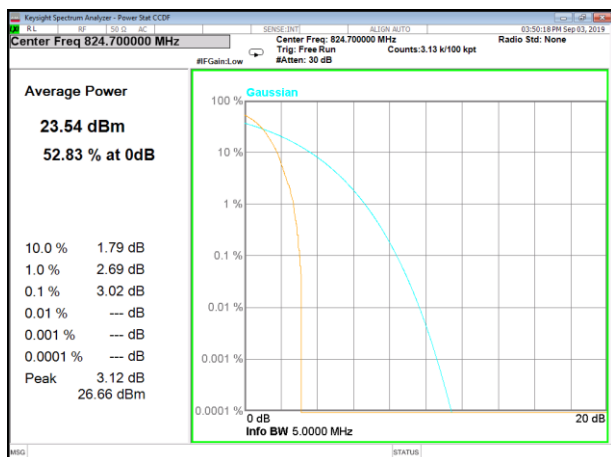
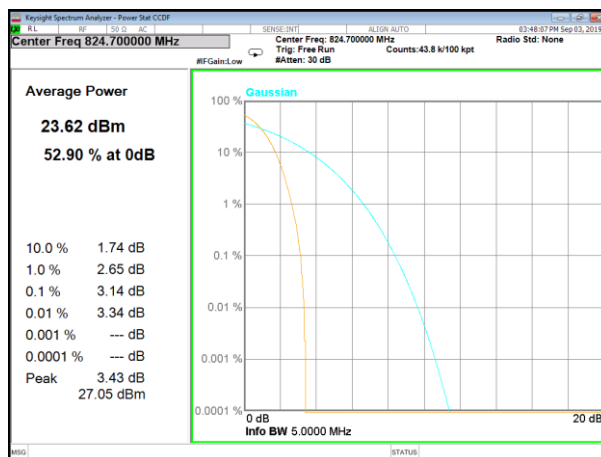
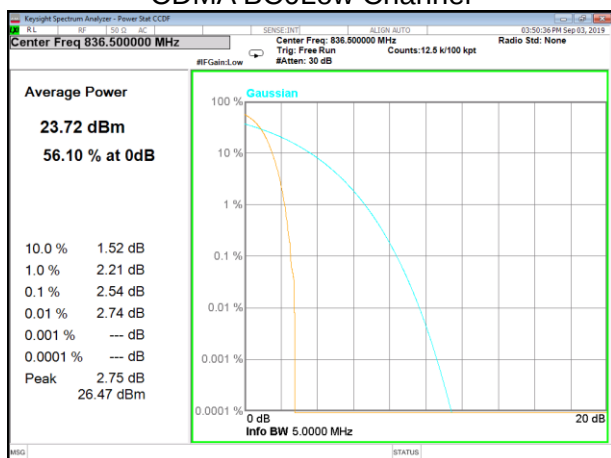




