

# Appendix B

## CDMA BC0/BC1/BC10



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# 1 Effective (Isotropic) Radiated Power Output Data

## Part I - Test Results

Test Band	Test Mode	Test Channel	Measured [dBm]	EIRP [dBm]	Limit[dB m]	Verdict
CDMA BC1	CDMA /TM1	LCH	24.11	26.51	33	PASS
		MCH	24.09	26.49	33	PASS
		HCH	24.26	26.66	33	PASS

Test Band	Test Mode	Test Channel	Measured [dBm]	ERP [dBm]	Limit[dB m]	Verdict
CDMA BC0	CDMA /TM1	LCH	23.74	22.09	38.45	PASS
		MCH	23.85	22.2	38.45	PASS
		HCH	23.72	22.07	38.45	PASS
Test Band	Test Mode	Test Channel	Conducted power [dBm]			Verdict
CDMA BC10	CDMA /TM1	LCH	23.45			PASS
		MCH	23.32			PASS
		HCH	23.29			PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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## 2 Peak-to-Average Ratio

**Part I - Test Results**

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
BC0	CDMA /TM1	LCH	4.41	13	PASS
		MCH	4.26	13	PASS
		HCH	4.29	13	PASS
BC1	CDMA /TM1	LCH	3.57	13	PASS
		MCH	3.68	13	PASS
		HCH	3.22	13	PASS
BC10	CDMA/TM1	LCH	4.32	13	PASS
		MCH	4.41	13	PASS
		HCH	4.41	13	PASS

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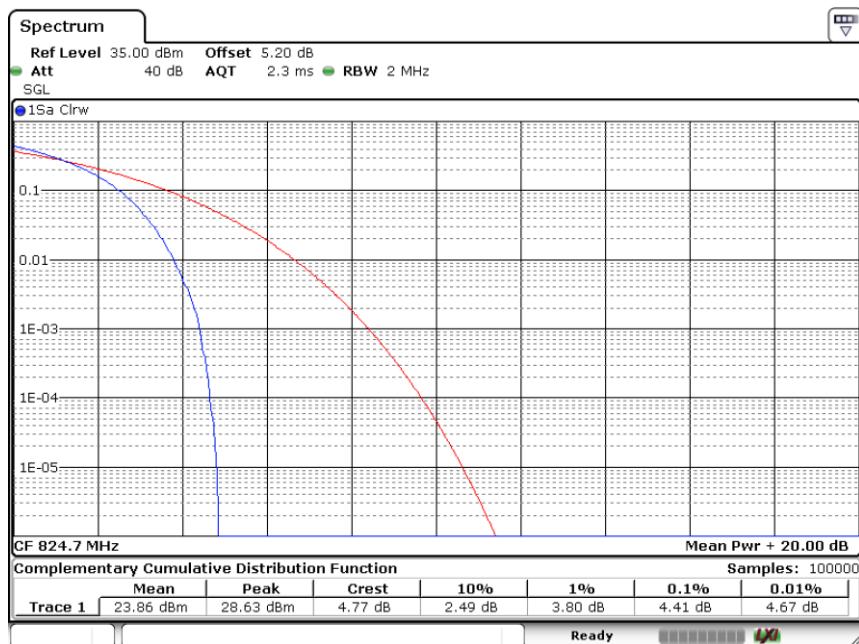
## Part II - Test Plots

## 2.1 For CDMA

## 2.1.1 Test Band = CDMA BC0

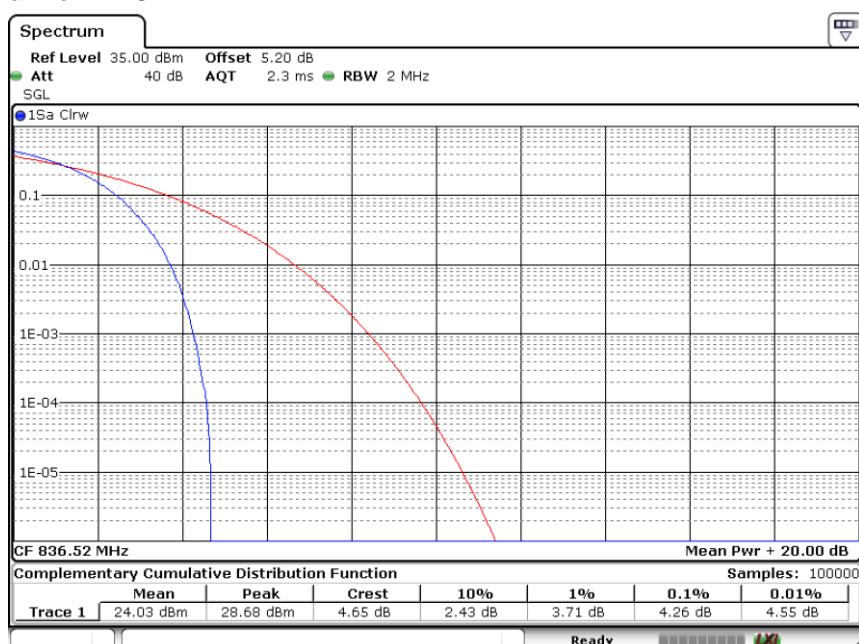
## 2.1.1.1 Test Mode = CDMA /TM1

## 2.1.1.1.1 Test Channel = LCH



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## 2.1.1.1.2 Test Channel = MCH

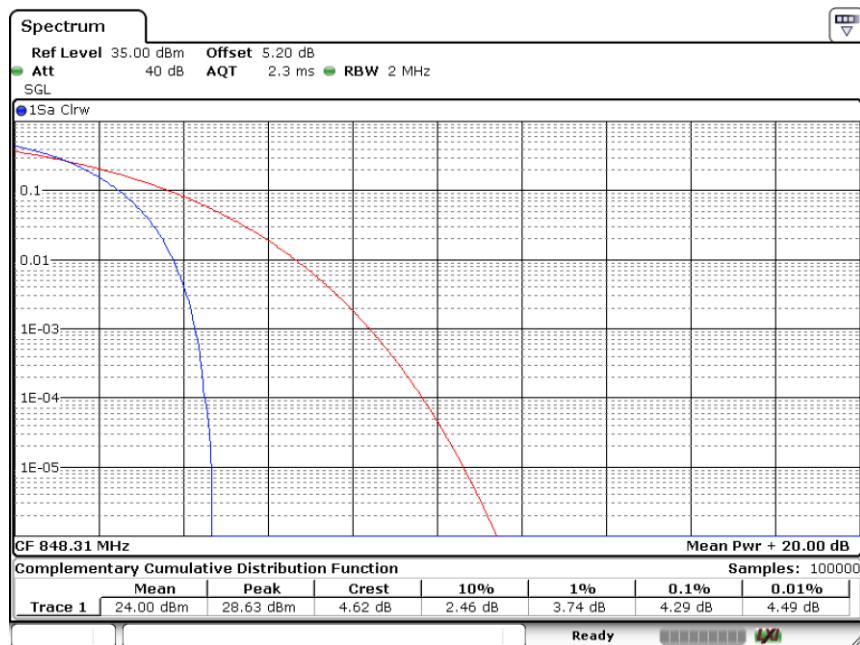


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## 2.1.1.1.3 Test Channel = HCH

