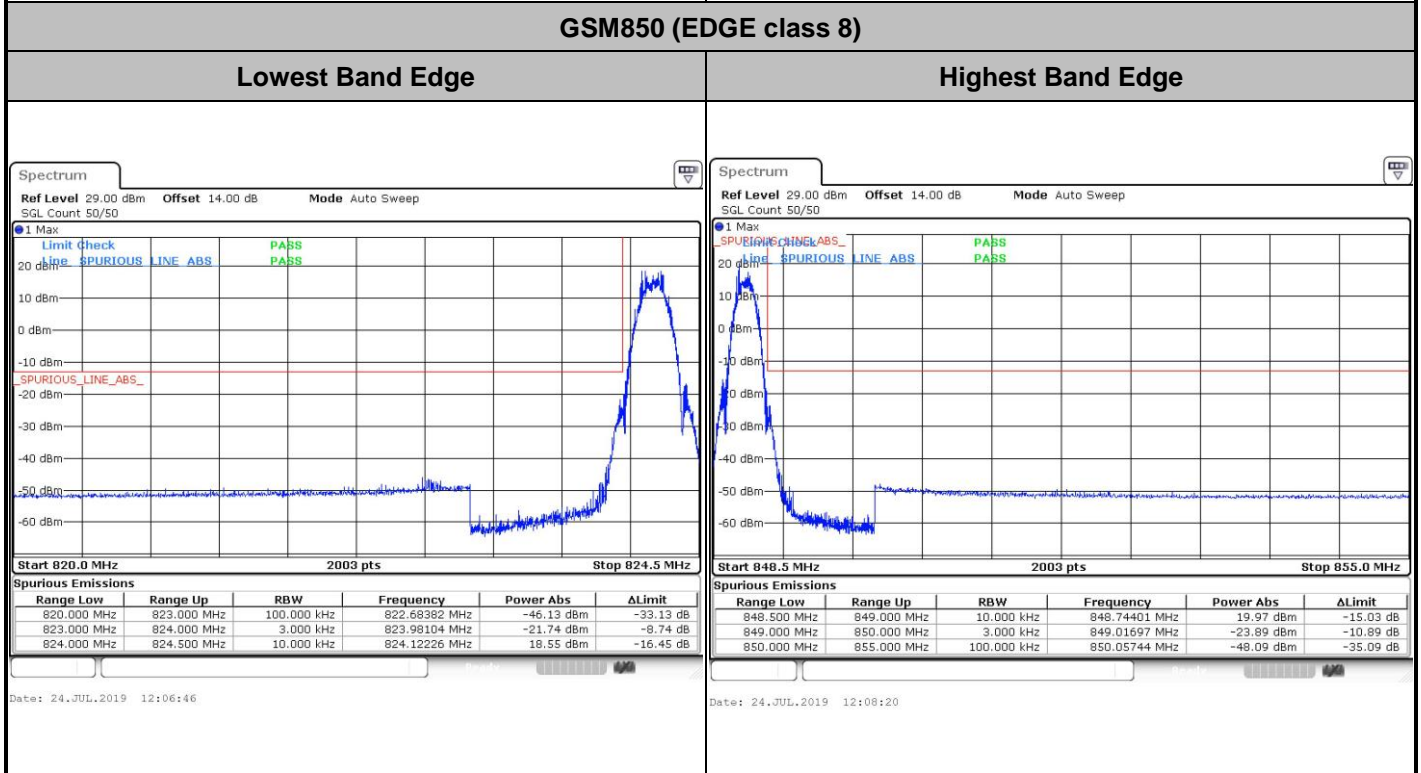
