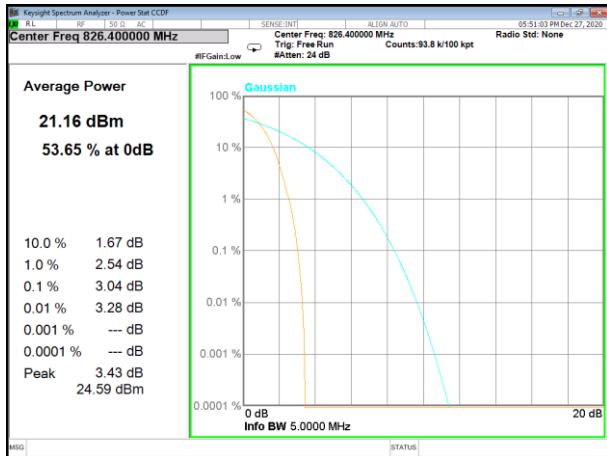
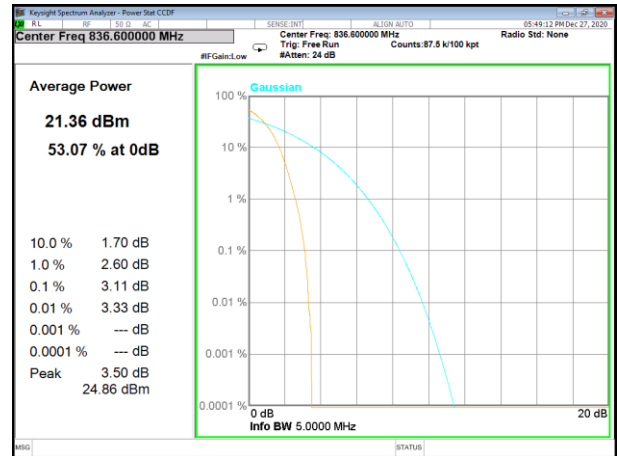
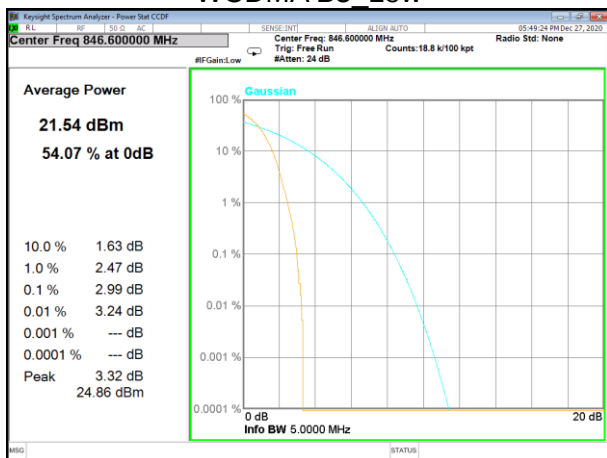