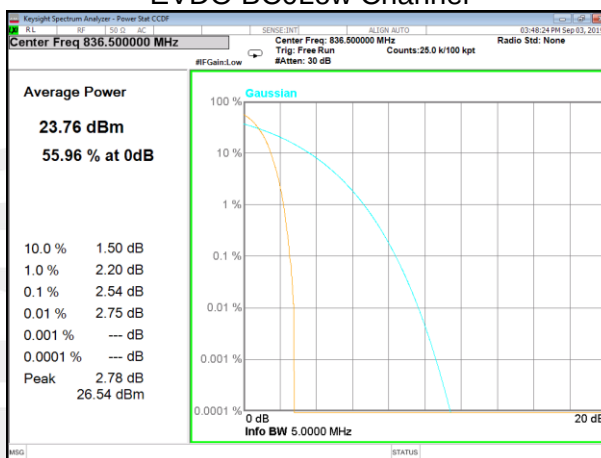
CDMA BC0Low Channel



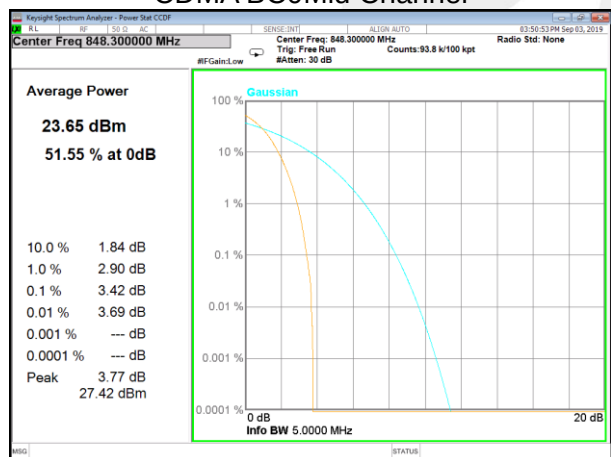
EVDO BC0Low Channel



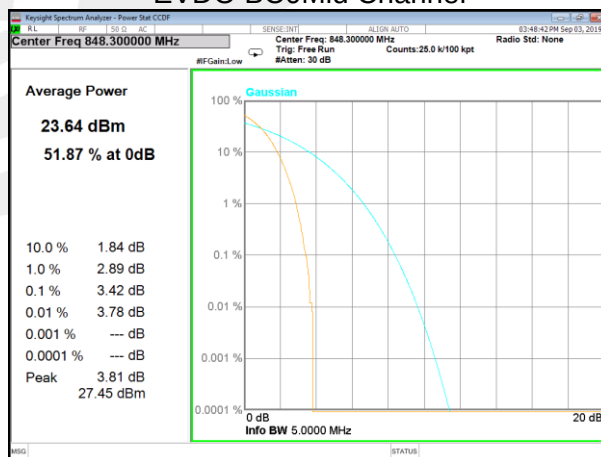
CDMA BC0Mid Channel



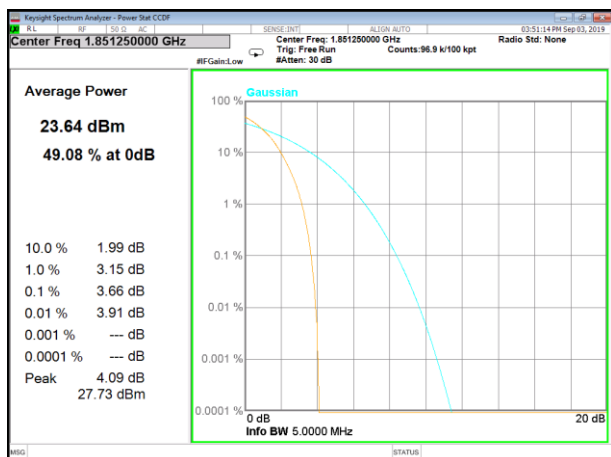
EVDO BC0Mid Channel



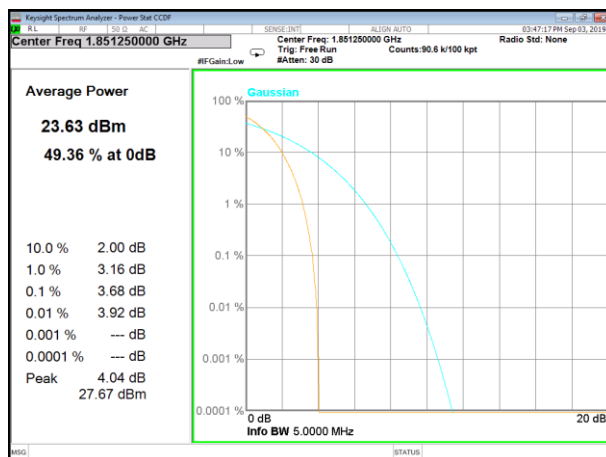
CDMA BC0High Channel



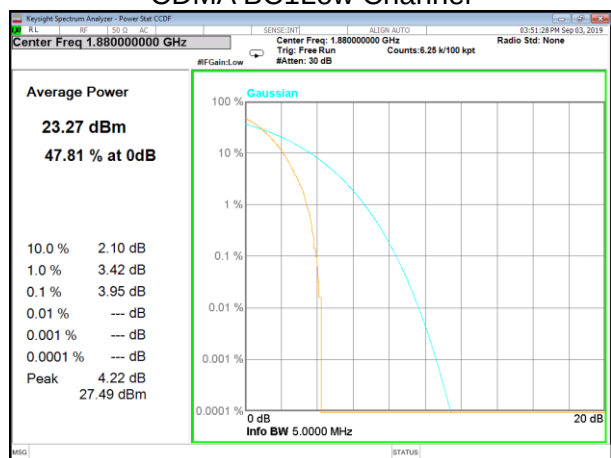
EVDO BC0High Channel



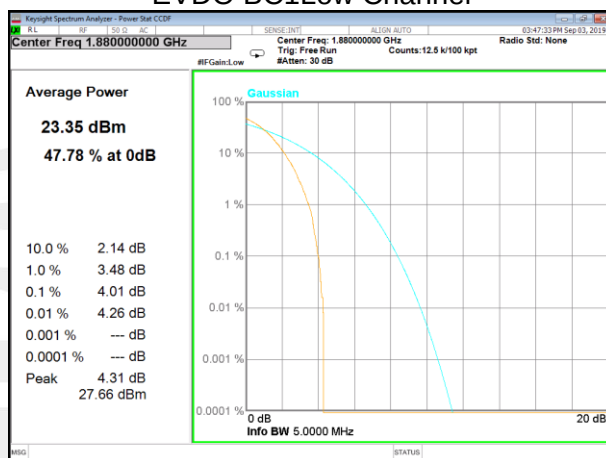
CDMA BC1Low Channel



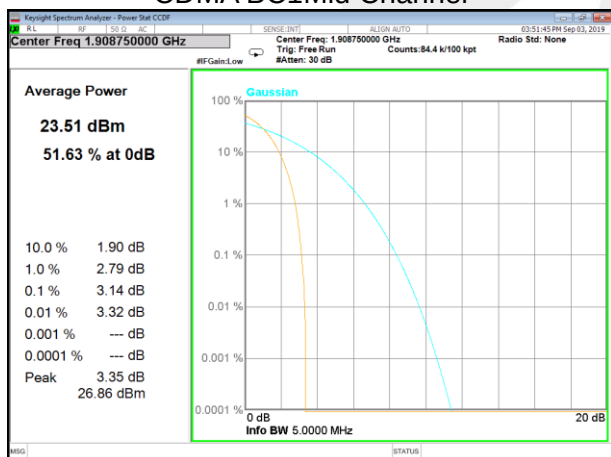
EVDO BC1Low Channel



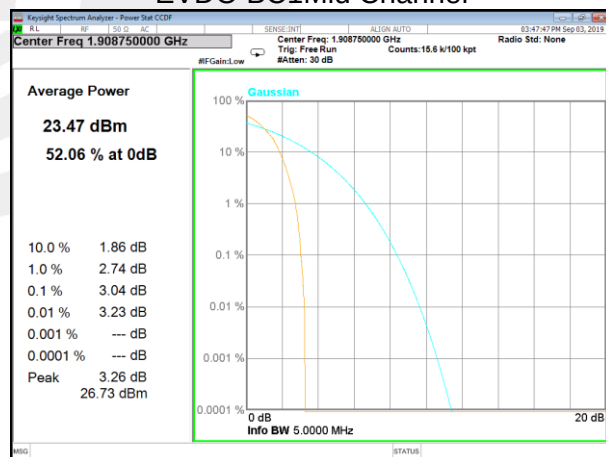
CDMA BC1Mid Channel



EVDO BC1Mid Channel



CDMA BC1High Channel



EVDO BC1High Channel



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)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
GSM850	824.2	24.18	0.44	6.5	30.24	Horizontal	Pass
	824.2	25.94	0.44	6.5	32.00	Vertical	Pass
	836.6	24.54	0.45	6.5	30.59	Horizontal	Pass
	836.6	26.25	0.45	6.5	32.30	Vertical	Pass
	848.8	24.15	0.46	6.5	30.19	Horizontal	Pass
	848.8	26.01	0.46	6.5	32.05	Vertical	Pass
GPRS850	824.2	19.82	0.44	6.5	25.88	Horizontal	Pass
	824.2	22.01	0.44	6.5	28.07	Vertical	Pass
	836.6	19.50	0.45	6.5	25.55	Horizontal	Pass
	836.6	21.80	0.45	6.5	27.85	Vertical	Pass
	848.8	19.89	0.46	6.5	25.93	Horizontal	Pass
	848.8	21.98	0.46	6.5	28.02	Vertical	Pass
EGPRS850	824.2	20.02	0.44	6.5	26.08	Horizontal	Pass
	824.2	22.04	0.44	6.5	28.10	Vertical	Pass
	836.6	19.45	0.45	6.5	25.50	Horizontal	Pass
	836.6	21.76	0.45	6.5	27.81	Vertical	Pass
	848.8	19.62	0.46	6.5	25.66	Horizontal	Pass
	848.8	21.82	0.46	6.5	27.86	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	19.66	2.41	10.35	27.60	Horizontal	Pass
	1850.2	21.53	2.41	10.35	29.47	Vertical	Pass
	1880	20.07	2.42	10.35	28.00	Horizontal	Pass
	1880	21.86	2.42	10.35	29.79	Vertical	Pass
	1909.8	19.92	2.43	10.35	27.84	Horizontal	Pass
	1909.8	21.9	2.43	10.35	29.82	Vertical	Pass
GPRS1900	1850.2	14.64	2.41	10.35	22.58	Horizontal	Pass
	1850.2	17.1	2.41	10.35	25.04	Vertical	Pass
	1880	15.22	2.42	10.35	23.15	Horizontal	Pass
	1880	17.31	2.42	10.35	25.24	Vertical	Pass
	1909.8	15.12	2.43	10.35	23.04	Horizontal	Pass
	1909.8	17.2	2.43	10.35	25.12	Vertical	Pass
EGPRS1900	1850.2	15.56	2.41	10.35	23.50	Horizontal	Pass
	1850.2	17.81	2.41	10.35	25.75	Vertical	Pass
	1880	15.37	2.42	10.35	23.30	Horizontal	Pass
	1880	17.61	2.42	10.35	25.54	Vertical	Pass
	1909.8	15.35	2.43	10.35	23.27	Horizontal	Pass
	1909.8	17.43	2.43	10.35	25.35	Vertical	Pass
Limit	EIRP<2W=33dBm						



Radiated Power (EIRP) for WCDMA Band II							
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	11.57	2.41	10.35	19.51	Horizontal	Pass
	1852.4	13.55	2.41	10.35	21.49	Vertical	Pass
	1880	11.29	2.42	10.35	19.22	Horizontal	Pass
	1880	13.2	2.42	10.35	21.13	Vertical	Pass
	1907.4	11.33	2.43	10.35	19.25	Horizontal	Pass
	1907.4	13.32	2.43	10.35	21.24	Vertical	Pass
HSUPA	1852.4	9.23	2.41	10.35	17.17	Horizontal	Pass
	1852.4	11.17	2.41	10.35	19.11	Vertical	Pass
	1880	9.31	2.42	10.35	17.24	Horizontal	Pass
	1880	11.18	2.42	10.35	19.11	Vertical	Pass
	1907.4	9.17	2.43	10.35	17.09	Horizontal	Pass
	1907.4	11.08	2.43	10.35	19.00	Vertical	Pass
HSDPA	1852.4	9.16	2.41	10.35	17.10	Horizontal	Pass
	1852.4	10.87	2.41	10.35	18.81	Vertical	Pass
	1880	9.3	2.42	10.35	17.23	Horizontal	Pass
	1880	11.27	2.42	10.35	19.20	Vertical	Pass
	1907.4	9.16	2.43	10.35	17.08	Horizontal	Pass
	1907.4	10.93	2.43	10.35	18.85	Vertical	Pass
Limit	EIRP<2W=33dBm						

Radiated Power (ERP) for WCDMA Band V							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.R.P.(dBm)	Polarization Of Max. ERP	
WCDMA	826.4	12.93	0.44	6.5	18.99	Horizontal	Pass
	826.4	14.83	0.44	6.5	20.89	Vertical	Pass
	836.6	12.85	0.45	6.5	18.90	Horizontal	Pass
	836.6	14.65	0.45	6.5	20.70	Vertical	Pass
	846.4	12.68	0.46	6.5	18.72	Horizontal	Pass
	846.4	14.50	0.46	6.5	20.54	Vertical	Pass
HSUPA	826.4	12.45	0.44	6.5	18.51	Horizontal	Pass
	826.4	14.21	0.44	6.5	20.27	Vertical	Pass
	836.6	12.69	0.45	6.5	18.74	Horizontal	Pass
	836.6	14.46	0.45	6.5	20.51	Vertical	Pass
	846.4	12.59	0.46	6.5	18.63	Horizontal	Pass
	846.4	14.42	0.46	6.5	20.46	Vertical	Pass
HSDPA	826.4	12.24	0.44	6.5	18.30	Horizontal	Pass
	826.4	14.20	0.44	6.5	20.26	Vertical	Pass
	836.6	12.61	0.45	6.5	18.66	Horizontal	Pass
	836.6	14.41	0.45	6.5	20.46	Vertical	Pass
	846.4	11.83	0.46	6.5	17.87	Horizontal	Pass
	846.4	13.81	0.46	6.5	19.85	Vertical	Pass
Limit	ERP<7W=38.45dBm						