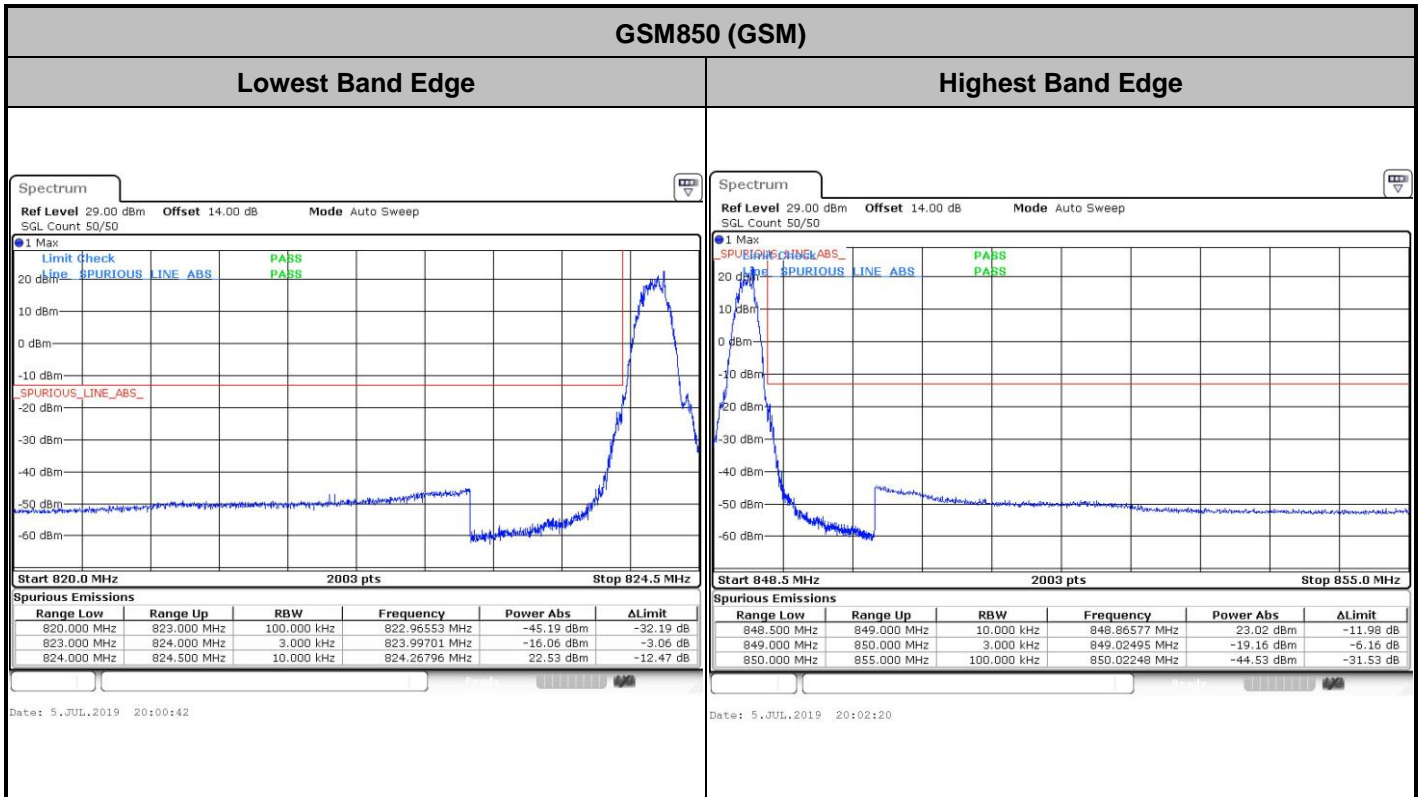




