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Appendix B

Test Report for SZEM160300137102



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1 Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Part 1 - RF Conducted Power of Transmitter for GSM850

Tall Tall Ochadolog Towor of Transmitter for Comodo									
		RF Output Power(Conducted)							
TEST CONDITIONS	Channel12	Channel128(L) Channel190(M)		0(M)	Channel251	(H)			
TEST CONDITIONS	824.2M	Hz	836.6 MHz		848.8 MHz				
Tnom/ Vnom	Measured	Limit	Measured	Limit	Measured(dBm)	Limit			
THOM/ VHOM	(dBm)	(dBm)	(dBm)	(dBm)	weasureu(ubiii)	(dBm)			
GSM/TM1 (GPRS)	33.14	38.5	33.43	38.5	33.41	38.5			

Part 2– Effective Radiated Power of Transmitter (ERP) for GSM850

Test Mode	Freq. (MHz)	Meas. Level (dBm)	SGP (dBm)	Substituti on Gain(dBd)	Cable Loss (dB)	Substitution Level(ERP) / dBm	Limit (dBm)	Result
GSM/TM1 (GPRS)	824.2	33.21	27.85	5.95	0.6	33.2	38.5	Pass
GSM/TM1 (GPRS)	836.6	33.5	27.43	6.65	0.6	33.48	38.5	Pass
GSM/TM1 (GPRS)	848.8	33.48	27.21	6.85	0.6	33.46	38.5	Pass

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



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Part 3 – RF Conducted Power of Transmitter for GSM1900

		RF Output Power(Conducted)						
TEGT COMPITIONS	Channel5	Channel512(L) Channel661(M)		Channel512(L) Channel661(M)			Channel810	(H)
TEST CONDITIONS	1850.2M	1850.2MHz 1880.0 MHz		1909.8 MHz				
Tnom/\/nom	Measured	Limit	Measured	Limit	Magazirad(dDm)	Limit		
Tnom/ Vnom	(dBm)	(dBm)	(dBm)	(dBm)	Measured(dBm)	(dBm)		
GSM/TM1 (GPRS)	30.14	38.5	30.07	38.5	30.02	38.5		

Part 4- Effective Isotropic Radiated Power of Transmitter (EIRP) for GSM1900

Test Mode	Freq. (MHz)	Meas. Level (dBm)	SGP (dBm)	Substitution Gain(dBd)	Cable Loss (dB)	Substitution Level(ERP) / dBm	Limit (dBm)	Result
GSM/TM1 (GPRS)	1850.2	30.42	23.51	7.9	1	30.41	38.5	Pass
GSM/TM1 (GPRS)	1880.0	30.35	23.43	7.9	1	30.33	38.5	Pass
GSM/TM1 (GPRS)	1909.8	30.3	23.39	7.9	1	30.29	38.5	Pass

Note:

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

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	9.77	13	PASS
GSM850	GSM/TM1	MCH	9.15	13	PASS
		HCH	9.31	13	PASS



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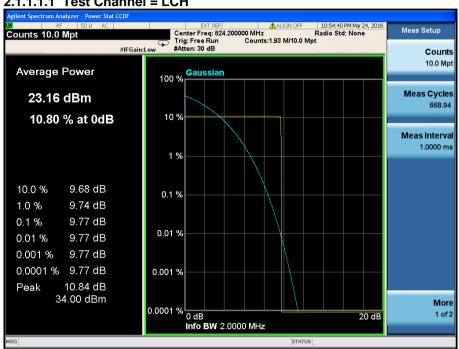
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2.1 For GSM

