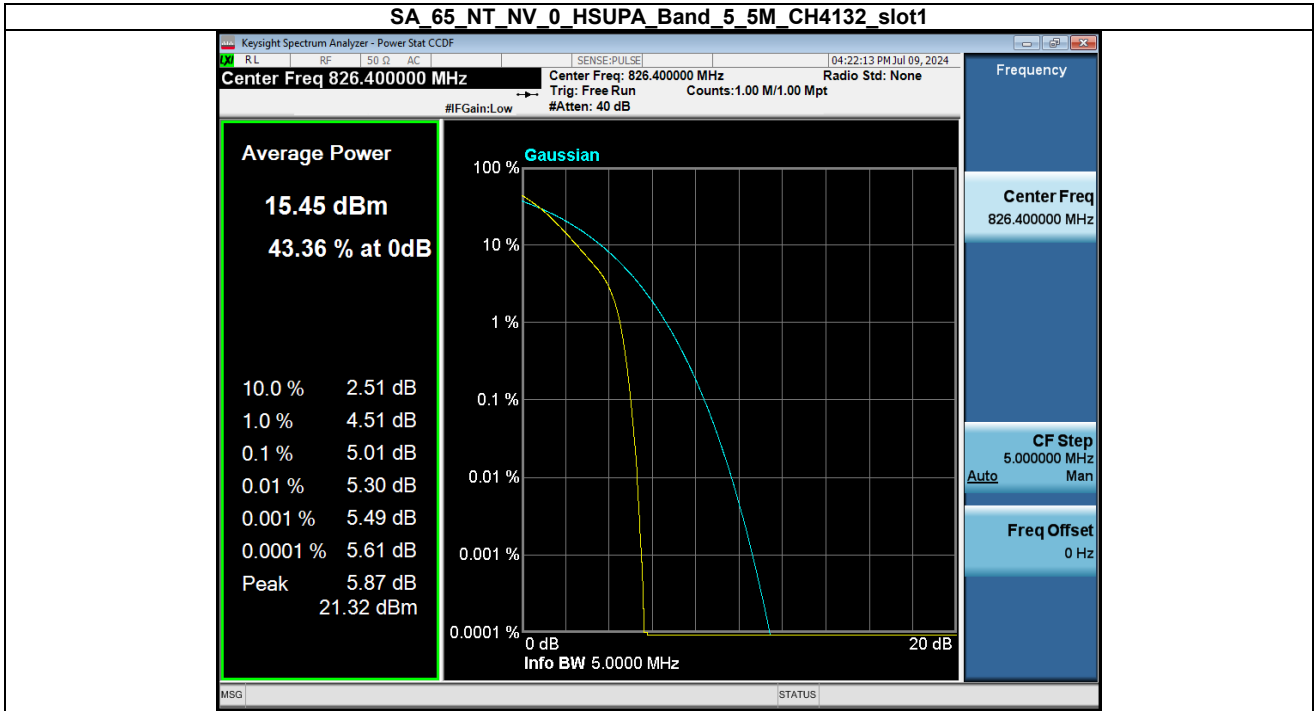


SA_65_NT_NV_0_HSUPA_Band_5_5M_CH4233_slot1

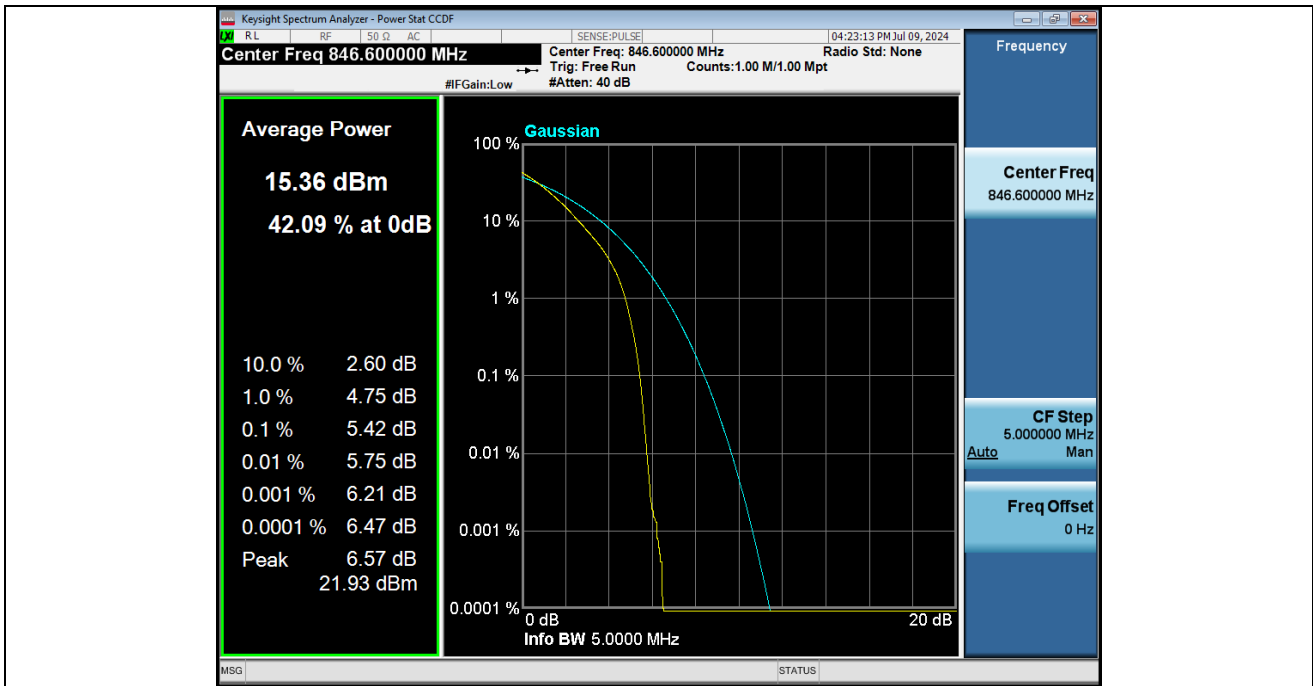


3. Peak to Average Ratio

Condition	Mode	Band	Frequency(MHz)	Sub	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	HSUPA	Band 5	826.4	1	5.01	13.00	Pass
NVNT	HSUPA	Band 5	836.6	1	5.35	13.00	Pass
NVNT	HSUPA	Band 5	846.6	1	5.42	13.00	Pass