Radiated Power (ERP) for CDMA BC0							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.R.P.(dBm)	Polarization	
						Of Max. ERP	
CDMA	824.7	14.78	0.44	6.5	20.84	Horizontal	Pass
	824.7	16.68	0.44	6.5	22.74	Vertical	Pass
	836.52	14.94	0.45	6.5	20.99	Horizontal	Pass
	836.52	16.77	0.45	6.5	22.82	Vertical	Pass
	848.31	14.69	0.46	6.5	20.73	Horizontal	Pass
	848.31	16.67	0.46	6.5	22.71	Vertical	Pass
EVDO	826.4	14.89	0.44	6.5	20.95	Horizontal	Pass
	826.4	16.50	0.44	6.5	22.56	Vertical	Pass
	836.6	14.95	0.45	6.5	21.00	Horizontal	Pass
	836.6	16.56	0.45	6.5	22.61	Vertical	Pass
	846.4	14.68	0.46	6.5	20.72	Horizontal	Pass
	846.4	16.38	0.46	6.5	22.42	Vertical	Pass
Limit	ERP<7W=38.45dBm						

Radiated Power (EIRP) for CDMA BC1							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization	
						Of Max. EIRP	
CDMA	1851.25	10.05	2.41	10.35	17.99	Horizontal	Pass
	1851.25	11.77	2.41	10.35	19.71	Vertical	Pass
	1880	10.09	2.42	10.35	18.02	Horizontal	Pass
	1880	11.83	2.42	10.35	19.76	Vertical	Pass
	1908.75	9.28	2.43	10.35	17.2	Horizontal	Pass
	1908.75	11.19	2.43	10.35	19.11	Vertical	Pass
EVDO	1851.25	11.75	0.44	6.5	17.81	Horizontal	Pass
	1851.25	13.35	0.44	6.5	19.41	Vertical	Pass
	1880	11.77	0.45	6.5	17.82	Horizontal	Pass
	1880	13.64	0.45	6.5	19.69	Vertical	Pass
	1908.75	11.20	0.46	6.5	17.24	Horizontal	Pass
	1908.75	12.88	0.46	6.5	18.92	Vertical	Pass
Limit	EIRP<2W=33dBm						



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

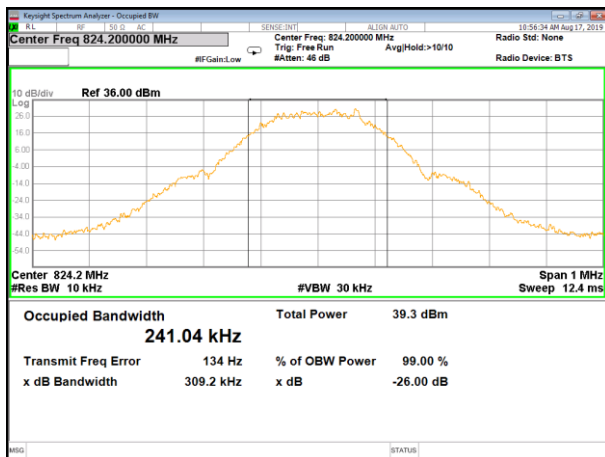
GSM Bandwidth [KHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
GSM850	241.04	309.2	244.56	312.8	246.73	315.3
GPRS850	234.43	315.8	239.65	311.3	236.32	314.5
EGPRS850	243.13	311.4	244.74	319.4	245.69	316.8

GSM Bandwidth [KHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
GSM1900	242.9	311.3	247.43	315.9	244.52	311
GPRS1900	239.38	300.6	236.73	310.4	234.85	315.1
EGPRS1900	247.17	316.4	244.12	313.5	247.43	315.9

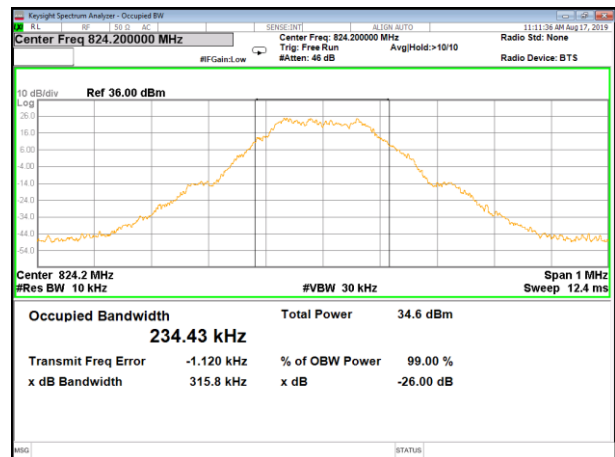
WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA II	4.131	4.717	4.124	4.688	4.126	4.679
HSDPA II	4.128	4.697	4.13	4.707	4.126	4.696
HSUPA II	4.133	4.69	4.132	4.695	4.119	4.683

WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA V	4.142	4.697	4.146	4.728	4.13	4.671
HSDPA V	4.13	4.684	4.133	4.681	4.127	4.697
HSUPA V	4.138	4.701	4.136	4.705	4.133	4.67

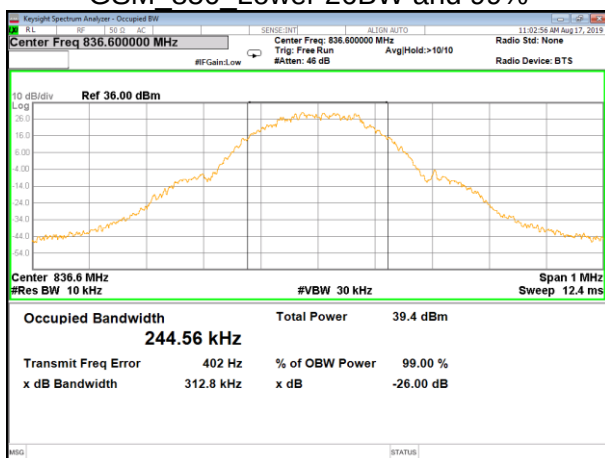
LTE Band 2 Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
BC0	1.2765	1.434	1.2828	1.452	1.2713	1.425
BC0-EVDO	1.2785	1.44	1.2778	1.444	1.2708	1.431
BC1	1.273	1.419	1.2754	1.415	1.2749	1.429
BC1-EVDO	1.2722	1.422	1.2742	1.42	1.2734	1.429