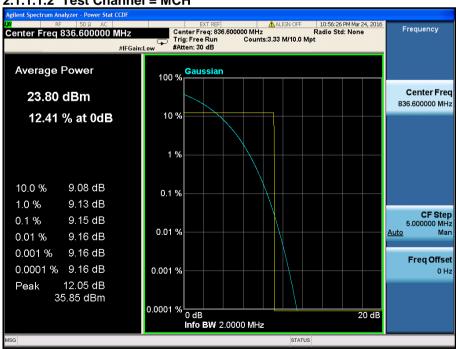
2.1.1 Test Band = GSM850

2.1.1.1 Test Mode = GSM/TM1

2.1.1.1.1 Test Channel = LCH



2.1.1.1.2 Test Channel = MCH

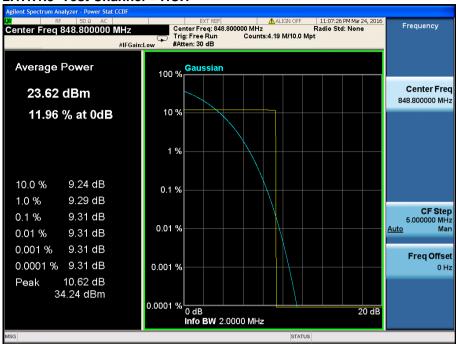




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2.1.1.1.3 Test Channel = HCH





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3 Modulation Characteristics

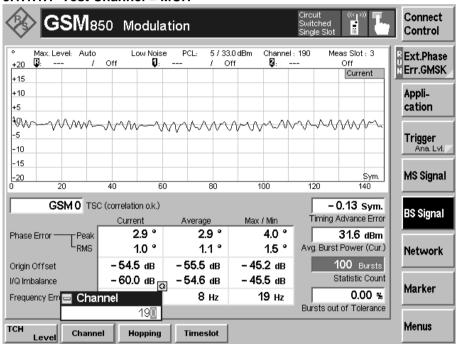
Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM850

3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH





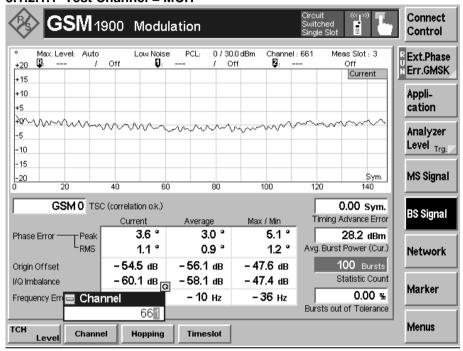
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3.1.2 Test Band = GSM1900

3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH





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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
		LCH	238.69	313.6	PASS
GSM850	M850 GSM/TM1	MCH	243.07	313.5	PASS
		HCH	241.64	312.6	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
		LCH	239.89	313.9	PASS
GSM1900	1900 GSM/TM1 I	MCH	244.31	313.1	PASS
		HCH	243.88	316.8	PASS



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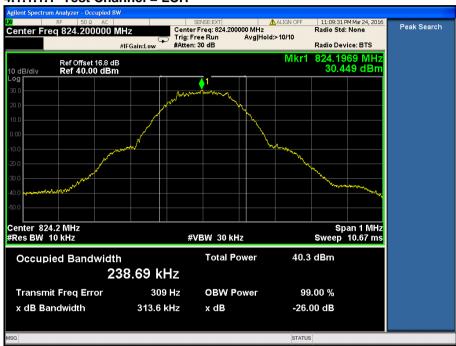
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4.1 For GSM

4.1.1 Test Band = GSM850

4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = LCH



4.1.1.1.2 Test Channel = MCH





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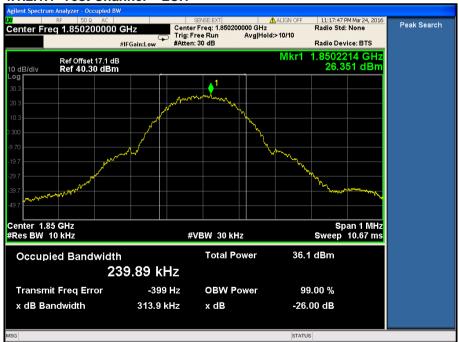
4.1.1.1.3 Test Channel = HCH



