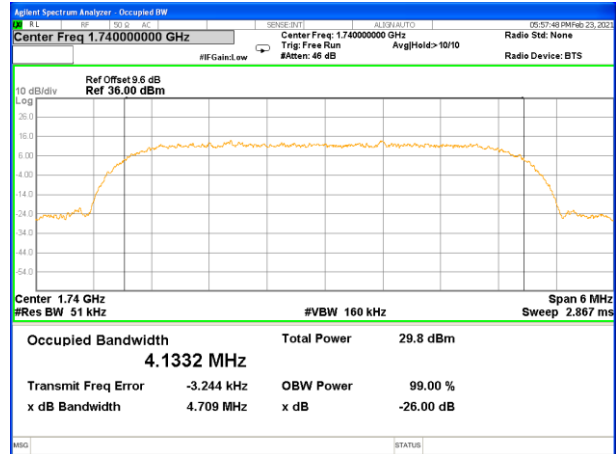
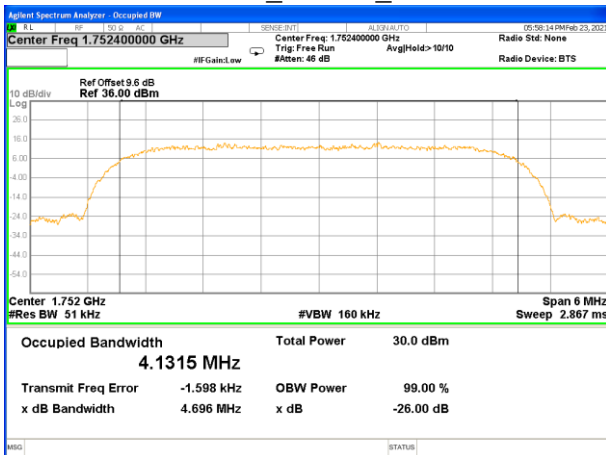


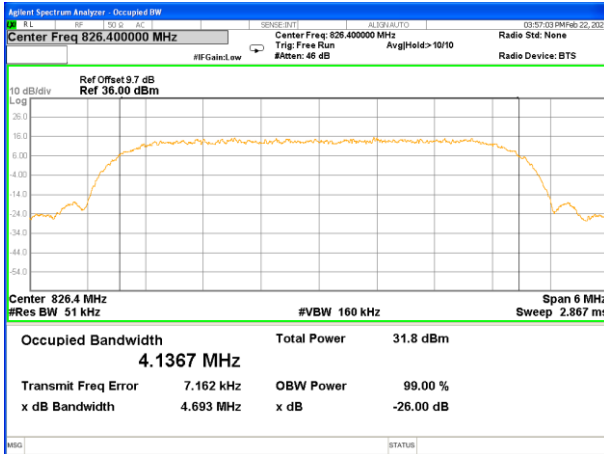
HSUPA\_Band 4\_Low



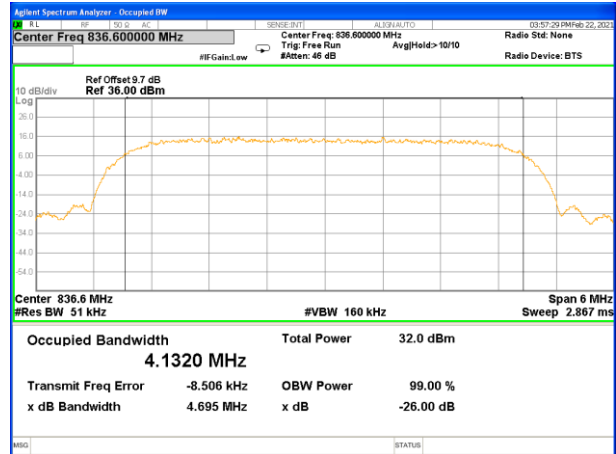
HSUPA\_Band 4\_Middle



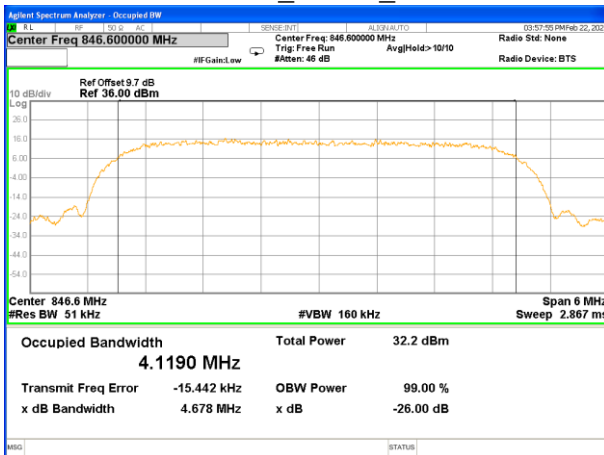
HSUPA\_Band 4\_High



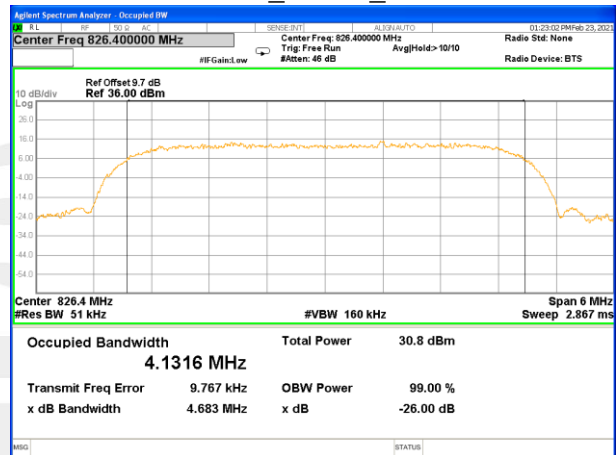
WCDMA\_Band5\_Low



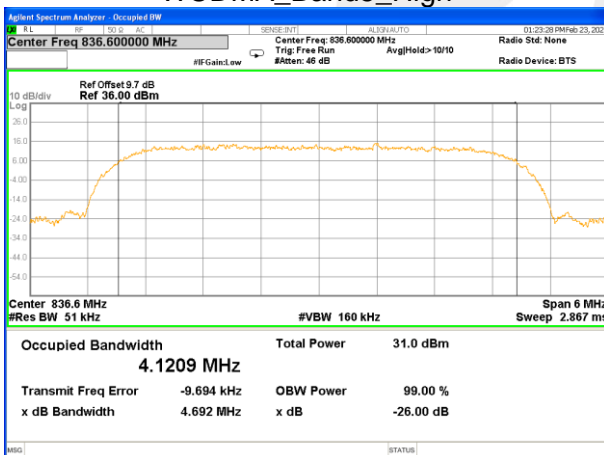
WCDMA\_Band5\_Middle



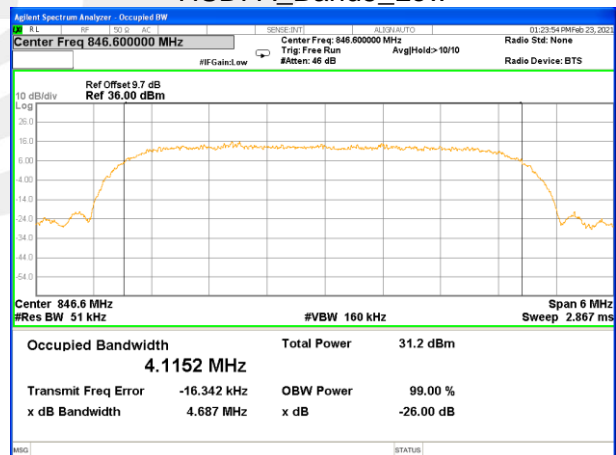
WCDMA\_Band5\_High



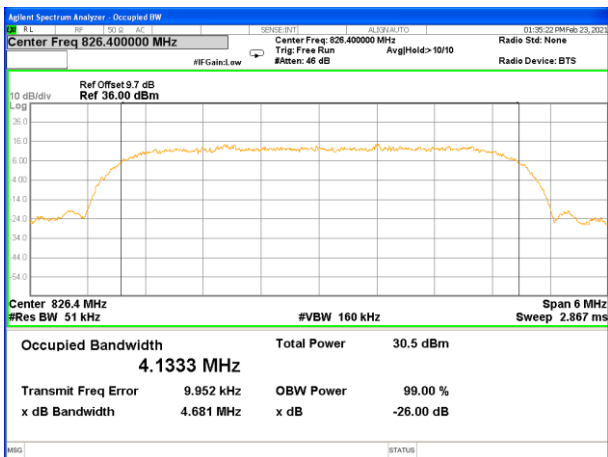
HSDPA\_Band5\_Low



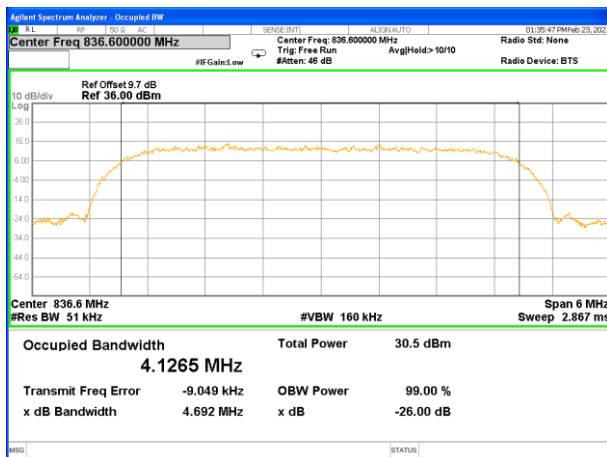
HSDPA\_Band5\_Middle



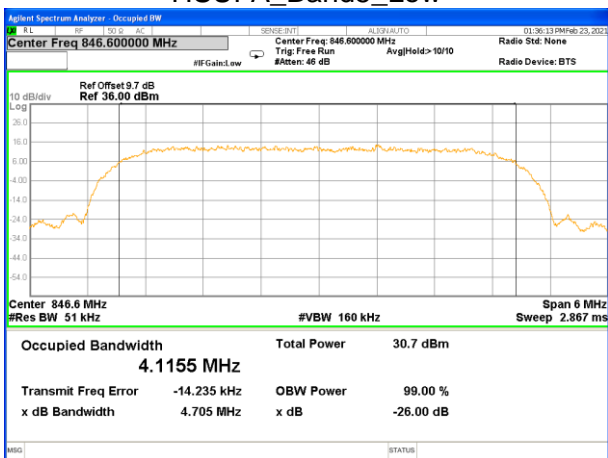
HSDPA\_Band5\_High



HSUPA\_Band5\_Low



HSUPA\_Band5\_Middle



HSUPA\_Band5\_High



**A5. FREQUENCY STABILITY**

Normal Voltage = 3.8V; Battery End Point (BEP) = 3.7V; Maximum Voltage =4.35V

GSM 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	27.40	0.033	2.5ppm	PASS
40		25.95	0.031		
30		34.56	0.041		
20		23.59	0.028		
10		20.27	0.024		
0		25.73	0.031		
-10		20.00	0.024		
-20		18.38	0.022		
-30		36.07	0.043		
20		Maximum Voltage	35.75		
20	BEP	34.93	0.042		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	33.72	0.040	2.5ppm	PASS
40		25.14	0.030		
30		35.46	0.042		
20		19.89	0.024		
10		15.07	0.018		
0		28.20	0.034		
-10		12.96	0.015		
-20		13.22	0.016		
-30		27.46	0.033		
20		Maximum Voltage	16.02		
20	BEP	25.35	0.030		

EGPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.17	0.030	2.5ppm	PASS
40		28.94	0.035		
30		19.03	0.023		
20		32.27	0.039		
10		34.22	0.041		
0		34.78	0.042		
-10		28.45	0.034		
-20		27.06	0.032		
-30		30.60	0.037		
20		Maximum Voltage	23.90		
20	BEP	31.68	0.038		



GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	12.62	0.007	Within Authorized Band	PASS
40		19.02	0.010		
30		17.93	0.010		
20		35.41	0.019		
10		31.67	0.017		
0		18.11	0.010		
-10		18.78	0.010		
-20		25.38	0.014		
-30		30.46	0.016		
20		Maximum Voltage	22.12		
20	BEP	34.59	0.018		

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	30.22	0.016	Within Authorized Band	PASS
40		24.27	0.013		
30		21.50	0.011		
20		27.93	0.015		
10		21.35	0.011		
0		13.04	0.007		
-10		19.50	0.010		
-20		30.15	0.016		
-30		22.01	0.012		
20		Maximum Voltage	30.08		
20	BEP	35.75	0.019		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	21.10	0.011	Within Authorized Band	PASS
40		21.78	0.012		
30		31.53	0.017		
20		34.33	0.018		
10		33.42	0.018		
0		34.25	0.018		
-10		12.24	0.007		
-20		16.85	0.009		
-30		15.06	0.008		
20		Maximum Voltage	12.06		
20	BEP	16.73	0.009		



UMTS Band 2 /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.97	0.014	Within Authorized Band	PASS
40		18.97	0.010		
30		13.27	0.007		
20		21.82	0.012		
10		22.78	0.012		
0		32.78	0.017		
-10		16.30	0.009		
-20		28.30	0.015		
-30		24.85	0.013		
20		Maximum Voltage	36.23		
20	BEP	17.87	0.010		