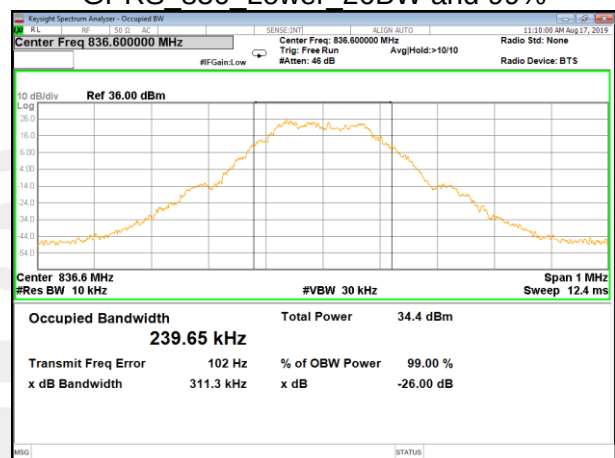
GSM 850 Lower 26BW and 99%



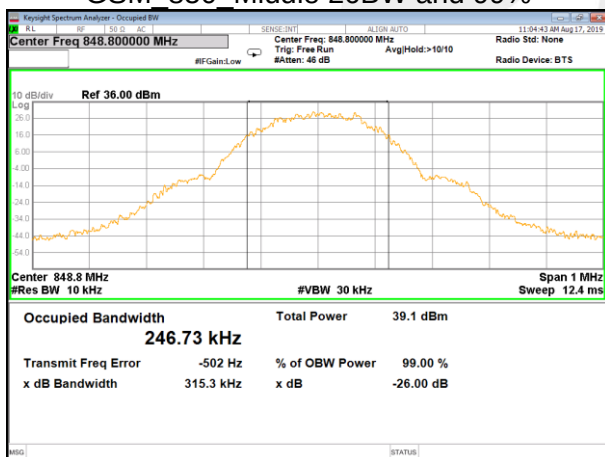
GPRS 850 Lower 26BW and 99%



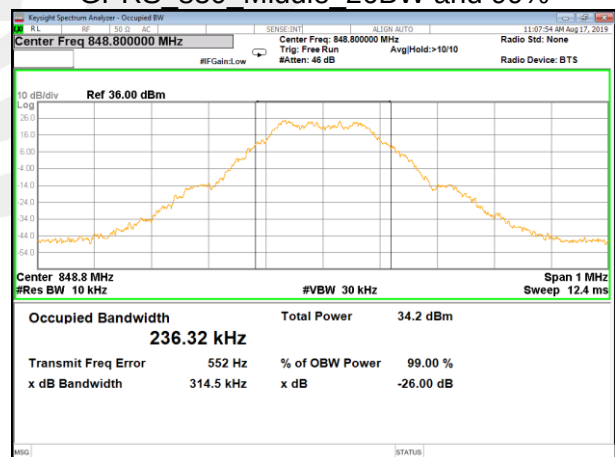
GSM 850 Middle 26BW and 99%



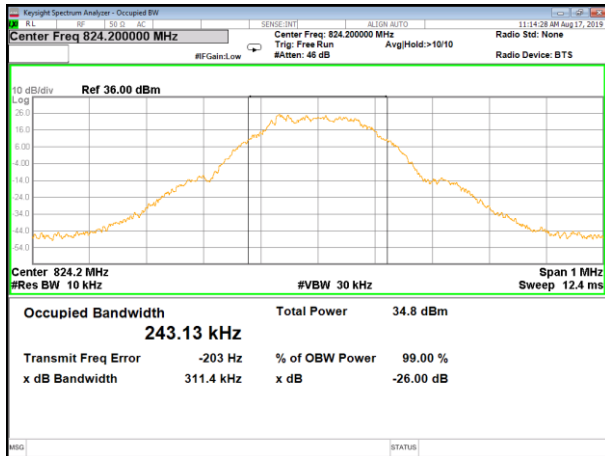
GPRS 850 Middle 26BW and 99%



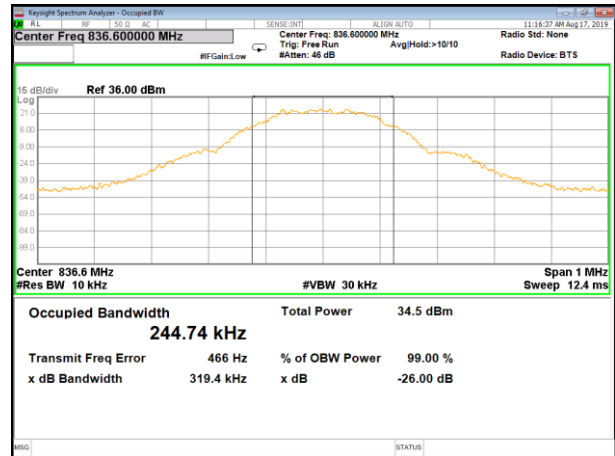
GSM_850_Higher 26BW and 99%



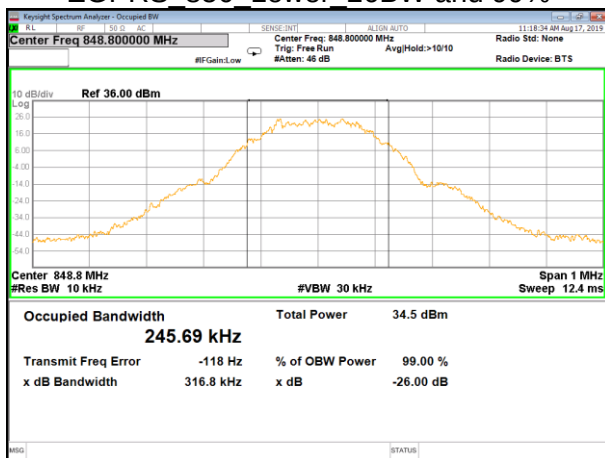
GPRS_850_Higher_26BW and 99%



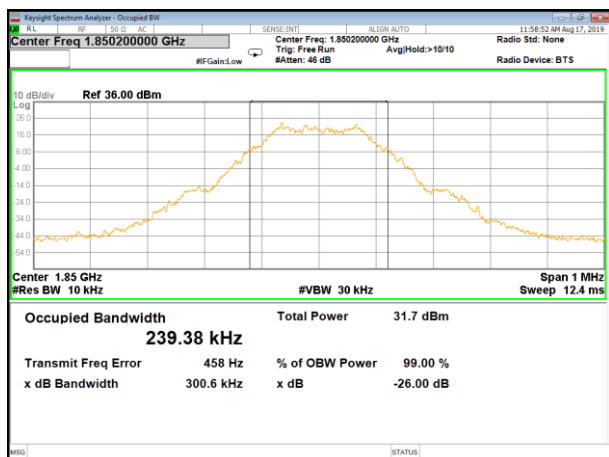
EGPRS 850 Lower 26BW and 99%



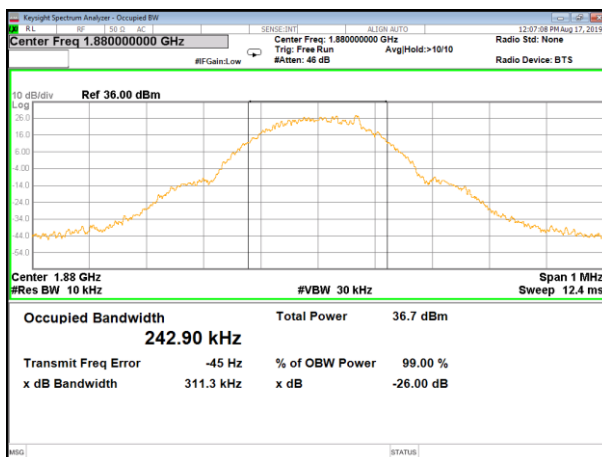
EGPRS_850_Middle_26BW and 99%



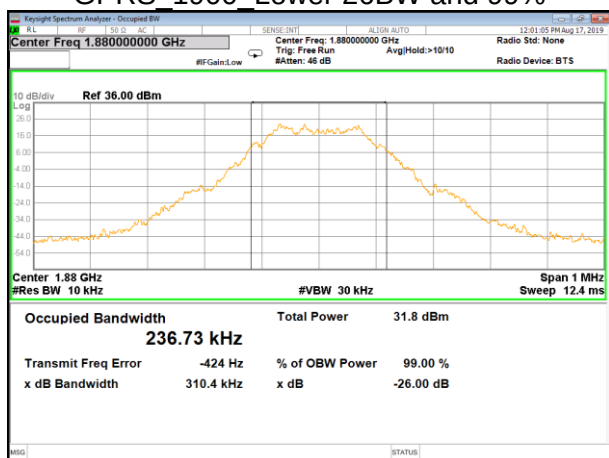
EGPRS_850_Higher_26BW and 99%



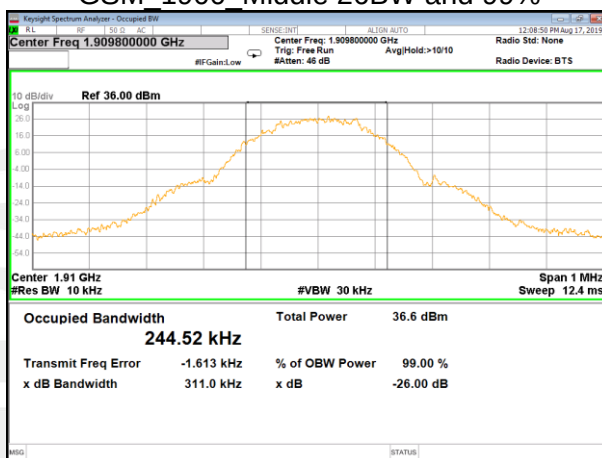
GPRS 1900 Lower 26BW and 99%



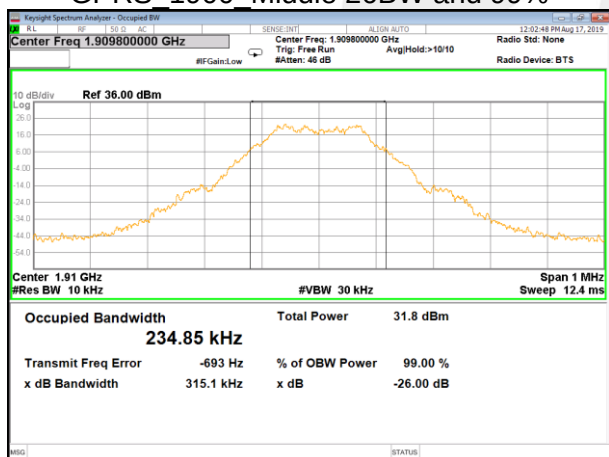
GSM 1900 Middle 26BW and 99%



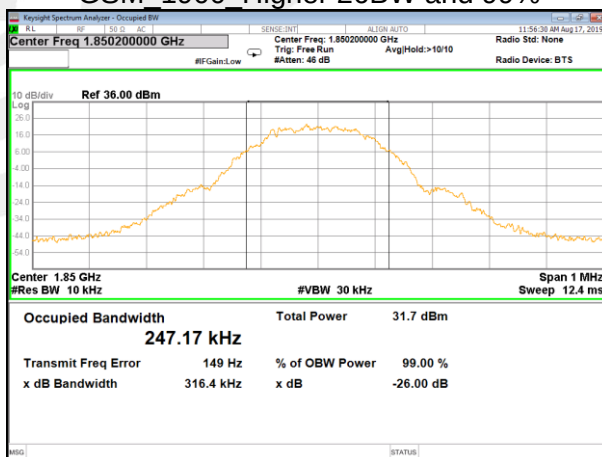