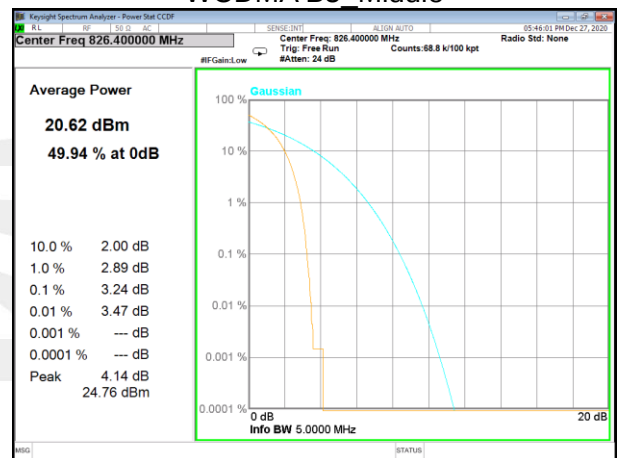
WCDMA B5_Low



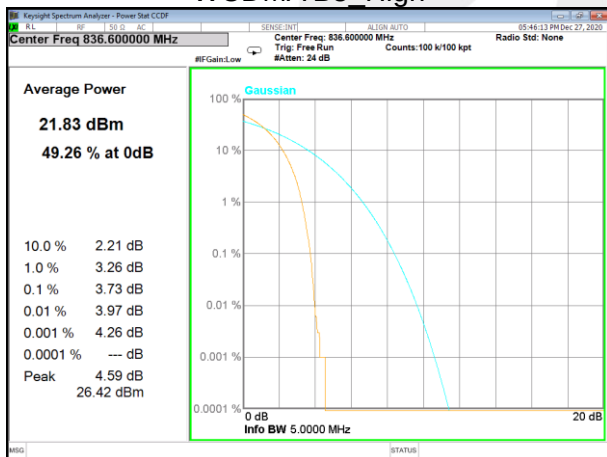
WCDMA B5_Middle



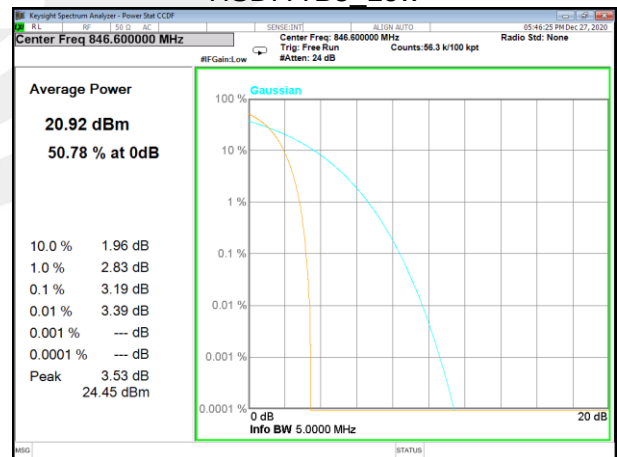
WCDMA B5_High



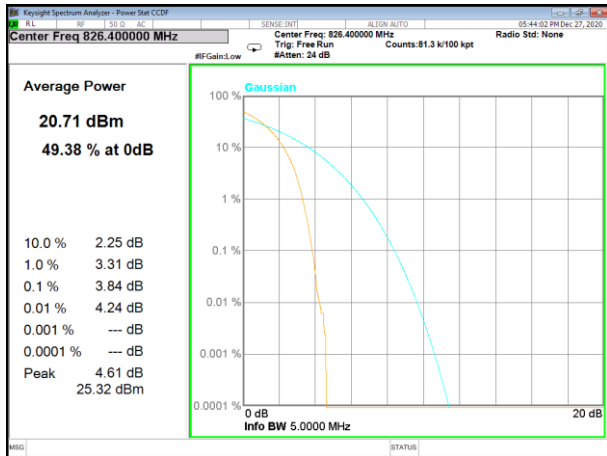
HSDPA B5_Low



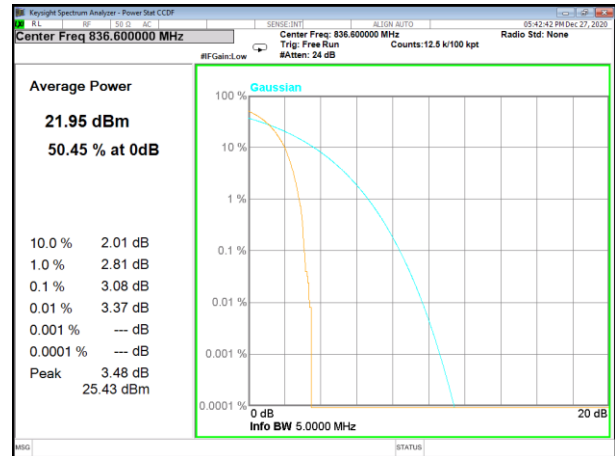
HSDPA B5_Middle



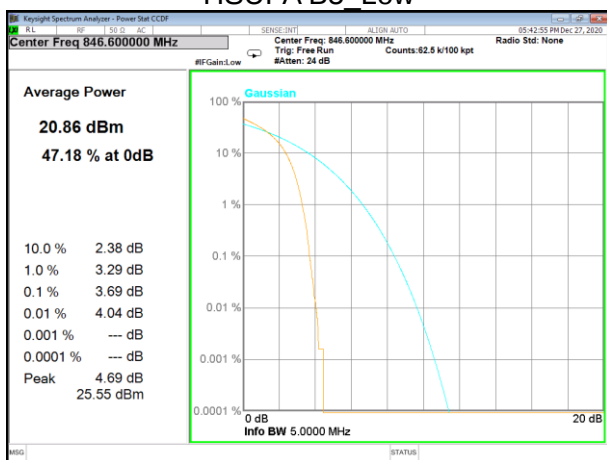
HSDPA B5_High



HSPA B5_Low



HSPA B5_Middle



HSPA B5_High



A3. TRANSMITTER RADIATED POWER (EIRP/ERP)

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst

Radiated Power (ERP) for GSM 850 MHZ								
Mode	Frequency	Result						Conclusion
		S G.Level (dBm)	Cable loss	Gain(dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
GSM850	824.2	24.16	0.44	6.5	2.15	28.07	Horizontal	Pass
	824.2	25.88	0.44	6.5	2.15	29.79	Vertical	Pass
	836.6	24.28	0.45	6.5	2.15	28.18	Horizontal	Pass
	836.6	26.17	0.45	6.5	2.15	30.07	Vertical	Pass
	848.8	24.37	0.46	6.5	2.15	28.26	Horizontal	Pass
	848.8	26.28	0.46	6.5	2.15	30.17	Vertical	Pass
GPRS850	824.2	23.34	0.44	6.5	2.15	27.25	Horizontal	Pass
	824.2	25.74	0.44	6.5	2.15	29.65	Vertical	Pass
	836.6	23.31	0.45	6.5	2.15	27.21	Horizontal	Pass
	836.6	25.39	0.45	6.5	2.15	29.29	Vertical	Pass
	848.8	23.57	0.46	6.5	2.15	27.46	Horizontal	Pass
	848.8	25.88	0.46	6.5	2.15	29.77	Vertical	Pass
EGPRS850	824.2	23.29	0.44	6.5	2.15	27.20	Horizontal	Pass
	824.2	25.45	0.44	6.5	2.15	29.36	Vertical	Pass
	836.6	23.13	0.45	6.5	2.15	27.03	Horizontal	Pass
	836.6	25.37	0.45	6.5	2.15	29.27	Vertical	Pass
	848.8	23.26	0.46	6.5	2.15	27.15	Horizontal	Pass
	848.8	25.69	0.46	6.5	2.15	29.58	Vertical	Pass
Limit	ERP<7W=38.45dBm							

Radiated Power (EIRP) for PCS 1900 MHZ							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
PCS1900	1850.2	17.69	2.41	10.35	25.63	Horizontal	Pass
	1850.2	19.39	2.41	10.35	27.33	Vertical	Pass
	1880	17.14	2.42	10.35	25.07	Horizontal	Pass
	1880	18.98	2.42	10.35	26.91	Vertical	Pass
	1909.8	16.93	2.43	10.35	24.85	Horizontal	Pass
	1909.8	18.84	2.43	10.35	26.76	Vertical	Pass
GPRS1900	1850.2	16.08	2.41	10.35	24.02	Horizontal	Pass
	1850.2	18.36	2.41	10.35	26.30	Vertical	Pass
	1880	16.1	2.42	10.35	24.03	Horizontal	Pass
	1880	18.27	2.42	10.35	26.20	Vertical	Pass
	1909.8	16.31	2.43	10.35	24.23	Horizontal	Pass
	1909.8	18.64	2.43	10.35	26.56	Vertical	Pass
EGPRS1900	1850.2	16.01	2.41	10.35	23.95	Horizontal	Pass
	1850.2	18.32	2.41	10.35	26.26	Vertical	Pass
	1880	16.42	2.42	10.35	24.35	Horizontal	Pass
	1880	18.67	2.42	10.35	26.60	Vertical	Pass
	1909.8	16.37	2.43	10.35	24.29	Horizontal	Pass
	1909.8	18.56	2.43	10.35	26.48	Vertical	Pass
Limit	EIRP<2W=33dBm						



Radiated Power (EIRP) for WCDMA Band 2							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
WCDMA	1852.4	11.49	2.41	10.35	19.43	Horizontal	Pass
	1852.4	13.2	2.41	10.35	21.14	Vertical	Pass
	1880	10.82	2.42	10.35	18.75	Horizontal	Pass
	1880	12.77	2.42	10.35	20.70	Vertical	Pass
	1907.4	11.07	2.43	10.35	18.99	Horizontal	Pass
	1907.4	12.98	2.43	10.35	20.90	Vertical	Pass
HSUPA	1852.4	10.4	2.41	10.35	18.34	Horizontal	Pass
	1852.4	12.34	2.41	10.35	20.28	Vertical	Pass
	1880	10.52	2.42	10.35	18.45	Horizontal	Pass
	1880	12.47	2.42	10.35	20.40	Vertical	Pass
	1907.4	10.54	2.43	10.35	18.46	Horizontal	Pass
	1907.4	12.42	2.43	10.35	20.34	Vertical	Pass
HSDPA	1852.4	10.27	2.41	10.35	18.21	Horizontal	Pass
	1852.4	12.26	2.41	10.35	20.20	Vertical	Pass
	1880	10.36	2.42	10.35	18.29	Horizontal	Pass
	1880	12.22	2.42	10.35	20.15	Vertical	Pass
	1907.4	10.47	2.43	10.35	18.39	Horizontal	Pass
	1907.4	12.39	2.43	10.35	20.31	Vertical	Pass
Limit	EIRP<2W=33dBm						