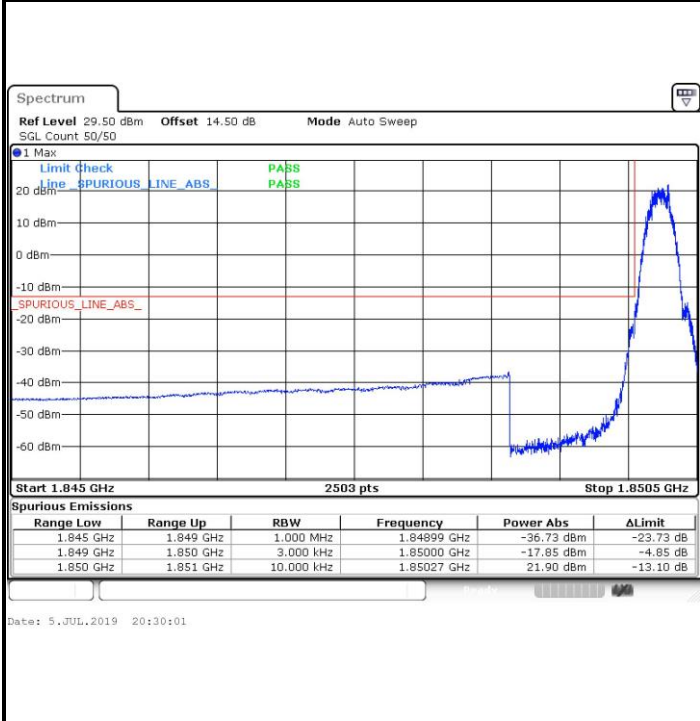
# Conducted Band Edge



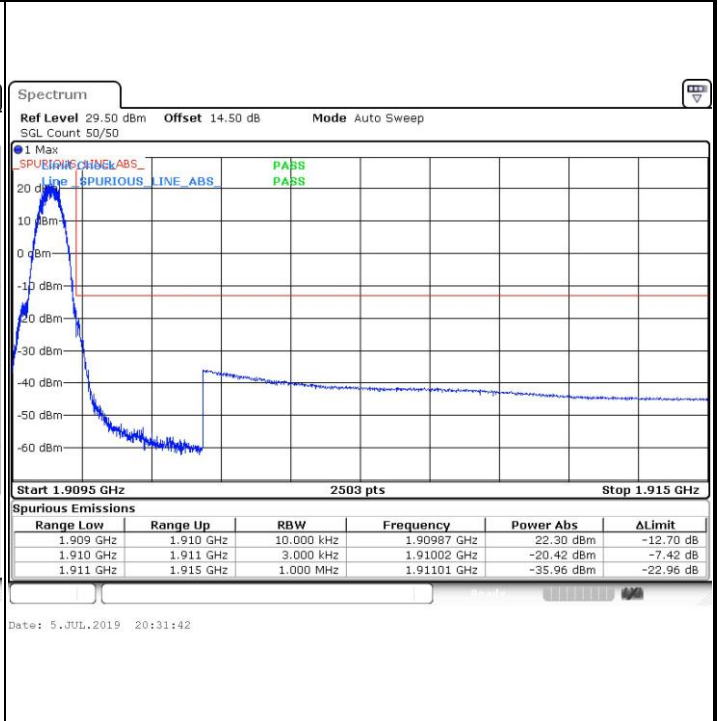


GSM1900 (GSM)