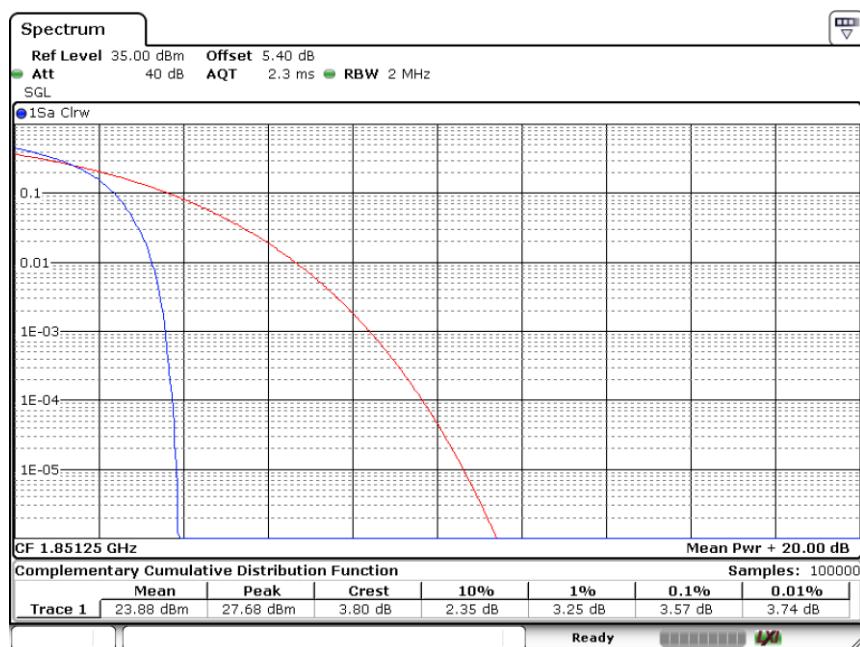


Date: 9.SEP.2020 10:29:37

## 2.1.2 Test Band = CDMA BC1

## 2.1.2.1 Test Mode = CDMA /TM1

## 2.1.2.1.1 Test Channel = LCH



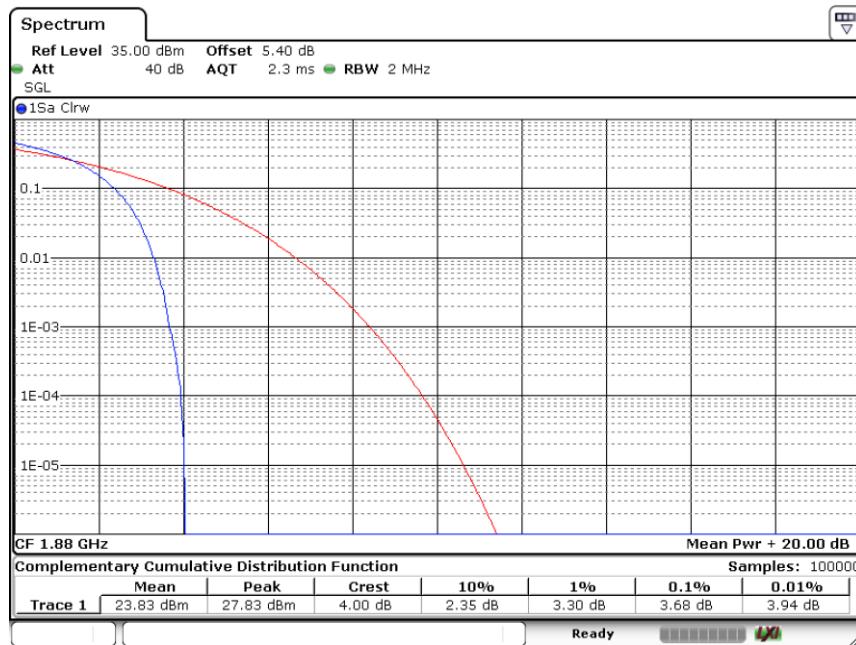
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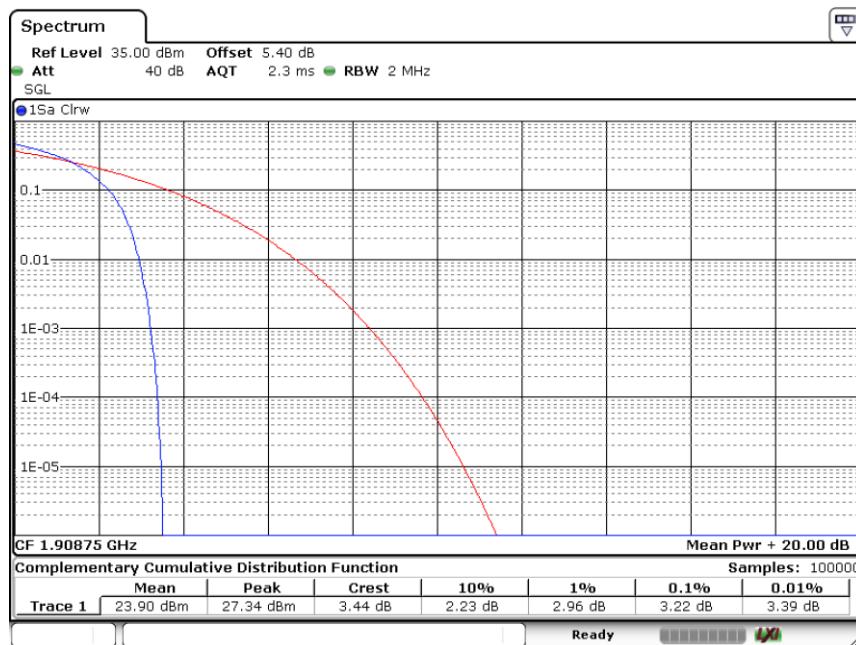


## 2.1.2.1.2 Test Channel = MCH



Date: 9 SEP 2020 11:07:18

## 2.1.2.1.3 Test Channel = HCH



Date: 9 SEP 2020 11:07:35

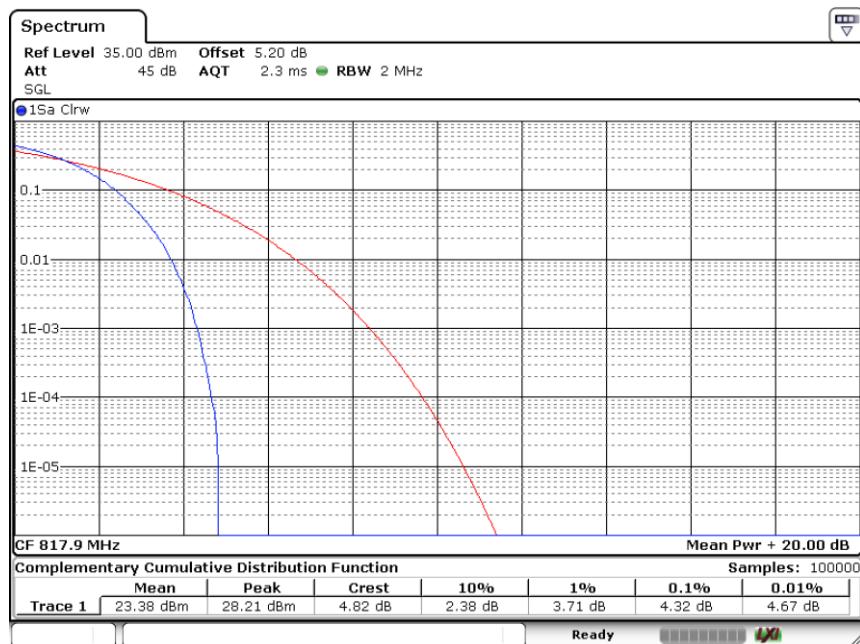
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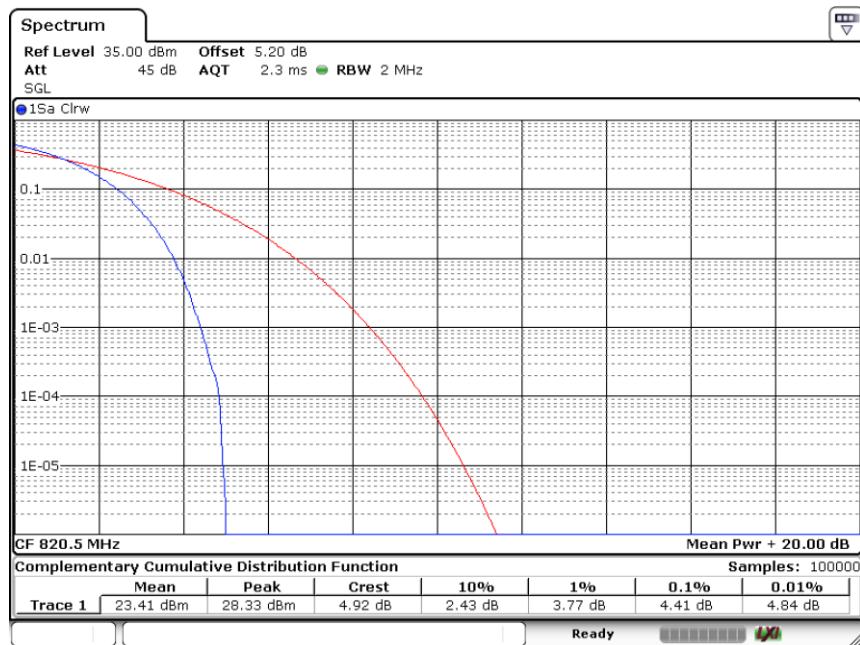


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**2.1.3 Test Band = CDMA BC10****2.1.3.1 Test Mode = CDMA /TM1****2.1.3.1.1 Test Channel = LCH**

Date: 9.SEP.2020 11:14:59

**2.1.3.1.2 Test Channel = MCH**

Date: 9.SEP.2020 11:15:36

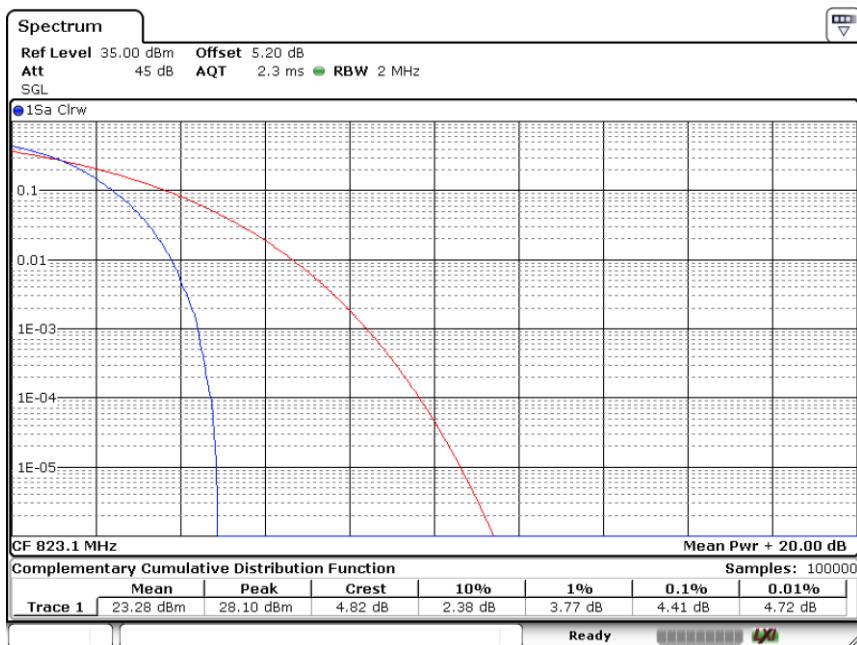
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## 2.1.3.1.3 Test Channel = HCH



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### 3 Modulation Characteristics