4.1.2 Test Band = GSM1900

4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH

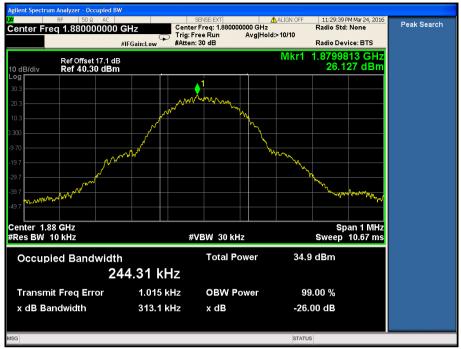




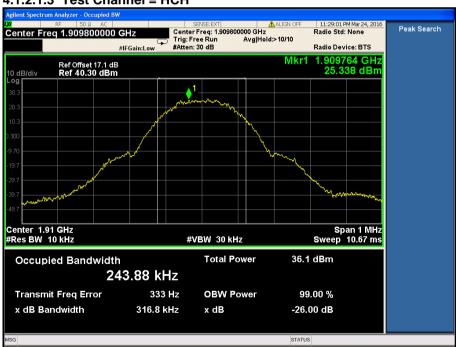
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4.1.2.1.2 Test Channel = MCH



4.1.2.1.3 Test Channel = HCH





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5 Band Edges Compliance

Part I - Test Plots

5.1 For GSM

5.1.1 Test Band = GSM850

5.1.1.1 Test Mode = GSM/TM1

5.1.1.1.1 Test Channel = LCH

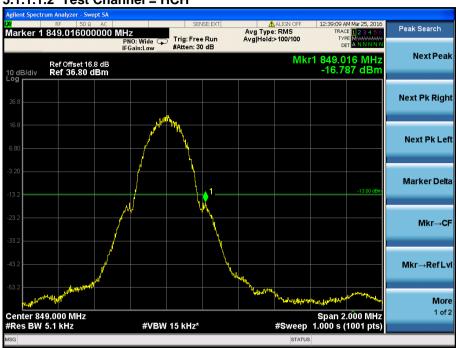




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5.1.1.1.2 Test Channel = HCH





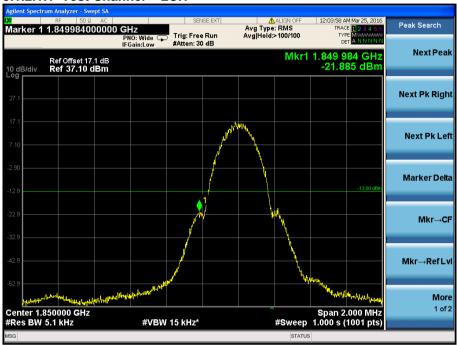
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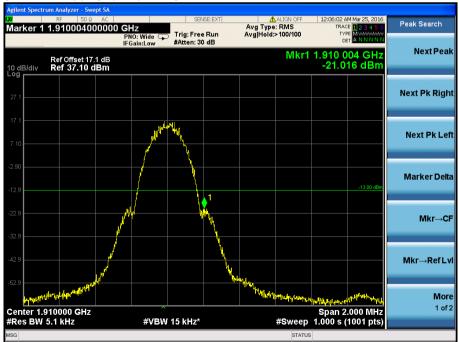
5.1.2 Test Band = GSM1900

5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH



5.1.2.1.2 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 = 4 * (Span / RBW) with k = 4 * (Span / RBW)