Lowest Band Edge

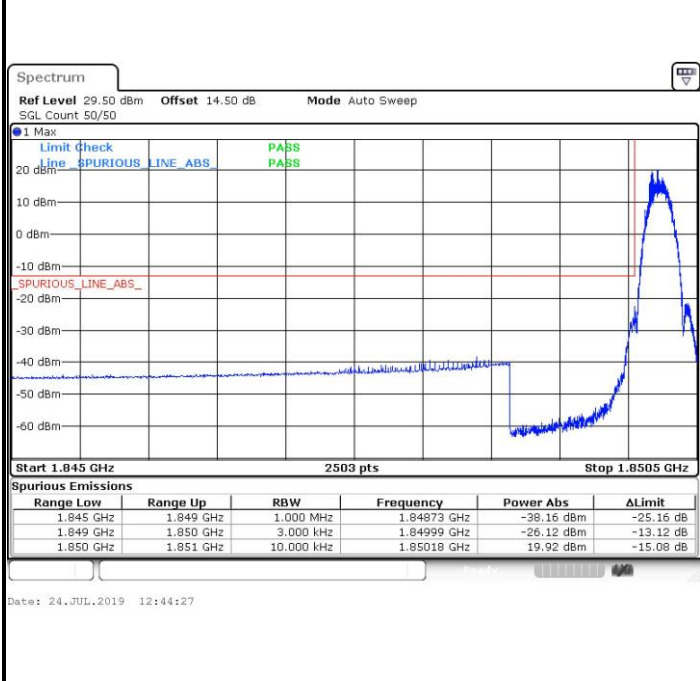


Highest Band Edge

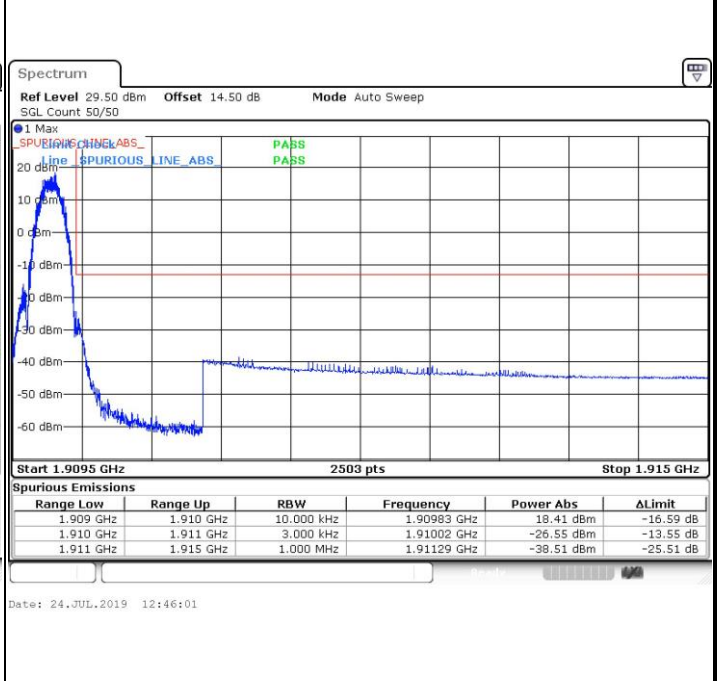


GSM1900 (EDGE class 8)

Lowest Band Edge

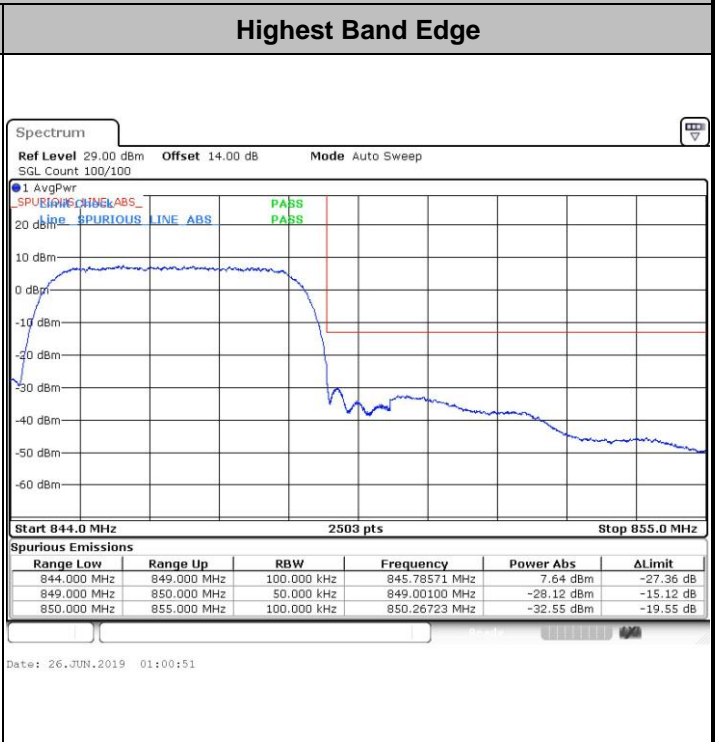
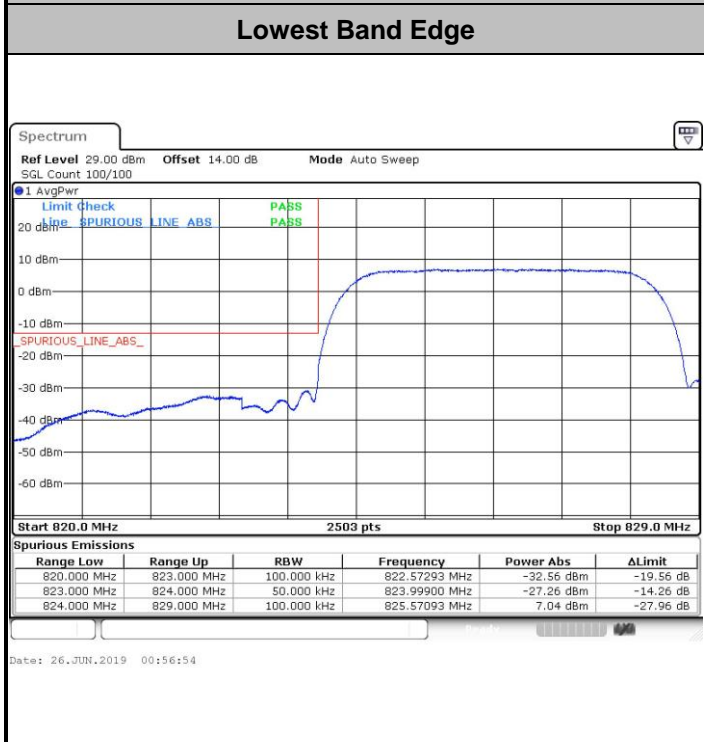


