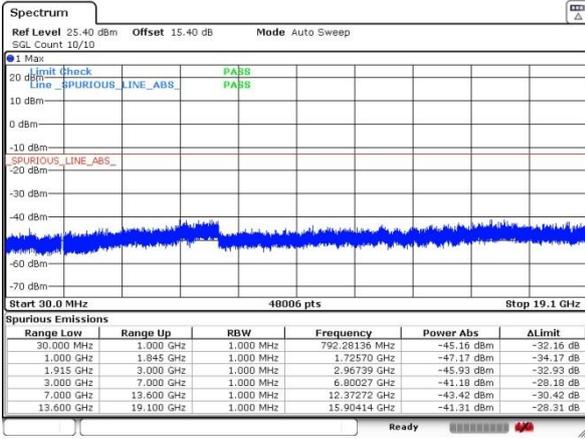




GSM1900 (GSM)

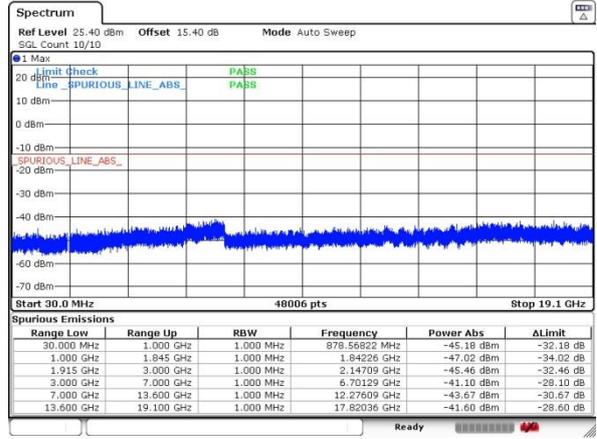
Lowest Channel



Date: 5 AUG 2019 15:57:22

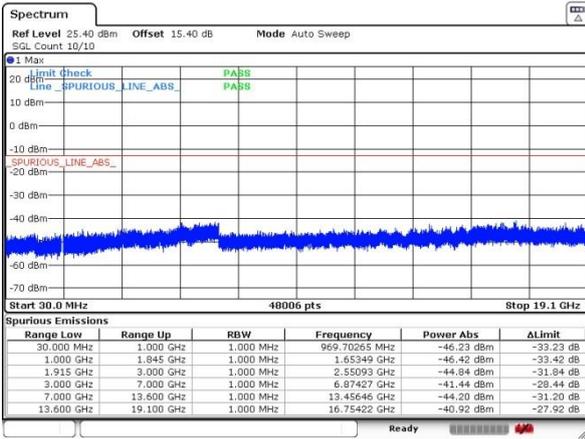
GSM1900 (EDGE class 8)

Lowest Channel



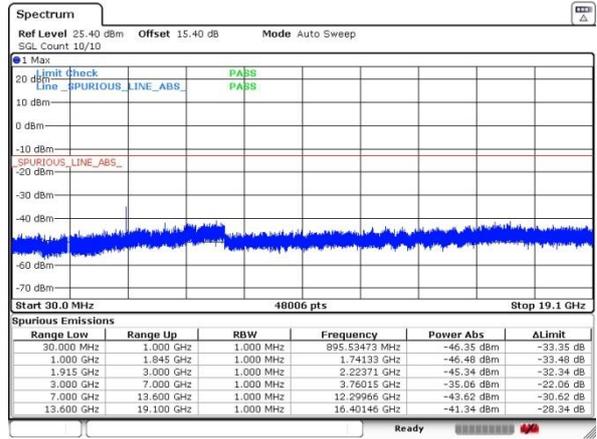
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Middle Channel