Radiated Power (ERP) for WCDMA Band 5								
Mode	Frequency	Result						Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
WCDMA	826.4	14.54	0.44	6.5	2.15	18.45	Horizontal	Pass
	826.4	16.27	0.44	6.5	2.15	20.18	Vertical	Pass
	836.6	15.00	0.45	6.5	2.15	18.90	Horizontal	Pass
	836.6	16.74	0.45	6.5	2.15	20.64	Vertical	Pass
	846.4	14.80	0.46	6.5	2.15	18.69	Horizontal	Pass
	846.4	16.75	0.46	6.5	2.15	20.64	Vertical	Pass
HSUPA	826.4	13.93	0.44	6.5	2.15	17.84	Horizontal	Pass
	826.4	15.85	0.44	6.5	2.15	19.76	Vertical	Pass
	836.6	14.07	0.45	6.5	2.15	17.97	Horizontal	Pass
	836.6	15.85	0.45	6.5	2.15	19.75	Vertical	Pass
	846.4	14.12	0.46	6.5	2.15	18.01	Horizontal	Pass
	846.4	16.09	0.46	6.5	2.15	19.98	Vertical	Pass
HSDPA	826.4	13.89	0.44	6.5	2.15	17.80	Horizontal	Pass
	826.4	15.76	0.44	6.5	2.15	19.67	Vertical	Pass
	836.6	14.16	0.45	6.5	2.15	18.06	Horizontal	Pass
	836.6	16.03	0.45	6.5	2.15	19.93	Vertical	Pass
	846.4	13.97	0.46	6.5	2.15	17.86	Horizontal	Pass
	846.4	15.89	0.46	6.5	2.15	19.78	Vertical	Pass
Limit	ERP<7W=38.45dBm							



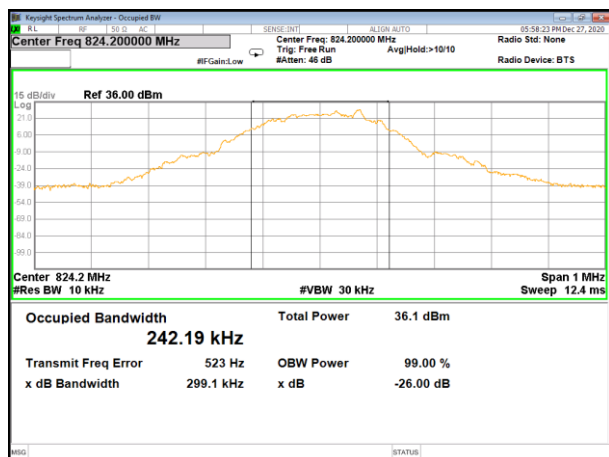
A4. OCCUPIED BANDWIDTH (99% OCCUPIED BANDWIDTH/26dB BANDWIDTH)

GSM Bandwidth [KHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
GSM850	242.19	299.1	240.61	304.1	241.98	304.8
GPRS850	243.93	313.7	245.43	321.3	244.64	325.2
EGPRS850	238.25	299.9	235.62	301.6	246.28	314.7

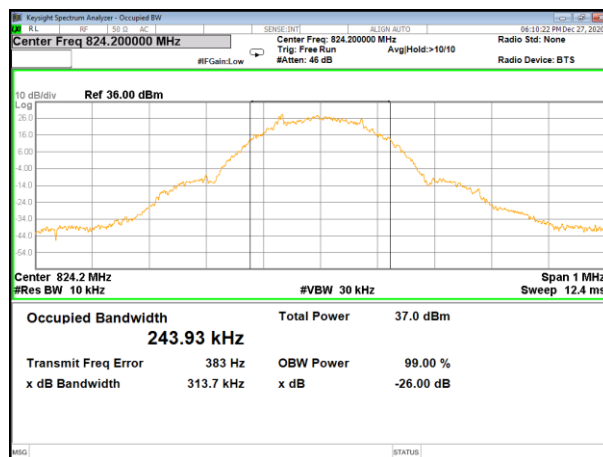
GSM Bandwidth [KHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
GSM1900	245.98	304.8	243.84	306.6	244.64	303.7
GPRS1900	246.83	313.2	243.99	313.2	249.54	318.1
EGPRS1900	242.46	306.6	246.17	313	240.94	298.5

WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA 2	4.14	4.636	4.148	4.635	4.145	4.651
HSDPA 2	4.147	4.642	4.147	4.635	4.1475	4.636
HSUPA 2	4.156	4.632	4.142	4.635	4.1292	4.641

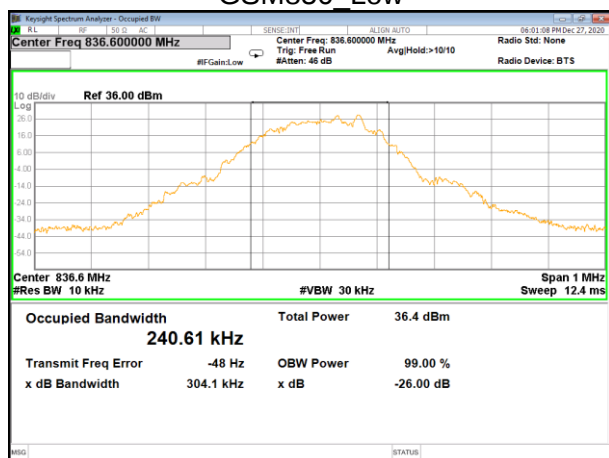
WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA 5	4.149	4.631	4.141	4.637	4.1509	4.647
HSDPA 5	4.14	4.641	4.147	4.639	4.152	4.645
HSUPA 5	4.151	4.635	4.145	4.636	4.146	4.648