Highest Band Edge

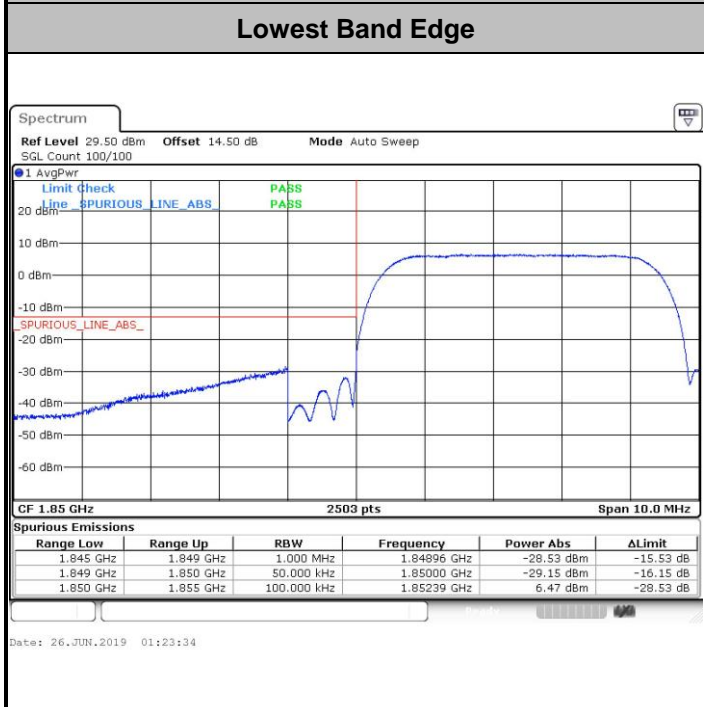




**WCDMA Band V (RMC 12.2Kbps)**



**WCDMA Band II (RMC 12.2Kbps)**





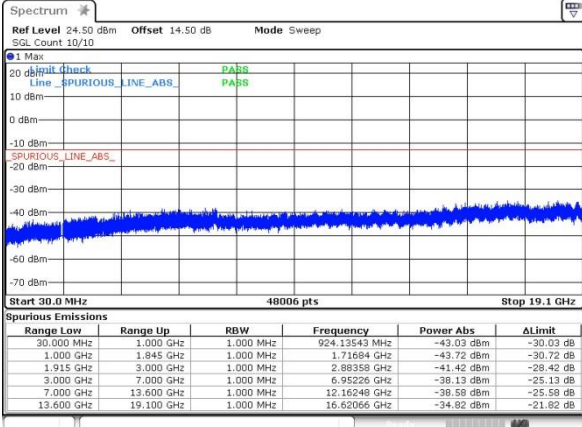
# Conducted Spurious Emission





GSM1900 (GSM)