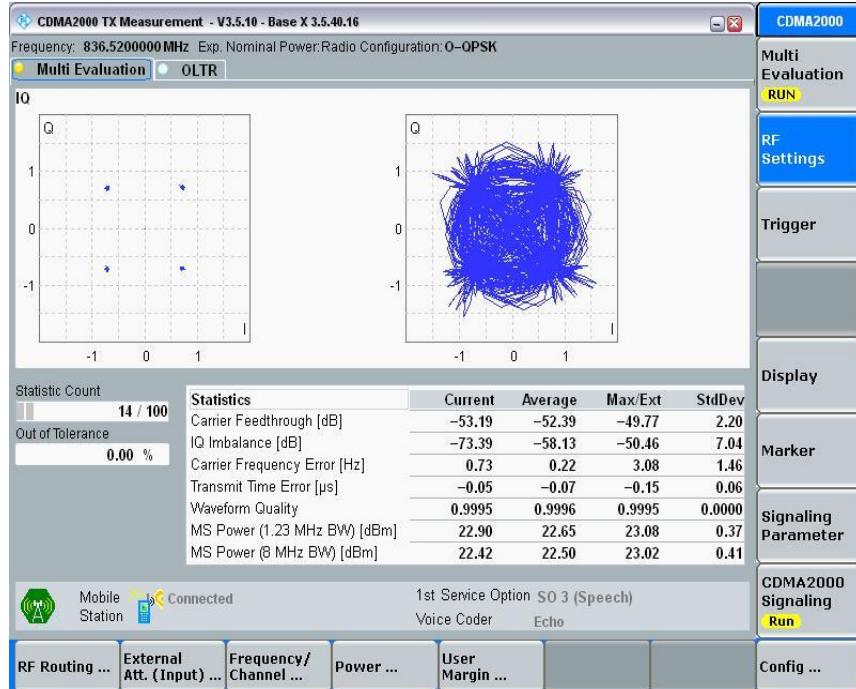
#### Part I - Test Plots

##### 3.1 For CDMA

###### 3.1.1 Test Band = CDMA BC0

###### 3.1.1.1 Test Mode = CDMA /TM1

###### 3.1.1.1.1 Test Channel = MCH



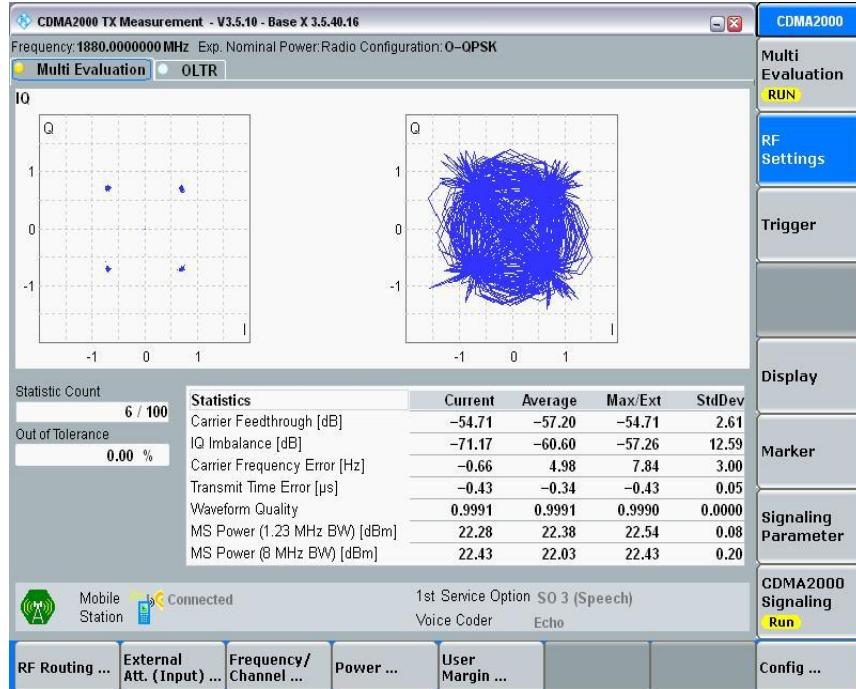
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**3.1.2 Test Band = CDMA BC1****3.1.2.1 Test Mode = CDMA /TM1****3.1.2.1.1 Test Channel = MCH**

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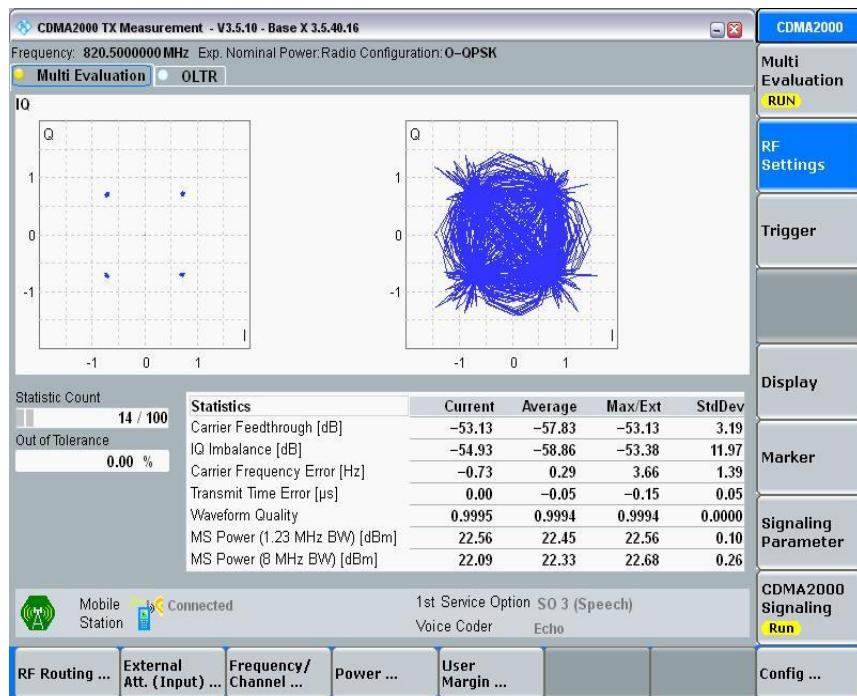


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### 3.1.3 Test Band = CDMA BC10

### 3.1.3.1 Test Mode = CDMA /TM1

### 3.1.3.1.1 Test Channel = MCH



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## 4 Bandwidth

### Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
CDMA BC0	CDMA/TM1	LCH	1.276	1.433	PASS
		MCH	1.276	1.437	PASS
		HCH	1.276	1.433	PASS
CDMA BC1	CDMA/TM1	LCH	1.296	1.463	PASS
		MCH	1.294	1.489	PASS
		HCH	1.320	1.789	PASS
CDMA BC10	CDMA/TM1	LCH	1.276	1.437	PASS
		MCH	1.276	1.437	PASS
		HCH	1.276	1.433	PASS

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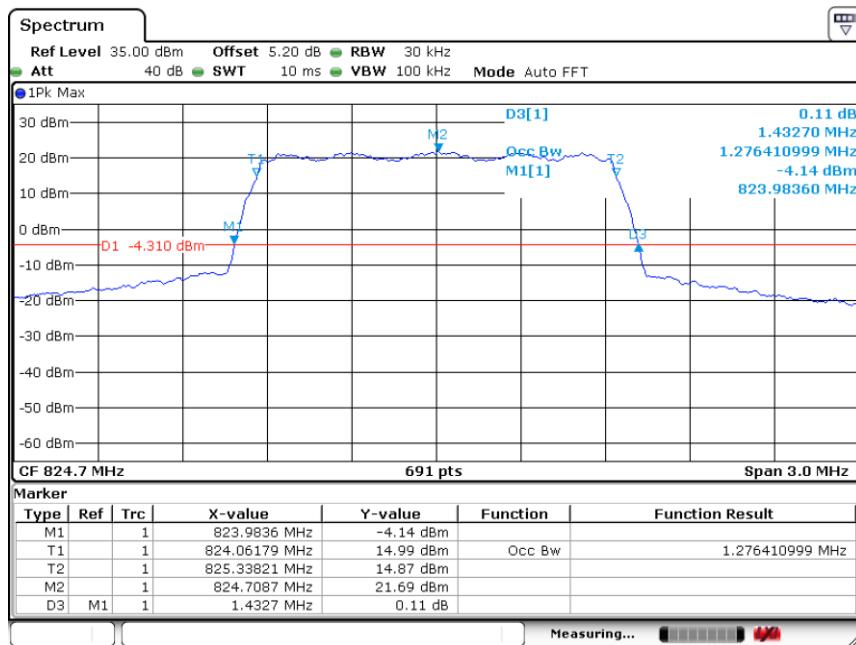
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## 4.1 For CDMA

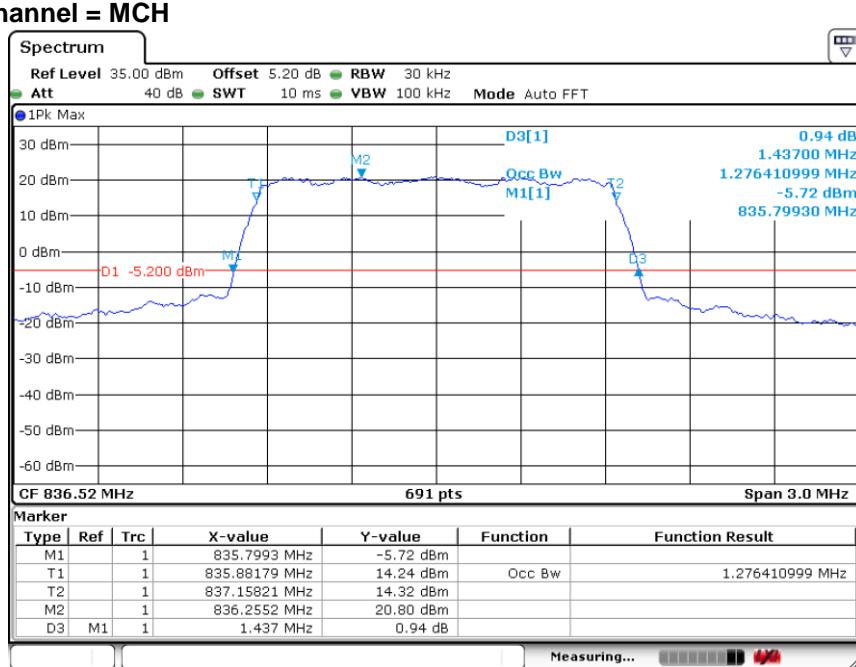
### 4.1.1 Test Band = CDMA BC0

#### 4.1.1.1 Test Mode = CDMA /TM1

##### 4.1.1.1.1 Test Channel = LCH



##### 4.1.1.1.2 Test Channel = MCH

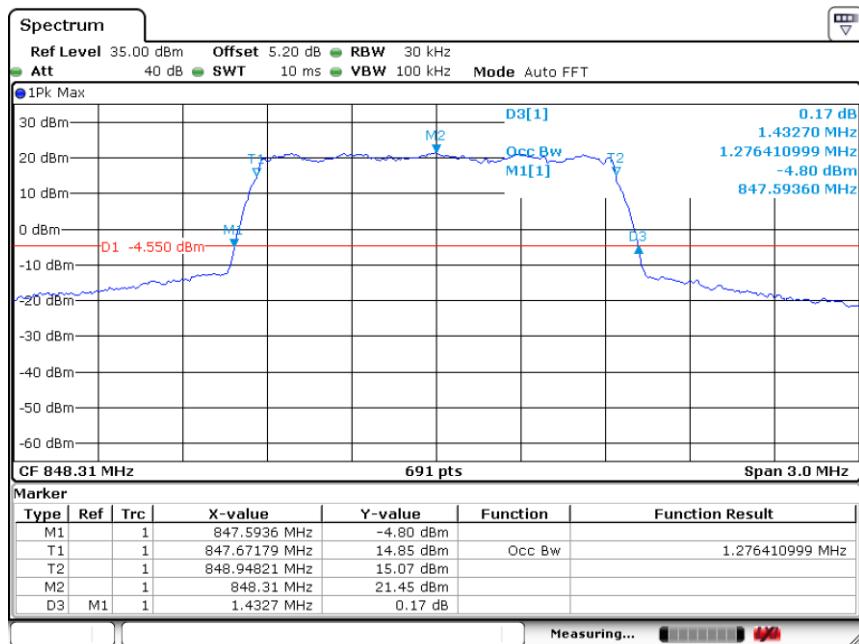


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## 4.1.1.1.3 Test Channel = HCH