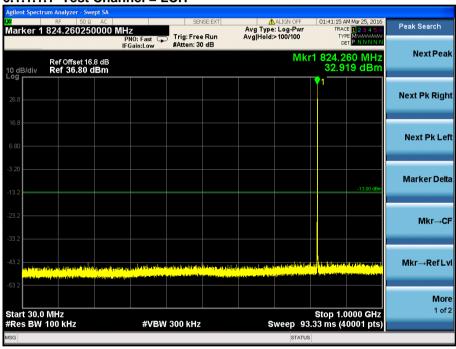
Part I - Test Plots

6.1 For GSM

6.1.1 Test Band = GSM850

6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



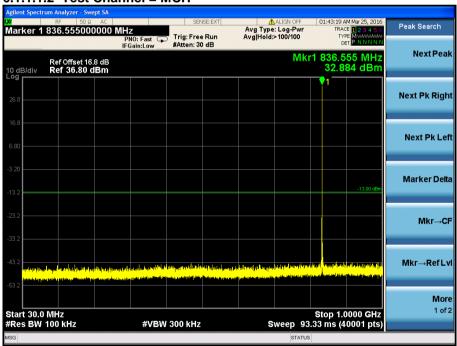


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6.1.1.1.2 Test Channel = MCH



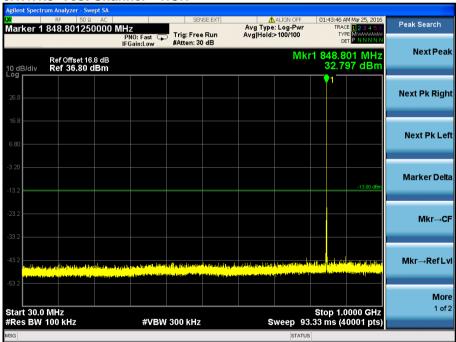


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6.1.1.1.3 Test Channel = HCH





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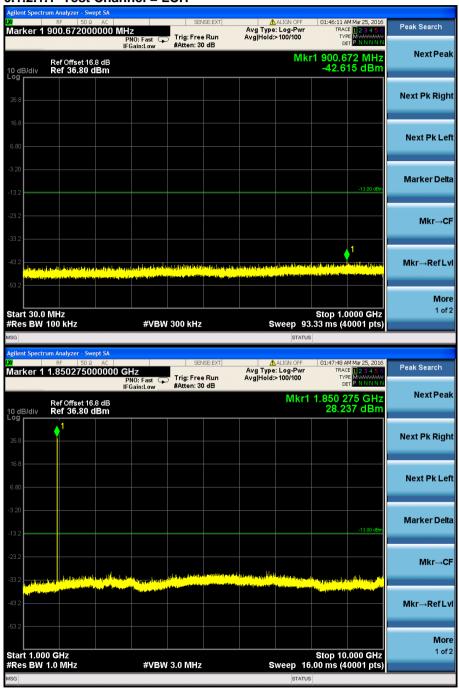
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6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

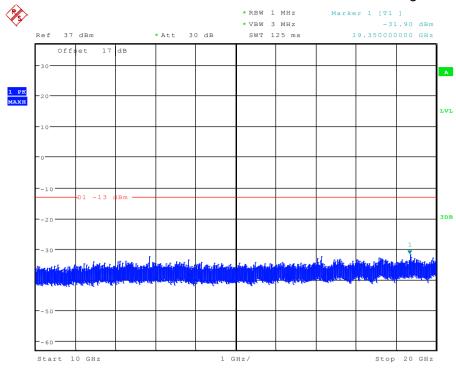
6.1.2.1.1 Test Channel = LCH



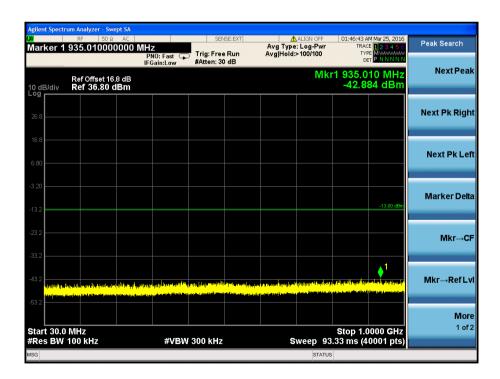


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6.1.2.1.2 Test Channel = MCH

