WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel** CF 1.8524 GHz Type Ref Trc **Function Result** Type | Ref | Trc | 4.135864136 MHz 4.145854146 MHz 9.28 dBm 9.63 dBm Date: 12.JUL.2018 14:12:02 Date: 12.JUL.2018 14:52:16 **Middle Channel Middle Channel** Mode Auto FFT Mode Auto FFT 18.18 dBm 1.88057900 GH; 4.145854146 MH; M1[1] M1[1] 40 dBm Type | Ref | Trc |
 X-value
 Y-value
 Function

 835.521 MHz
 18.24 dBm

 834.33207 MHz
 9.50 dBm
 Occ Bw

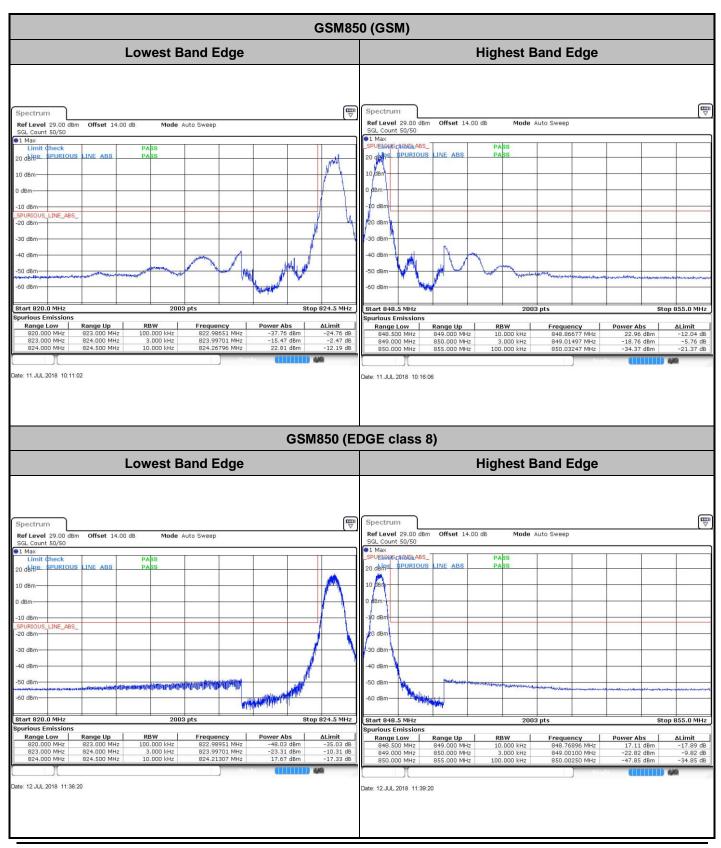
 838.46793 MHz
 9.54 dBm
 Type Ref Trc Function **Function Result Function Result** 4.135864136 MHz 4.145854146 MHz Date: 12.JUL 2018 14:12:57 Date: 12.JUL 2018 14:53:27 **Highest Channel Highest Channel** 14.00 dB RBW 100 kHz 37.9 μs **w VBW** 300 kHz **Mode** Auto FFT 17.81 dB 847.20900 MH 4.155844156 MH -10 dBm -60 dBm-Marker Type | Ref | Trc | Type | Ref | Trc | Occ Bw