HSDPA Band 2 /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	24.96	0.013	Within Authorized Band	PASS
40		32.47	0.017		
30		28.04	0.015		
20		14.65	0.008		
10		22.85	0.012		
0		11.62	0.006		
-10		35.19	0.019		
-20		23.26	0.012		
-30		15.49	0.008		
20		Maximum Voltage	14.42		
20	BEP	35.28	0.019		

HSUPA Band 2 /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	17.85	0.009	Within Authorized Band	PASS
40		17.95	0.010		
30		27.38	0.015		
20		34.90	0.019		
10		25.59	0.014		
0		28.56	0.015		
-10		21.72	0.012		
-20		25.54	0.014		
-30		16.94	0.009		
20		Maximum Voltage	34.87		
20	BEP	21.04	0.011		



UMTS Band 5 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	19.81	0.024	2.5ppm	PASS
40		23.75	0.028		
30		14.82	0.018		
20		20.11	0.024		
10		15.72	0.019		
0		31.81	0.038		
-10		14.15	0.017		
-20		30.12	0.036		
-30		26.54	0.032		
20		Maximum Voltage	34.54		
20	BEP	30.74	0.037		

HSDPA Band 5 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	35.67	0.043	2.5ppm	PASS
40		19.51	0.023		
30		19.47	0.023		
20		23.25	0.028		
10		32.29	0.039		
0		17.02	0.020		
-10		18.61	0.022		
-20		22.90	0.027		
-30		17.04	0.020		
20		Maximum Voltage	27.96		
20	BEP	21.03	0.025		

HSUPA Band 5 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	28.87	0.035	2.5ppm	PASS
40		19.91	0.024		
30		17.02	0.020		
20		29.48	0.035		
10		14.68	0.018		
0		24.90	0.030		
-10		30.88	0.037		
-20		16.49	0.020		
-30		18.40	0.022		
20		Maximum Voltage	21.64		
20	BEP	27.47	0.033		



UMTS Band 4 /1740MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	30.28	0.016	Within Authorized Band	PASS
40		29.96	0.016		
30		22.52	0.012		
20		17.58	0.009		
10		27.46	0.015		
0		14.86	0.008		
-10		21.15	0.011		
-20		15.42	0.008		
-30		14.70	0.008		
20		Maximum Voltage	16.78		
20	BEP	32.64	0.017		

HSDPA Band 4 /1740MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	15.98	0.009	Within Authorized Band	PASS
40		21.80	0.012		
30		30.00	0.016		
20		12.23	0.007		
10		31.93	0.017		
0		15.97	0.008		
-10		18.96	0.010		
-20		25.14	0.013		
-30		30.80	0.016		
20		Maximum Voltage	12.29		
20	BEP	26.04	0.014		

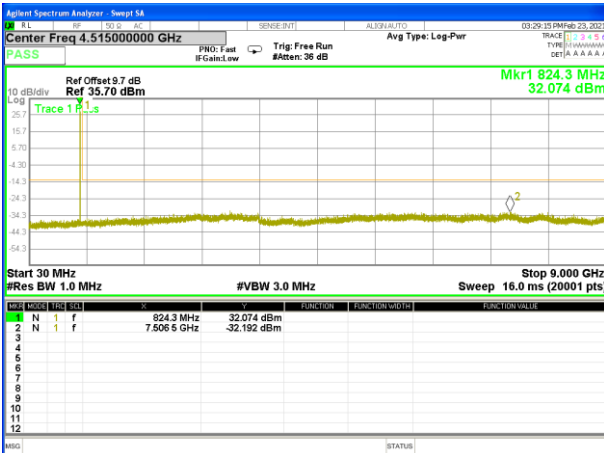
HSUPA Band 4 /1740MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	15.87	0.008	Within Authorized Band	PASS
40		23.36	0.012		
30		13.07	0.007		
20		13.54	0.007		
10		27.45	0.015		
0		15.66	0.008		
-10		24.04	0.013		
-20		23.75	0.013		
-30		22.87	0.012		
20		Maximum Voltage	16.81		
20	BEP	36.17	0.019		

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

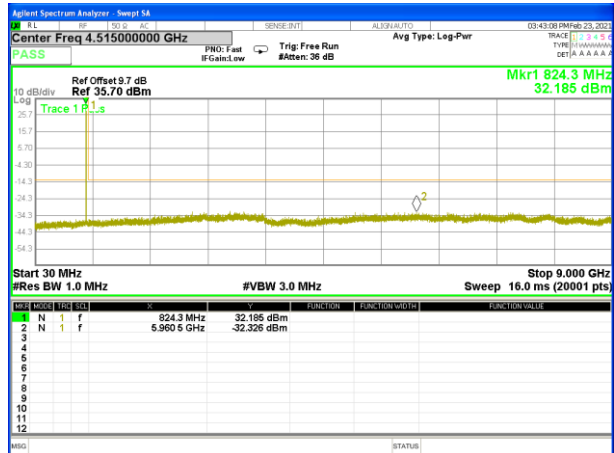




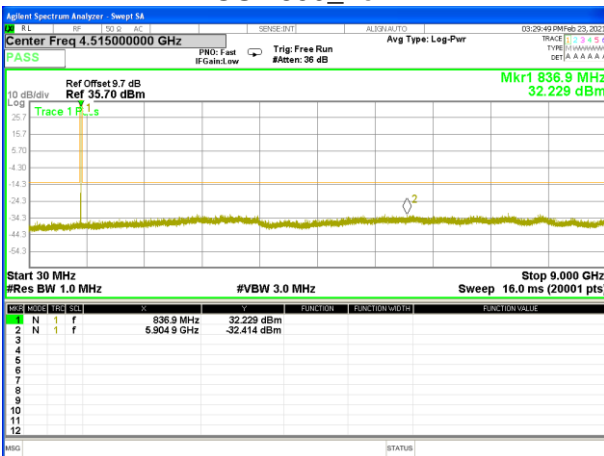
### A6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS



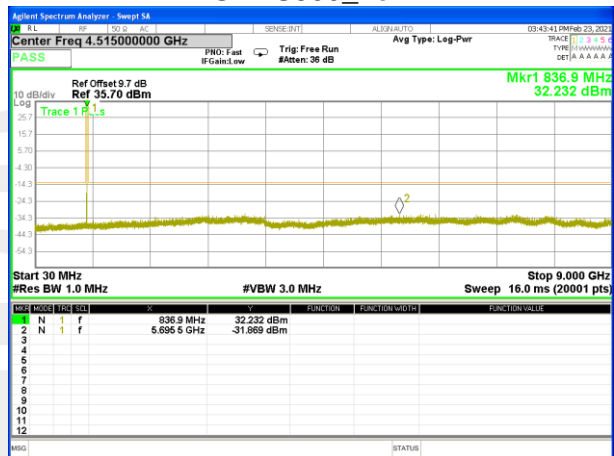
GSM850\_Low



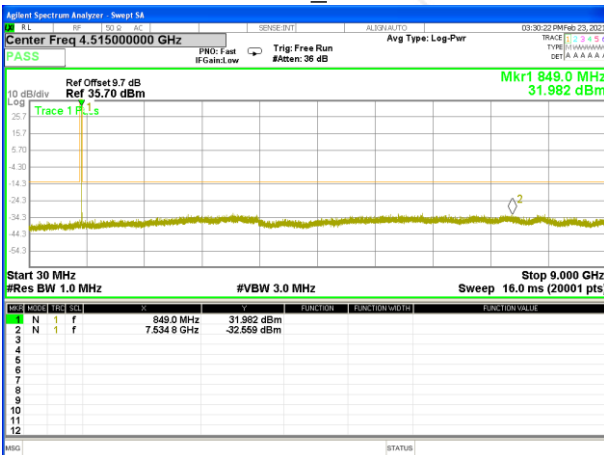
GPRS850\_Low



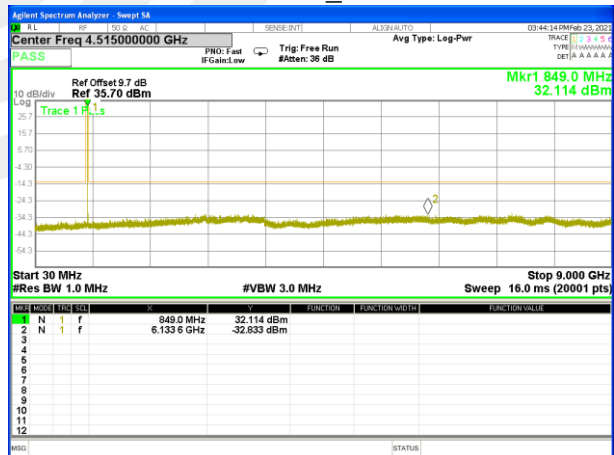
GSM850\_Middle



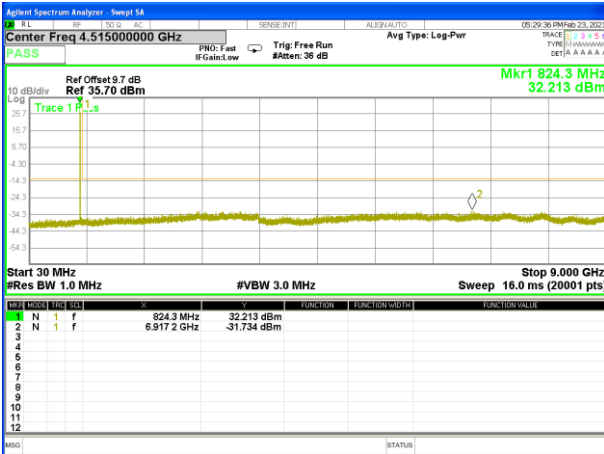
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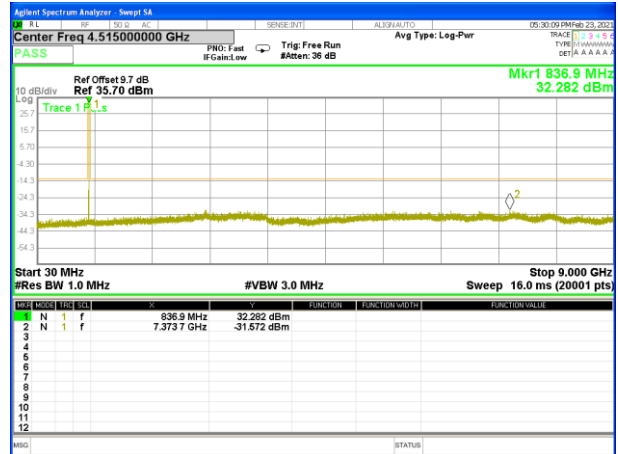
GSM850\_High