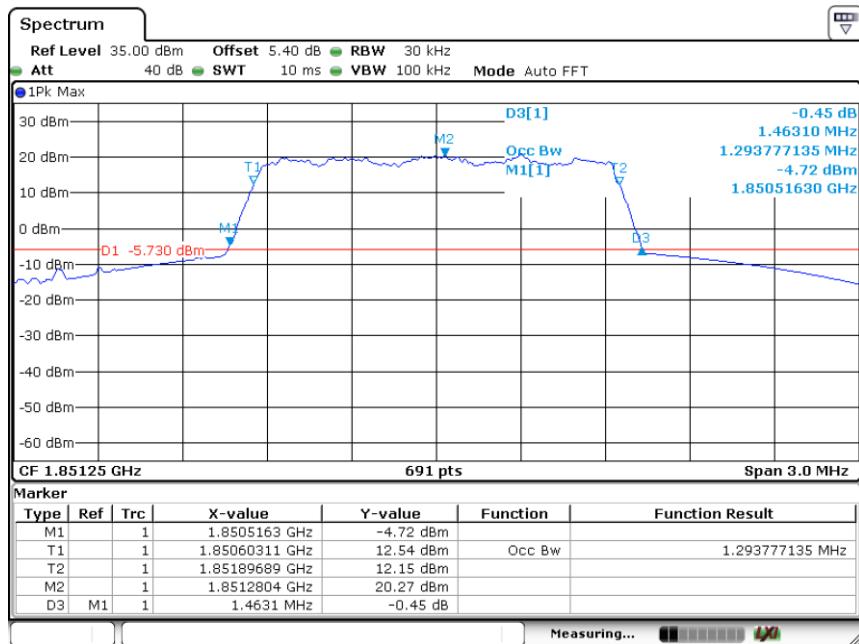


Date: 9.SEP.2020 09:39:27

## 4.1.2 Test Band = CDMA BC1

## 4.1.2.1 Test Mode = CDMA /TM1

## 4.1.2.1.1 Test Channel = LCH



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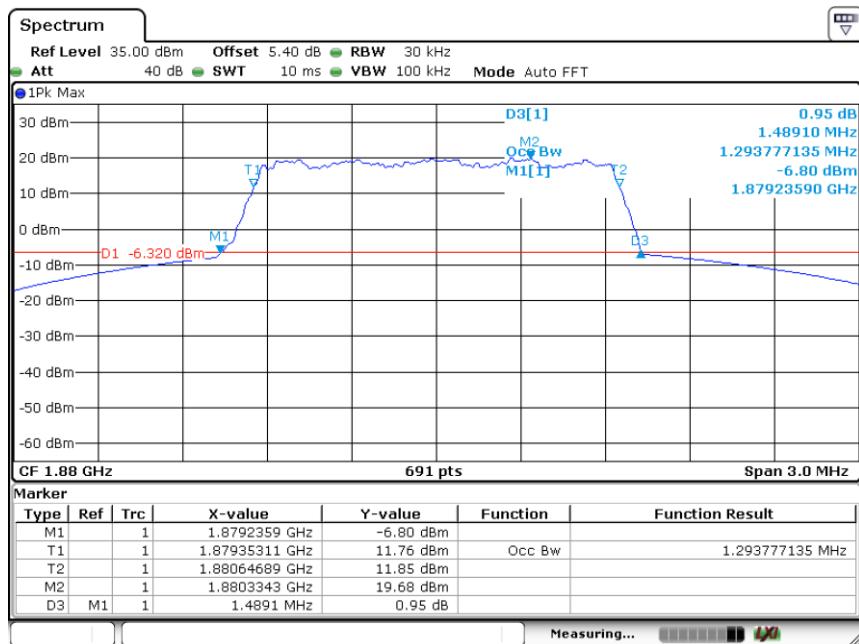
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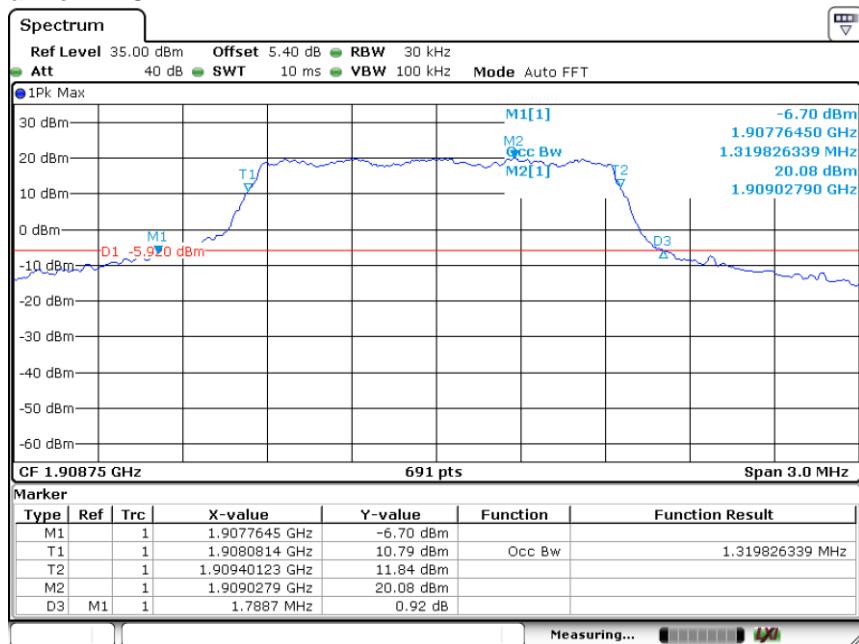
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## 4.1.2.1.2 Test Channel = MCH



Date: 9 SEP 2020 11:01:07

## 4.1.2.1.3 Test Channel = HCH



Date: 9 SEP 2020 11:04:26

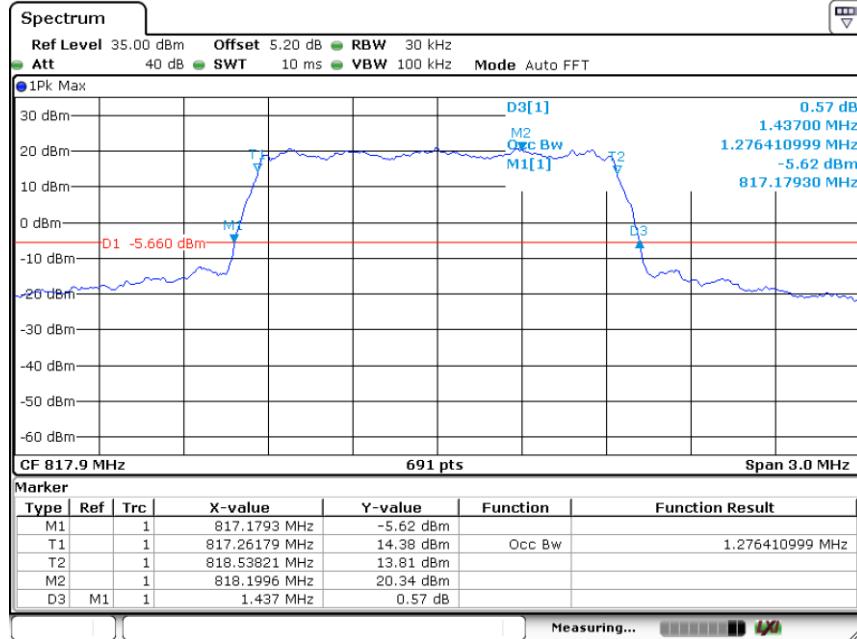
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### 4.1.3 Test Band = CDMA BC10

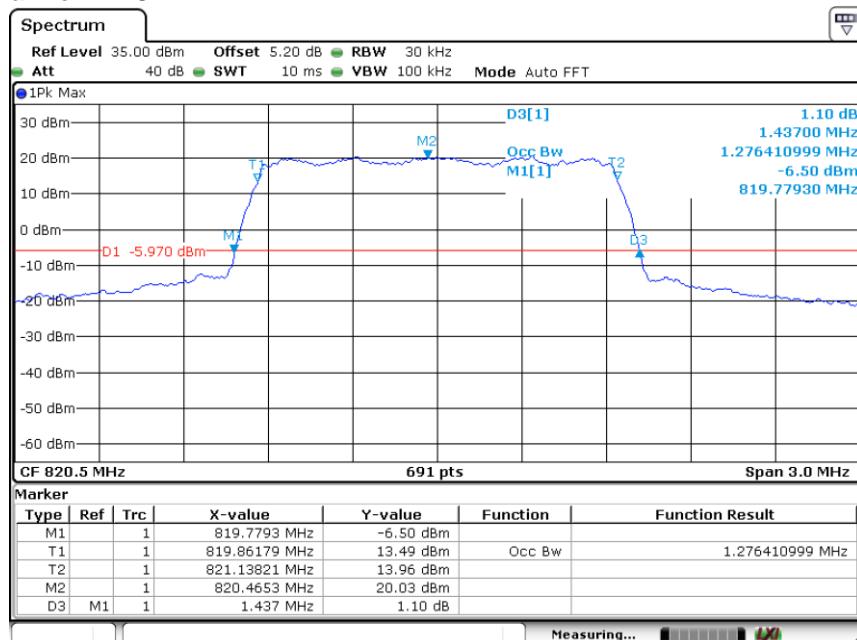
#### 4.1.3.1 Test Mode = CDMA /TM1

##### 4.1.3.1.1 Test Channel = LCH



Date: 9 SEP 2020 11:10:49

##### 4.1.3.1.2 Test Channel = MCH



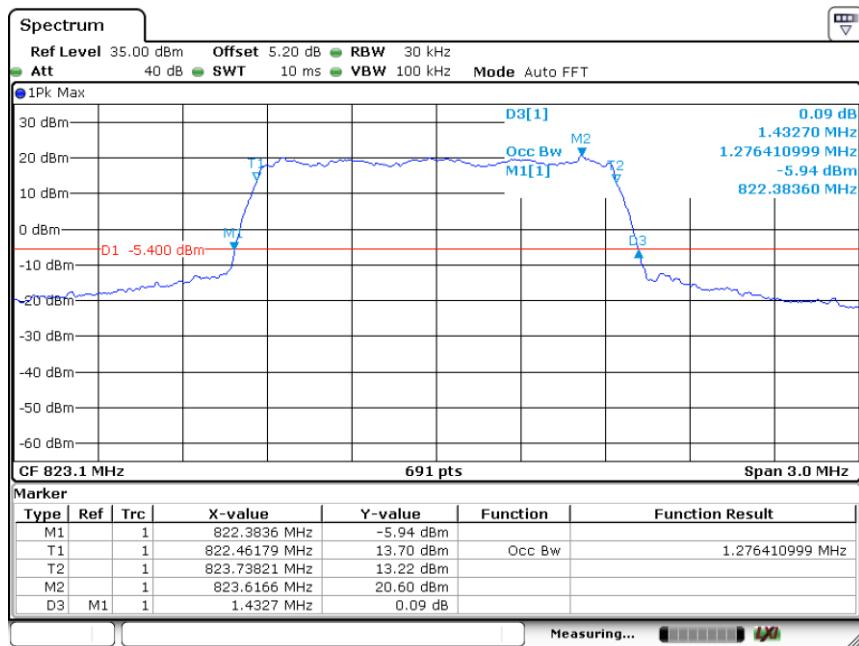
Date: 9 SEP 2020 11:11:43

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## 4.1.3.1.3 Test Channel = HCH