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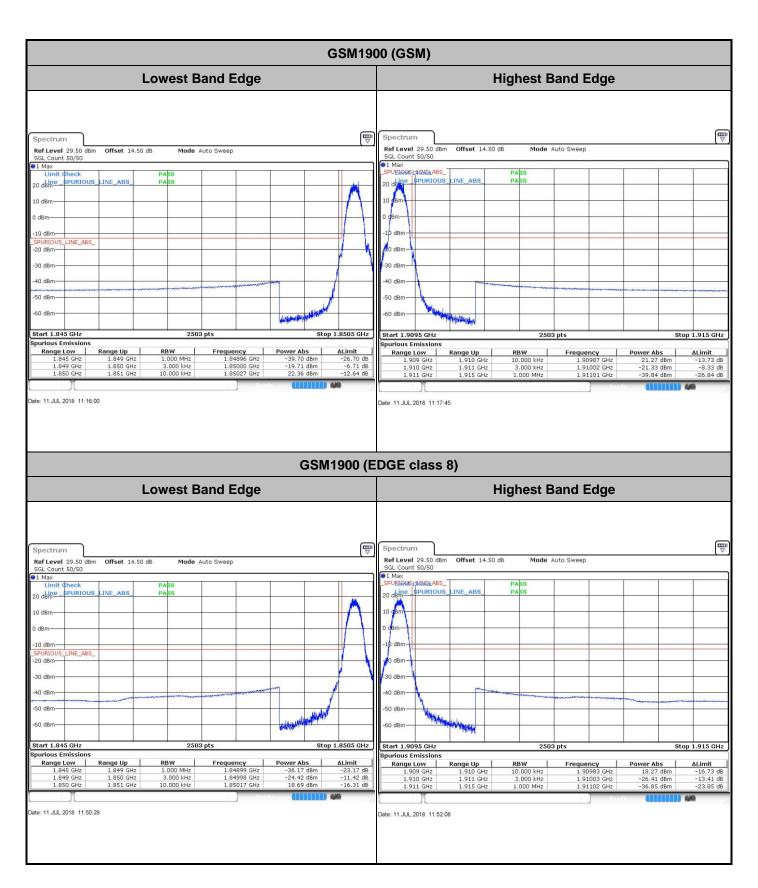
Conducted Band Edge



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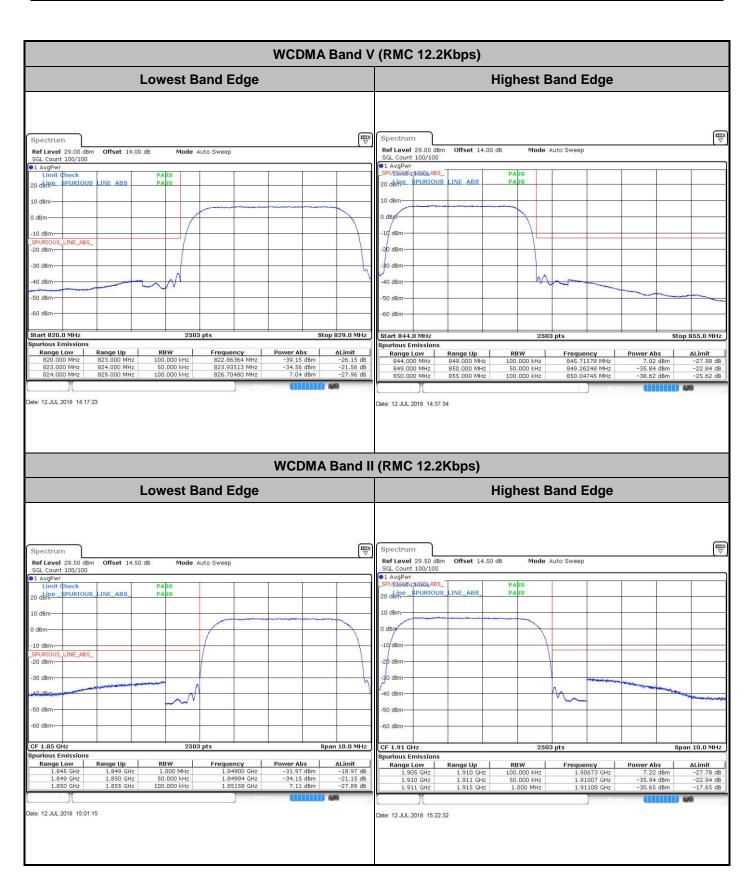
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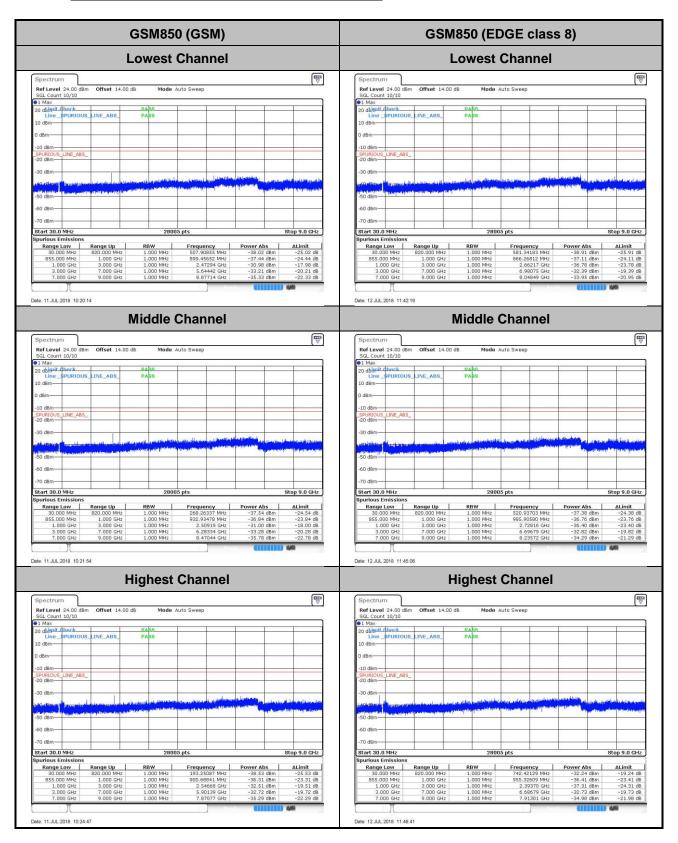