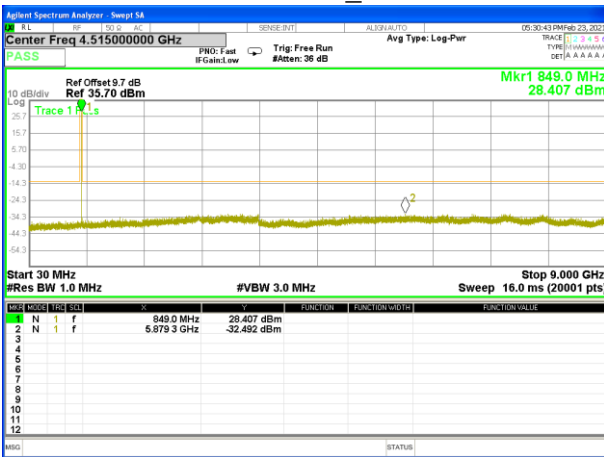
GPRS850\_High



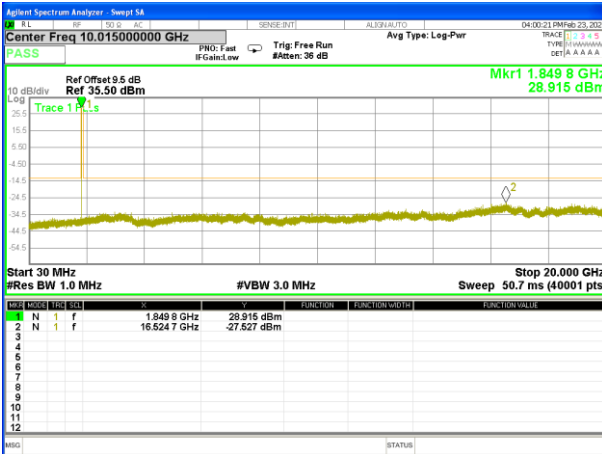
EGPRS850\_Low



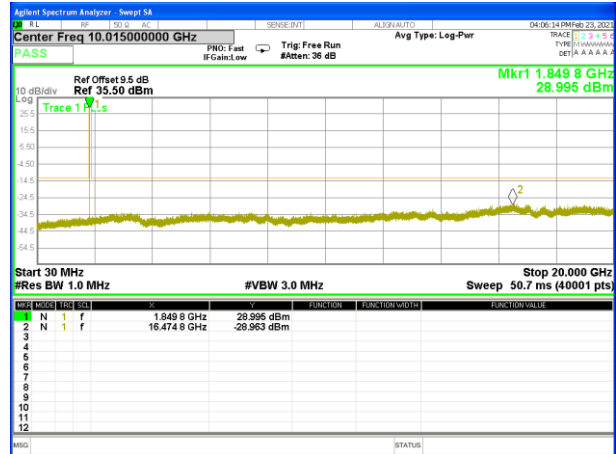
EGPRS850\_Middle



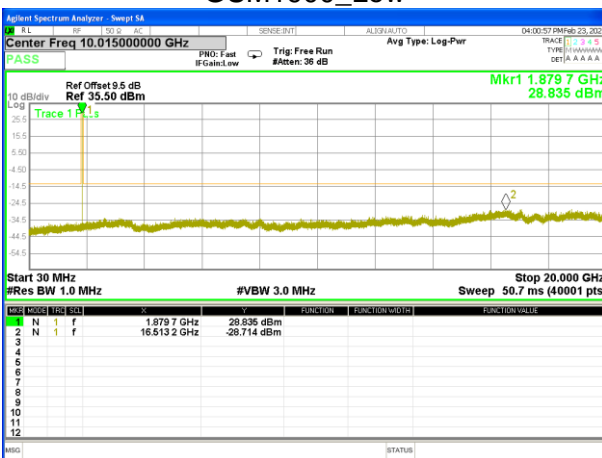
EGPRS850\_High



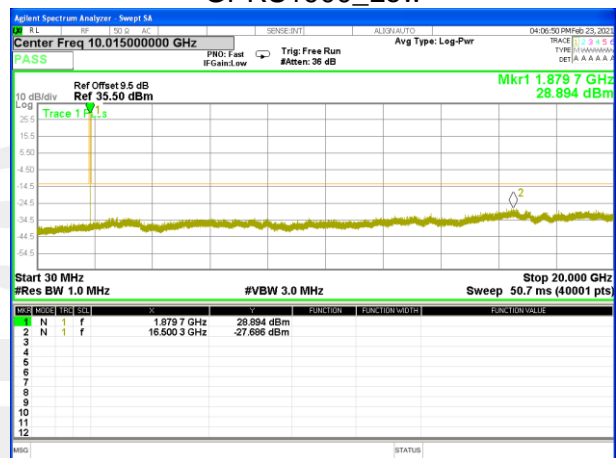
GSM1900\_Low



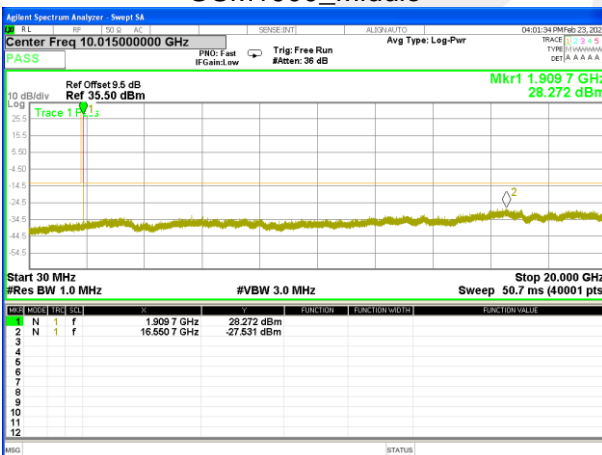
GPRS1900\_Low



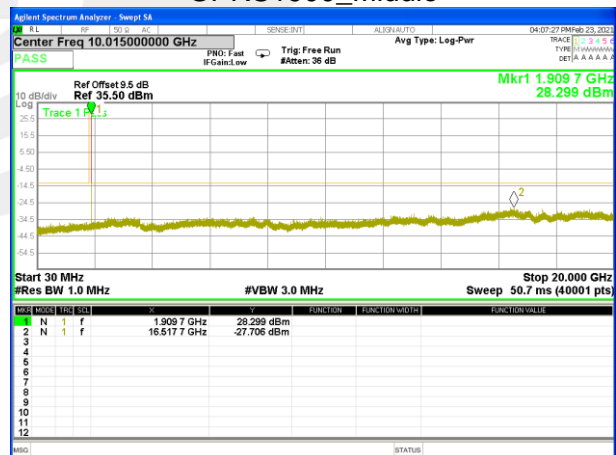
GSM1900\_Middle



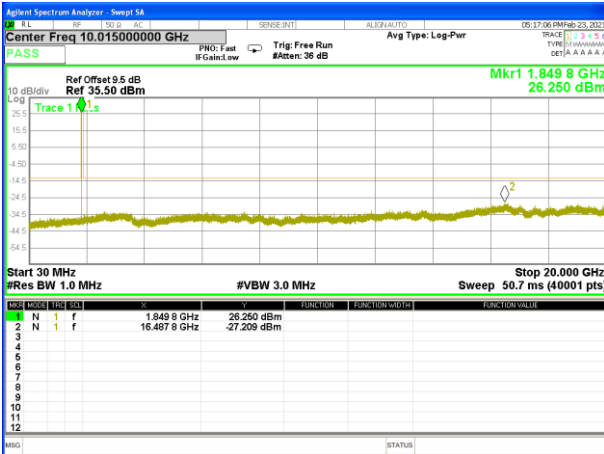
GPRS1900\_Middle



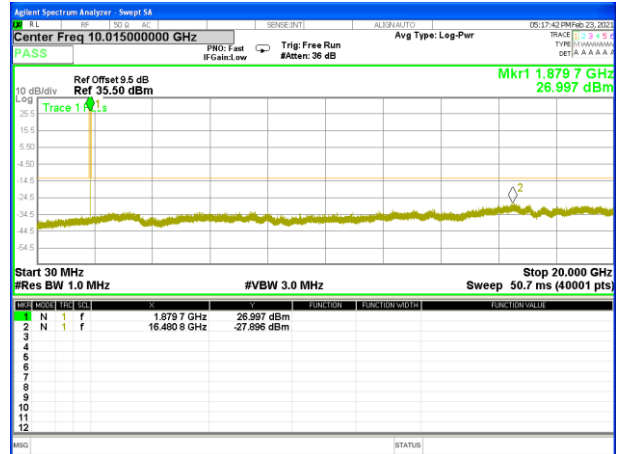
GSM1900\_High



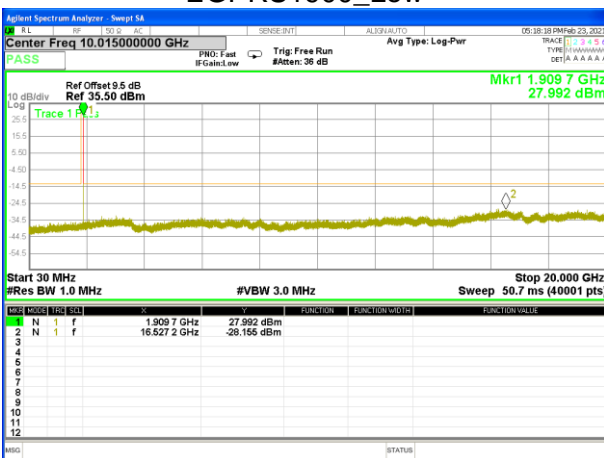
GPRS1900\_High



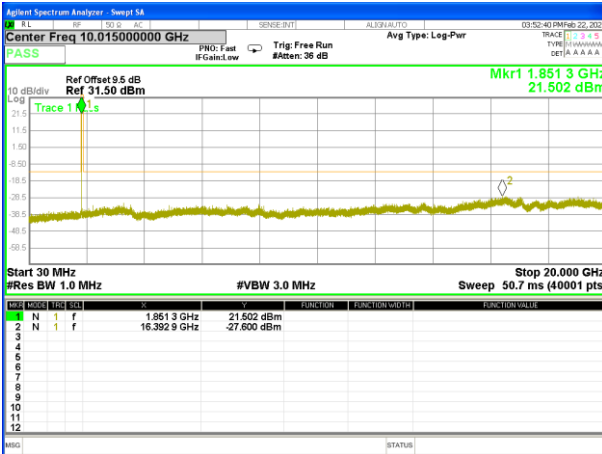
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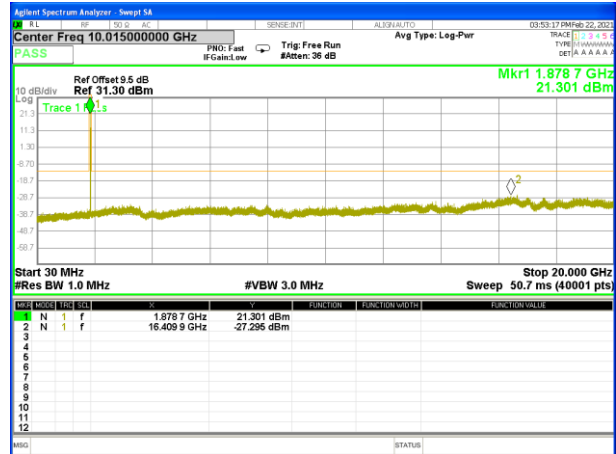
EGPRS1900\_Middle