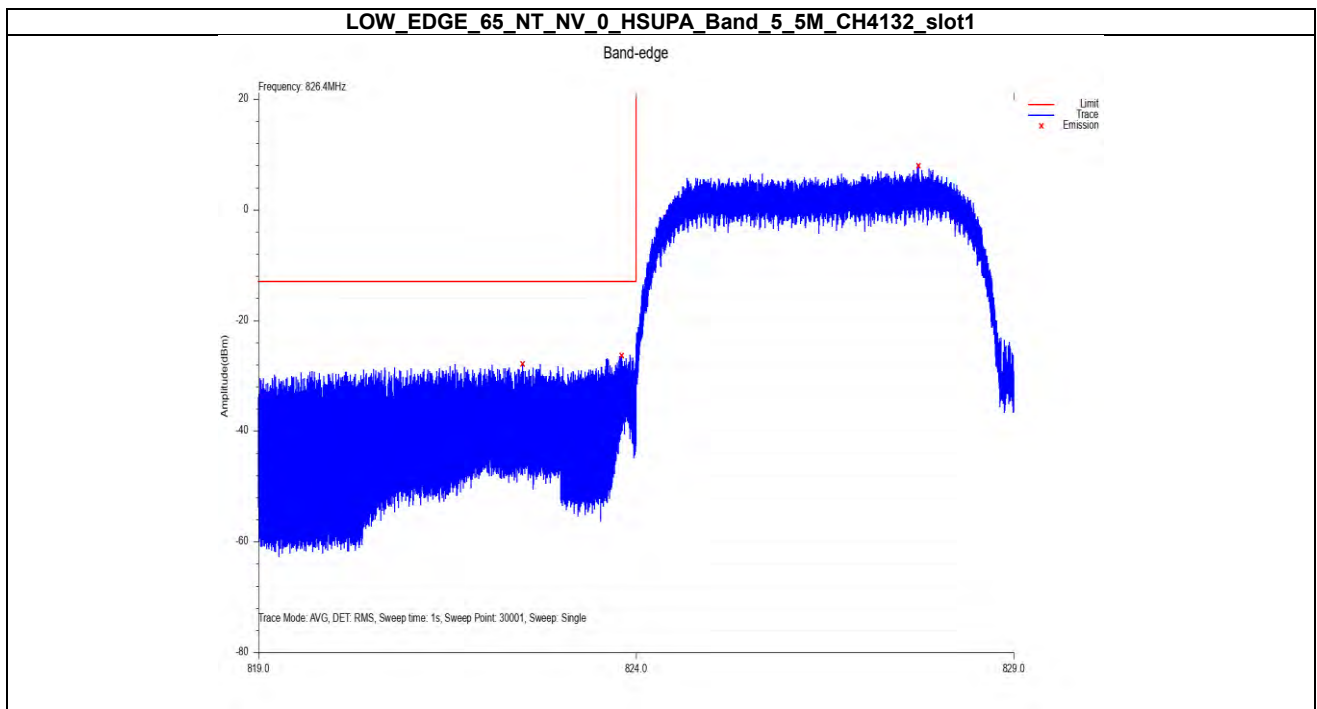


SA 65_NT_NV_0_HSUPA_Band_5_5M_CH4233_slot1



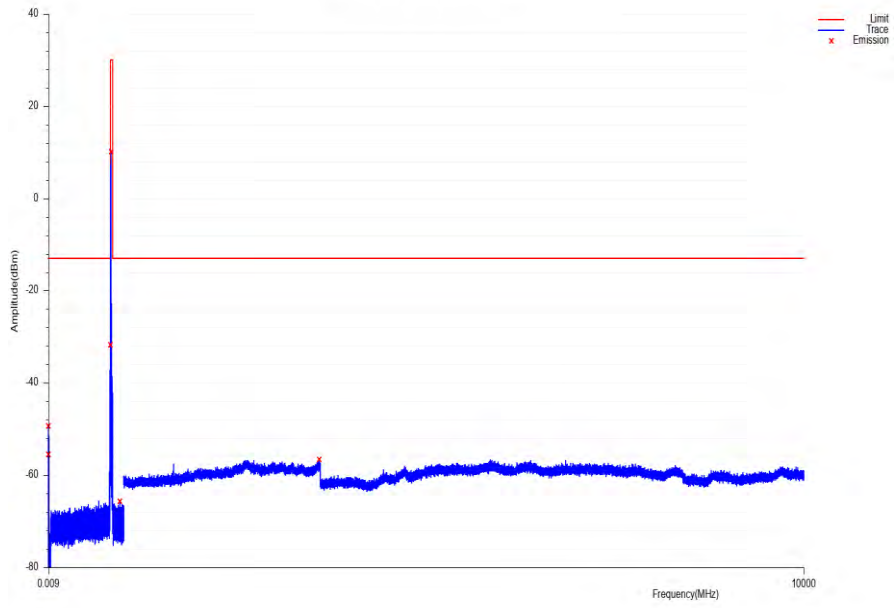
4. Unwanted Spurious Emission

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	822.494	-27.84	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	50.0	823.0~824.0	823.812	-26.30	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	1	0.009~0.150	0.099	-55.49	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	10	0.150~30.000	3.588	-49.36	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	100	30.000~819.000	818.579	-31.72	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	100	854.000~1000.000	948.944	-65.63	-13	Pass
NVNT	HSUPA	Band 5	826.40	1	1000	1000.000~10000.000	3583.900	-56.61	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	1	0.009~0.150	0.098	-54.96	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	10	0.150~30.000	3.480	-48.56	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	100	30.000~819.000	817.212	-60.66	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	100	854.000~1000.000	995.732	-65.58	-13	Pass
NVNT	HSUPA	Band 5	836.60	1	1000	1000.000~10000.000	2633.500	-56.53	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	50.0	849.0~850.0	849.113	-27.60	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	100	850.0~854.0	850.855	-28.78	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	1	0.009~0.150	0.098	-55.24	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	10	0.150~30.000	3.643	-47.63	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	100	30.000~819.000	812.241	-54.34	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	100	854.000~1000.000	854.647	-55.78	-13	Pass
NVNT	HSUPA	Band 5	846.60	1	1000	1000.000~10000.000	5770.900	-56.75	-13	Pass