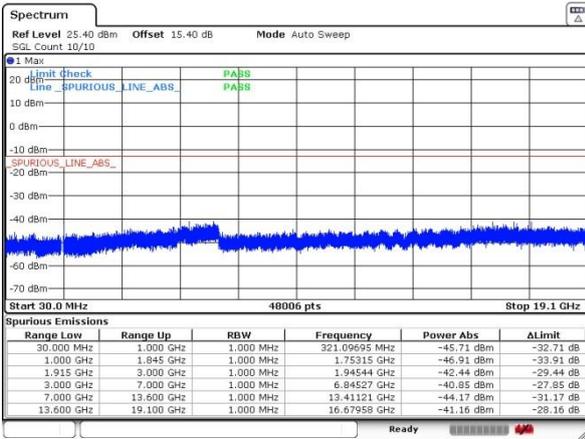
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Middle Channel



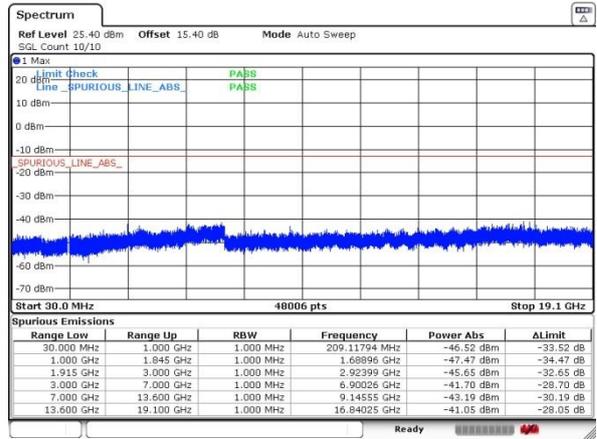
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Highest Channel



Date: 5 AUG 2019 15:57:48

Highest Channel

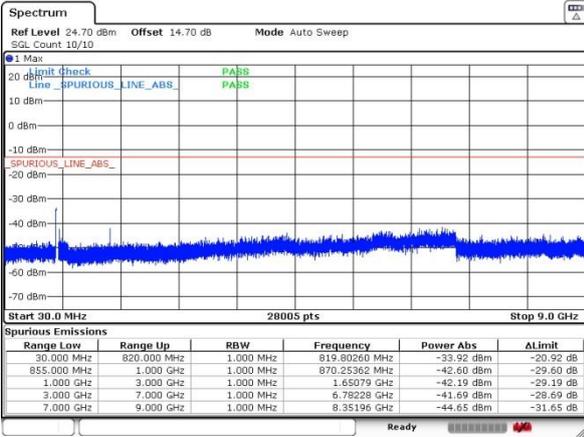


Date: 5 AUG 2019 16:17:26



WCDMA Band V (RMC 12.2Kbps)

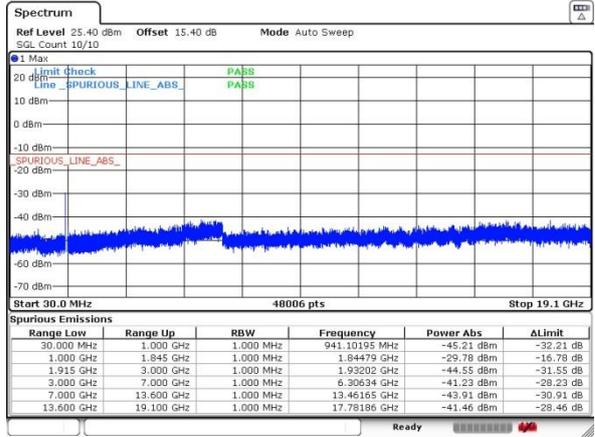
Lowest Channel



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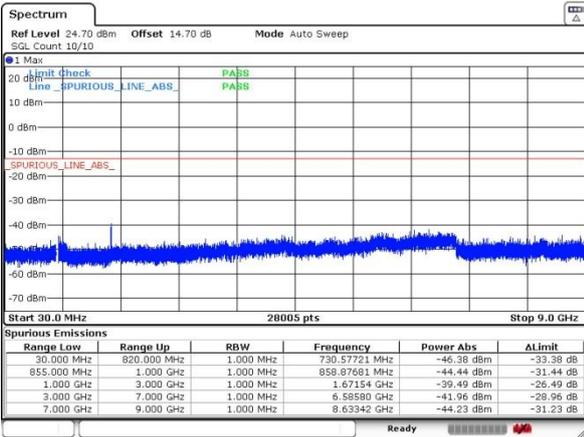
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