GPRS 1900 Middle 26BW and 99%



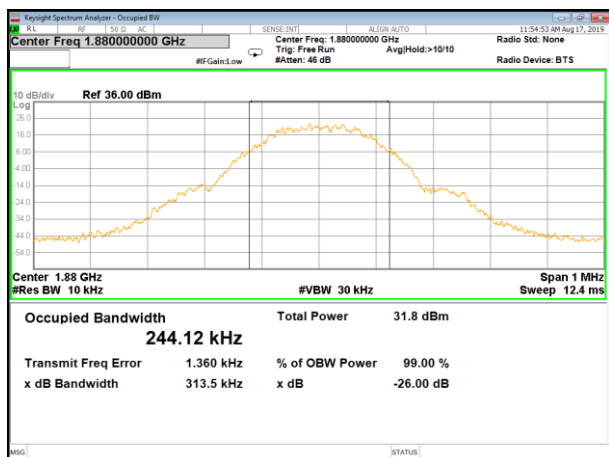
GSM 1900 Higher 26BW and 99%



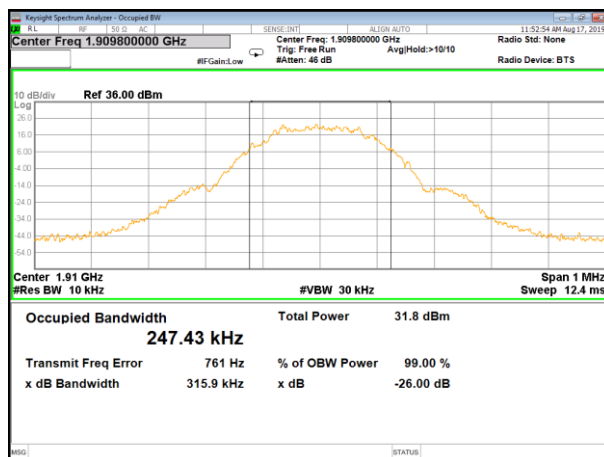
GPRS_1900_Higher 26BW and 99%



EGPRS_1900_Lower 26BW and 99%

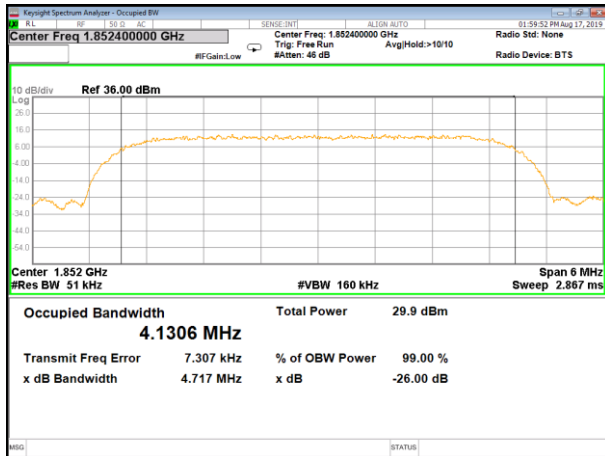


EGPRS_1900_Middle_ 26BW and 99%

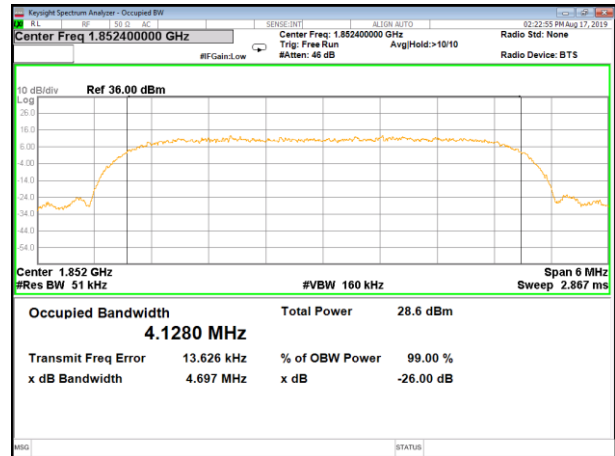


EGPRS_1900_Higher 26BW and 99%

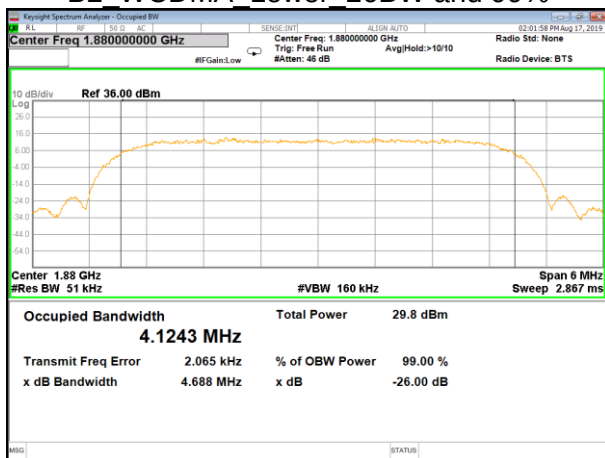




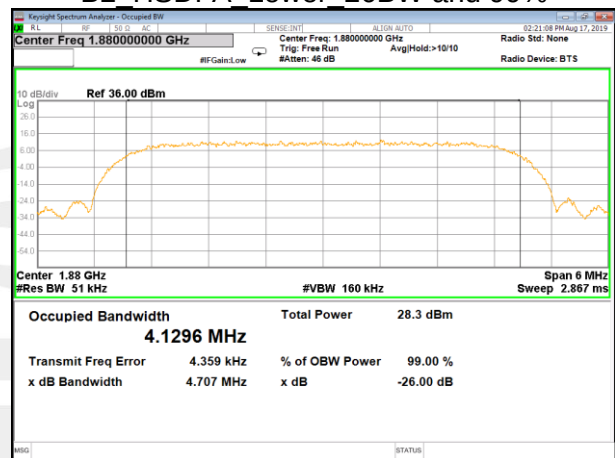
B2_WCDMA_Lower_26BW and 99%



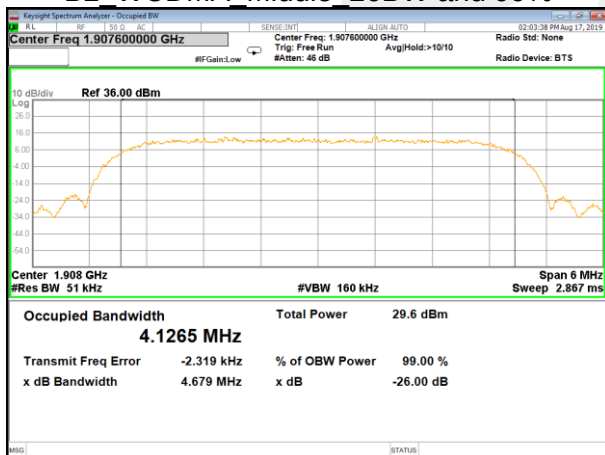
B2_HSDPA_Lower_26BW and 99%



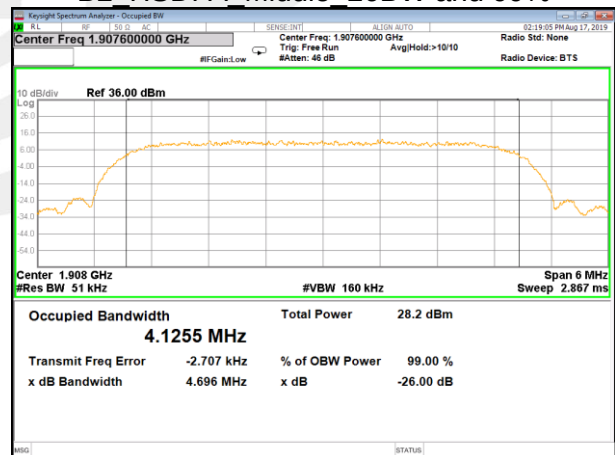
B2_WCDMA_Middle_26BW and 99%



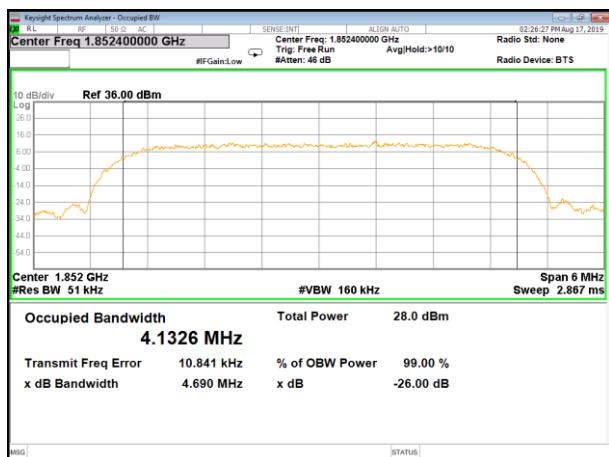
B2_HSDPA_Middle_26BW and 99%



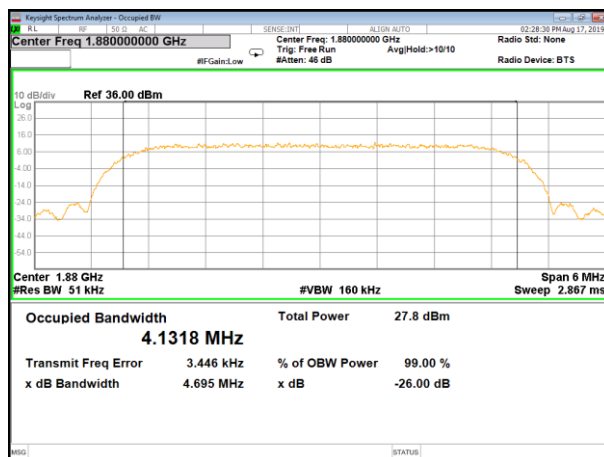
B2_WCDMA_Higher_26BW and 99%



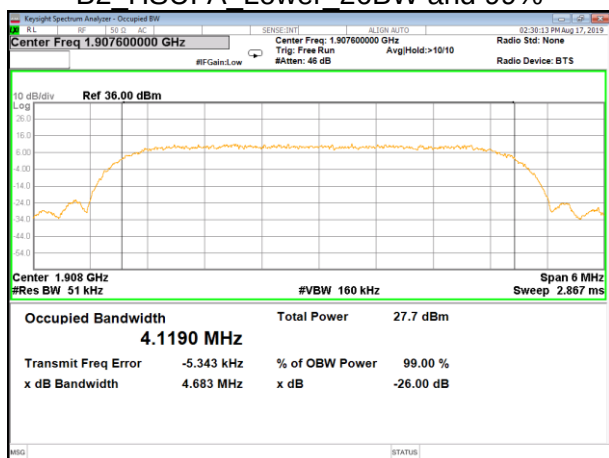