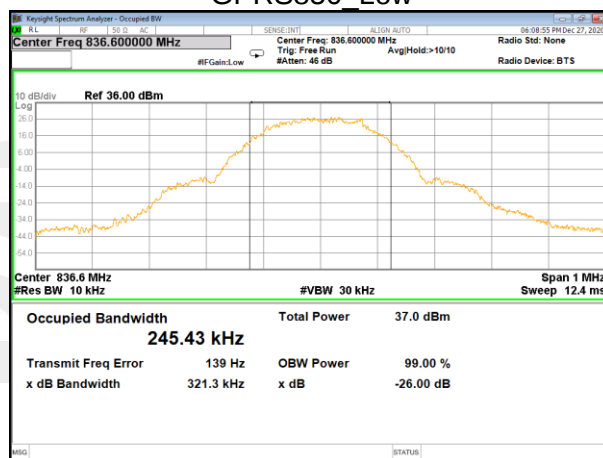
GSM850_Low



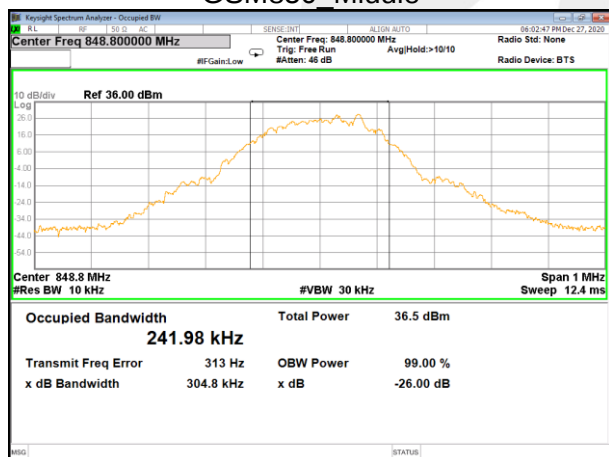
GPRS850_Low



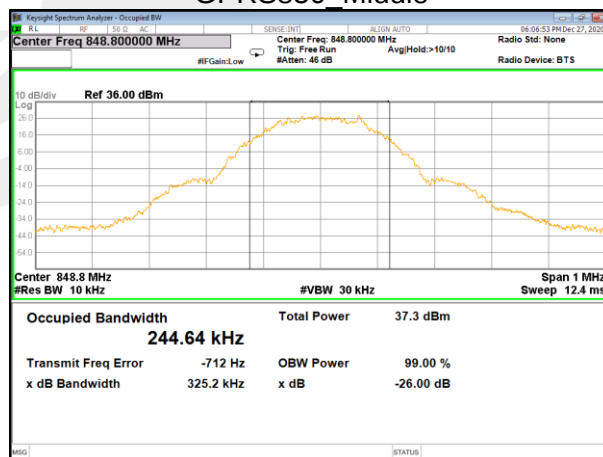
GSM850_Middle



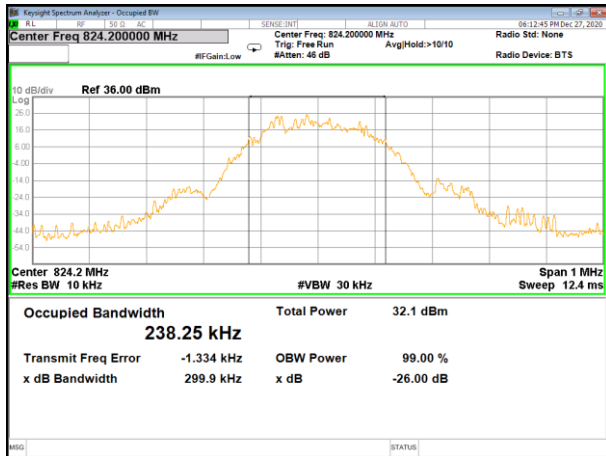
GPRS850_Middle



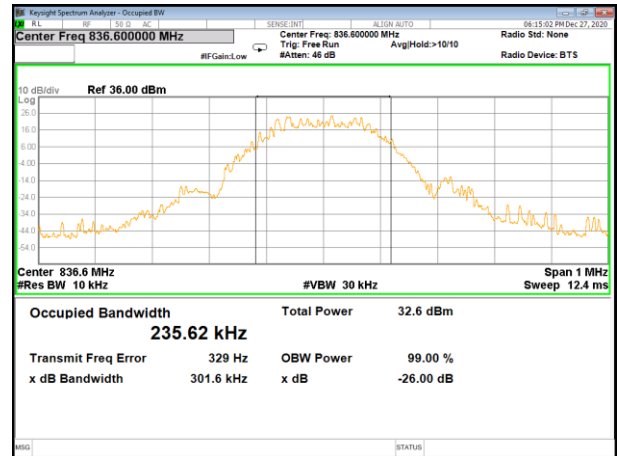
GSM850_High



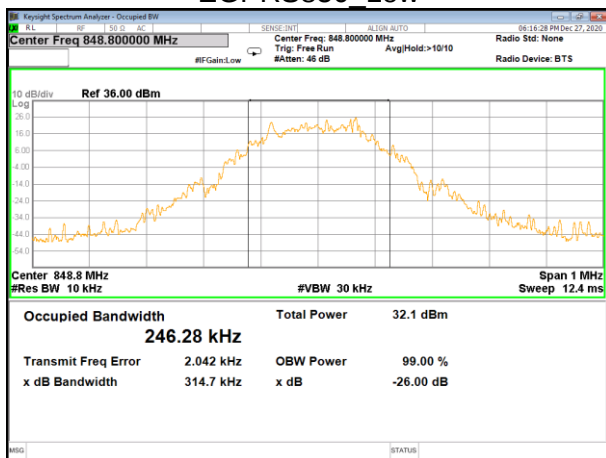
GPRS850_High



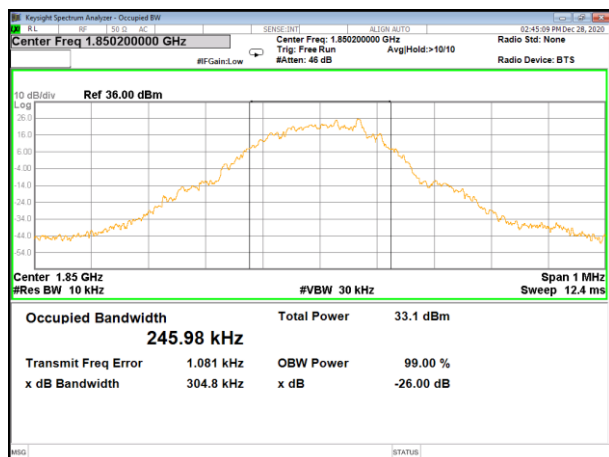
EGPRS850_Low



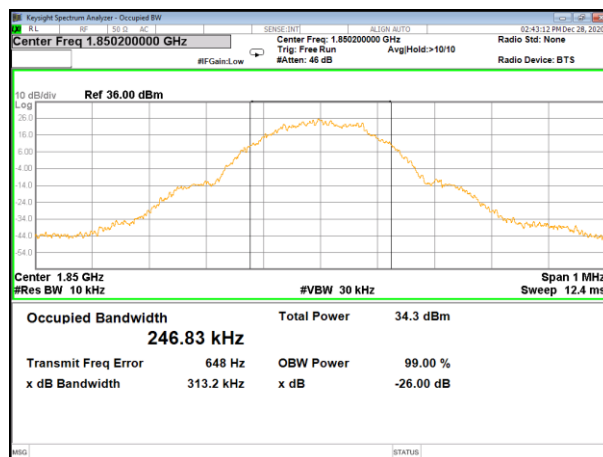
EGPRS850_Middle



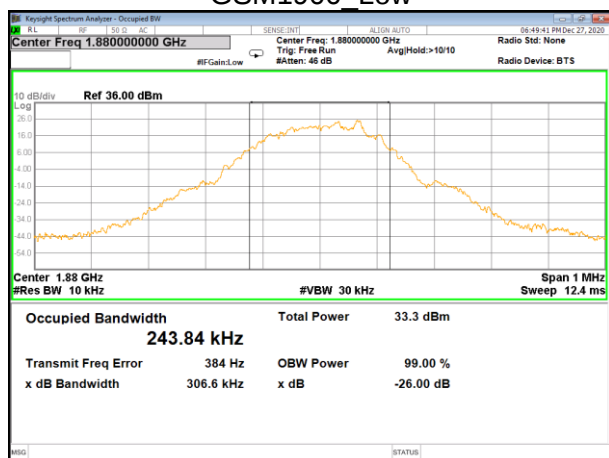
EGPRS850_High



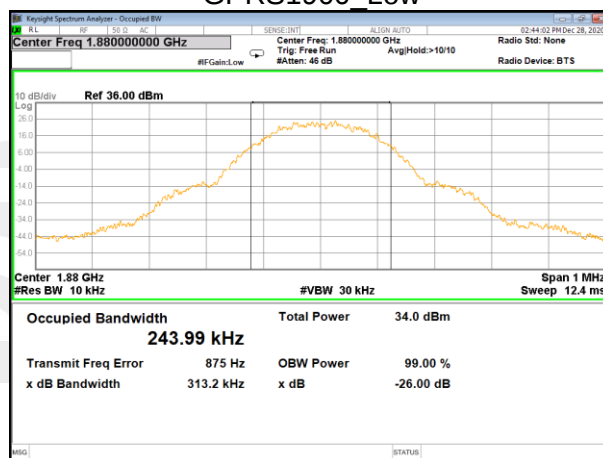
GSM1900_Low



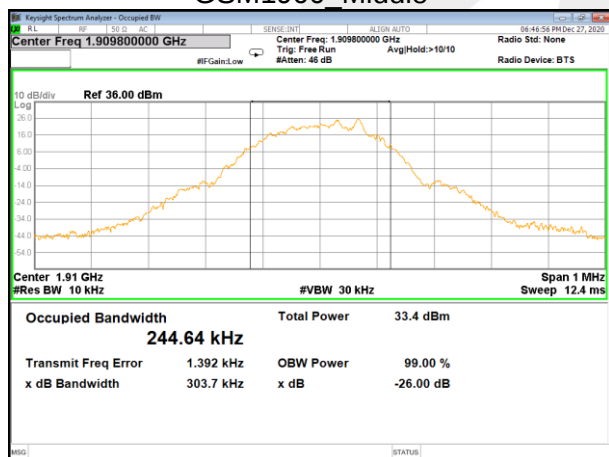
GPRS1900_Low



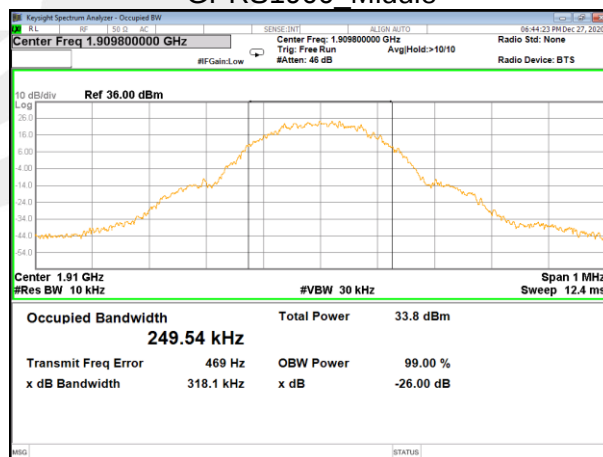
GSM1900_Middle



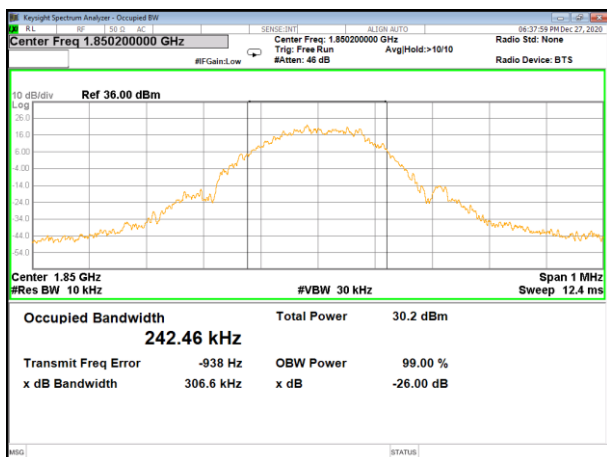
GPRS1900_Middle



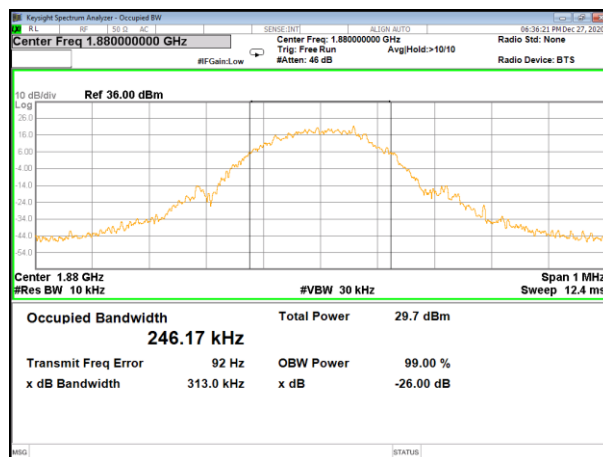