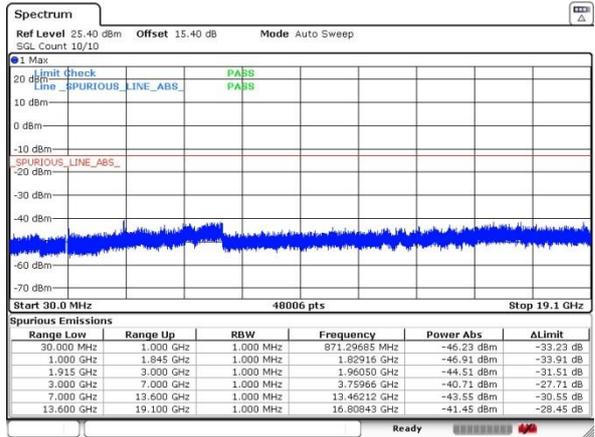
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Middle Channel



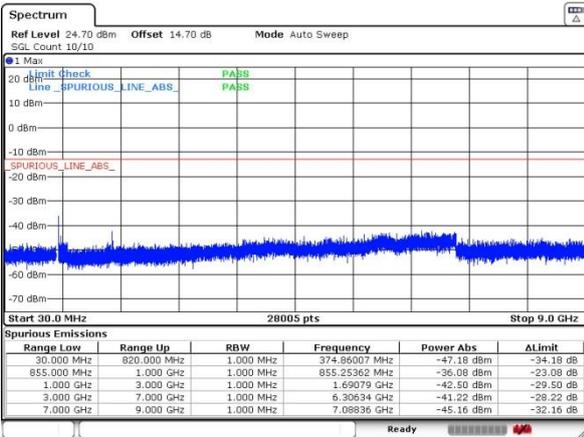
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Middle Channel



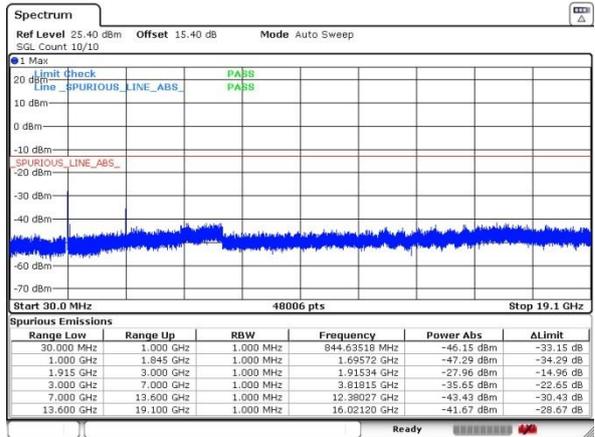
Date: 5 AUG 2019 16:41:20

Highest Channel



Date: 5 AUG 2019 16:31:22

Highest Channel



Date: 5 AUG 2019 16:41:36



Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0108	0.0251	PASS
40	Normal Voltage	0.0287	0.0323	
30	Normal Voltage	0.0036	0.0048	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0024	0.0096	
0	Normal Voltage	0.0287	0.0395	
-10	Normal Voltage	0.0096	0.0347	
-20	Normal Voltage	0.0012	0.0012	
-30	Normal Voltage	0.0084	0.0024	
20	Maximum Voltage	0.0024	0.0012	
20	Normal Voltage	0.0275	0.0275	
20	Battery End Point	0.0299	0.0096	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0021	0.0080	PASS
40	Normal Voltage	0.0016	0.0117	
30	Normal Voltage	0.0011	0.0112	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0027	0.0011	
0	Normal Voltage	0.0080	0.0080	
-10	Normal Voltage	0.0016	0.0021	
-20	Normal Voltage	0.0048	0.0117	
-30	Normal Voltage	0.0117	0.0085	
20	Maximum Voltage	0.0106	0.0037	
20	Normal Voltage	0.0106	0.0021	
20	Battery End Point	0.0021	0.0027	