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Conducted Spurious Emission



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GSM1900 (GSM) GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel** Ref Level 24.50 dBm Offset 14.50 dB Mode Auto Sweep Ref Level 24.50 dBm SGL Count 10/10 Offset 14.50 dB it check Start 30.0 MHz Stop 19.1 GHz Start 30.0 MHz Spurious Emiss Stop 19.1 GHz Date: 11.JUL.2018 11:25:35 Date: 11.JUL.2018 11:54:00 **Middle Channel Middle Channel** -60 dBm-Start 30.0 MH Stop 19.1 GHz Start 30.0 MHz Spurious Emissions Stop 19.1 GHz Date: 11.JUL.2018 11:27:29 Date: 11.JUL.2018 11:55:26 **Highest Channel Highest Channel** SGL Count 10/10 nit dheck IRIOUS LINE ABS dBm-LINE_ABS

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WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel** Ref Level 24.50 dBm Offset 14.50 dB SGL Count 10/10 Offset 14.50 dB Ref Level 24.00 dBm Offset 14.00 dB it check Start 30.0 MHz Spurious Emiss Stop 19.1 GHz Start 30.0 MHz Spurious Emissions Range Low 30,000 MHz Range Up 820,000 MH; Date: 12.JUL.2018 14:39:51 Date: 12.JUL.2018 15:26:49 **Middle Channel Middle Channel** LINE ABS Start 30.0 MHz Date: 12.JUL 2018 14:41:23 Date: 12.JUL 2018 15:28:29 **Highest Channel Highest Channel** SGL Count 10/10 nit dheck dBm-LINE_ABS Start 30.0 MH Stop 9.0 GHz

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Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0002	0.0014	
40	Normal Voltage	0.0018	0.0027	
30	Normal Voltage	0.0004	0.0027	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0018	0.0022	
0	Normal Voltage	0.0022	0.0008	
-10	Normal Voltage	0.0006	0.0048	PASS
-20	Normal Voltage	0.0032	0.0036	
-30	Normal Voltage	0.0004	0.0004	
20	Maximum Voltage	0.0011	0.0042	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0006	0.0057	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0038	0.0018	
40	Normal Voltage	0.0001	0.0023	
30	Normal Voltage	0.0018	0.0048	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0040	0.0030	
0	Normal Voltage	0.0007	0.0027	
-10	Normal Voltage	0.0026	0.0028	PASS
-20	Normal Voltage	0.0010	0.0044	
-30	Normal Voltage	0.0040	0.0023	
20	Maximum Voltage	0.0011	0.0024	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0013	0.0030	

Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0005	
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0024	PASS
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0037	
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0019	PASS
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.35 V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Appendix B. Test Results of Conducted Test