GSM1900_High



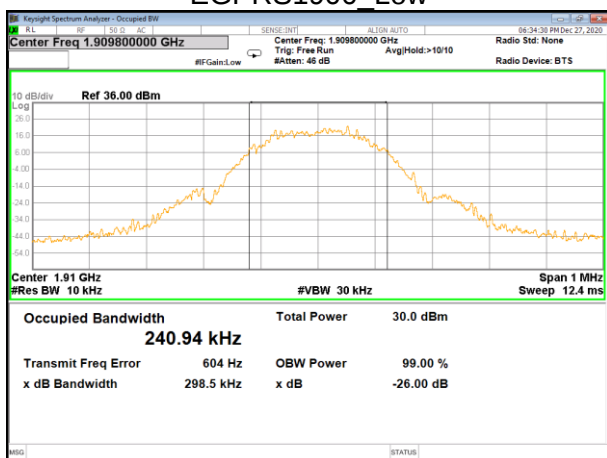
GPRS1900_High



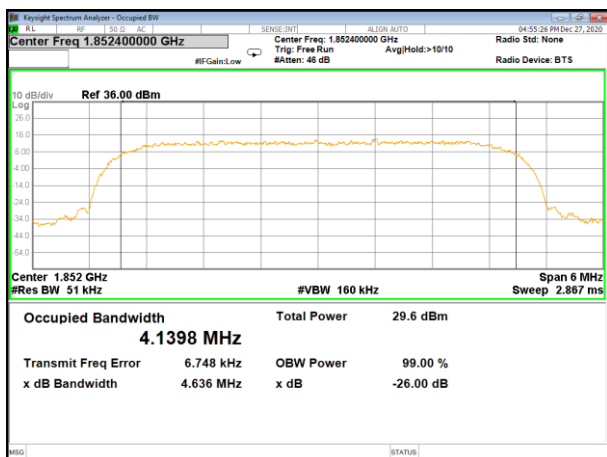
EGPRS1900_Low



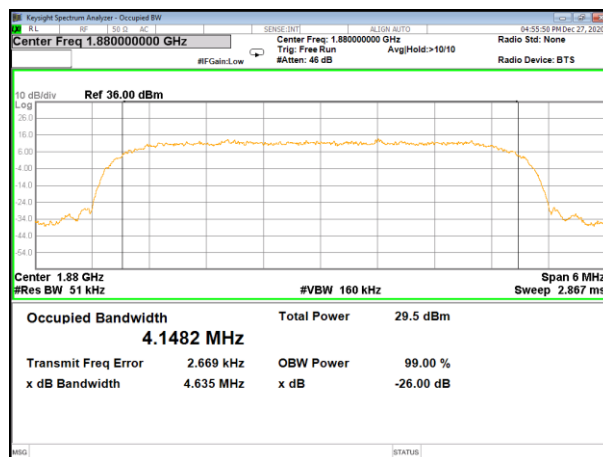
EGPRS1900_Middle



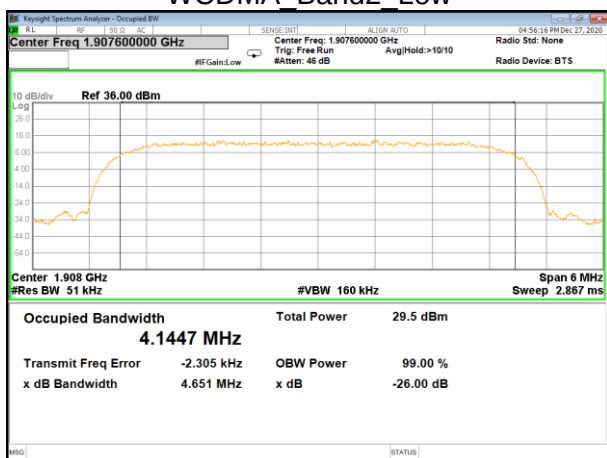
EGPRS1900_High



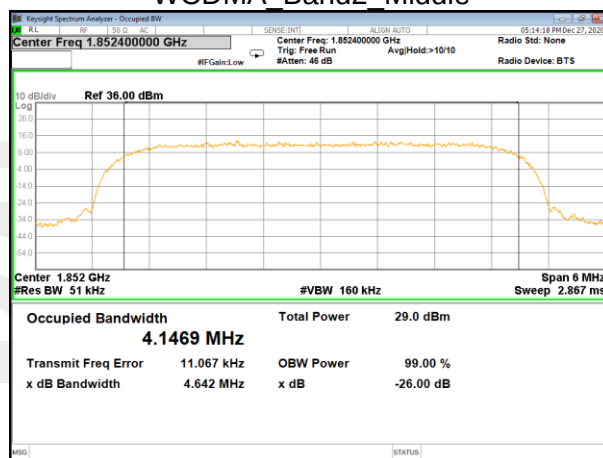
WCDMA Band2 Low



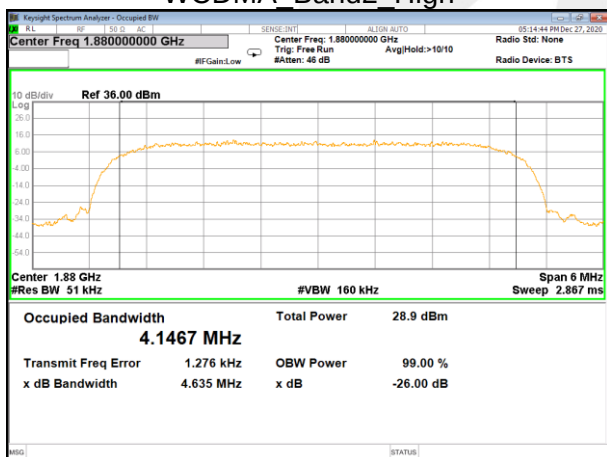
WCDMA Band2 Middle



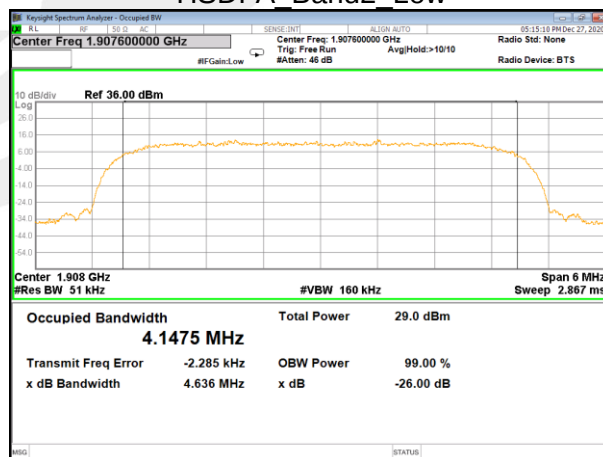
WCDMA Band2 High



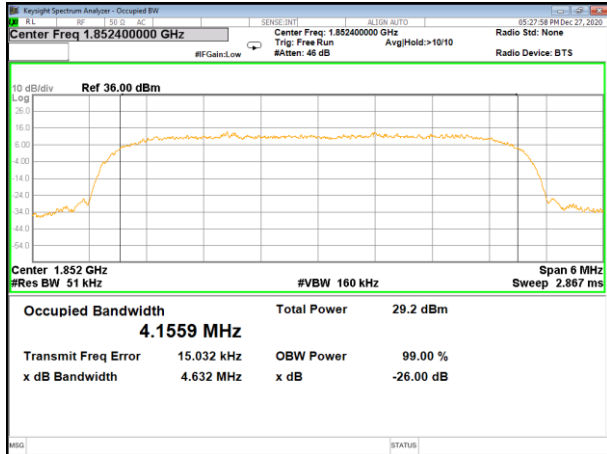
HSDPA Band2 Low



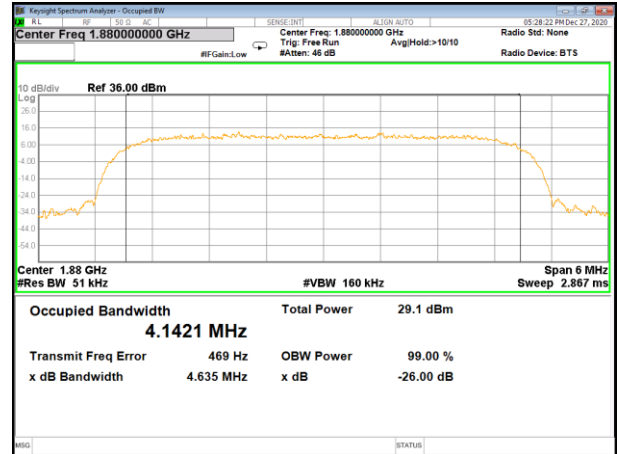
HSDPA_Band2_Middle



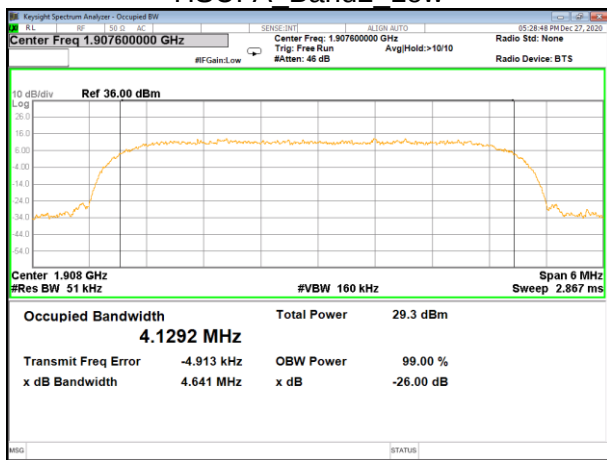
HSDPA_Band2_High



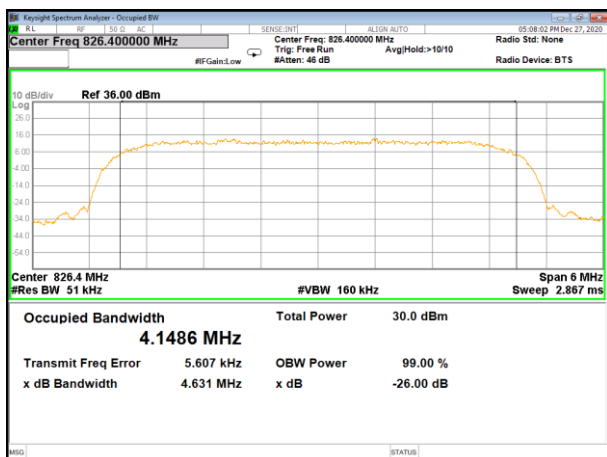
HSUPA_Band2_Low



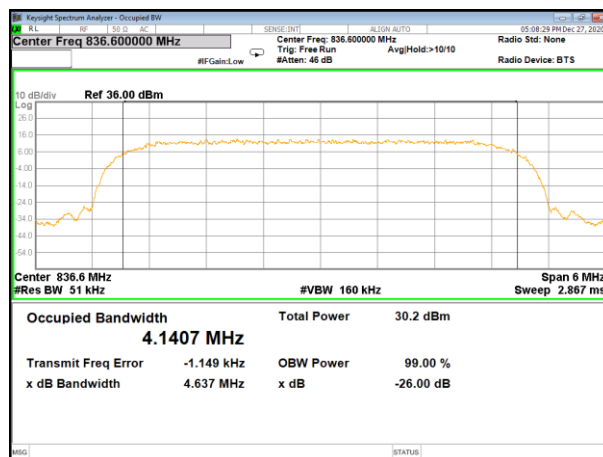
HSUPA_Band2_Middle