Date: 9.SEP.2020 11:12:24

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## 5 Band Edges Compliance

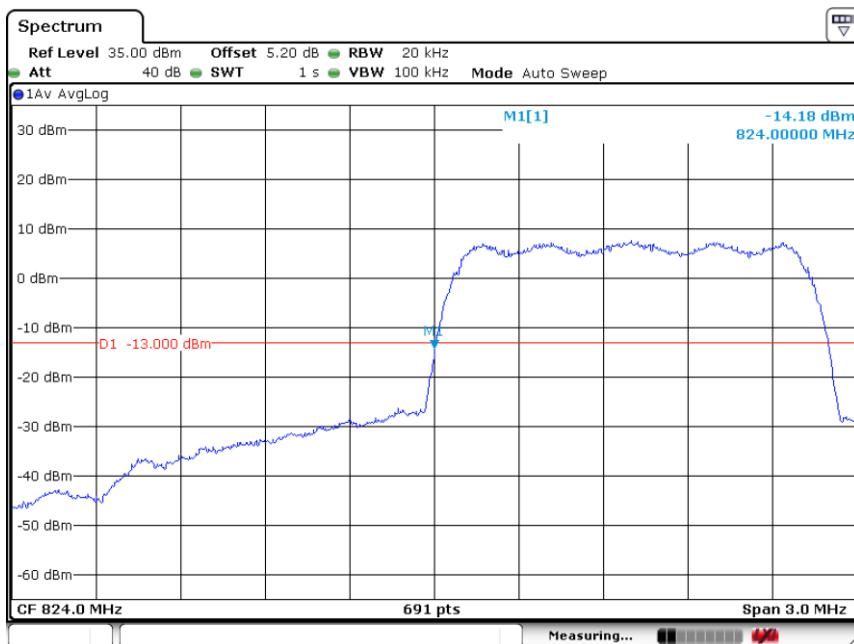
### Part I - Test Plots

#### 5.1 For CDMA

##### 5.1.1 Test Band = CDMA BC0

###### 5.1.1.1 Test Mode = CDMA /TM1

###### 5.1.1.1.1 Test Channel = LCH



Date: 9 SEP 2020 09:52:10

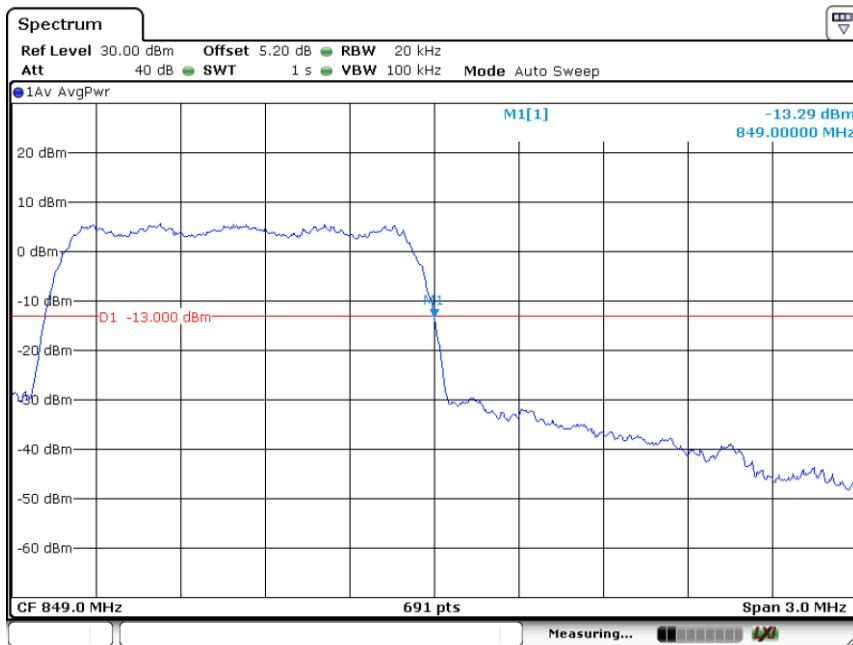
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## 5.1.1.1.2 Test Channel = HCH

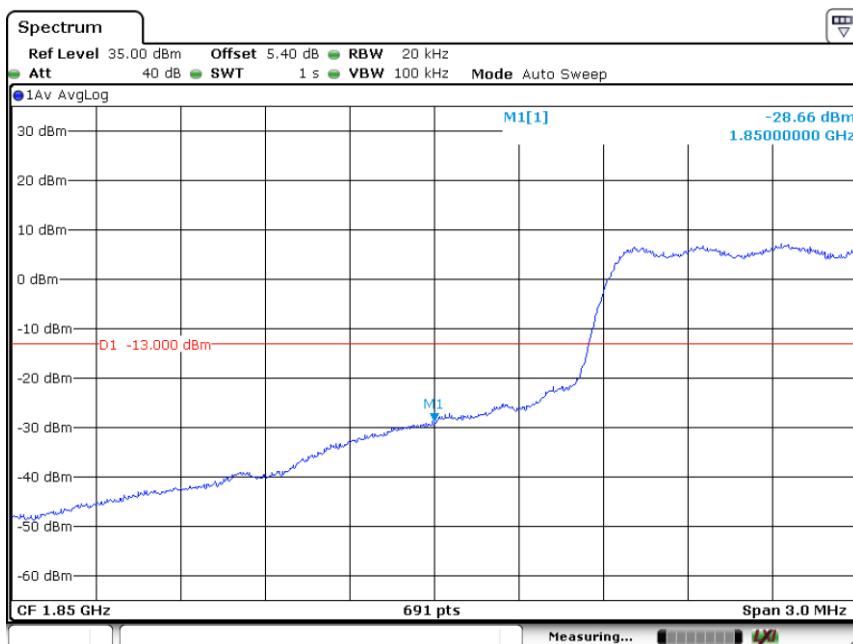


Date: 9.SEP.2020 11:21:11

## 5.1.2 Test Band = CDMA BC1

## 5.1.2.1 Test Mode = CDMA /TM1

## 5.1.2.1.1 Test Channel = LCH



Date: 9.SEP.2020 11:06:32

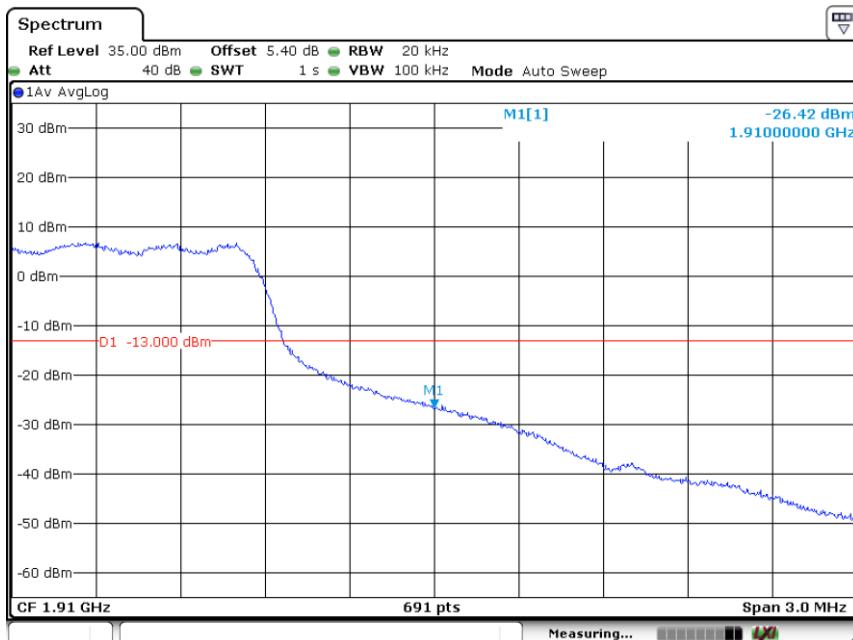
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## 5.1.2.1.2 Test Channel = HCH