B2_HSDPA_Higher_26BW and 99%



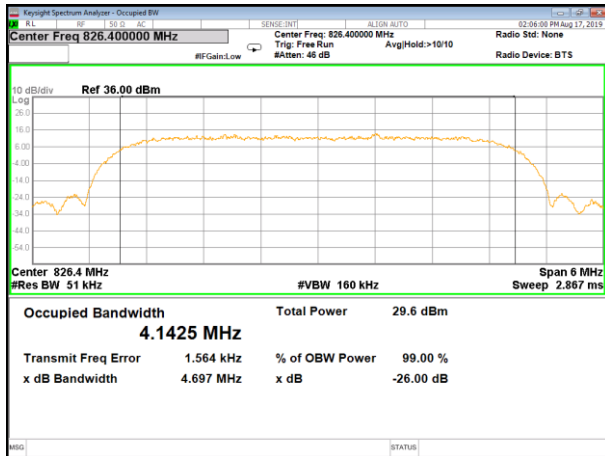
B2_HSUPA_Lower_26BW and 99%



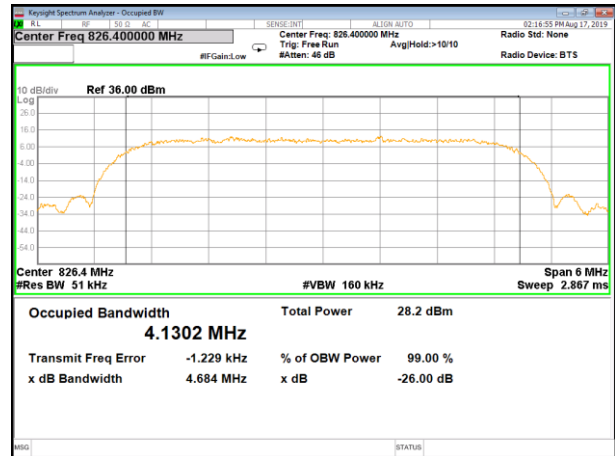
B2_HSUPA_Middle_26BW and 99%



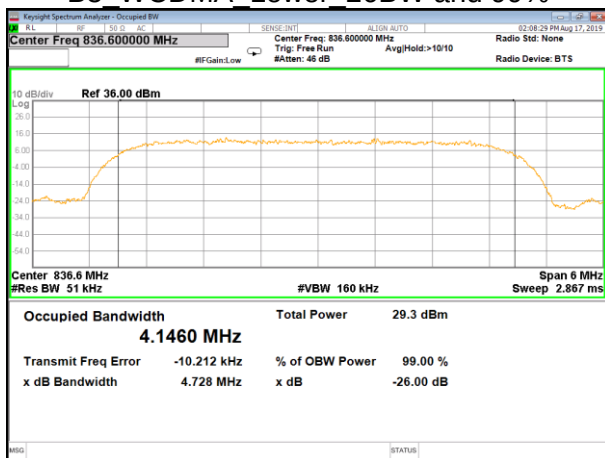
B2_HSUPA_Higher_26BW and 99%



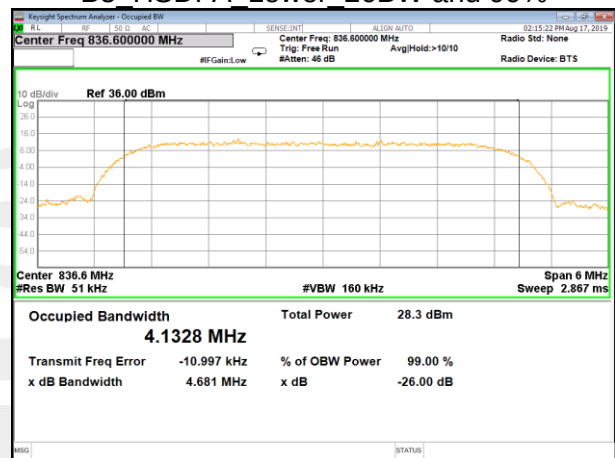
B5 WCDMA Lower 26BW and 99%



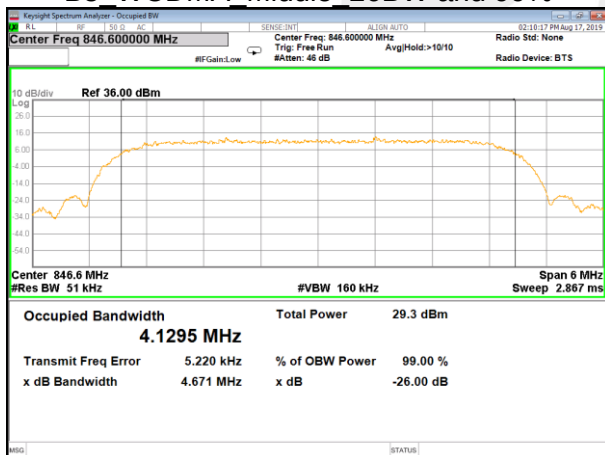
B5 HSDPA Lower 26BW and 99%



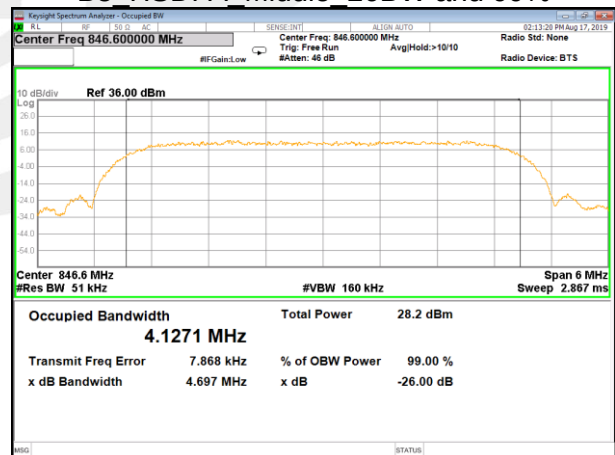
B5 WCDMA Middle 26BW and 99%



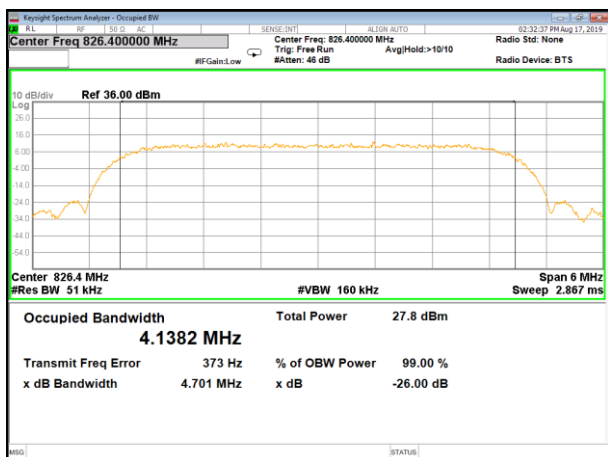
B5 HSDPA Middle 26BW and 99%



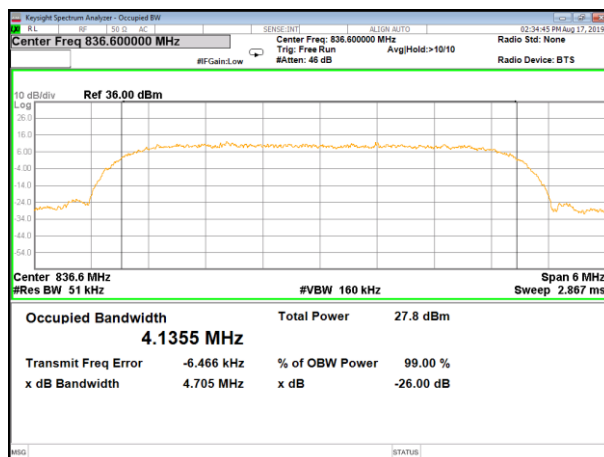
B5_WCDMA_Higher_26BW and 99%



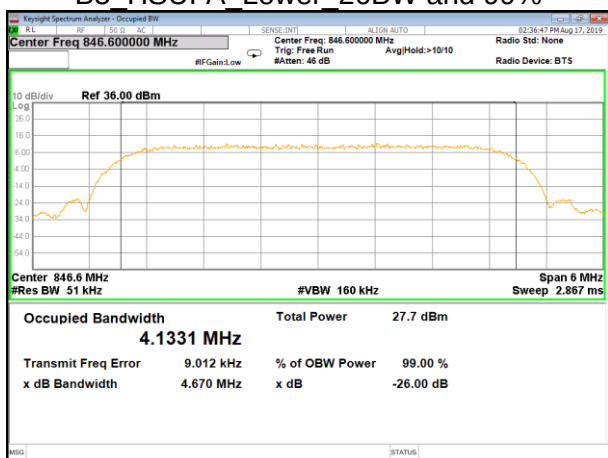
B5_HSDPA_Higher_26BW and 99%



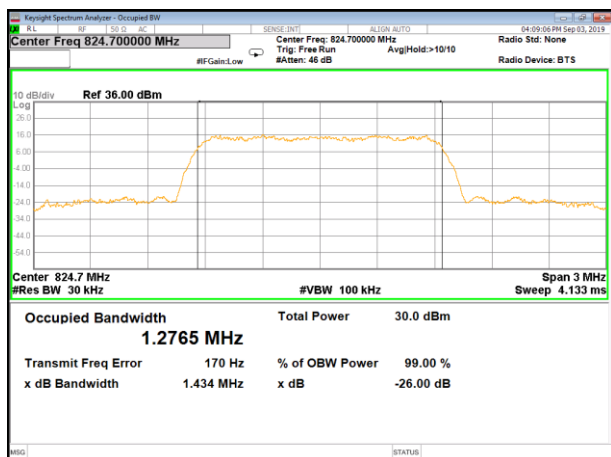
B5_HSUPA_Lower_26BW and 99%



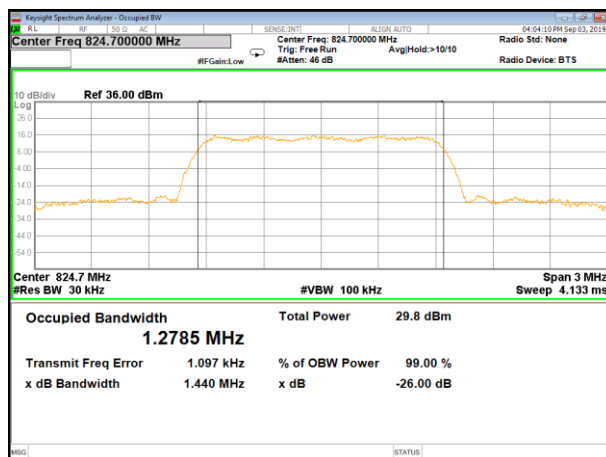
B5_HSUPA_Middle_26BW and 99%