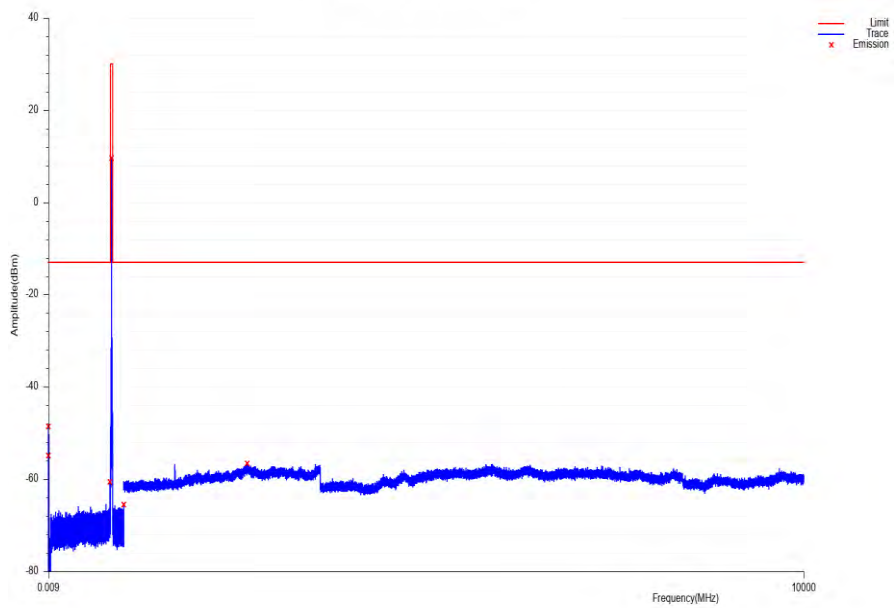
SA_65_NT_NV_0_HSUPA_Band_5_5M_CH4132_slot1