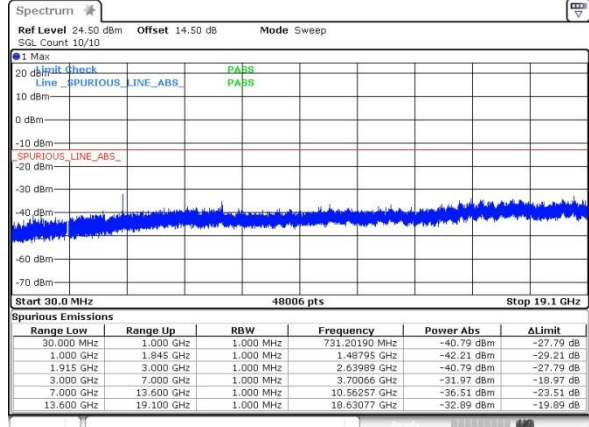
Lowest Channel



Date: 5.JUL.2019 20:13:01

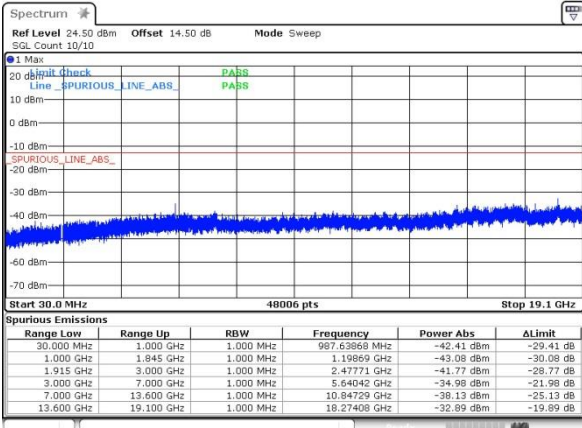
GSM1900 (EDGE class 8)