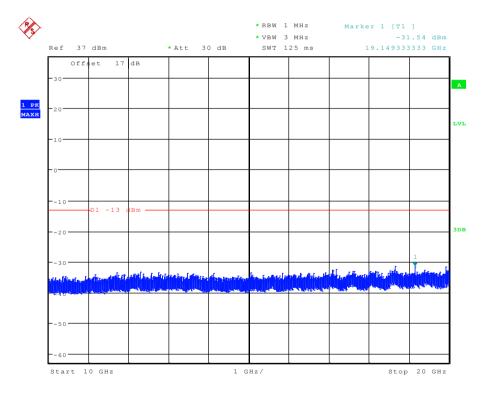




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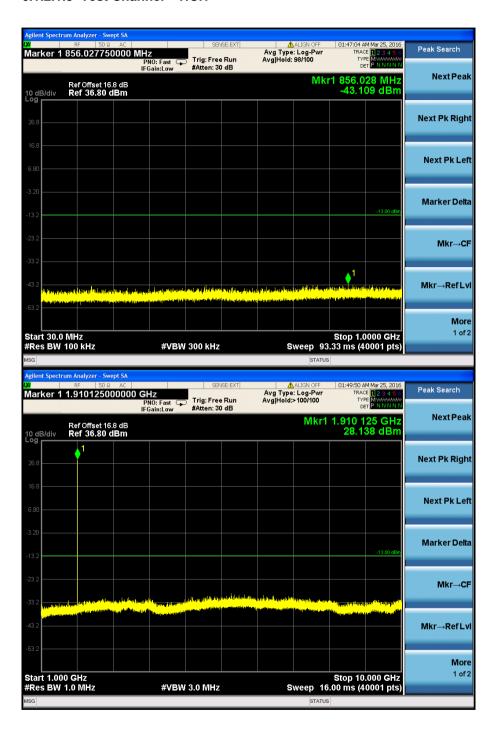




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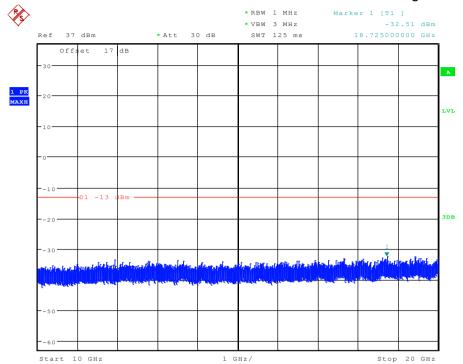
6.1.2.1.3 Test Channel = HCH





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7 Field Strength of Spurious Radiation

Part I - Test Plots

7.1 For GSM

7.1.1 Test Band = GSM850

7.1.1.1 Test Mode = GSM/TM1

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
110.365	-79.79	-13.00	-66.79	Vertical
162.114	-84.93	-13.00	-71.93	Vertical
228.414	-84.26	-13.00	-71.26	Vertical
306.014	-79.42	-13.00	-66.42	Vertical
449.719	-78.72	-13.00	-65.72	Vertical
622.767	-75.15	-13.00	-62.15	Vertical
1648.425	-47.23	-13.00	-34.23	Vertical
2393.925	-47.48	-13.00	-34.48	Vertical
3263.900	-58.18	-13.00	-45.18	Vertical
4715.350	-56.33	-13.00	-43.33	Vertical
6531.500	-54.40	-13.00	-41.40	Vertical
8998.300	-53.13	-13.00	-40.13	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
119.434	-86.18	-13.00	-73.18	Horizontal
185.637	-85.19	-13.00	-72.19	Horizontal
250.724	-81.03	-13.00	-68.03	Horizontal
327.305	-80.73	-13.00	-67.73	Horizontal
455.927	-78.24	-13.00	-65.24	Horizontal
616.268	-74.58	-13.00	-61.58	Horizontal
1648.050	-45.77	-13.00	-32.77	Horizontal
2408.700	-47.73	-13.00	-34.73	Horizontal
3612.150	-57.62	-13.00	-44.62	Horizontal
4977.150	-55.68	-13.00	-42.68	Horizontal
6660.650	-55.55	-13.00	-42.55	Horizontal
8973.450	-54.39	-13.00	-41.39	Horizontal