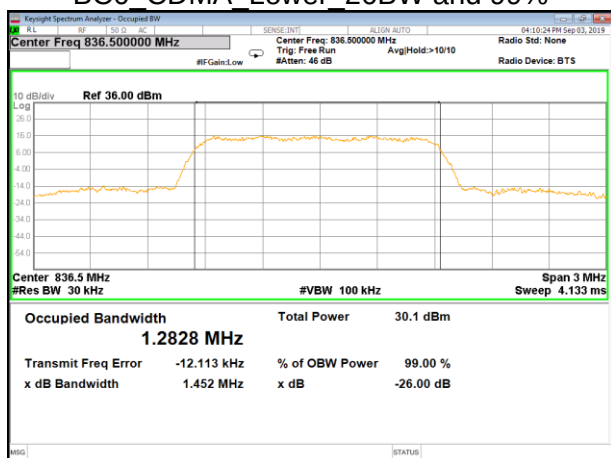
B5_HSUPA_Higher_26BW and 99%



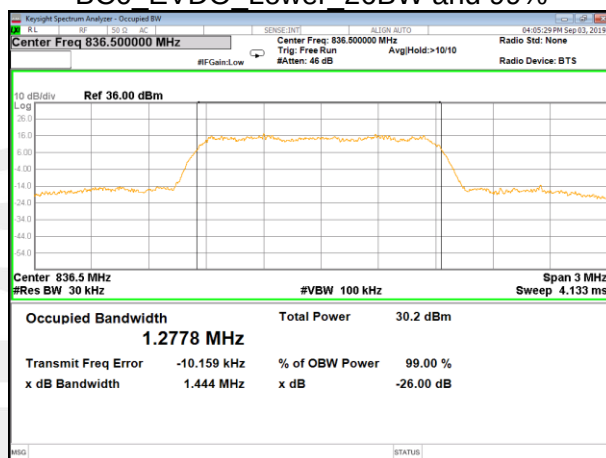
BC0_CDMA_Lower_26BW and 99%



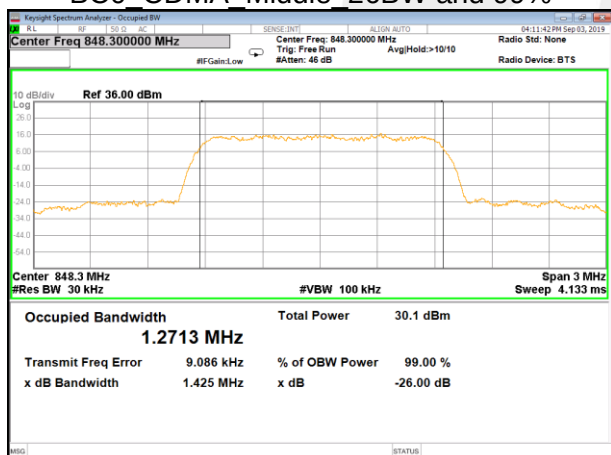
BC0_EVDO_Lower_26BW and 99%



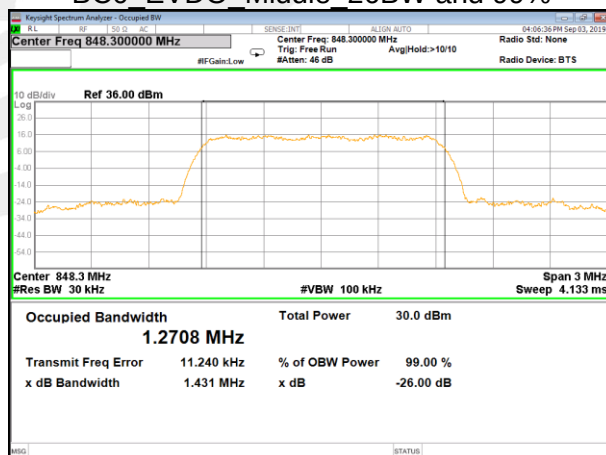
BC0_CDMA_Middle_26BW and 99%



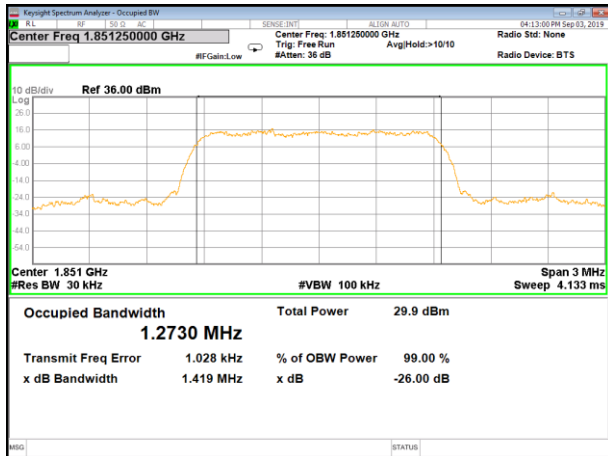
BC0_EVDO_Middle_26BW and 99%



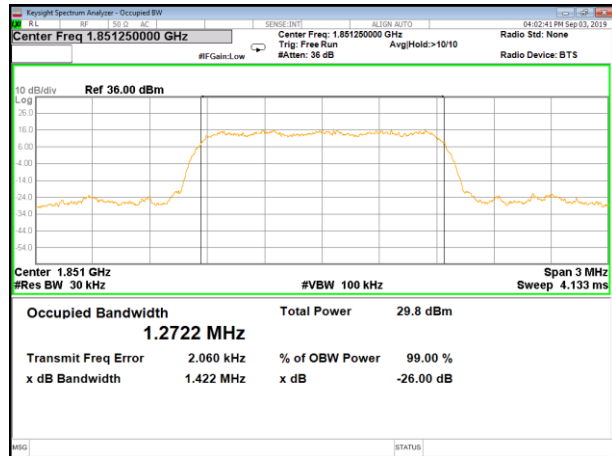
BC0_CDMA_Higher_26BW and 99%



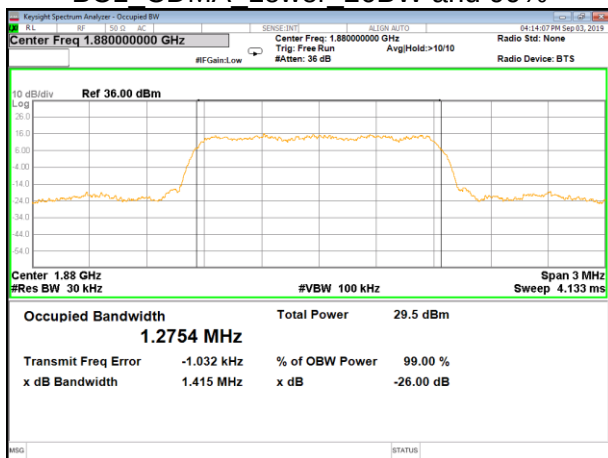
BC0_EVDO_Higher_26BW and 99%



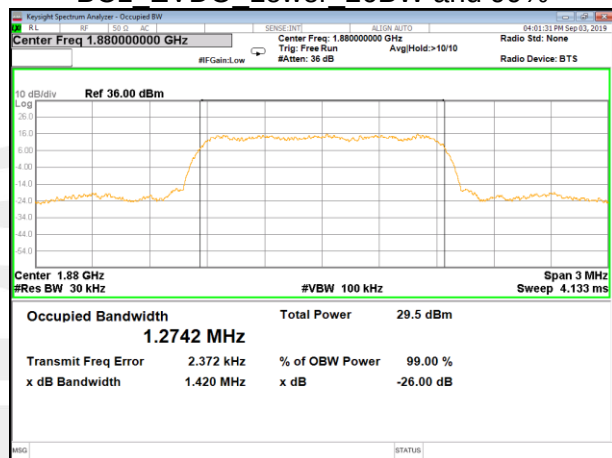
BC1_CDMA_Lower_26BW and 99%



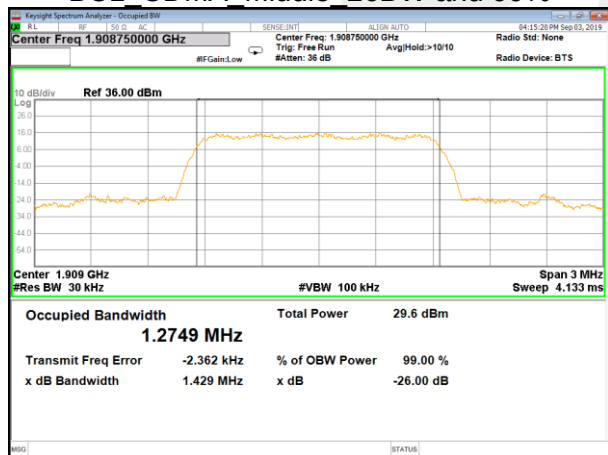
BC1_EVDO_Lower_26BW and 99%



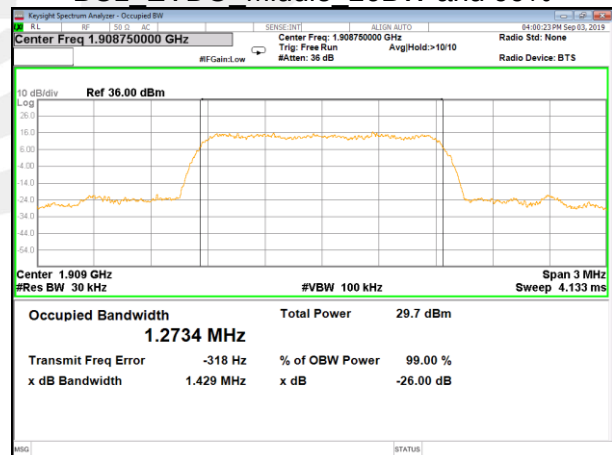
BC1_CDMA_Middle_26BW and 99%



BC1_EVDO_Middle_26BW and 99%



BC1_CDMA_Higher_26BW and 99%



BC1_EVDO_Higher_26BW and 99%



A5.FREQUENCY STABILITY

GSM 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	31.84	0.038	2.5ppm	PASS
40		14.41	0.017		
30		16.14	0.019		
20		20.46	0.024		
10		18.40	0.022		
0		26.91	0.032		
-10		20.47	0.024		
-20		16.68	0.020		
-30		21.75	0.026		
25	Maximum Voltage	23.03	0.028		
25	BEP	22.52	0.027		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	30.83	0.037	2.5ppm	PASS
40		11.60	0.014		
30		29.93	0.036		
20		29.85	0.036		
10		34.54	0.041		
0		32.82	0.039		
-10		17.14	0.020		
-20		12.18	0.015		
-30		32.22	0.039		
25	Maximum Voltage	29.66	0.035		
25	BEP	18.95	0.023		

EGPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.31	0.030	2.5ppm	PASS
40		32.27	0.039		
30		13.49	0.016		
20		25.90	0.031		
10		24.29	0.029		
0		31.42	0.038		
-10		29.53	0.035		
-20		36.15	0.043		
-30		14.54	0.017		
25	Maximum Voltage	30.57	0.037		
25	BEP	29.32	0.035		