Radiated Spurious Emission

	GSM850 (GSM)										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	1672.8	-50.08	-13	-37.08	-57.61	-54.49	2.84	9.40	Н		
	2509.2	-57.40	-13	-44.40	-67.82	-62.15	3.70	10.60	Н		
	3345.6	-66.01	-13	-53.01	-76.43	-72.09	4.37	12.60	Н		
Middle	4182	-57.13	-13	-44.13	-71.89	-62.75	4.85	12.62	Н		
Middle	1672.8	-66.59	-13	-53.59	-71.30	-71.00	2.84	9.40	V		
	2509.2	-64.82	-13	-51.82	-74.65	-69.57	3.70	10.60	V		
	3345.6	-69.45	-13	-56.45	-79.28	-75.53	4.37	12.60	V		
	4182	-64.79	-13	-51.79	-78.36	-70.41	4.85	12.62	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	GSM850 (EDGE class 8)										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	1672.8	-56.23	-13	-43.23	-61.79	-60.64	2.84	9.40	Н		
	2509.2	-51.14	-13	-38.14	-61.73	-55.89	3.7	10.60	Н		
	3345.6	-59.45	-13	-46.45	-74.21	-65.53	4.37	12.60	Н		
Middle	4182	-50.31	-13	-37.31	-67.88	-55.93	4.85	12.62	Н		
ivildale	1672.8	-63.95	-13	-50.95	-68.66	-68.36	2.84	9.40	V		
	2509.2	-64.20	-13	-51.20	-74.03	-68.95	3.70	10.60	V		
	3345.6	-64.98	-13	-51.98	-78.55	-71.06	4.37	12.60	V		
	4182	-58.51	-13	-45.51	-76.22	-64.13	4.85	12.62	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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	GSM1900 (GSM)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	3760.00	-49.47	-13	-36.47	-63.09	-57.07	5.00	12.60	Н	
	5640.00	-60.01	-13	-47.01	-76.61	-65.81	7.30	13.10	Н	
	7520.00	-59.00	-13	-46.00	-78.98	-62.57	7.73	11.30	Н	
Middle	9400.00	-41.37	-13	-28.37	-66.09	-45.15	8.12	11.90	Н	
ivildale	3760.00	-40.97	-13	-27.97	-55.88	-48.57	5.00	12.60	V	
	5640.00	-53.72	-13	-40.72	-70.25	-59.52	7.30	13.10	V	
	7520.00	-59.55	-13	-46.55	-79.19	-63.12	7.73	11.30	V	
	9400.00	-47.24	-13	-34.24	-71.22	-51.02	8.12	11.90	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	GSM1900 (EDGE class 8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	3760.00	-45.59	-13	-32.59	-59.21	-53.19	5.00	12.60	Н	
	5640.00	-57.98	-13	-44.98	-74.58	-63.78	7.30	13.10	Н	
	7520.00	-59.16	-13	-46.16	-79.14	-62.73	7.73	11.30	Н	
Middle	9400.00	-40.78	-13	-27.78	-65.50	-44.56	8.12	11.90	Н	
ivildale	3760.00	-42.34	-13	-29.34	-56.67	-49.94	5.00	12.60	V	
	5640.00	-53.95	-13	-40.95	-70.48	-59.75	7.30	13.10	V	
	7520.00	-59.14	-13	-46.14	-78.78	-62.71	7.73	11.30	V	
	9400.00	-41.94	-13	-28.94	-65.92	-45.72	8.12	11.90	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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	WCDMA Band V(RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	1672.8	-71.18	-13	-58.18	-76.74	-75.59	2.84	9.40	Н	
	2509.2	-67.27	-13	-54.27	-77.69	-72.02	3.7	10.60	Н	
	3345.6	-52.95	-13	-39.95	-67.71	-59.03	4.37	12.60	Н	
Middle	4182	-62.18	-13	-49.18	-79.75	-67.80	4.85	12.62	Н	
ivildale	1672.8	-73.37	-13	-60.37	-78.08	-77.78	2.84	9.40	V	
	2509.2	-69.21	-13	-56.21	-79.04	-73.96	3.70	10.60	V	
	3345.6	-62.97	-13	-49.97	-76.54	-69.05	4.37	12.60	V	
	4182	-63.10	-13	-50.10	-80.81	-68.72	4.85	12.62	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	WCDMA Band II(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	3760.00	-62.99	-13	-49.99	-76.61	-70.59	5.00	12.60	Н	
	5640.00	-61.81	-13	-48.81	-78.41	-67.61	7.30	13.10	Н	
	7520.00	-59.30	-13	-46.30	-79.28	-62.87	7.73	11.30	Н	
Middle	9400.00	-55.30	-13	-42.30	-80.02	-59.08	8.12	11.90	Н	
ivildale	3760.00	-62.24	-13	-49.24	-76.57	-69.84	5.00	12.60	V	
	5640.00	-62.47	-13	-49.47	-79	-68.27	7.30	13.10	V	
	7520.00	-59.67	-13	-46.67	-79.31	-63.24	7.73	11.30	V	
	9400.00	-56.17	-13	-43.17	-80.15	-59.95	8.12	11.90	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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