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7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
65.500	-60.58	-13.00	-47.58	Vertical
106.050	-66.85	-13.00	-53.85	Vertical
151.150	-84.37	-13.00	-71.37	Vertical
279.800	-79.33	-13.00	-66.33	Vertical
398.750	-79.06	-13.00	-66.06	Vertical
605.105	-59.88	-13.00	-46.88	Vertical
1195.000	-50.50	-13.00	-37.50	Vertical
1893.750	-40.25	-13.00	-27.25	Vertical
2568.750	-42.17	-13.00	-29.17	Vertical
4234.500	-50.24	-13.00	-37.24	Vertical
5535.000	-49.97	-13.00	-36.97	Vertical
7532.500	-48.66	-13.00	-35.66	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
58.800	-63.92	-13.00	-50.92	Horizontal
82.800	-66.25	-13.00	-53.25	Horizontal
105.100	-68.44	-13.00	-55.44	Horizontal
189.200	-78.90	-13.00	-65.90	Horizontal
577.910	-59.90	-13.00	-46.90	Horizontal
1045.000	-51.84	-13.00	-38.84	Horizontal
1199.167	-50.73	-13.00	-37.73	Horizontal
1897.500	-34.66	-13.00	-21.66	Horizontal
2927.063	-40.91	-13.00	-27.91	Horizontal
4954.500	-49.95	-13.00	-36.95	Horizontal
6303.500	-48.76	-13.00	-35.76	Horizontal
8623.500	-46.88	-13.00	-33.88	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
102.896	-84.52	-13.00	-71.52	Vertical	
157.555	-84.08	-13.00	-71.08	Vertical	
232.682	-83.66	-13.00	-70.66	Vertical	
315.423	-79.25	-13.00	-66.25	Vertical	
448.943	-78.61	-13.00 -65.61 Ver		Vertical	
615.686	-76.28	-13.00	-63.28	Vertical	
1697.700	-46.11	-13.00	-33.11	Vertical	
2460.000	-47.88	-13.00	-34.88	Vertical	
3521.150	-57.57	-13.00	-44.57	Vertical	
4551.550	-56.69	-13.00	-43.69	Vertical	
6176.250	-54.91	-13.00	-41.91	Vertical	
8755.050	-53.61	-13.00	-40.61	Vertical	

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
98.676	-83.92	-13.00	-70.92	Horizontal
162.939	-86.96	-13.00	-73.96	Horizontal
220.896	-83.55	-13.00	-70.55	Horizontal
316.829	-80.10	-13.00	-67.10	Horizontal
438.419	-78.19	-13.00	-65.19	Horizontal
622.864	-74.95	-13.00	-61.95	Horizontal
1697.400	-46.40	-13.00	-33.40	Horizontal
2474.400	-47.77	-13.00	-34.77	Horizontal
3504.000	-58.45	-13.00	-45.45	Horizontal
4389.500	-57.29	-13.00	-44.29	Horizontal
5452.450	-56.73	-13.00	-43.73	Horizontal
7776.800	-54.07	-13.00	-41.07	Horizontal