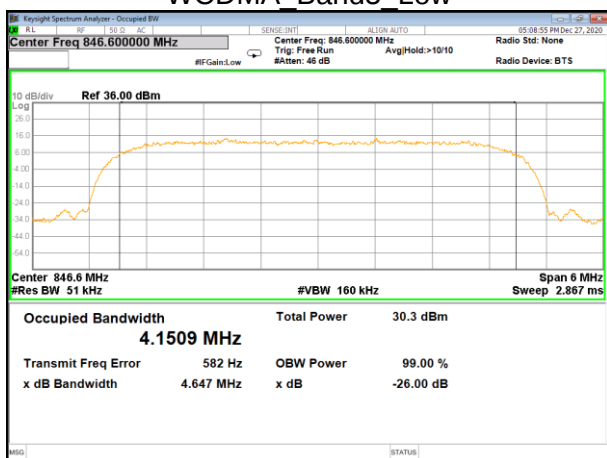
HSUPA_Band2_High



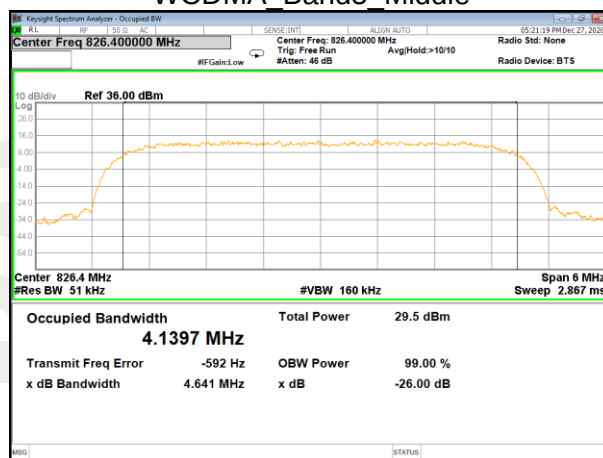
WCDMA Band5 Low



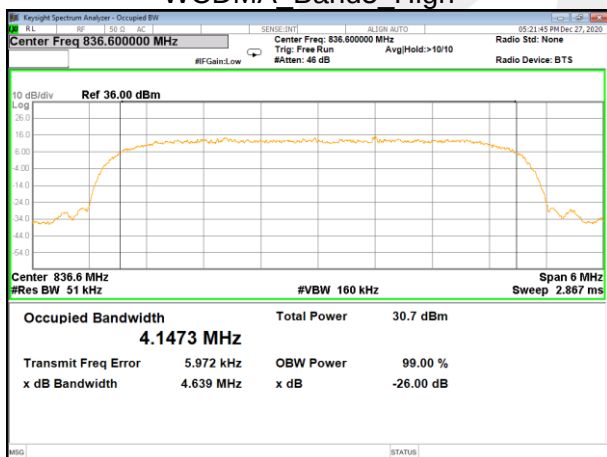
WCDMA Band5 Middle



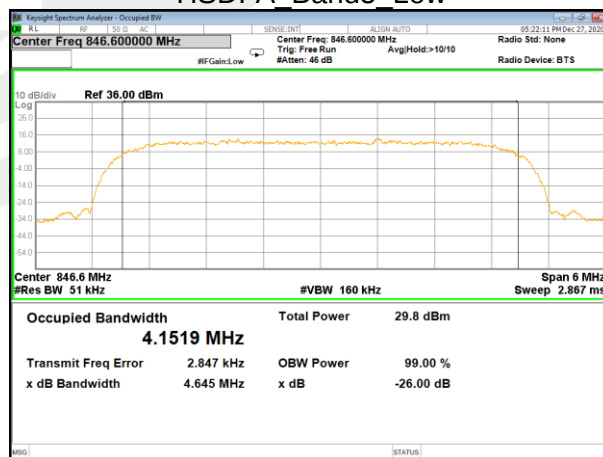
WCDMA Band5 High



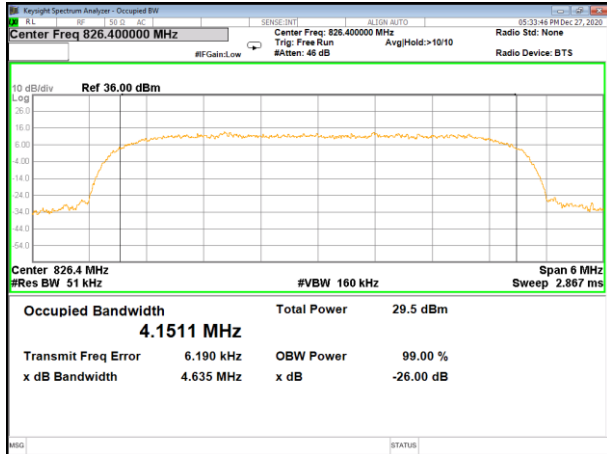
HSDPA Band5 Low



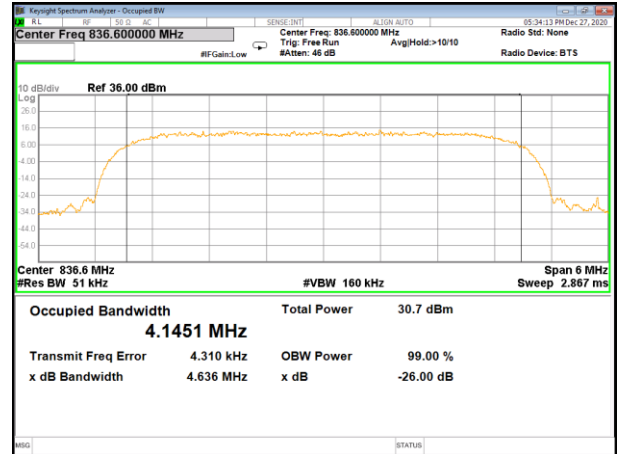
HSDPA_Band5_Middle



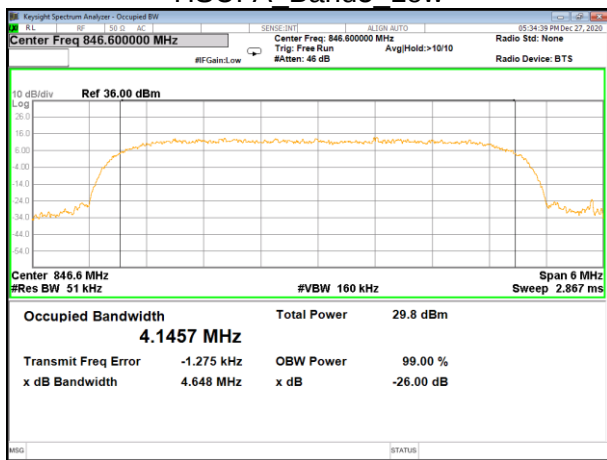
HSDPA_Band5_High



HSUPA_Band5_Low



HSUPA_Band5_Middle



HSUPA_Band5_High



A5. FREQUENCY STABILITY

Normal Voltage = 3.7V; Battery End Point (BEP) = 4.2V; Maximum Voltage = 3.5V

GSM 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	21.29	0.025	2.5ppm	PASS
40		24.84	0.030		
30		15.76	0.019		
20		34.18	0.041		
10		12.05	0.014		
0		34.52	0.041		
-10		35.69	0.043		