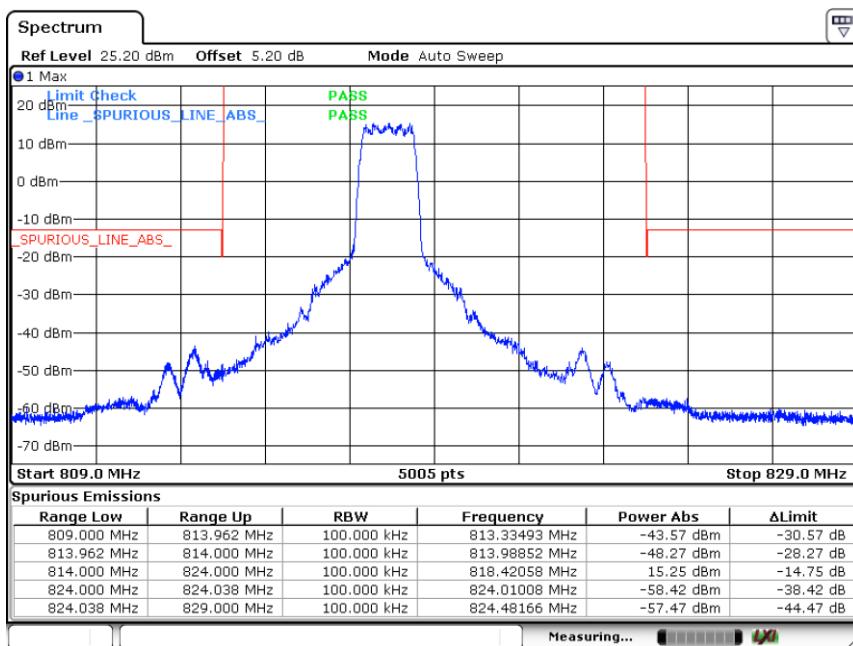


Date: 9.SEP.2020 11:05:59

## 5.1.3 Test Band = CDMA BC10

## 5.1.3.1 Test Mode = CDMA /TM1

## 5.1.3.1.1 Test Channel = LCH



Date: 9.SEP.2020 11:13:55

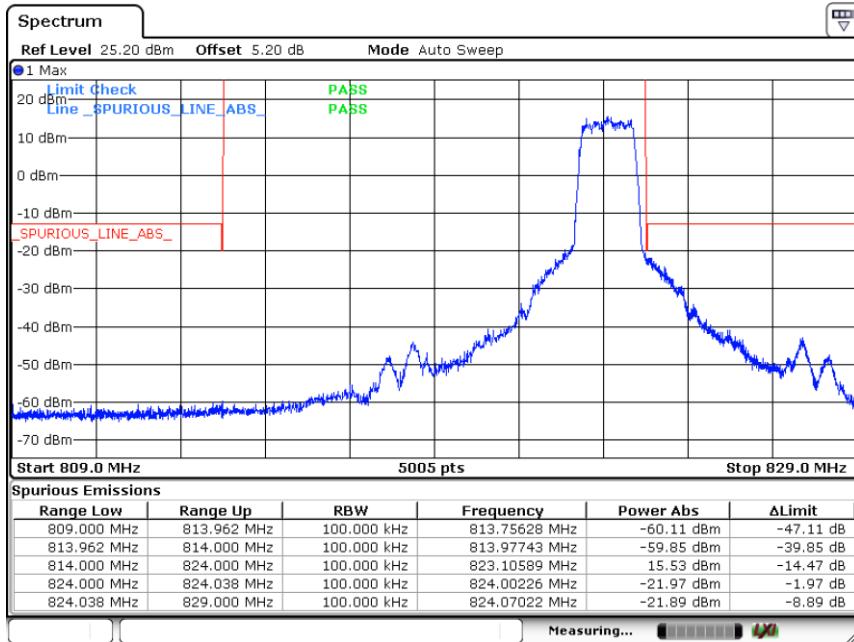
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## 5.1.3.1.2 Test Channel = HCH



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## 6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

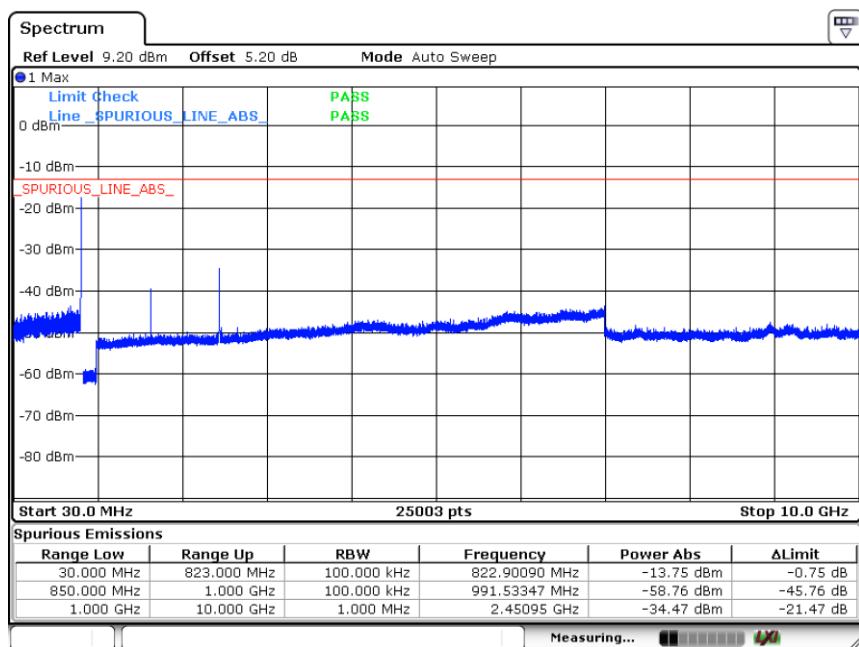
## Part I - Test Plots

## 6.1 For CDMA

### 6.1.1 Test Band = CDMA BC0

### 6.1.1.1 Test Mode = CDMA /TM1

#### 6.1.1.1.1 Test Channel = LCH



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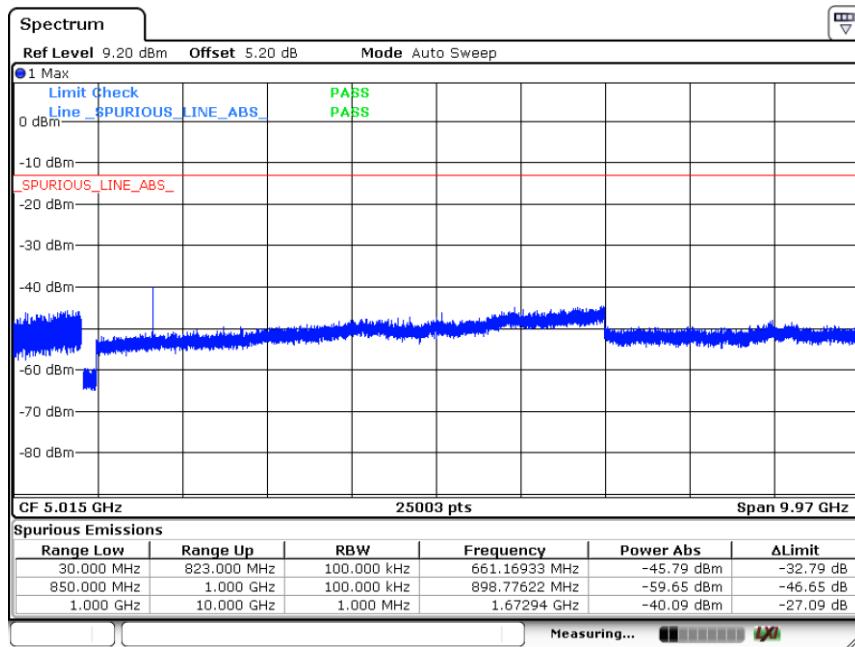
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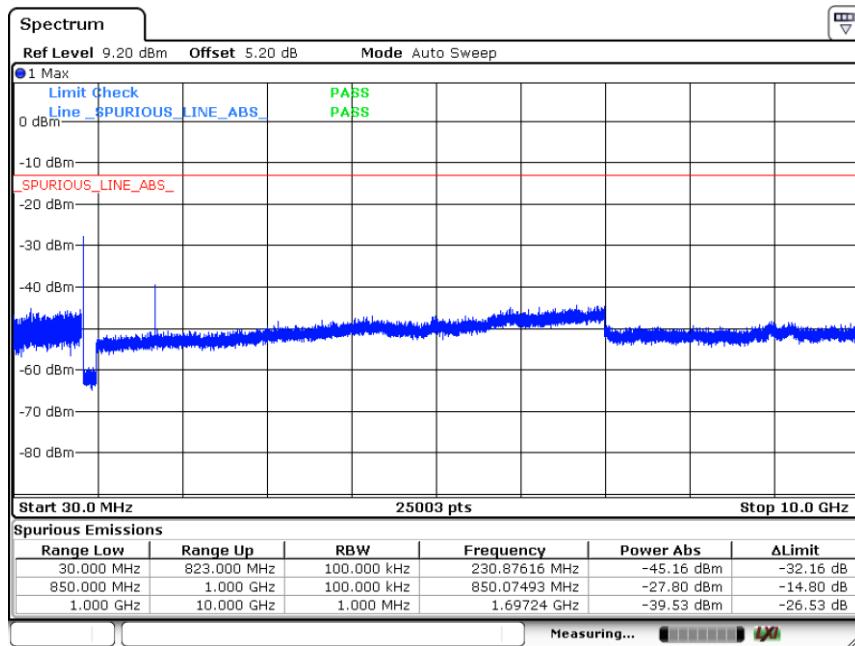
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## 6.1.1.1.2 Test Channel = MCH



Date: 9.SEP.2020 10:33:18

## 6.1.1.1.3 Test Channel = HCH



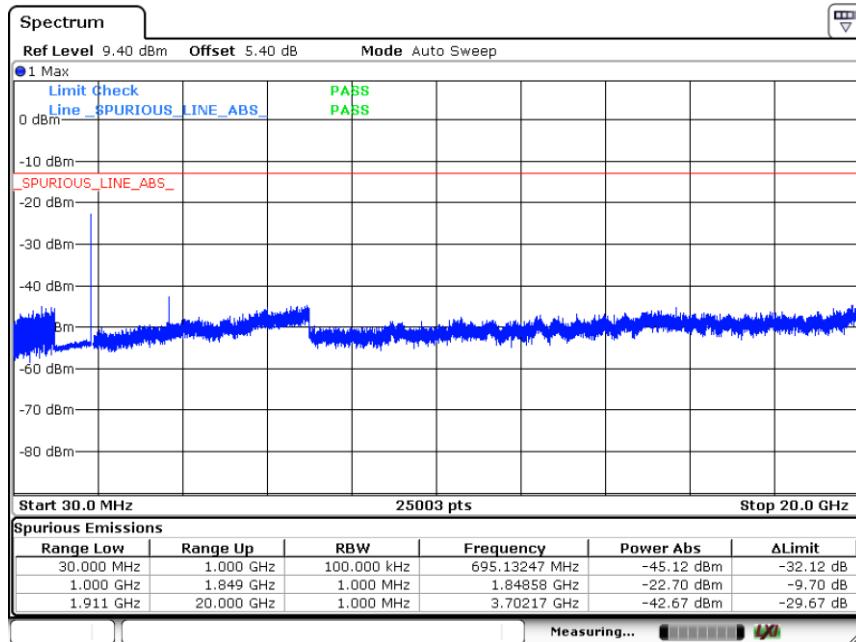
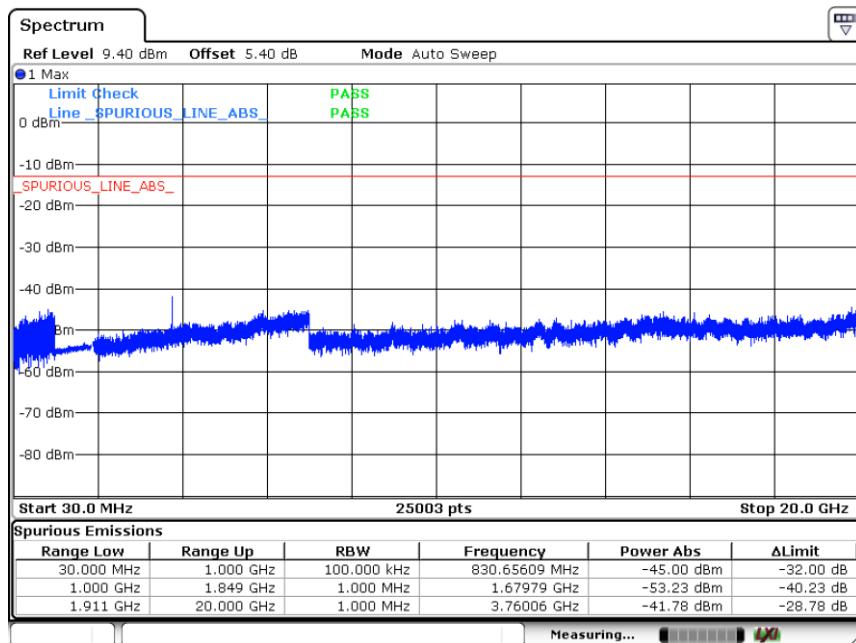
Date: 9.SEP.2020 10:33:02