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7.1.2 Test Band = GSM1900

7.1.2.1 Test Mode = GSM/TM1

7.1.2.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
161.038	-84.92	-13.00	-71.92	Vertical
237.536	-81.24	-13.00	-68.24	Vertical
322.631	-77.56	-13.00	-64.56	Vertical
438.105	-78.58	-13.00	-65.58	Vertical
600.051	-73.05	-13.00	-13.00 -60.05 Vertic	
832.410	-72.06	-13.00	-59.06	Vertical
3700.000	-50.27	-13.00	-37.27	Vertical
4437.625	-51.37	-13.00	-38.37	Vertical
5188.375	-50.79	-13.00	-37.79	Vertical
6157.875	-49.48	-13.00 -36.48 Vertica		Vertical
7428.375	-49.36	-13.00	-36.36	Vertical
9041.000	-48.79	-13.00	-35.79	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
161.832	-84.45	-13.00	-71.45	Horizontal
249.970	-80.47	-13.00	-67.47	Horizontal
345.823	-78.49	-13.00	-65.49	Horizontal
479.904	-77.50	-13.00	-64.50	Horizontal
642.379	-74.58	-13.00	-61.58	Horizontal
875.620	-65.37	-13.00	-52.37	Horizontal
3700.000	-50.71	-13.00	-37.71	Horizontal
4532.125	-51.39	-13.00	-38.39	Horizontal
5585.625	-50.55	-13.00	-37.55	Horizontal
6584.875	-49.26	-13.00	-36.26	Horizontal
7426.625	-48.86	-13.00	-35.86	Horizontal
9088.250	-47.64	-13.00	-34.64	Horizontal



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7.1.2.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
57.750	-67.87	-13.00	-54.87	Vertical	
65.200	-59.84	-13.00	-46.84	Vertical	
73.050	-63.29	-13.00	-50.29	Vertical	
90.050	-67.83	-13.00	-54.83	Vertical	
105.100	-71.77	-13.00	-58.77	Vertical	
347.450	-77.17	-13.00	-64.17	Vertical	
511.025	-60.37	-13.00	-47.37	Vertical	
1229.167	-50.86	-13.00	-37.86	Vertical	
1651.125	-47.93	-13.00	-34.93	Vertical	
2805.000	-41.46	-13.00	-28.46	Vertical	
4292.625	-50.63	-13.00	-37.63	Vertical	
5486.250	-49.78	-13.00	-36.78	Vertical	

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
59.200	-66.98	-13.00	-53.98	Horizontal
95.550	-69.21	-13.00	-56.21	Horizontal
187.250	-75.48	-13.00	-62.48	Horizontal
206.300	-76.97	-13.00	-63.97	Horizontal
503.333	-58.39	-13.00	-45.39	Horizontal
875.833	-47.29	-13.00	-34.29	Horizontal
1517.420	-49.44	-13.00	-36.44	Horizontal
2413.820	-41.60	-13.00	-28.60	Horizontal
2851.600	-40.42	-13.00	-27.42	Horizontal
4198.875	-49.62	-13.00	-36.62	Horizontal
6201.000	-48.65	-13.00	-35.65	Horizontal
7795.000	-47.80	-13.00	-34.80	Horizontal



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7.1.2.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
128.764	-82.95	-13.00	-69.95	Vertical
199.970	-82.32	-13.00	-69.32	Vertical
289.255	-80.15	-13.00	-67.15	Vertical
436.165	-78.48	-13.00	-65.48	Vertical
600.007	-73.97	-13.00	00 -60.97 Vertical	
876.105	-67.89	-13.00	-13.00 -54.89 Verti	
3502.250	-52.43	-13.00	-39.43	Vertical
4052.625	-50.91	-13.00	-37.91	Vertical
4983.625	-50.16	-13.00	-37.16	Vertical
6006.500	-49.65	-13.00	-36.65	Vertical
7298.000	-49.43	-13.00	-36.43	Vertical
8639.375	-48.05	-13.00	-35.05	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
165.006	-81.75	-13.00	-68.75	Horizontal
240.578	-81.40	-13.00	-68.40	Horizontal
330.965	-79.87	-13.00	-66.87	Horizontal
453.846	-77.41	-13.00	-64.41	Horizontal
650.006	-72.75	-13.00	-59.75	Horizontal
875.531	-66.71	-13.00	-53.71	Horizontal
3468.125	-52.90	-13.00	-39.90	Horizontal
4025.500	-52.11	-13.00	-39.11	Horizontal
4668.625	-50.74	-13.00	-37.74	Horizontal
5531.375	-50.72	-13.00	-37.72	Horizontal
6547.250	-49.33	-13.00	-36.33	Horizontal
7847.500	-47.58	-13.00	-34.58	Horizontal