Unwanted spurious emissions

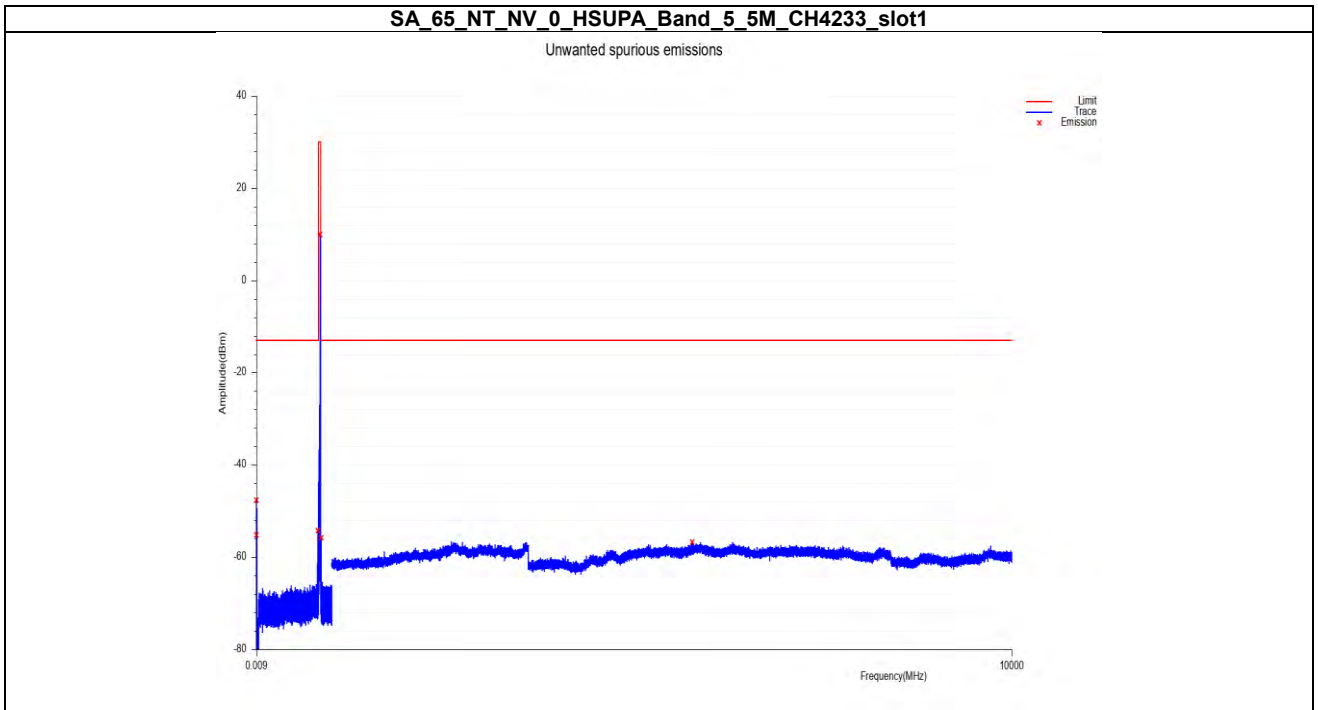
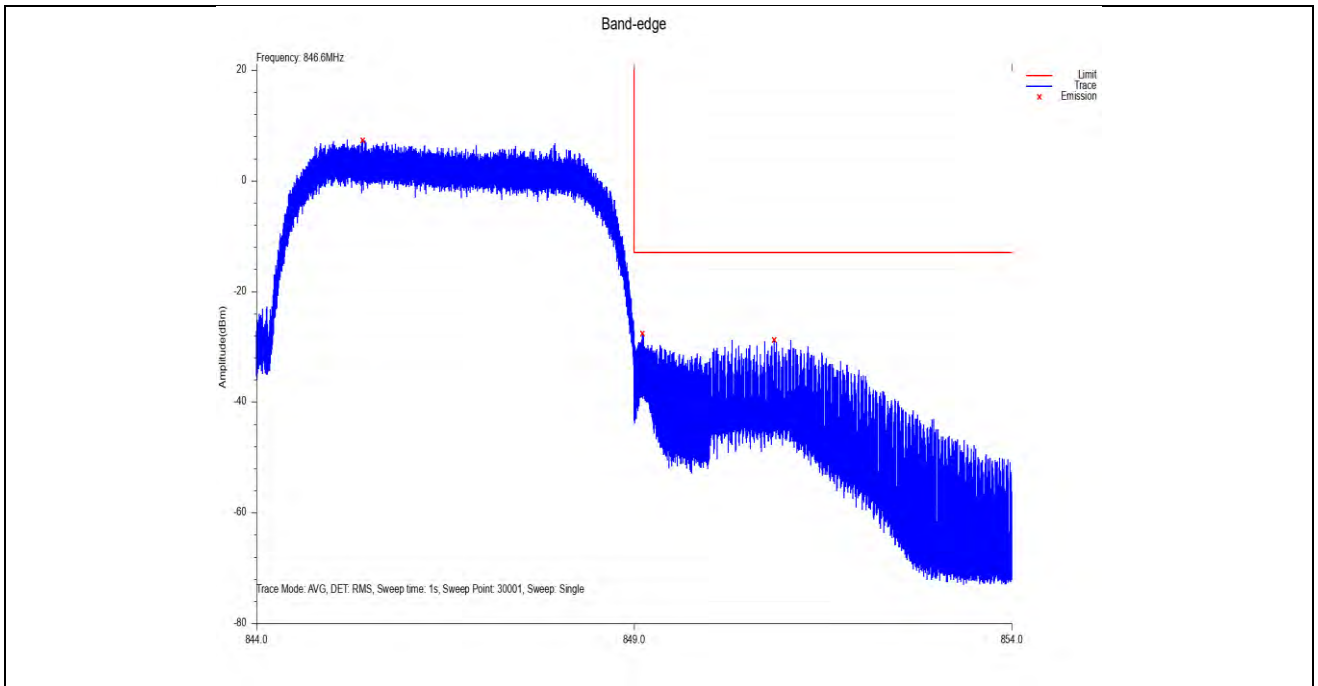