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**6.1.2 Test Band = CDMA BC1****6.1.2.1 Test Mode = CDMA /TM1****6.1.2.1.1 Test Channel = LCH****6.1.2.1.2 Test Channel = MCH**

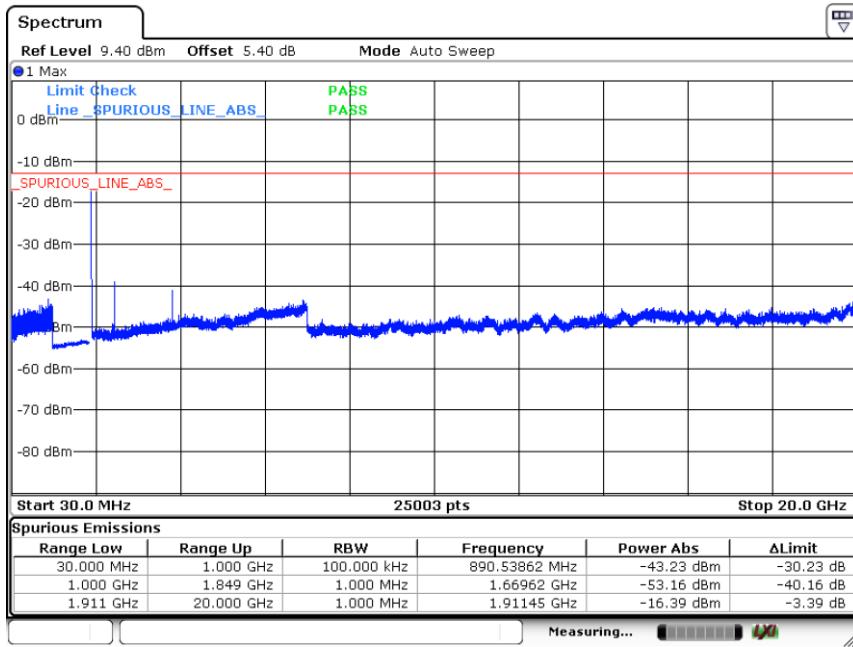
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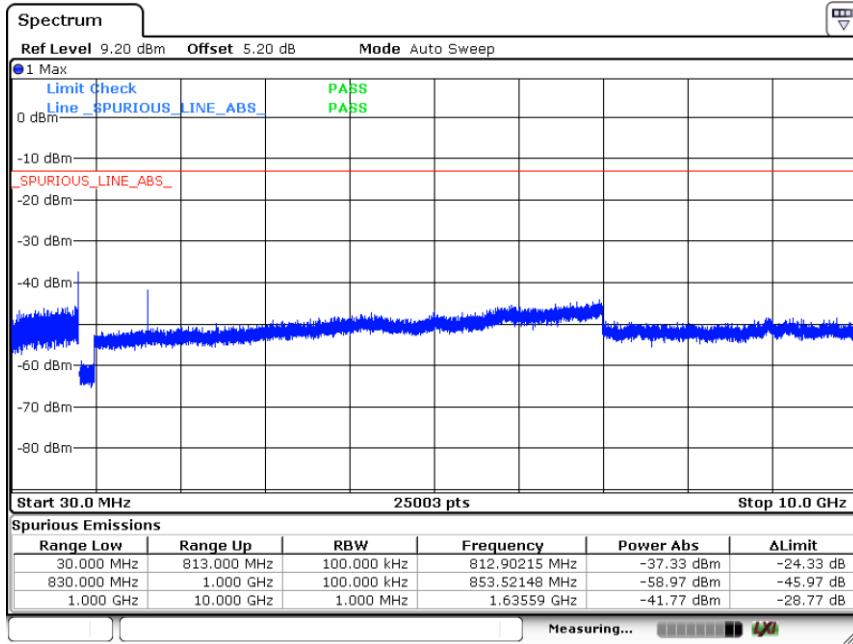


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**6.1.2.1.3 Test Channel = HCH**

Date: 9.SEP.2020 11:08:12

**6.1.3 Test Band = CDMA BC10****6.1.3.1 Test Mode = CDMA /TM1****6.1.3.1.1 Test Channel = LCH**

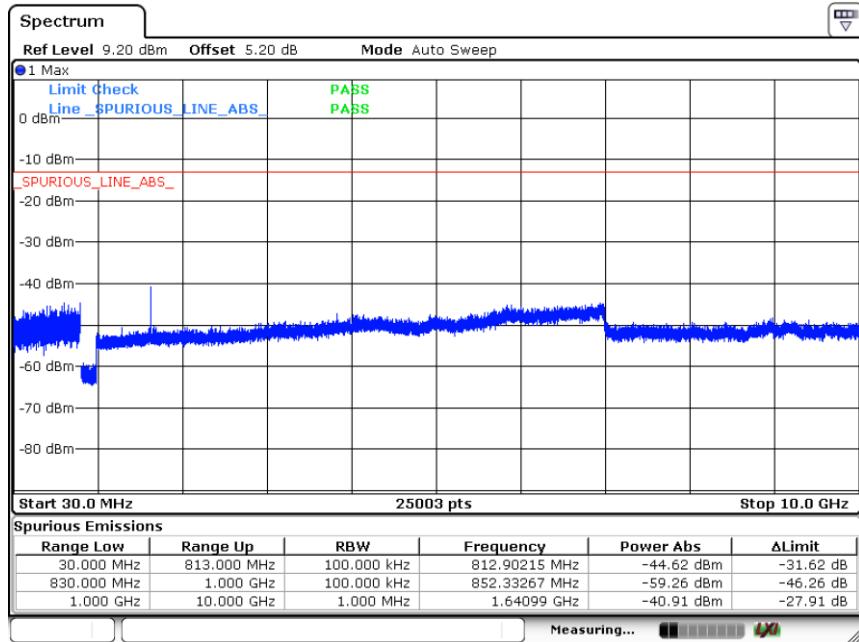
Date: 9.SEP.2020 11:18:10

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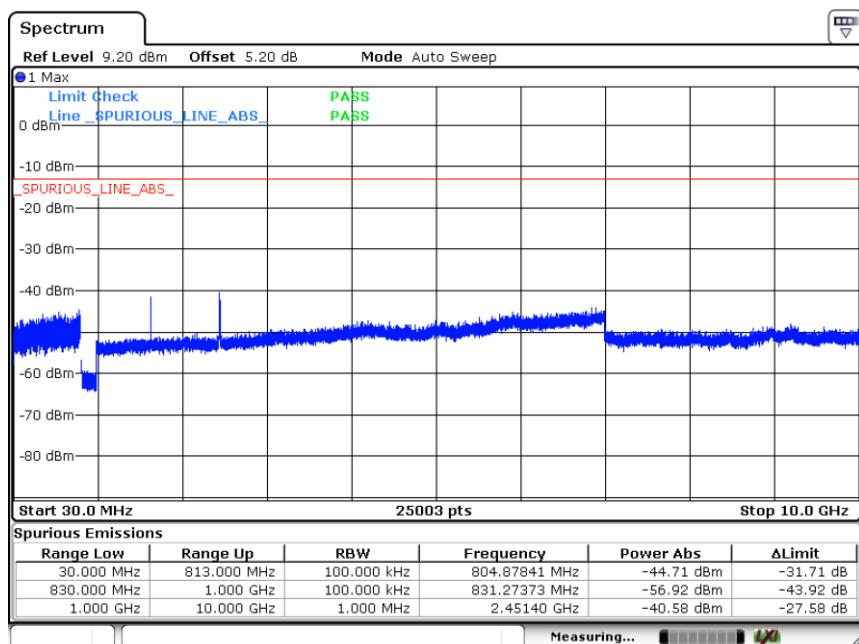


## 6.1.3.1.2 Test Channel = MCH



Date: 9 SEP 2020 11:17:57

## 6.1.3.1.3 Test Channel = HCH



Date: 9 SEP 2020 11:17:23

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## 7 Field Strength of Spurious Radiation

### Part I - Test Plots

#### 7.1 For CDMA

##### 7.1.1 Test Band = CDMA BC0

###### 7.1.1.1 Test Mode = CDMA /TM1

###### 7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
114.9762	-62.59	-13.00	49.59	Vertical
396.1448	-64.91	-13.00	51.91	Vertical
1673.3347	-45.21	-13.00	32.21	Vertical
2509.5019	-43.32	-13.00	30.32	Vertical
4184.4395	-59.42	-13.00	46.42	Vertical
9825.9275	-52.19	-13.00	39.19	Vertical
43.4837	-63.07	-13.00	50.07	Horizontal
235.3108	-64.76	-13.00	51.76	Horizontal
1673.3347	-41.52	-13.00	28.52	Horizontal
2509.5019	-40.36	-13.00	27.36	Horizontal
4184.6728	-57.37	-13.00	44.37	Horizontal
9540.7847	-52.82	-13.00	39.82	Horizontal

###### 7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.9505	-62.67	-13.00	49.67	Vertical
1696.1392	-41.40	-13.00	28.40	Vertical
2545.5091	-46.14	-13.00	33.14	Vertical
3392.0131	-59.76	-13.00	46.76	Vertical
4240.2080	-60.09	-13.00	47.09	Vertical
9830.8277	-52.27	-13.00	39.27	Vertical
41.9801	-62.39	-13.00	49.39	Horizontal
239.3365	-65.65	-13.00	52.65	Horizontal
1696.1392	-38.63	-13.00	25.63	Horizontal
2544.7089	-42.36	-13.00	29.36	Horizontal
3391.5464	-55.23	-13.00	42.23	Horizontal
9564.3521	-52.49	-13.00	39.49	Horizontal

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**7.1.1.1.3 Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.2116	-62.65	-13.00	49.65	Vertical
1648.9298	-47.36	-13.00	34.36	Vertical
2475.0950	-44.57	-13.00	31.57	Vertical
3000.0000	-56.38	-13.00	43.38	Vertical
4125.1708	-59.09	-13.00	46.09	Vertical
9837.5946	-52.56	-13.00	39.56	Vertical
41.7861	-62.69	-13.00	49.69	Horizontal
233.0312	-64.95	-13.00	51.95	Horizontal
1648.9298	-45.50	-13.00	32.50	Horizontal
2473.8948	-39.91	-13.00	26.91	Horizontal
4121.9041	-57.71	-13.00	44.71	Horizontal
9359.4786	-52.85	-13.00	39.85	Horizontal