NOTE:

1) The disturbance above 10GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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8 Frequency Stability

8.1 For GSM

8.1.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VL	-8.65	-0.00468	PASS
		LCH	TN	VN	-10.20	-0.00551	PASS
				VH	-12.85	-0.00695	PASS
		MCH		VL	-1.80	-0.00096	PASS
GSM850	GSM/TM1		TN	VN	-2.51	-0.00134	PASS
				VH	-7.49	-0.00398	PASS
				VL	-19.04	-0.00997	PASS
		НСН	TN	VN	-8.39	-0.00439	PASS
				VH	-1.16	-0.00061	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VL	-10.20	-0.00551	PASS
		LCH	TN	VN	-12.85	-0.00695	PASS
				VH	-8.65	-0.00468	PASS
		MCH		VL	-2.51	-0.00134	PASS
GSM1900	GSM/TM1		TN	VN	-7.49	-0.00398	PASS
				VH	-1.80	-0.00096	PASS
			TN	VL	-1.16	-0.00061	PASS
		HCH		VN	-19.04	-0.00997	PASS
				VH	-8.39	-0.00439	PASS



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8.1.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-4.64	-0.00563	PASS
				-20	-1.38	-0.00167	PASS
				-10	-5.38	-0.00653	PASS
				0	-4.19	-0.00508	PASS
		LCH	VN	10	-3.35	-0.00406	PASS
				20	-2.05	-0.00249	PASS
				30	-10.19	-0.01236	PASS
				40	0.66	0.00080	PASS
				50	0.88	0.00107	PASS
				-30	0.14	0.00017	PASS
		MCH		-20	-0.51	-0.00061	PASS
			MCH VN	-10	-8.67	-0.01036	PASS
				0	-2.28	-0.00273	PASS
GSM850	GSM/TM1			10	-2.02	-0.00241	PASS
				20	-3.83	-0.00458	PASS
				30	0.04	0.00005	PASS
				40	-5.70	-0.00681	PASS
				50	-6.41	-0.00766	PASS
				-30	-5.74	-0.00676	PASS
				-20	-7.22	-0.00851	PASS
				-10	-5.09	-0.00600	PASS
				0	-3.83	-0.00451	PASS
		HCH	VN	10	-10.26	-0.01209	PASS
				20	-9.67	-0.01139	PASS
				30	-1.54	-0.00181	PASS
				40	-8.61	-0.01014	PASS
				50	-3.67	-0.00432	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-15.00	-0.00811	PASS
				-20	-8.93	-0.00483	PASS
				-10	-14.10	-0.00762	PASS
				0	-2.28	-0.00123	PASS
		LCH	VN	10	1.59	0.00086	PASS
				20	-5.12	-0.00277	PASS
				30	-13.90	-0.00751	PASS
				40	-10.48	-0.00566	PASS
				50	1.27	0.00069	PASS
				-30	-5.83	-0.00310	PASS
		MCH		-20	-7.45	-0.00396	PASS
				-10	-13.19	-0.00702	PASS
				0	-0.73	-0.00039	PASS
GSM1900	GSM/TM1		VN	10	-15.39	-0.00819	PASS
				20	-7.70	-0.00410	PASS
				30	2.37	0.00126	PASS
				40	-8.93	-0.00475	PASS
				50	-11.97	-0.00637	PASS
				-30	-14.74	-0.00772	PASS
				-20	-5.25	-0.00275	PASS
				-10	-6.80	-0.00356	PASS
				0	-11.77	-0.00616	PASS
		HCH	VN	10	1.01	0.00053	PASS
				20	2.56	0.00134	PASS
				30	-6.35	-0.00332	PASS
				40	-13.65	-0.00715	PASS
				50	-2.22	-0.00116	PASS

The End