SA_65_NT_NV_0_HSUPA_Band_5_5M_CH4183_slot1

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	3.3	HSUPA	Band 5	826.4	1	0.0072	-2.50	2.50	Pass
-30	3.3	HSUPA	Band 5	836.6	1	0.0081	-2.50	2.50	Pass
-30	3.3	HSUPA	Band 5	846.6	1	0.0098	-2.50	2.50	Pass
-30	3.8	HSUPA	Band 5	826.4	1	0.0088	-2.50	2.50	Pass
-30	3.8	HSUPA	Band 5	836.6	1	0.0030	-2.50	2.50	Pass
-30	3.8	HSUPA	Band 5	846.6	1	0.0064	-2.50	2.50	Pass
-30	4.2	HSUPA	Band 5	826.4	1	0.0080	-2.50	2.50	Pass
-30	4.2	HSUPA	Band 5	836.6	1	0.0043	-2.50	2.50	Pass
-30	4.2	HSUPA	Band 5	846.6	1	0.0077	-2.50	2.50	Pass
-20	3.3	HSUPA	Band 5	826.4	1	0.0066	-2.50	2.50	Pass
-20	3.3	HSUPA	Band 5	836.6	1	0.0069	-2.50	2.50	Pass
-20	3.3	HSUPA	Band 5	846.6	1	0.0094	-2.50	2.50	Pass
-20	3.8	HSUPA	Band 5	826.4	1	0.0053	-2.50	2.50	Pass
-20	3.8	HSUPA	Band 5	836.6	1	0.0048	-2.50	2.50	Pass
-20	3.8	HSUPA	Band 5	846.6	1	0.0070	-2.50	2.50	Pass
-20	4.2	HSUPA	Band 5	826.4	1	0.0094	-2.50	2.50	Pass
-20	4.2	HSUPA	Band 5	836.6	1	0.0064	-2.50	2.50	Pass
-20	4.2	HSUPA	Band 5	846.6	1	0.0075	-2.50	2.50	Pass
-10	3.3	HSUPA	Band 5	826.4	1	0.0068	-2.50	2.50	Pass
-10	3.3	HSUPA	Band 5	836.6	1	0.0053	-2.50	2.50	Pass
-10	3.3	HSUPA	Band 5	846.6	1	0.0060	-2.50	2.50	Pass
-10	3.8	HSUPA	Band 5	826.4	1	0.0079	-2.50	2.50	Pass
-10	3.8	HSUPA	Band 5	836.6	1	0.0020	-2.50	2.50	Pass
-10	3.8	HSUPA	Band 5	846.6	1	0.0096	-2.50	2.50	Pass
-10	4.2	HSUPA	Band 5	826.4	1	0.0059	-2.50	2.50	Pass
-10	4.2	HSUPA	Band 5	836.6	1	0.0048	-2.50	2.50	Pass
-10	4.2	HSUPA	Band 5	846.6	1	0.0058	-2.50	2.50	Pass
0	3.3	HSUPA	Band 5	826.4	1	0.0040	-2.50	2.50	Pass
0	3.3	HSUPA	Band 5	836.6	1	0.0081	-2.50	2.50	Pass
0	3.3	HSUPA	Band 5	846.6	1	0.0077	-2.50	2.50	Pass
0	3.8	HSUPA	Band 5	826.4	1	0.0056	-2.50	2.50	Pass
0	3.8	HSUPA	Band 5	836.6	1	0.0094	-2.50	2.50	Pass
0	3.8	HSUPA	Band 5	846.6	1	0.0073	-2.50	2.50	Pass
0	4.2	HSUPA	Band	826.4	1	0.0030	-2.50	2.50	Pass