-20		29.92	0.036		
-30		24.83	0.030		
20	Maximum Voltage	12.04	0.014		
20	BEP	25.21	0.030		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	23.21	0.028	2.5ppm	PASS
40		20.03	0.024		
30		17.87	0.021		
20		17.48	0.021		
10		26.32	0.031		
0		19.60	0.023		
-10		23.43	0.028		
-20		30.61	0.037		
-30		33.83	0.040		
20	Maximum Voltage	30.03	0.036		
20	BEP	31.60	0.038		

EGPRS 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	30.83	0.037	2.5ppm	PASS
40		27.71	0.033		
30		13.42	0.016		
20		35.90	0.043		
10		13.54	0.016		
0		33.72	0.040		
-10		27.97	0.033		
-20		14.36	0.017		
-30		24.48	0.029		
20	Maximum Voltage	30.29	0.036		
20	BEP	32.42	0.039		



GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	33.40	0.018	Within Authorized Band	PASS
40		28.04	0.015		
30		16.11	0.009		
20		23.99	0.013		
10		30.37	0.016		
0		17.55	0.009		
-10		27.71	0.015		
-20		28.02	0.015		
-30		13.14	0.007		
20	Maximum Voltage	29.41	0.016		
20	BEP	16.64	0.009		

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	35.61	0.019	Within Authorized Band	PASS
40		20.43	0.011		
30		29.61	0.016		
20		19.27	0.010		
10		33.29	0.018		
0		24.95	0.013		
-10		29.26	0.016		
-20		21.86	0.012		
-30		22.79	0.012		
20	Maximum Voltage	12.34	0.007		
20	BEP	20.50	0.011		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	33.05	0.018	Within Authorized Band	PASS
40		20.98	0.011		
30		34.57	0.018		
20		13.37	0.007		
10		12.19	0.006		
0		28.53	0.015		
-10		16.20	0.009		
-20		11.88	0.006		
-30		30.01	0.016		
20	Maximum Voltage	19.27	0.010		
20	BEP	16.34	0.009		