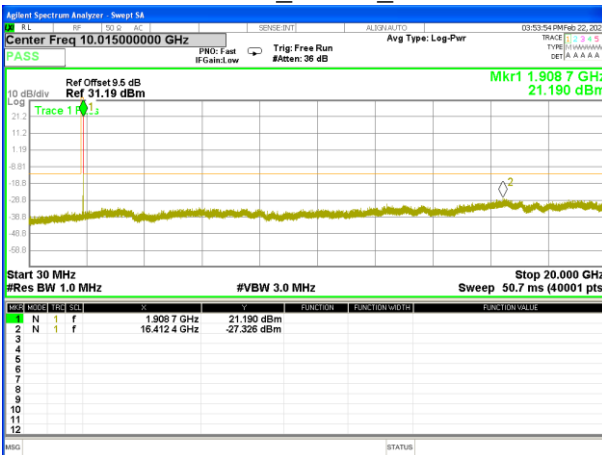
EGPRS1900\_High



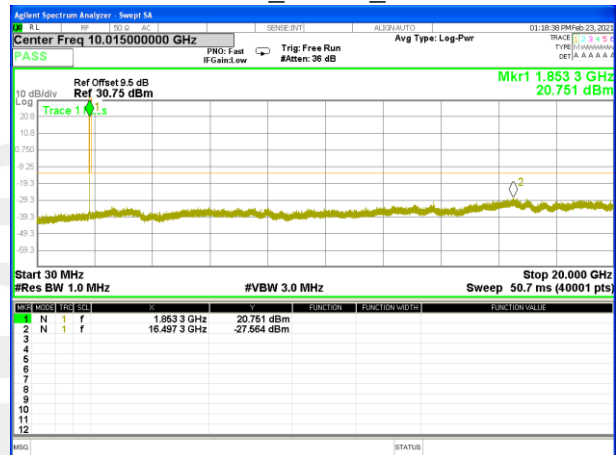
WCDMA\_Band2\_Low



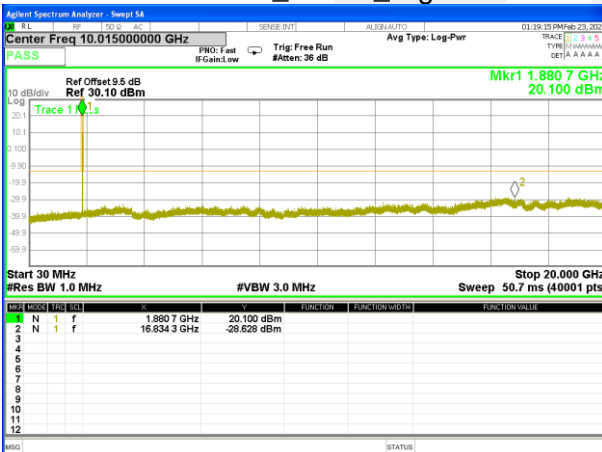
WCDMA\_Band2\_Middle



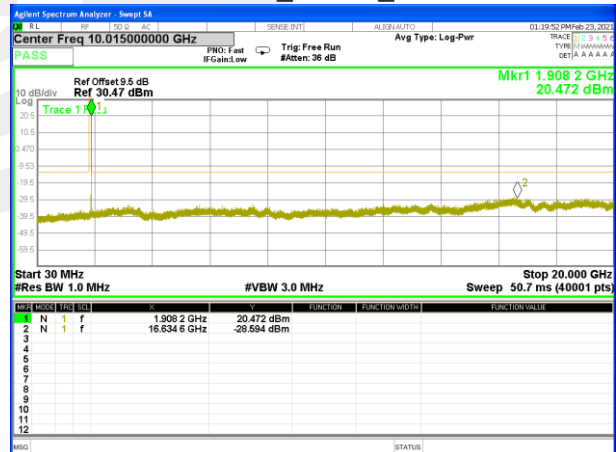
WCDMA\_Band2\_High



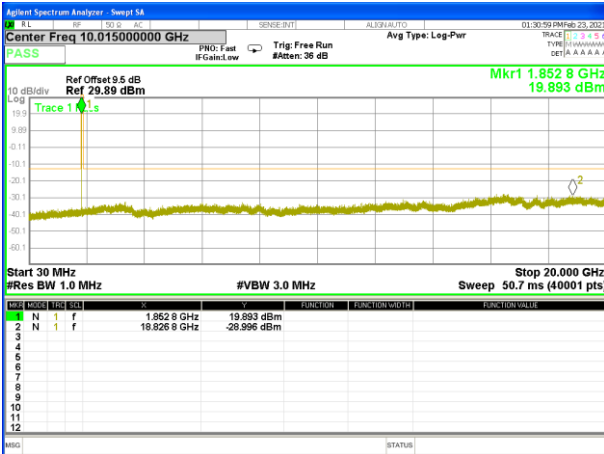
HSDPA\_Band2\_Low



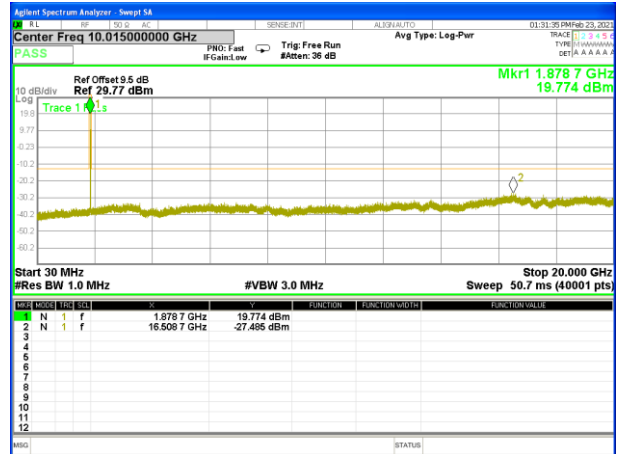
HSDPA\_Band2\_Middle



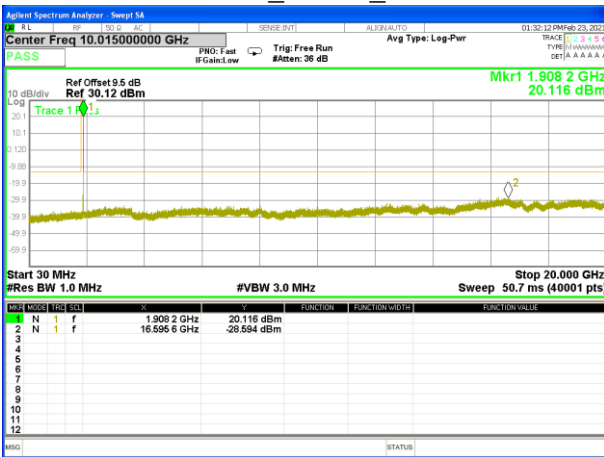
HSDPA\_Band2\_High



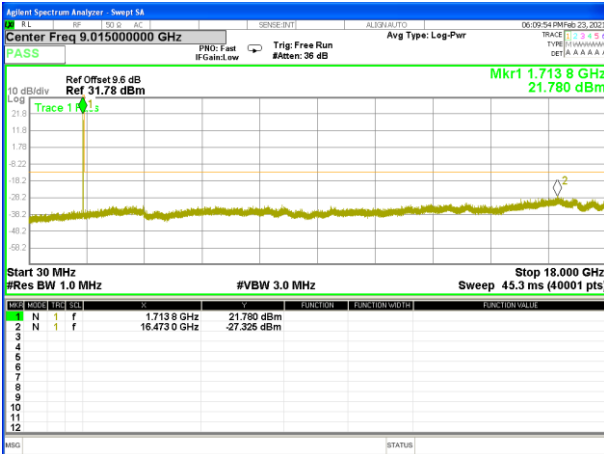
HSUPA\_Band2\_Low



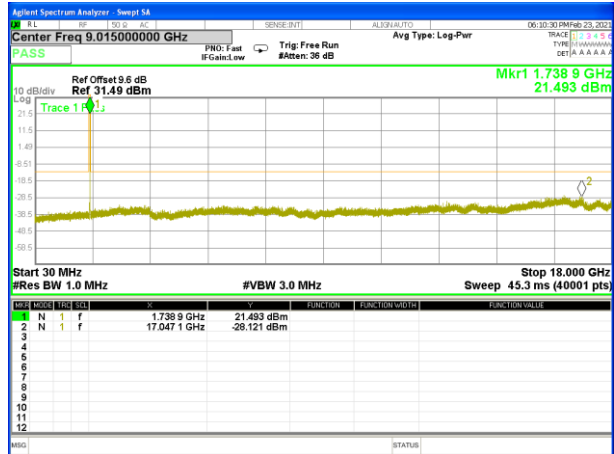
HSUPA\_Band2\_Middle



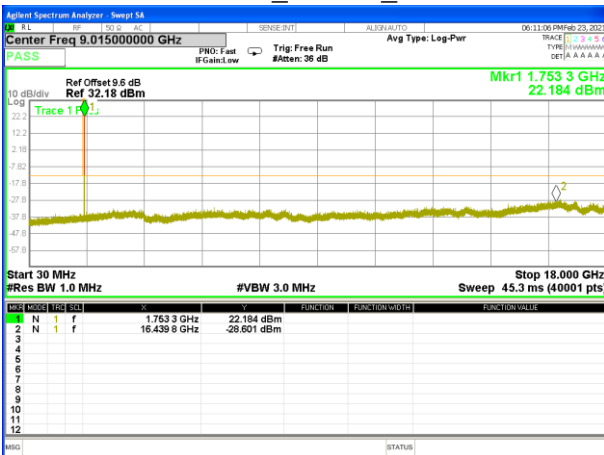
HSUPA\_Band2\_High



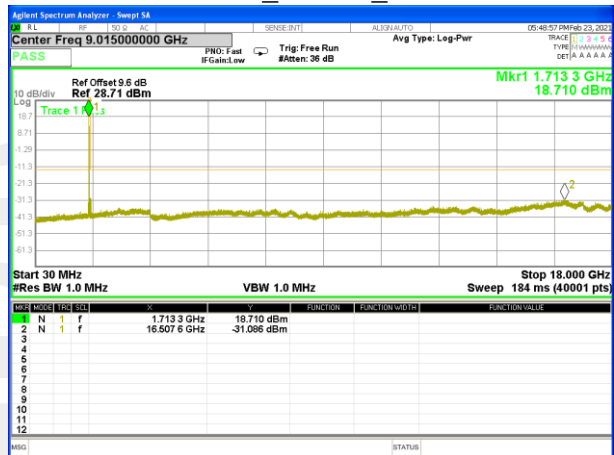
WCDMA\_Band 4\_Low



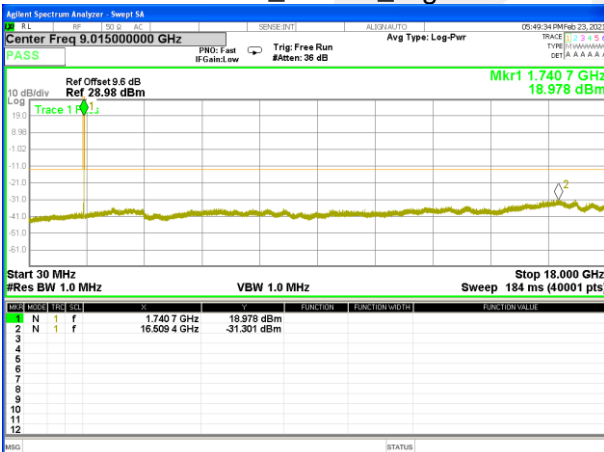
WCDMA\_Band 4\_Middle



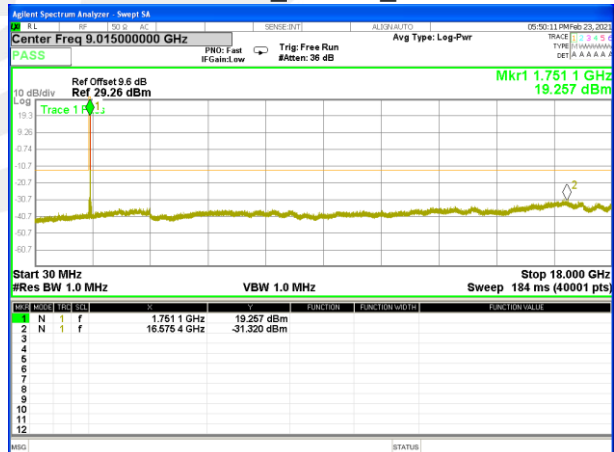
WCDMA\_Band 4\_High



HSDPA\_Band 4\_Low



HSDPA\_Band 4\_Middle



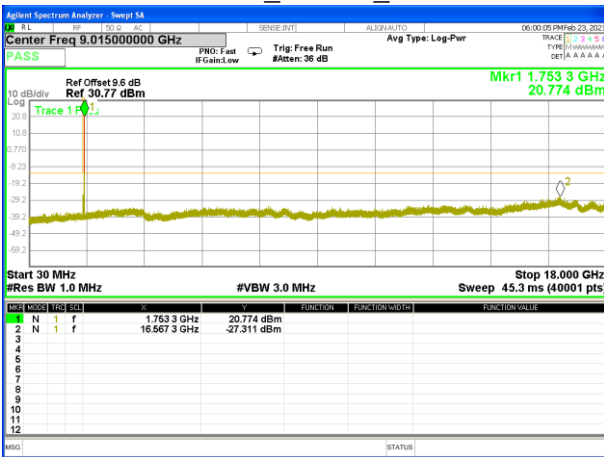
HSDPA\_Band 4\_High



HSUPA\_Band 4\_Low

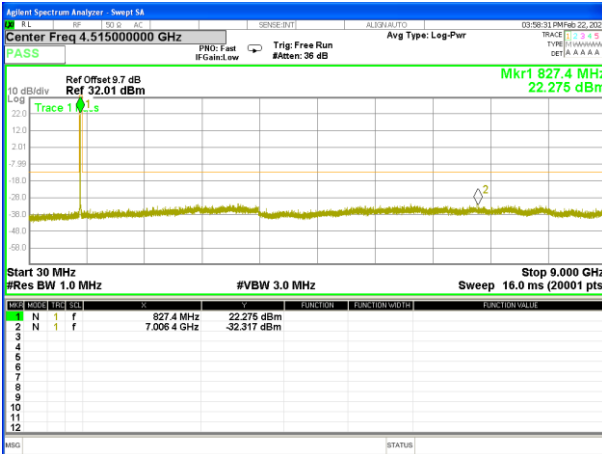


HSUPA\_Band 4\_Middle

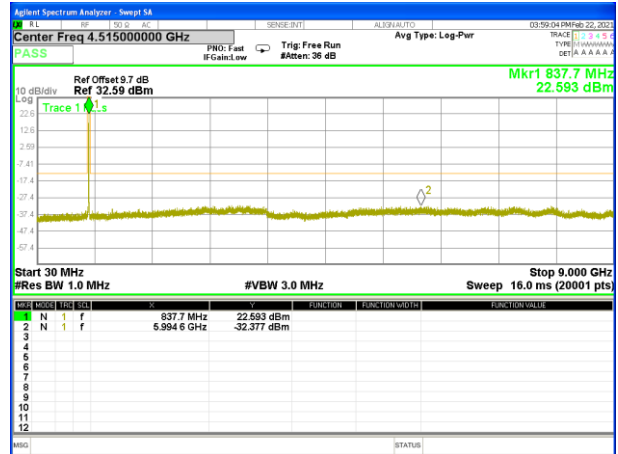


HSUPA\_Band 4\_High

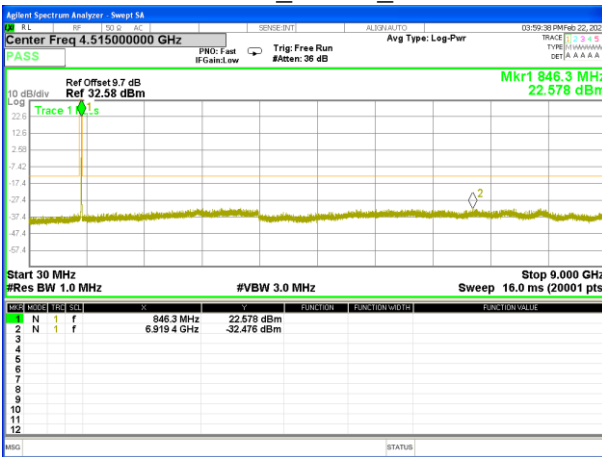




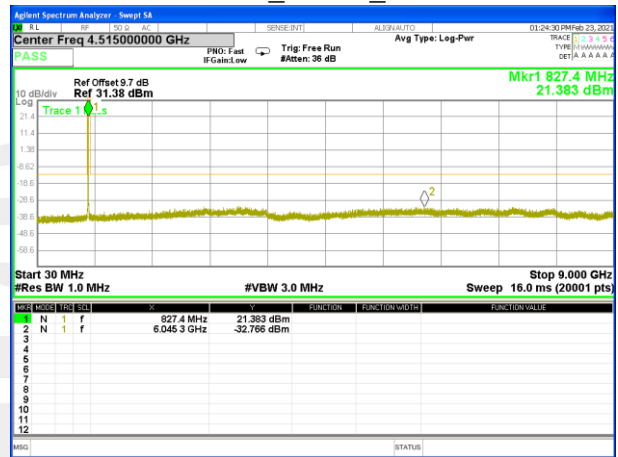
WCDMA\_Band5\_Low



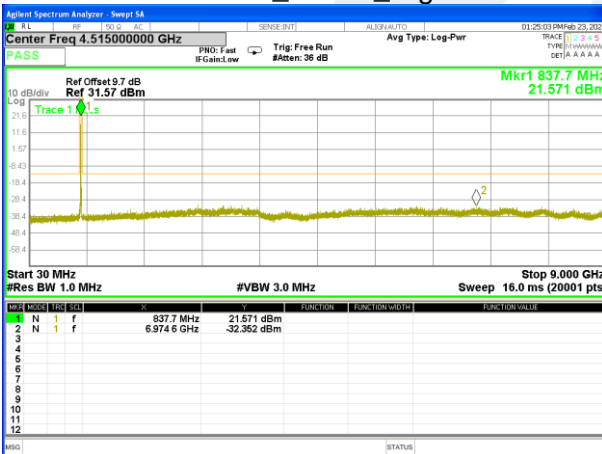
WCDMA\_Band5\_Middle



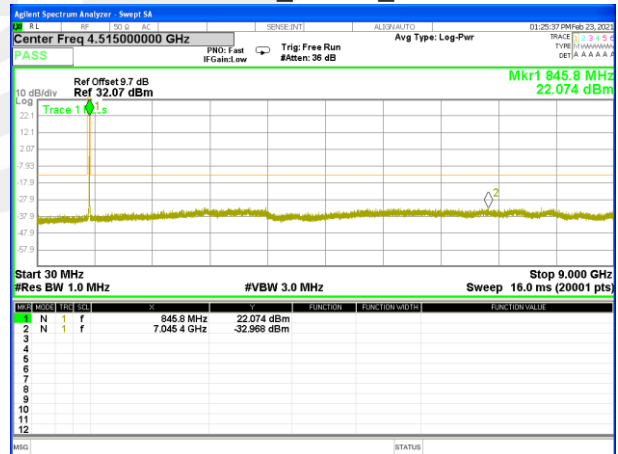
WCDMA\_Band5\_High



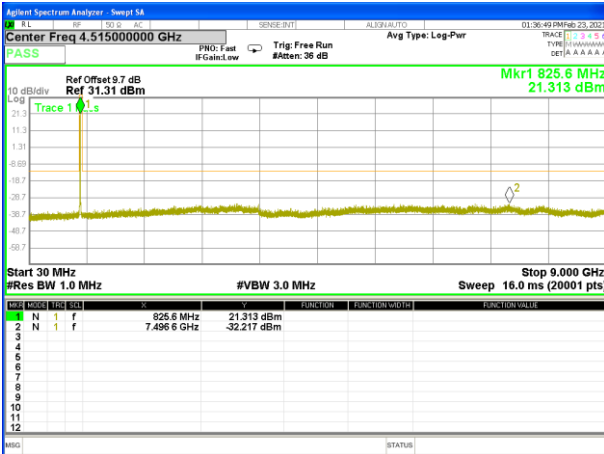
HSDPA\_Band5\_Low



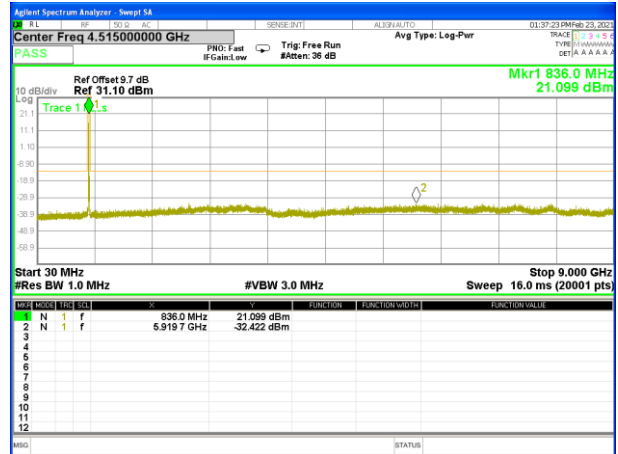
HSDPA\_Band5\_Middle



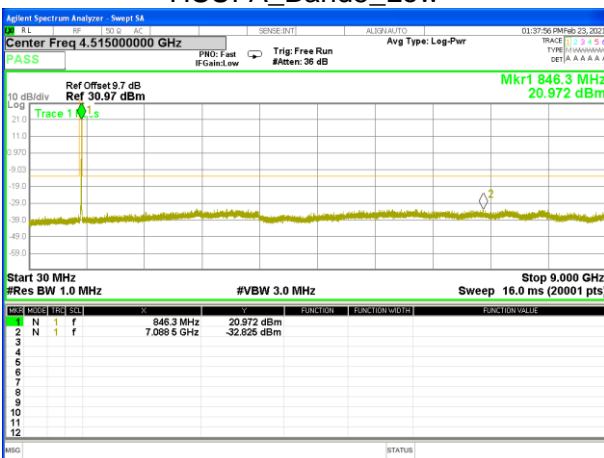
HSDPA\_Band5\_High



HSUPA\_Band5\_Low



HSUPA\_Band5\_Middle



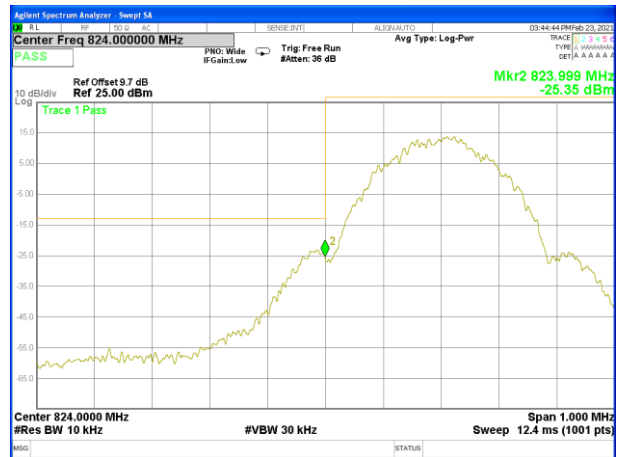
HSUPA\_Band5\_High



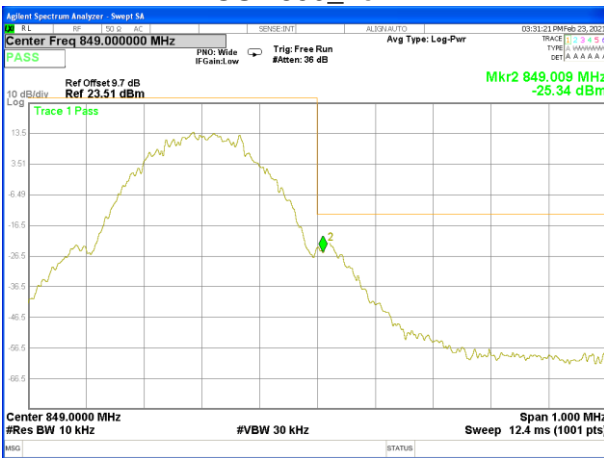
### A7. BAND EDGE



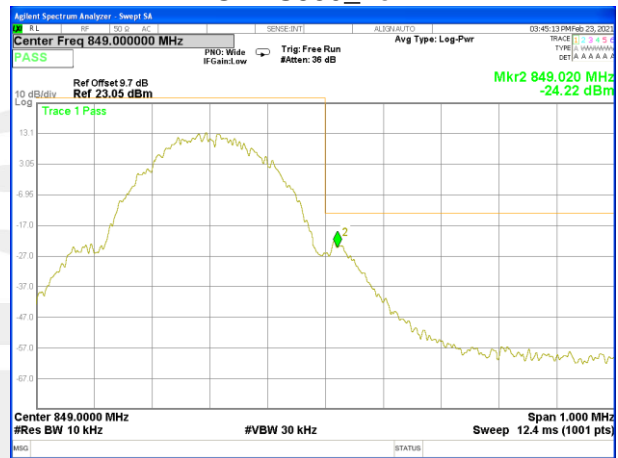
GSM850\_Low



GPRS850\_Low



GSM850\_High



GPRS850\_High



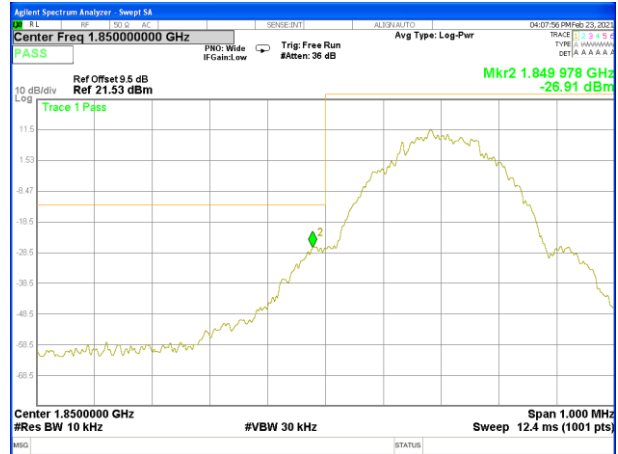
EGPRS850\_Low



EGPRS850\_High



GSM1900\_Low



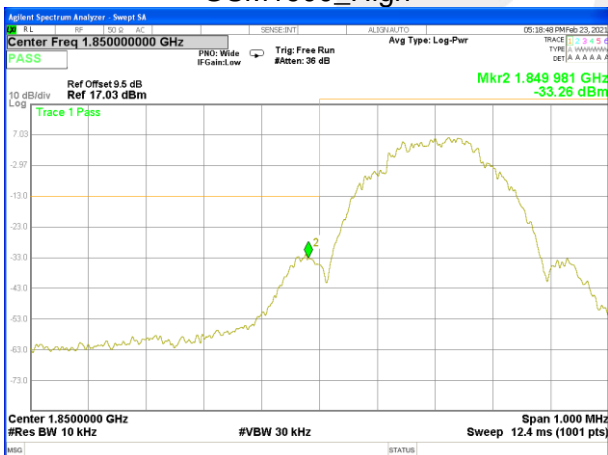
GPRS1900\_Low



GSM1900\_High



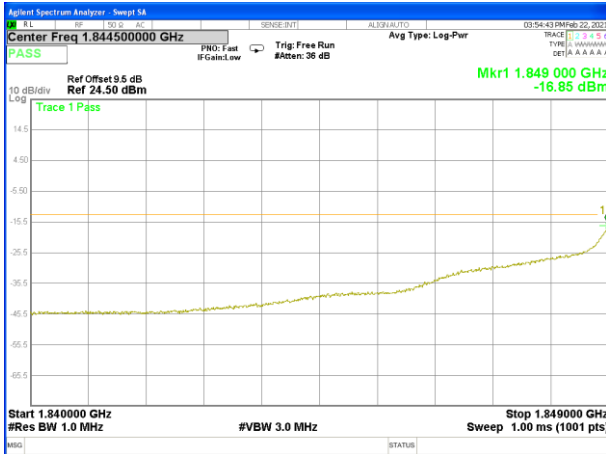
GPRS1900\_High



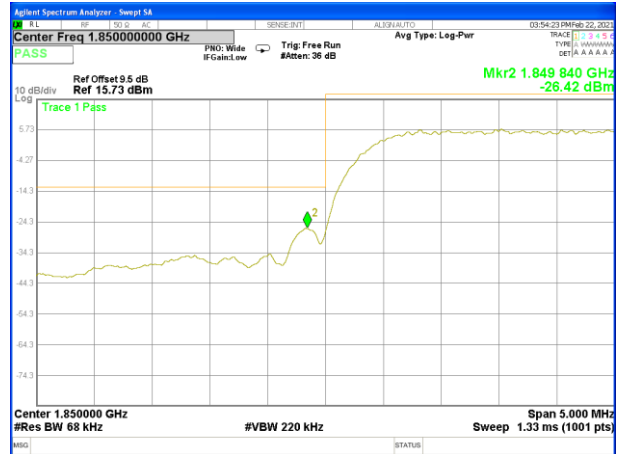
EGPRS1900\_Low



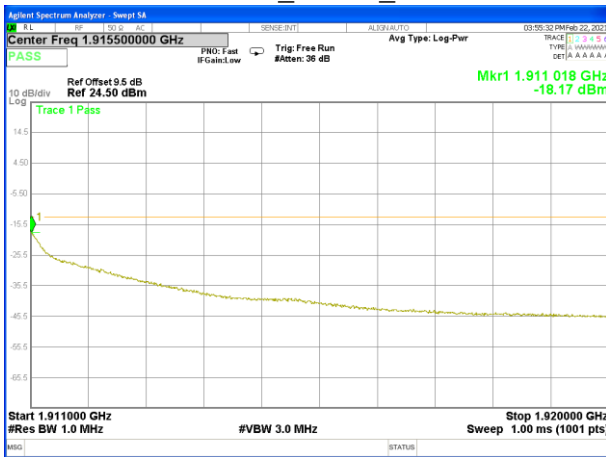
EGPRS1900\_High



WCDMA\_Band2\_Low



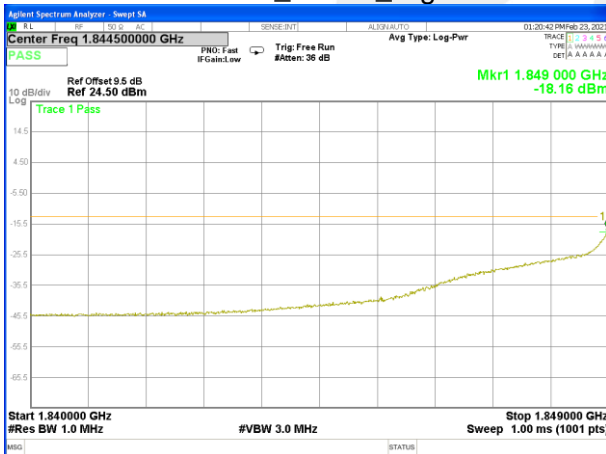
WCDMA\_Band2\_Low



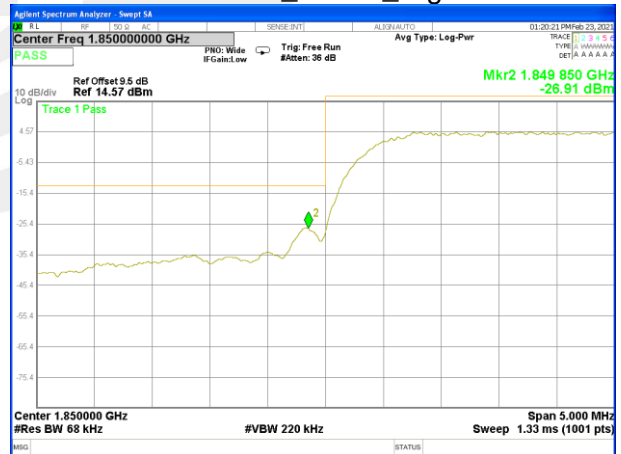
WCDMA\_Band2\_High



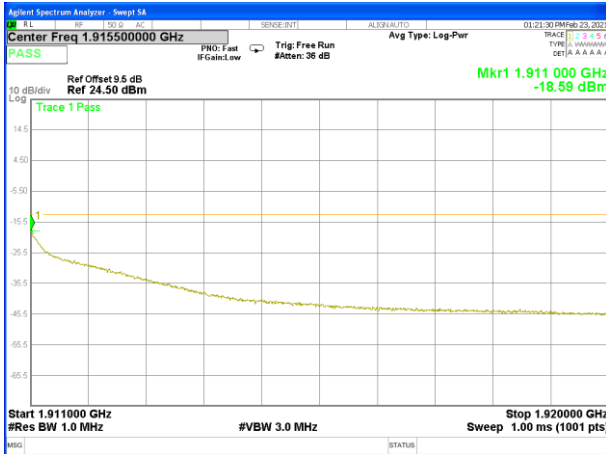
WCDMA\_Band2\_High



HSDPA\_Band2\_Low



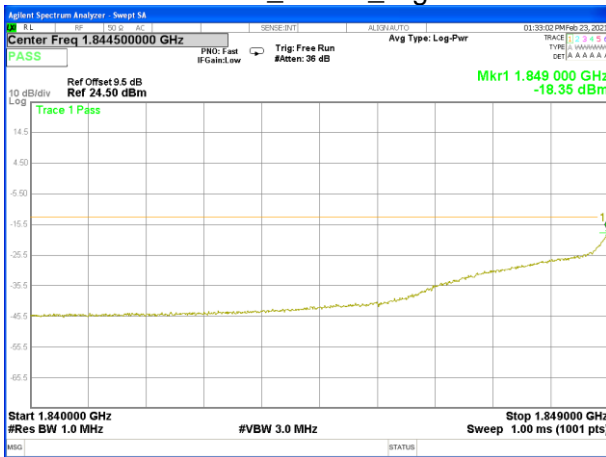
HSDPA\_Band2\_Low



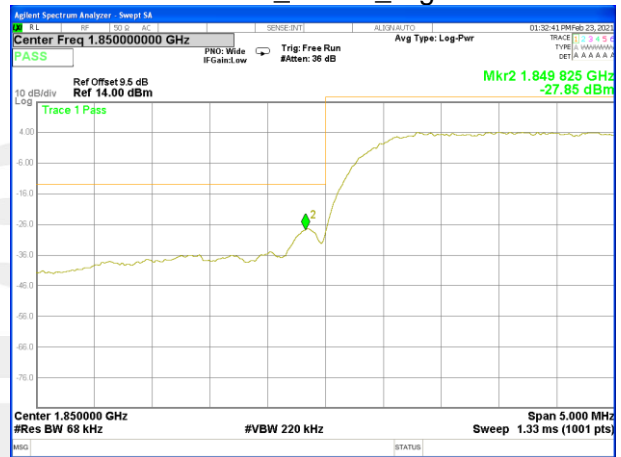
HSDPA\_Band2\_High



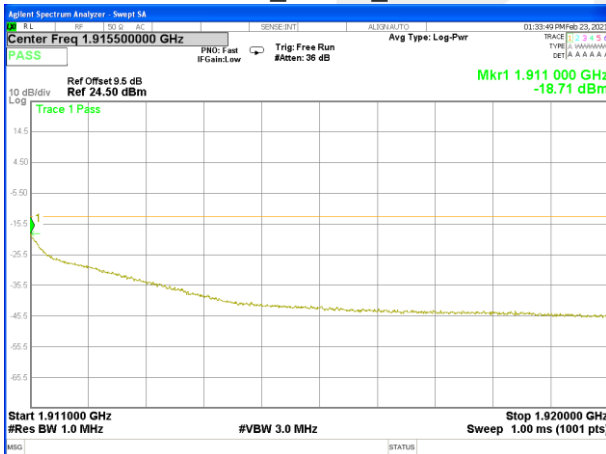
HSDPA\_Band2\_High



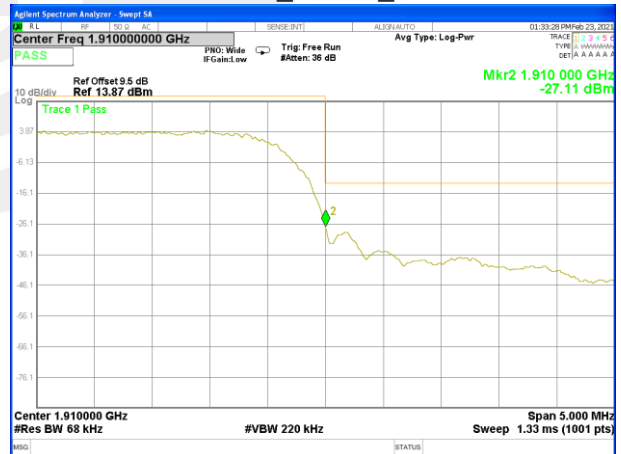
HSUPA\_Band2\_Low



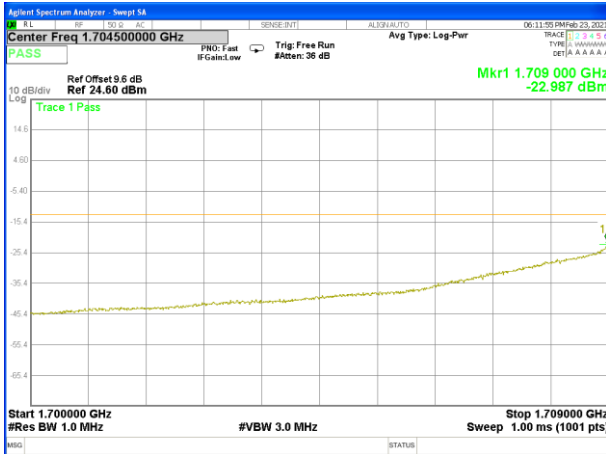
HSUPA\_Band2\_Low



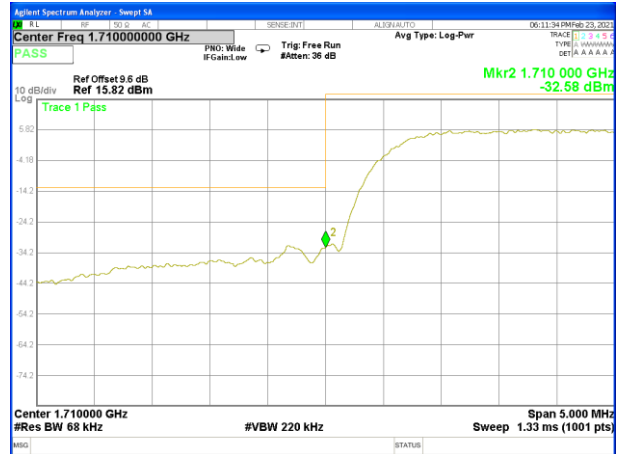
HSUPA\_Band2\_High



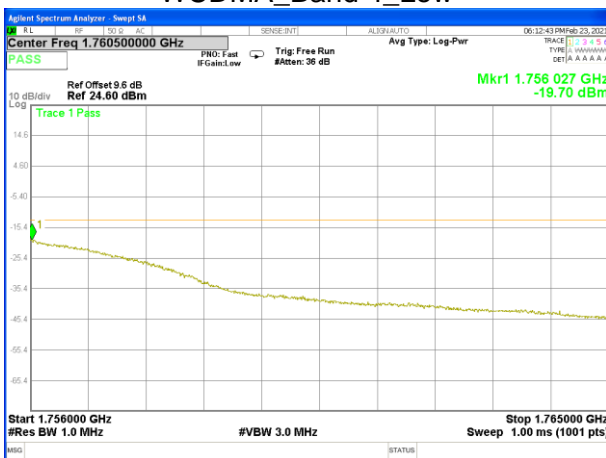