Note:

1. Normal Voltage = 3.85V ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0251	
30	Normal Voltage	0.0227	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0132	
-30	Normal Voltage	0.0108	
20	Maximum Voltage	0.0084	
20	Normal Voltage	0.0048	
20	Battery End Point	0.0335	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0128	PASS
40	Normal Voltage	0.0096	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0074	
0	Normal Voltage	0.0090	
-10	Normal Voltage	0.0074	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage = 3.85V ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

GSM850 (GSM)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.00	-57.70	-13	-44.70	-60.94	1.11	6.50	H
	2510.00	-48.46	-13	-35.46	-51.08	1.43	6.20	H
	3348.00	-59.12	-13	-46.12	-63.56	1.71	8.30	H
	1672.00	-56.63	-13	-43.63	-59.87	1.11	6.50	V
	2510.00	-44.19	-13	-31.19	-46.81	1.43	6.20	V
	3348.00	-59.04	-13	-46.04	-63.48	1.71	8.30	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.00	-61.00	-13	-48.00	-64.24	1.11	6.50	H
	2510.00	-47.39	-13	-34.39	-50.01	1.43	6.20	H
	3348.00	-59.58	-13	-46.58	-64.02	1.71	8.30	H
	1672.00	-62.08	-13	-49.08	-65.32	1.11	6.50	V
	2508.00	-49.53	-13	-36.53	-52.15	1.43	6.20	V
	3348.00	-59.40	-13	-46.40	-63.84	1.71	8.30	V

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



GSM1900 (GSM)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-50.60	-13	-37.60	-56.86	1.84	8.10	H
	5640	-48.34	-13	-35.34	-56.65	2.19	10.50	H
	7524	-51.97	-13	-38.97	-60.89	2.58	11.50	H
	3759	-51.79	-13	-38.79	-58.05	1.84	8.10	V
	5640	-52.68	-13	-39.68	-60.99	2.19	10.50	V
	7524	-52.30	-13	-39.30	-61.22	2.58	11.50	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-56.18	-13	-43.18	-62.44	1.84	8.10	H
	5640	-53.13	-13	-40.13	-61.44	2.19	10.50	H
	7524	-52.12	-13	-39.12	-61.04	2.58	11.50	H
	3759	-56.07	-13	-43.07	-62.33	1.84	8.10	V
	5640	-53.25	-13	-40.25	-61.56	2.19	10.50	V
	7524	-52.04	-13	-39.04	-60.96	2.58	11.50	V

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



WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-58.12	-13	-45.12	-61.36	1.11	6.50	H
	2510	-60.85	-13	-47.85	-63.47	1.43	6.20	H
	3348	-59.79	-13	-46.79	-64.23	1.71	8.30	H
	1672	-60.21	-13	-47.21	-63.45	1.11	6.50	V
	2510	-60.41	-13	-47.41	-63.03	1.43	6.20	V
	3348	-59.32	-13	-46.32	-63.76	1.71	8.30	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-54.05	-13	-41.05	-60.31	1.84	8.10	H
	5640	-50.41	-13	-37.41	-58.72	2.19	10.50	H
	7524	-52.16	-13	-39.16	-61.08	2.58	11.50	H
	3759	-54.98	-13	-41.98	-61.24	1.84	8.10	V
	5640	-53.25	-13	-40.25	-61.56	2.19	10.50	V
	7524	-52.33	-13	-39.33	-61.25	2.58	11.50	V

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