**7.1.2 Test Band = CDMA BC1**
**7.1.2.1 Test Mode = CDMA /TM1**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.1745	-65.24	-13.00	52.24	Vertical
2699.5399	-37.70	-13.00	24.70	Vertical
3702.0234	-50.44	-13.00	37.44	Vertical
5552.5851	-34.46	-13.00	21.46	Vertical
7406.1469	-46.01	-13.00	33.01	Vertical
17996.9999	-39.84	-13.00	26.84	Vertical
45.7148	-64.60	-13.00	51.60	Horizontal
2702.3405	-36.40	-13.00	23.40	Horizontal
3703.0234	-50.34	-13.00	37.34	Horizontal
5554.5852	-36.10	-13.00	23.10	Horizontal
7403.6468	-49.43	-13.00	36.43	Horizontal
16394.4465	-43.72	-13.00	30.72	Horizontal

**7.1.2.1.1 Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.5440	-65.02	-13.00	52.02	Vertical
2695.5391	-37.76	-13.00	24.76	Vertical
3760.5254	-48.15	-13.00	35.15	Vertical
5640.5880	-33.99	-13.00	20.99	Vertical
7521.6507	-49.24	-13.00	36.24	Vertical

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17992.9998	-39.93	-13.00	26.93	Vertical
44.5507	-63.99	-13.00	50.99	Horizontal
2698.7397	-36.51	-13.00	23.51	Horizontal
3760.5254	-47.67	-13.00	34.67	Horizontal
5639.0880	-36.14	-13.00	23.14	Horizontal
7520.1507	-50.58	-13.00	37.58	Horizontal
16385.9462	-43.56	-13.00	30.56	Horizontal

**7.1.2.1.2 Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.5140	-64.49	-13.00	51.49	Vertical
2699.5399	-37.64	-13.00	24.64	Vertical
3817.0272	-47.44	-13.00	34.44	Vertical
5725.5909	-33.13	-13.00	20.13	Vertical
7636.6546	-48.07	-13.00	35.07	Vertical
17993.4998	-40.00	-13.00	27.00	Vertical
46.4908	-64.74	-13.00	51.74	Horizontal
2699.5399	-36.59	-13.00	23.59	Horizontal
3817.0272	-47.70	-13.00	34.70	Horizontal
5727.0909	-33.93	-13.00	20.93	Horizontal
7633.6545	-52.95	-13.00	39.95	Horizontal
16387.4462	-43.37	-13.00	30.37	Horizontal

**7.1.3 Test Band = CDMA BC10**
**7.1.3.1 Test Mode = CDMA/TM1**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.3799	-62.69	-13.00	49.69	Vertical
356.3243	-66.46	-13.00	53.46	Vertical
1635.7271	-53.42	-13.00	40.42	Vertical
2453.0906	-48.85	-13.00	35.85	Vertical
4089.2363	-57.58	-13.00	44.58	Vertical
9322.1441	-52.01	-13.00	39.01	Vertical
43.1442	-62.57	-13.00	49.57	Horizontal
240.1125	-65.75	-13.00	52.75	Horizontal
1636.1272	-48.59	-13.00	35.59	Horizontal
2453.8908	-41.09	-13.00	28.09	Horizontal
3270.2090	-56.30	-13.00	43.30	Horizontal
9326.1109	-52.98	-13.00	39.98	Horizontal

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**7.1.3.1.1 Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.4541	-62.64	-13.00	49.64	Vertical
606.8878	-61.13	-13.00	48.13	Vertical
1641.3283	-51.05	-13.00	38.05	Vertical
2473.4947	-46.76	-13.00	33.76	Vertical
4102.3034	-58.13	-13.00	45.13	Vertical
9886.1295	-52.05	-13.00	39.05	Vertical
44.1627	-62.89	-13.00	49.89	Horizontal
237.1539	-65.64	-13.00	52.64	Horizontal
1640.9282	-48.26	-13.00	35.26	Horizontal
2461.4923	-38.49	-13.00	25.49	Horizontal
4102.3034	-55.36	-13.00	42.36	Horizontal
9307.6769	-52.03	-13.00	39.03	Horizontal

**7.1.3.1.2 Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.8193	-62.92	-13.00	49.92	Vertical
617.1219	-60.58	-13.00	47.58	Vertical
1646.1292	-48.92	-13.00	35.92	Vertical
2469.4939	-46.70	-13.00	33.70	Vertical
4115.3705	-59.13	-13.00	46.13	Vertical
9892.4297	-52.03	-13.00	39.03	Vertical
43.7747	-63.16	-13.00	50.16	Horizontal
236.0868	-65.68	-13.00	52.68	Horizontal
1647.3295	-53.02	-13.00	40.02	Horizontal
2469.4939	-38.25	-13.00	25.25	Horizontal
4115.6039	-57.51	-13.00	44.51	Horizontal
9322.3774	-52.33	-13.00	39.33	Horizontal

## NOTE:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.

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## 8 Frequency Stability

### 8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC0	CDMA/TM1	LCH	TN	VL	-1.45	-0.00176	PASS
				VN	-0.35	-0.00042	PASS
				VH	-1.94	-0.00235	PASS
		MCH	TN	VL	1.83	0.00219	PASS
				VN	0.78	0.00093	PASS
				VH	-1.67	-0.00200	PASS
		HCH	TN	VL	1.02	0.00120	PASS
				VN	-2.61	-0.00308	PASS
				VH	-2.96	-0.00349	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC1	CDMA/TM1	LCH	TN	VL	-4.30	-0.00232	PASS
				VN	-1.44	-0.00078	PASS
				VH	2.02	0.00109	PASS
		MCH	TN	VL	-3.84	-0.00204	PASS
				VN	2.34	0.00124	PASS
				VH	-1.75	-0.00093	PASS
		HCH	TN	VL	0.65	0.00034	PASS
				VN	-1.42	-0.00074	PASS
				VH	3.80	0.00199	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMAB10	CDMA/TM1	LCH	TN	VL	-4.21	-0.00515	PASS
				VN	-1.38	-0.00169	PASS
				VH	2.32	0.00284	PASS
		MCH	TN	VL	-3.44	-0.00419	PASS
				VN	1.30	0.00158	PASS
				VH	-2.45	-0.00299	PASS
		HCH	TN	VL	1.66	0.00202	PASS
				VN	-4.50	-0.00547	PASS
				VH	2.43	0.00295	PASS

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## 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC0	CDMA/TM1	LCH	VN	-30	-4.06	-0.004923	PASS
				-20	2.60	0.003153	PASS
				-10	1.25	0.001516	PASS
				0	-2.64	-0.003201	PASS
				10	3.56	0.004317	PASS
				20	-4.80	-0.005820	PASS
				30	1.60	0.001940	PASS
				40	-2.22	-0.002692	PASS
				50	-6.65	-0.008064	PASS
		MCH	VN	-30	-3.20	-0.003825	PASS
				-20	-5.53	-0.006611	PASS
				-10	-1.39	-0.001662	PASS
				0	-2.38	-0.002845	PASS
				10	1.31	0.001566	PASS
				20	2.39	0.002857	PASS
				30	1.61	0.001925	PASS
				40	3.13	0.003742	PASS
				50	-4.08	-0.004877	PASS
		HCH	VN	-30	-2.17	-0.002558	PASS
				-20	3.44	0.004055	PASS
				-10	2.55	0.003006	PASS
				0	-5.07	-0.005977	PASS
				10	1.37	0.001615	PASS
				20	-2.78	-0.003277	PASS
				30	3.22	0.003796	PASS
				40	-4.63	-0.005458	PASS
				50	-2.55	-0.003006	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC1	CDMA/TM1	LCH	VN	-30	-2.36	-0.001275	PASS
				-20	1.90	0.001026	PASS
				-10	-2.97	-0.001604	PASS
				0	0.59	0.000319	PASS
				10	-4.65	-0.002512	PASS
				20	-4.22	-0.002280	PASS
				30	-2.96	-0.001599	PASS
				40	-5.66	-0.003057	PASS
				50	-2.03	-0.001097	PASS
				-30	-1.94	-0.001032	PASS
		MCH	VN	-20	3.55	0.001888	PASS
				-10	-4.34	-0.002309	PASS
				0	1.75	0.000931	PASS
				10	-5.10	-0.002713	PASS
				20	-3.43	-0.001824	PASS
				30	-2.13	-0.001133	PASS
				40	-1.43	-0.000761	PASS
				50	-3.22	-0.001713	PASS
				-30	-3.25	-0.001703	PASS
				-20	-2.24	-0.001174	PASS
		HCH	VN	-10	-2.00	-0.001048	PASS
				0	-5.34	-0.002798	PASS
				10	1.62	0.000849	PASS
				20	-4.55	-0.002384	PASS
				30	-3.22	-0.001687	PASS
				40	-1.84	-0.000964	PASS
				50	-3.97	-0.002080	PASS
				-30	-3.25	-0.001703	PASS
				-20	-2.24	-0.001174	PASS
				-10	-2.00	-0.001048	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC10	CDMA/TM1	LCH	VN	-30	-3.22	-0.003937	PASS
				-20	-4.55	-0.005563	PASS
				-10	1.94	0.002372	PASS
				0	-3.47	-0.004243	PASS
				10	-2.58	-0.003154	PASS
				20	1.08	0.001320	PASS
				30	-3.44	-0.004206	PASS
				40	-5.30	-0.006480	PASS
				50	-1.43	-0.001748	PASS
		MCH	VN	-30	-2.92	-0.003559	PASS
				-20	1.27	0.001548	PASS
				-10	-5.43	-0.006618	PASS
				0	4.84	0.005899	PASS
				10	-3.23	-0.003937	PASS
				20	-6.44	-0.007849	PASS
				30	-2.27	-0.002767	PASS
				40	-6.32	-0.007703	PASS
				50	-4.54	-0.005533	PASS
		HCH	VN	-30	-2.35	-0.002855	PASS
				-20	3.63	0.004410	PASS
				-10	-1.85	-0.002248	PASS
				0	-5.21	-0.006330	PASS
				10	-2.65	-0.003220	PASS
				20	-4.16	-0.005054	PASS
				30	1.22	0.001482	PASS
				40	-2.92	-0.003548	PASS
				50	-4.55	-0.005528	PASS

The End

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