HSUPA\_Band2\_High



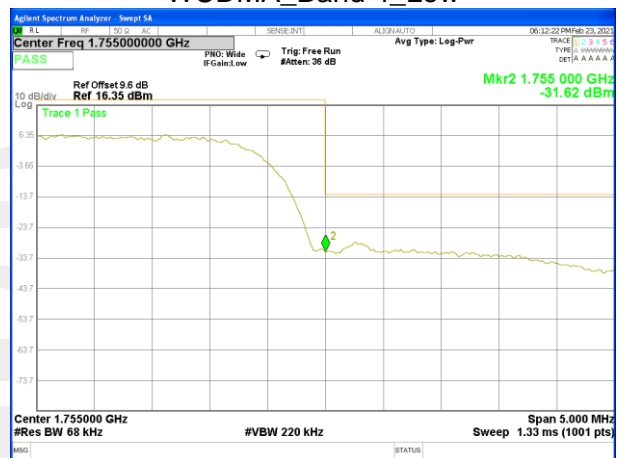
WCDMA\_Band 4\_Low



WCDMA\_Band 4\_Low



WCDMA\_Band 4\_High



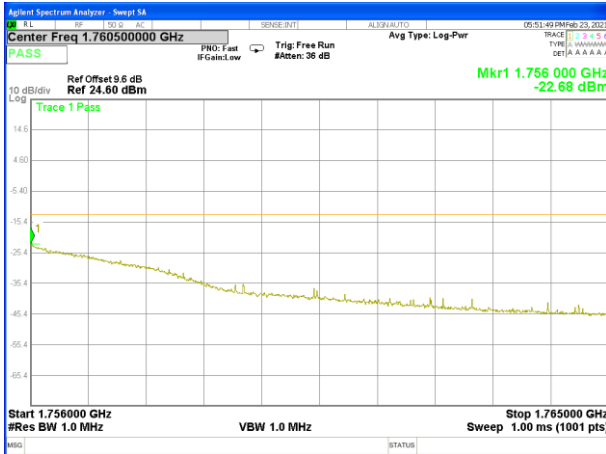
WCDMA\_Band 4\_High



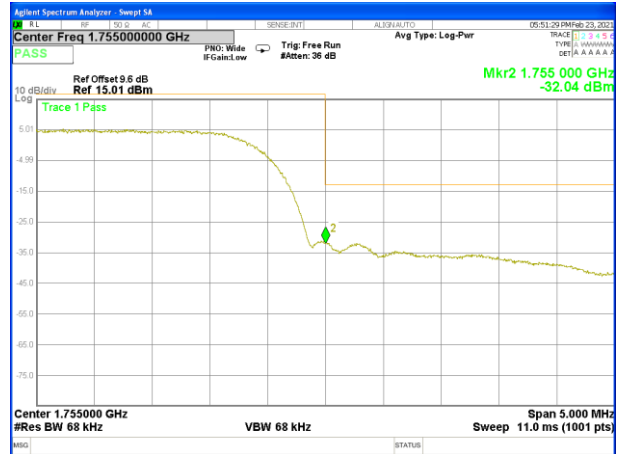
HSDPA\_Band 4\_Low



HSDPA\_Band 4\_Low



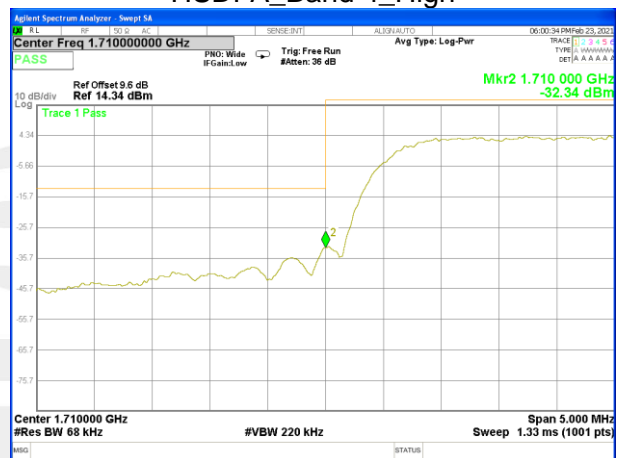
HSDPA\_Band 4\_High



HSDPA\_Band 4\_High



HSUPA\_Band 4\_Low



HSUPA\_Band 4\_Low

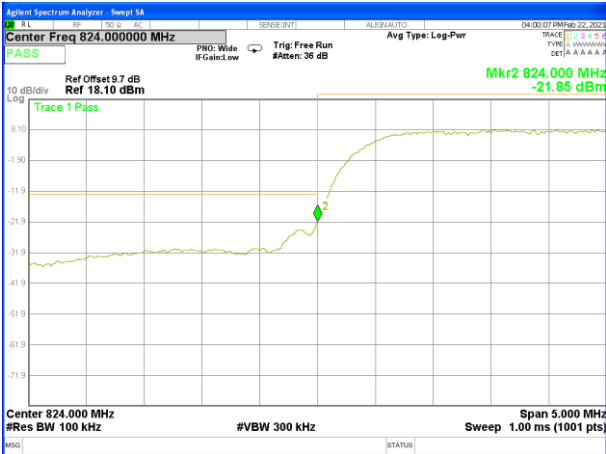


HSUPA\_Band 4\_High



HSUPA\_Band 4\_High

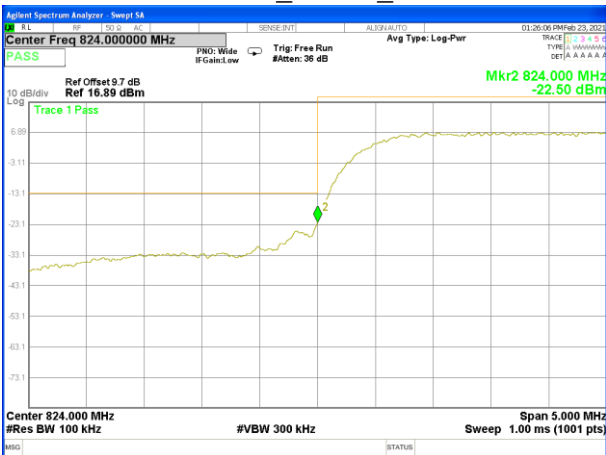




WCDMA\_Band5\_Low



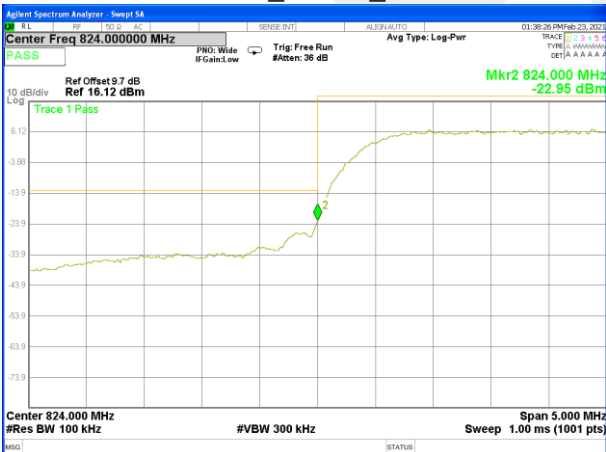
WCDMA\_Band5\_High



HSDPA\_Band5\_Low



HSDPA\_Band5\_High



HSUPA\_Band5\_Low



HSUPA\_Band5\_High



A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

**Note:** (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

GSM 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1648.34	-40.40	9.40	4.75	-35.75	-13.00	-22.75	H
2472.64	-39.41	10.60	8.39	-37.20	-13.00	-24.20	H
3296.76	-32.20	12.00	11.79	-31.99	-13.00	-18.99	H
1648.17	-44.07	9.40	4.75	-39.42	-13.00	-26.42	V
2472.71	-44.33	10.60	8.39	-42.12	-13.00	-29.12	V
3296.74	-42.87	12.00	11.79	-42.66	-13.00	-29.66	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1673.15	-40.60	9.50	4.76	-35.86	-13.00	-22.86	H
2509.66	-40.13	10.70	8.40	-37.83	-13.00	-24.83	H
3346.18	-32.00	12.20	11.80	-31.60	-13.00	-18.60	H
1672.90	-44.55	9.40	4.75	-39.90	-13.00	-26.90	V
2509.47	-45.10	10.60	8.39	-42.89	-13.00	-29.89	V
3346.01	-43.60	12.20	11.82	-43.22	-13.00	-30.22	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1697.23	-41.56	9.60	4.77	-36.73	-13.00	-23.73	H
2546.19	-40.41	10.80	8.50	-38.11	-13.00	-25.11	H
3395.02	-31.30	12.50	11.90	-30.70	-13.00	-17.70	H
1697.42	-43.38	9.60	4.77	-38.55	-13.00	-25.55	V
2546.40	-44.82	10.80	8.50	-42.52	-13.00	-29.52	V
3395.20	-43.51	12.50	11.90	-42.91	-13.00	-29.91	V



GPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
1648.44	-41.56	9.40	4.75	-36.91	-13.00	-23.91	H
2472.58	-39.60	10.60	8.39	-37.39	-13.00	-24.39	H
3296.74	-31.86	12.00	11.79	-31.65	-13.00	-18.65	H
1648.23	-44.43	9.40	4.75	-39.78	-13.00	-26.78	V
2472.30	-44.51	10.60	8.39	-42.30	-13.00	-29.30	V
3296.59	-43.49	12.00	11.79	-43.28	-13.00	-30.28	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
1673.17	-40.50	9.50	4.76	-35.76	-13.00	-22.76	H
2509.57	-39.84	10.70	8.40	-37.54	-13.00	-24.54	H
3346.34	-31.99	12.20	11.80	-31.59	-13.00	-18.59	H
1673.21	-44.05	9.40	4.75	-39.40	-13.00	-26.40	V
2509.89	-44.05	10.60	8.39	-41.84	-13.00	-28.84	V
3346.24	-43.01	12.20	11.82	-42.63	-13.00	-29.63	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
1697.44	-41.03	9.60	4.77	-36.20	-13.00	-23.20	H
2546.42	-39.45	10.80	8.50	-37.15	-13.00	-24.15	H
3394.91	-30.99	12.50	11.90	-30.39	-13.00	-17.39	H