			5						
0	4.2	HSUPA	Band 5	836.6	1	0.0071	-2.50	2.50	Pass
0	4.2	HSUPA	Band 5	846.6	1	0.0083	-2.50	2.50	Pass
10	3.3	HSUPA	Band 5	826.4	1	0.0055	-2.50	2.50	Pass
10	3.3	HSUPA	Band 5	836.6	1	0.0073	-2.50	2.50	Pass
10	3.3	HSUPA	Band 5	846.6	1	0.0081	-2.50	2.50	Pass
10	3.8	HSUPA	Band 5	826.4	1	0.0104	-2.50	2.50	Pass
10	3.8	HSUPA	Band 5	836.6	1	0.0037	-2.50	2.50	Pass
10	3.8	HSUPA	Band 5	846.6	1	0.0073	-2.50	2.50	Pass
10	4.2	HSUPA	Band 5	826.4	1	0.0072	-2.50	2.50	Pass
10	4.2	HSUPA	Band 5	836.6	1	0.0058	-2.50	2.50	Pass
10	4.2	HSUPA	Band 5	846.6	1	0.0055	-2.50	2.50	Pass
20	3.3	HSUPA	Band 5	826.4	1	0.0047	-2.50	2.50	Pass
20	3.3	HSUPA	Band 5	836.6	1	0.0107	-2.50	2.50	Pass
20	3.3	HSUPA	Band 5	846.6	1	0.0092	-2.50	2.50	Pass
20	3.8	HSUPA	Band 5	826.4	1	0.0061	-2.50	2.50	Pass
20	3.8	HSUPA	Band 5	836.6	1	0.0061	-2.50	2.50	Pass
20	3.8	HSUPA	Band 5	846.6	1	0.0045	-2.50	2.50	Pass
20	4.2	HSUPA	Band 5	826.4	1	0.0049	-2.50	2.50	Pass
20	4.2	HSUPA	Band 5	836.6	1	0.0091	-2.50	2.50	Pass
20	4.2	HSUPA	Band 5	846.6	1	0.0057	-2.50	2.50	Pass
30	3.3	HSUPA	Band 5	826.4	1	0.0057	-2.50	2.50	Pass
30	3.3	HSUPA	Band 5	836.6	1	0.0060	-2.50	2.50	Pass
30	3.3	HSUPA	Band 5	846.6	1	0.0069	-2.50	2.50	Pass
30	3.8	HSUPA	Band 5	826.4	1	0.0074	-2.50	2.50	Pass
30	3.8	HSUPA	Band 5	836.6	1	0.0045	-2.50	2.50	Pass
30	3.8	HSUPA	Band 5	846.6	1	0.0100	-2.50	2.50	Pass
30	4.2	HSUPA	Band 5	826.4	1	0.0057	-2.50	2.50	Pass
30	4.2	HSUPA	Band 5	836.6	1	0.0084	-2.50	2.50	Pass
30	4.2	HSUPA	Band 5	846.6	1	0.0100	-2.50	2.50	Pass
40	3.3	HSUPA	Band 5	826.4	1	0.0067	-2.50	2.50	Pass
40	3.3	HSUPA	Band 5	836.6	1	0.0081	-2.50	2.50	Pass
40	3.3	HSUPA	Band 5	846.6	1	0.0070	-2.50	2.50	Pass
40	3.8	HSUPA	Band 5	826.4	1	0.0053	-2.50	2.50	Pass
40	3.8	HSUPA	Band 5	836.6	1	0.0053	-2.50	2.50	Pass
40	3.8	HSUPA	Band 5	846.6	1	0.0076	-2.50	2.50	Pass
40	4.2	HSUPA	Band 5	826.4	1	0.0024	-2.50	2.50	Pass
40	4.2	HSUPA	Band 5	836.6	1	0.0080	-2.50	2.50	Pass
40	4.2	HSUPA	Band 5	846.6	1	0.0076	-2.50	2.50	Pass

50	3.3	HSUPA	Band 5	826.4	1	0.0069	-2.50	2.50	Pass
50	3.3	HSUPA	Band 5	836.6	1	0.0087	-2.50	2.50	Pass
50	3.3	HSUPA	Band 5	846.6	1	0.0083	-2.50	2.50	Pass
50	3.8	HSUPA	Band 5	826.4	1	0.0084	-2.50	2.50	Pass
50	3.8	HSUPA	Band 5	836.6	1	0.0083	-2.50	2.50	Pass
50	3.8	HSUPA	Band 5	846.6	1	0.0082	-2.50	2.50	Pass
50	4.2	HSUPA	Band 5	826.4	1	0.0045	-2.50	2.50	Pass
50	4.2	HSUPA	Band 5	836.6	1	0.0095	-2.50	2.50	Pass
50	4.2	HSUPA	Band 5	846.6	1	0.0075	-2.50	2.50	Pass