1697.40	-43.36	9.60	4.77	-38.53	-13.00	-25.53	V
2546.26	-44.08	10.80	8.50	-41.78	-13.00	-28.78	V
3395.11	-43.11	12.50	11.90	-42.51	-13.00	-29.51	V



EGPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1648.44	-40.87	9.40	4.75	-36.22	-13.00	-23.22	H
2472.61	-39.17	10.60	8.39	-36.96	-13.00	-23.96	H
3296.87	-31.18	12.00	11.79	-30.97	-13.00	-17.97	H
1648.38	-44.41	9.40	4.75	-39.76	-13.00	-26.76	V
2472.22	-44.43	10.60	8.39	-42.22	-13.00	-29.22	V
3296.68	-42.98	12.00	11.79	-42.77	-13.00	-29.77	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1672.97	-40.93	9.50	4.76	-36.19	-13.00	-23.19	H
2509.61	-39.58	10.70	8.40	-37.28	-13.00	-24.28	H
3346.25	-32.22	12.20	11.80	-31.82	-13.00	-18.82	H
1673.14	-44.55	9.40	4.75	-39.90	-13.00	-26.90	V
2509.72	-44.94	10.60	8.39	-42.73	-13.00	-29.73	V
3346.05	-43.85	12.20	11.82	-43.47	-13.00	-30.47	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1697.19	-40.49	9.60	4.77	-35.66	-13.00	-22.66	H
2546.09	-40.02	10.80	8.50	-37.72	-13.00	-24.72	H
3394.95	-31.89	12.50	11.90	-31.29	-13.00	-18.29	H
1697.23	-43.36	9.60	4.77	-38.53	-13.00	-25.53	V
2546.33	-44.13	10.80	8.50	-41.83	-13.00	-28.83	V
3395.24	-42.64	12.50	11.90	-42.04	-13.00	-29.04	V



DCS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3700.03	-33.92	12.60	12.93	-34.25	-13.00	-21.25	H
5550.19	-35.49	13.10	17.11	-39.50	-13.00	-26.50	H
7400.94	-32.83	11.50	22.20	-43.53	-13.00	-30.53	H
3700.36	-34.75	12.60	12.93	-35.08	-13.00	-22.08	V
5550.21	-35.25	13.10	17.11	-39.26	-13.00	-26.26	V
7400.55	-32.42	11.50	22.20	-43.12	-13.00	-30.12	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3760.06	-34.91	12.60	12.93	-35.24	-13.00	-22.24	H
5640.03	-34.11	13.10	17.11	-38.12	-13.00	-25.12	H
7519.91	-33.16	11.50	22.20	-43.86	-13.00	-30.86	H
3759.94	-35.46	12.60	12.93	-35.79	-13.00	-22.79	V
5640.16	-34.26	13.10	17.11	-38.27	-13.00	-25.27	V
7520.05	-32.17	11.50	22.20	-42.87	-13.00	-29.87	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3819.72	-33.76	12.60	12.93	-34.09	-13.00	-21.09	H
5729.25	-34.25	13.10	17.11	-38.26	-13.00	-25.26	H
7639.29	-32.22	11.50	22.20	-42.92	-13.00	-29.92	H
3819.72	-34.98	12.60	12.93	-35.31	-13.00	-22.31	V
5729.40	-34.50	13.10	17.11	-38.51	-13.00	-25.51	V
7639.13	-32.17	11.50	22.20	-42.87	-13.00	-29.87	V



GPRS1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3700.47	-34.73	12.60	12.93	-35.06	-13.00	-22.06	H
5550.21	-34.79	13.10	17.11	-38.80	-13.00	-25.80	H
7400.67	-32.22	11.50	22.20	-42.92	-13.00	-29.92	H
3700.17	-35.93	12.60	12.93	-36.26	-13.00	-23.26	V
5550.35	-34.64	13.10	17.11	-38.65	-13.00	-25.65	V
7400.70	-32.26	11.50	22.20	-42.96	-13.00	-29.96	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3759.95	-34.56	12.60	12.93	-34.89	-13.00	-21.89	H
5640.17	-35.30	13.10	17.11	-39.31	-13.00	-26.31	H
7520.13	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3760.13	-34.54	12.60	12.93	-34.87	-13.00	-21.87	V
5639.86	-34.28	13.10	17.11	-38.29	-13.00	-25.29	V
7519.92	-32.03	11.50	22.20	-42.73	-13.00	-29.73	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3819.26	-33.80	12.60	12.93	-34.13	-13.00	-21.13	H
5729.30	-34.47	13.10	17.11	-38.48	-13.00	-25.48	H
7639.31	-33.55	11.50	22.20	-44.25	-13.00	-31.25	H
3819.55	-35.76	12.60	12.93	-36.09	-13.00	-23.09	V
5729.18	-34.31	13.10	17.11	-38.32	-13.00	-25.32	V
7639.29	-32.52	11.50	22.20	-43.22	-13.00	-30.22	V



EGPRS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3700.35	-33.68	12.60	12.93	-34.01	-13.00	-21.01	H
5550.37	-34.08	13.10	17.11	-38.09	-13.00	-25.09	H
7400.70	-33.61	11.50	22.20	-44.31	-13.00	-31.31	H
3700.07	-34.77	12.60	12.93	-35.10	-13.00	-22.10	V
5550.53	-34.08	13.10	17.11	-38.09	-13.00	-25.09	V
7400.61	-32.56	11.50	22.20	-43.26	-13.00	-30.26	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3760.10	-34.48	12.60	12.93	-34.81	-13.00	-21.81	H
5640.03	-34.49	13.10	17.11	-38.50	-13.00	-25.50	H
7519.89	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3760.19	-35.43	12.60	12.93	-35.76	-13.00	-22.76	V
5640.01	-35.08	13.10	17.11	-39.09	-13.00	-26.09	V
7520.14	-32.72	11.50	22.20	-43.42	-13.00	-30.42	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3819.71	-34.08	12.60	12.93	-34.41	-13.00	-21.41	H
5729.20	-34.84	13.10	17.11	-38.85	-13.00	-25.85	H
7639.10	-33.26	11.50	22.20	-43.96	-13.00	-30.96	H
3819.37	-35.76	12.60	12.93	-36.09	-13.00	-23.09	V
5729.50	-34.22	13.10	17.11	-38.23	-13.00	-25.23	V
7638.95	-31.80	11.50	22.20	-42.50	-13.00	-29.50	V





WCDMA Band 5: (30-9000)MHz							
The most testresults channel 4132/826.4MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1652.50	-41.09	9.40	4.75	-36.44	-13.00	-23.44	H
2479.65	-39.48	10.60	8.39	-37.27	-13.00	-24.27	H
3305.65	-32.25	12.00	11.79	-32.04	-13.00	-19.04	H
1652.23	-44.59	9.40	4.75	-39.94	-13.00	-26.94	V
2479.51	-43.99	10.60	8.39	-41.78	-13.00	-28.78	V
3305.45	-43.61	12.00	11.79	-43.40	-13.00	-30.40	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1672.96	-40.98	9.40	4.75	-36.33	-13.00	-23.33	H
2509.42	-40.07	10.60	8.39	-37.86	-13.00	-24.86	H
3346.17	-32.20	12.00	11.79	-31.99	-13.00	-18.99	H
1673.20	-43.59	9.40	4.75	-38.94	-13.00	-25.94	V
2509.56	-44.49	10.60	8.39	-42.28	-13.00	-29.28	V
3346.25	-43.78	12.00	11.79	-43.57	-13.00	-30.57	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1693.46	-41.44	9.40	4.75	-36.79	-13.00	-23.79	H
2539.42	-40.36	10.60	8.39	-38.15	-13.00	-25.15	H
3386.17	-31.52	12.00	11.79	-31.31	-13.00	-18.31	H
1693.31	-43.84	9.40	4.75	-39.19	-13.00	-26.19	V
2539.07	-45.33	10.60	8.39	-43.12	-13.00	-30.12	V
3386.32	-42.60	12.00	11.79	-42.39	-13.00	-29.39	V





HSUPA Band 5: (30-9000)MHz							
The most testresults channel 4132/826.4MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1652.23	-40.85	9.40	4.75	-36.20	-13.00	-23.20	H
2479.46	-40.43	10.60	8.39	-38.22	-13.00	-25.22	H
3305.66	-31.09	12.00	11.79	-30.88	-13.00	-17.88	H
1652.06	-43.32	9.40	4.75	-38.67	-13.00	-25.67	V
2479.38	-44.75	10.60	8.39	-42.54	-13.00	-29.54	V
3305.51	-43.07	12.00	11.79	-42.86	-13.00	-29.86	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1673.18	-41.00	9.40	4.75	-36.35	-13.00	-23.35	H
2509.64	-39.77	10.60	8.39	-37.56	-13.00	-24.56	H
3346.22	-31.92	12.00	11.79	-31.71	-13.00	-18.71	H
1673.12	-43.34	9.40	4.75	-38.69	-13.00	-25.69	V
2509.90	-44.52	10.60	8.39	-42.31	-13.00	-29.31	V
3346.34	-43.78	12.00	11.79	-43.57	-13.00	-30.57	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1693.60	-41.55	9.40	4.75	-36.90	-13.00	-23.90	H
2539.43	-39.29	10.60	8.39	-37.08	-13.00	-24.08	H
3386.30	-32.25	12.00	11.79	-32.04	-13.00	-19.04	H
1693.55	-43.41	9.40	4.75	-38.76	-13.00	-25.76	V
2539.41	-43.99	10.60	8.39	-41.78	-13.00	-28.78	V
3386.13	-42.71	12.00	11.79	-42.50	-13.00	-29.50	V



HSDPA Band 5: (30-9000)MHz							
The most testresults channel 4132/826.4MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1652.12	-40.37	9.40	4.75	-35.72	-13.00	-22.72	H
2479.55	-39.21	10.60	8.39	-37.00	-13.00	-24.00	H
3305.76	-31.28	12.00	11.79	-31.07	-13.00	-18.07	H
1652.21	-44.64	9.40	4.75	-39.99	-13.00	-26.99	V
2479.30	-44.65	10.60	8.39	-42.44	-13.00	-29.44	V
3305.58	-43.45	12.00	11.79	-43.24	-13.00	-30.24	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1673.08	-41.18	9.40	4.75	-36.53	-13.00	-23.53	H
2509.43	-40.27	10.60	8.39	-38.06	-13.00	-25.06	H
3345.99	-31.52	12.00	11.79	-31.31	-13.00	-18.31	H
1673.16	-43.46	9.40	4.75	-38.81	-13.00	-25.81	V
2509.59	-44.68	10.60	8.39	-42.47	-13.00	-29.47	V
3346.15	-42.58	12.00	11.79	-42.37	-13.00	-29.37	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
1693.45	-41.29	9.40	4.75	-36.64	-13.00	-23.64	H
2539.41	-40.45	10.60	8.39	-38.24	-13.00	-25.24	H
3386.19	-30.94	12.00	11.79	-30.73	-13.00	-17.73	H
1693.39	-43.78	9.40	4.75	-39.13	-13.00	-26.13	V
2539.16	-45.40	10.60	8.39	-43.19	-13.00	-30.19	V
3386.02	-43.37	12.00	11.79	-43.16	-13.00	-30.16	V



WCDMA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3704.09	-34.03	12.60	12.93	-34.36	-13.00	-21.36	H
5557.32	-34.36	13.10	17.11	-38.37	-13.00	-25.37	H
7409.85	-33.51	11.50	22.20	-44.21	-13.00	-31.21	H
3704.41	-35.83	12.60	12.93	-36.16	-13.00	-23.16	V
5557.22	-34.13	13.10	17.11	-38.14	-13.00	-25.14	V
7409.89	-32.34	11.50	22.20	-43.04	-13.00	-30.04	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3760.11	-33.54	12.60	12.93	-33.87	-13.00	-20.87	H
5640.28	-34.28	13.10	17.11	-38.29	-13.00	-25.29	H
7520.11	-32.49	11.50	22.20	-43.19	-13.00	-30.19	H
3760.04	-35.66	12.60	12.93	-35.99	-13.00	-22.99	V
5640.02	-34.54	13.10	17.11	-38.55	-13.00	-25.55	V
7519.99	-32.77	11.50	22.20	-43.47	-13.00	-30.47	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3815.49	-33.97	12.60	12.93	-34.30	-13.00	-21.30	H
5722.33	-34.83	13.10	17.11	-38.84	-13.00	-25.84	H
7630.32	-32.98	11.50	22.20	-43.68	-13.00	-30.68	H
3815.27	-35.18	12.60	12.93	-35.51	-13.00	-22.51	V
5722.39	-35.15	13.10	17.11	-39.16	-13.00	-26.16	V
7630.27	-31.85	11.50	22.20	-42.55	-13.00	-29.55	V



HSUPA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3704.18	-34.41	12.60	12.93	-34.74	-13.00	-21.74	H
5557.57	-34.52	13.10	17.11	-38.53	-13.00	-25.53	H
7409.76	-32.50	11.50	22.20	-43.20	-13.00	-30.20	H
3704.41	-35.61	12.60	12.93	-35.94	-13.00	-22.94	V
5557.27	-34.73	13.10	17.11	-38.74	-13.00	-25.74	V
7409.68	-32.94	11.50	22.20	-43.64	-13.00	-30.64	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3760.01	-33.50	12.60	12.93	-33.83	-13.00	-20.83	H
5639.94	-34.29	13.10	17.11	-38.30	-13.00	-25.30	H
7519.81	-32.60	11.50	22.20	-43.30	-13.00	-30.30	H
3759.86	-34.70	12.60	12.93	-35.03	-13.00	-22.03	V
5640.33	-35.10	13.10	17.11	-39.11	-13.00	-26.11	V
7520.25	-32.70	11.50	22.20	-43.40	-13.00	-30.40	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3815.47	-34.59	12.60	12.93	-34.92	-13.00	-21.92	H
5722.17	-34.92	13.10	17.11	-38.93	-13.00	-25.93	H
7630.19	-33.46	11.50	22.20	-44.16	-13.00	-31.16	H
3815.73	-35.28	12.60	12.93	-35.61	-13.00	-22.61	V
5722.25	-34.01	13.10	17.11	-38.02	-13.00	-25.02	V
7629.90	-32.53	11.50	22.20	-43.23	-13.00	-30.23	V



HSDPA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3704.20	-33.67	12.60	12.93	-34.00	-13.00	-21.00	H
5557.62	-35.45	13.10	17.11	-39.46	-13.00	-26.46	H
7409.66	-33.06	11.50	22.20	-43.76	-13.00	-30.76	H
3704.41	-35.09	12.60	12.93	-35.42	-13.00	-22.42	V
5557.40	-34.60	13.10	17.11	-38.61	-13.00	-25.61	V
7409.70	-32.77	11.50	22.20	-43.47	-13.00	-30.47	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3760.02	-34.77	12.60	12.93	-35.10	-13.00	-22.10	H
5640.07	-34.51	13.10	17.11	-38.52	-13.00	-25.52	H
7520.05	-33.65	11.50	22.20	-44.35	-13.00	-31.35	H
3760.03	-35.29	12.60	12.93	-35.62	-13.00	-22.62	V
5640.00	-34.66	13.10	17.11	-38.67	-13.00	-25.67	V
7519.85	-32.43	11.50	22.20	-43.13	-13.00	-30.13	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3815.66	-34.54	12.60	12.93	-34.87	-13.00	-21.87	H
5722.17	-34.90	13.10	17.11	-38.91	-13.00	-25.91	H
7630.19	-32.92	11.50	22.20	-43.62	-13.00	-30.62	H
3815.50	-35.06	12.60	12.93	-35.39	-13.00	-22.39	V
5722.14	-33.88	13.10	17.11	-37.89	-13.00	-24.89	V
7630.17	-32.28	11.50	22.20	-42.98	-13.00	-29.98	V



WCDMA Band 4: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
3424.92	-33.55	12.90	12.05	-32.70	-13.00	-19.70	H
5137.65	-35.46	12.80	16.27	-38.93	-13.00	-25.93	H
6850.35	-33.50	12.30	20.13	-41.33	-13.00	-28.33	H
3424.92	-35.86	12.90	12.05	-35.01	-13.00	-22.01	V
5137.58	-35.23	12.80	16.27	-38.70	-13.00	-25.70	V
6850.19	-32.78	12.30	20.13	-40.61	-13.00	-27.61	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
3479.86	-33.96	12.90	12.05	-33.11	-13.00	-20.11	H
5219.82	-34.04	12.80	16.27	-37.51	-13.00	-24.51	H
6959.88	-32.31	12.30	20.13	-40.14	-13.00	-27.14	H
3479.85	-34.65	12.90	12.05	-33.80	-13.00	-20.80	V
5219.50	-34.80	12.80	16.27	-38.27	-13.00	-25.27	V
6959.53	-32.52	12.30	20.13	-40.35	-13.00	-27.35	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	( dBm )	(dBm)	
3504.47	-33.74	12.90	12.05	-32.89	-13.00	-19.89	H
5256.85	-35.10	12.80	16.27	-38.57	-13.00	-25.57	H
7009.40	-32.40	12.30	20.13	-40.23	-13.00	-27.23	H
3504.56	-35.70	12.90	12.05	-34.85	-13.00	-21.85	V
5256.74	-34.98	12.80	16.27	-38.45	-13.00	-25.45	V
7009.43	-31.95	12.30	20.13	-39.78	-13.00	-26.78	V



HSUPA Band 4: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3424.72	-34.12	12.90	12.05	-33.27	-13.00	-20.27	H
5137.78	-35.13	12.80	16.27	-38.60	-13.00	-25.60	H
6849.92	-33.07	12.30	20.13	-40.90	-13.00	-27.90	H
3424.82	-34.96	12.90	12.05	-34.11	-13.00	-21.11	V
5137.57	-34.69	12.80	16.27	-38.16	-13.00	-25.16	V
6850.37	-32.30	12.30	20.13	-40.13	-13.00	-27.13	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3479.73	-33.95	12.90	12.05	-33.10	-13.00	-20.10	H
5219.62	-35.13	12.80	16.27	-38.60	-13.00	-25.60	H
6959.69	-32.29	12.30	20.13	-40.12	-13.00	-27.12	H
3479.72	-34.79	12.90	12.05	-33.94	-13.00	-20.94	V
5219.86	-34.17	12.80	16.27	-37.64	-13.00	-24.64	V
6959.83	-32.54	12.30	20.13	-40.37	-13.00	-27.37	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3504.39	-34.52	12.90	12.05	-33.67	-13.00	-20.67	H
5256.99	-34.81	12.80	16.27	-38.28	-13.00	-25.28	H
7009.26	-33.46	12.30	20.13	-41.29	-13.00	-28.29	H
3504.65	-35.64	12.90	12.05	-34.79	-13.00	-21.79	V
5256.84	-34.12	12.80	16.27	-37.59	-13.00	-24.59	V
7009.57	-33.18	12.30	20.13	-41.01	-13.00	-28.01	V





HSDPA Band 4: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3425.07	-34.13	12.90	12.05	-33.28	-13.00	-20.28	H
5137.68	-34.94	12.80	16.27	-38.41	-13.00	-25.41	H
6850.28	-32.58	12.30	20.13	-40.41	-13.00	-27.41	H
3425.16	-34.57	12.90	12.05	-33.72	-13.00	-20.72	V
5137.75	-34.43	12.80	16.27	-37.90	-13.00	-24.90	V
6850.24	-32.18	12.30	20.13	-40.01	-13.00	-27.01	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3479.61	-33.54	12.90	12.05	-32.69	-13.00	-19.69	H
5219.82	-35.05	12.80	16.27	-38.52	-13.00	-25.52	H
6959.87	-33.00	12.30	20.13	-40.83	-13.00	-27.83	H
3479.91	-35.69	12.90	12.05	-34.84	-13.00	-21.84	V
5219.73	-35.24	12.80	16.27	-38.71	-13.00	-25.71	V
6959.93	-32.37	12.30	20.13	-40.20	-13.00	-27.20	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	G.Lev (dBm)			(dBm)	(dBm)	(dBm)	
3504.56	-34.65	12.90	12.05	-33.80	-13.00	-20.80	H
5257.19	-35.21	12.80	16.27	-38.68	-13.00	-25.68	H
7009.38	-32.33	12.30	20.13	-40.16	-13.00	-27.16	H
3504.75	-35.33	12.90	12.05	-34.48	-13.00	-21.48	V
5256.83	-34.00	12.80	16.27	-37.47	-13.00	-24.47	V
7009.34	-32.09	12.30	20.13	-39.92	-13.00	-26.92	V





#### APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*