Lowest Channel



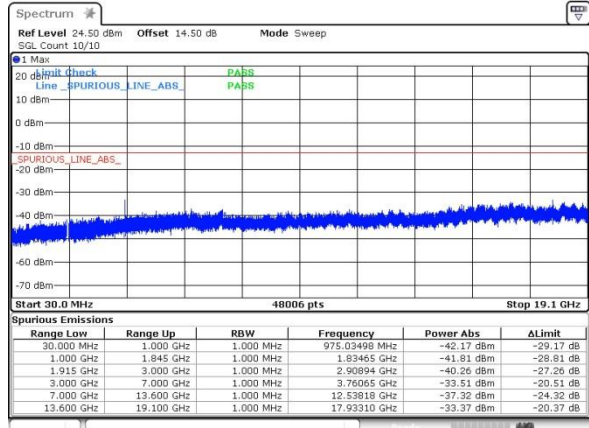
Date: 24.JUL.2019 12:48:37

Middle Channel



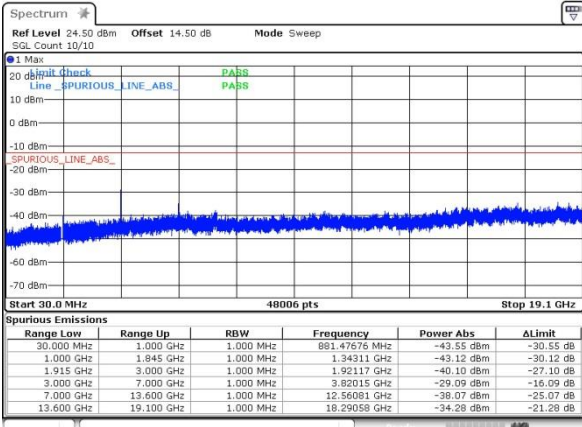
Date: 5.JUL.2019 20:13:27

Middle Channel



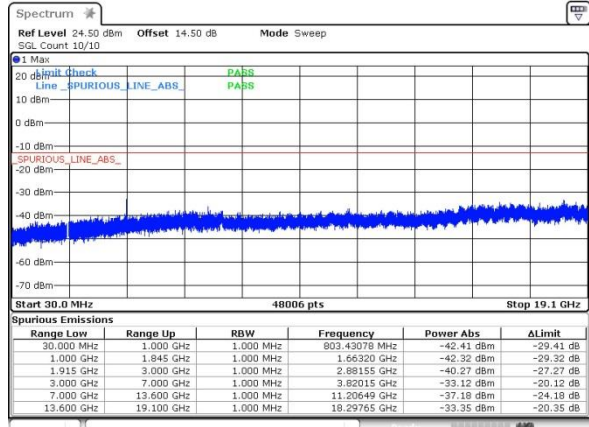
Date: 24.JUL.2019 12:48:59

Highest Channel



Date: 5.JUL.2019 20:13:18

Highest Channel

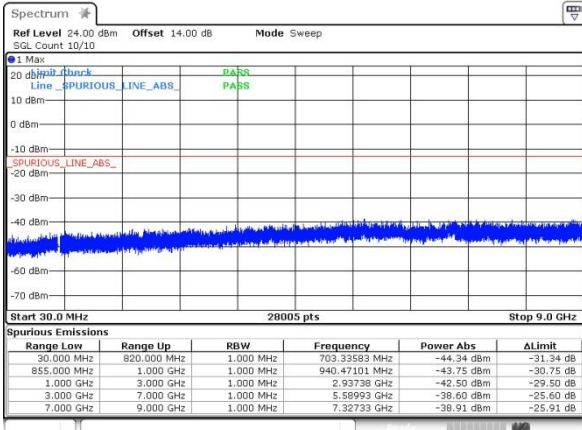


Date: 24.JUL.2019 12:49:27



WCDMA Band V (RMC 12.2Kbps)

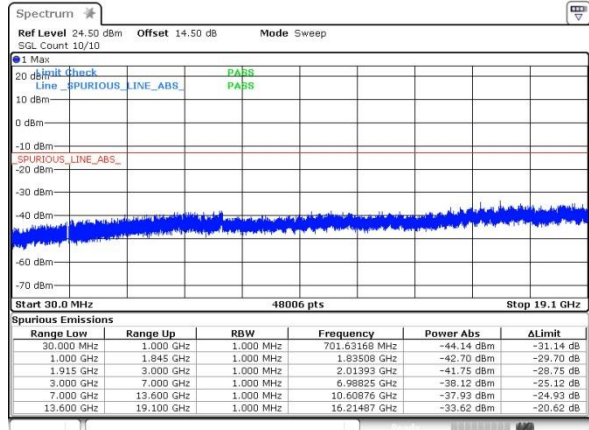
Lowest Channel



Date: 26 JUN 2019 01:07:08

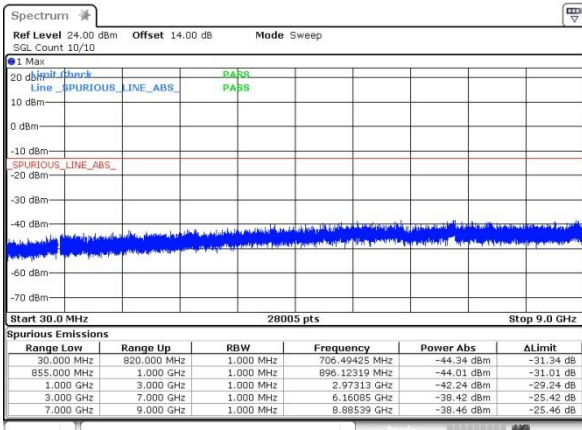
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



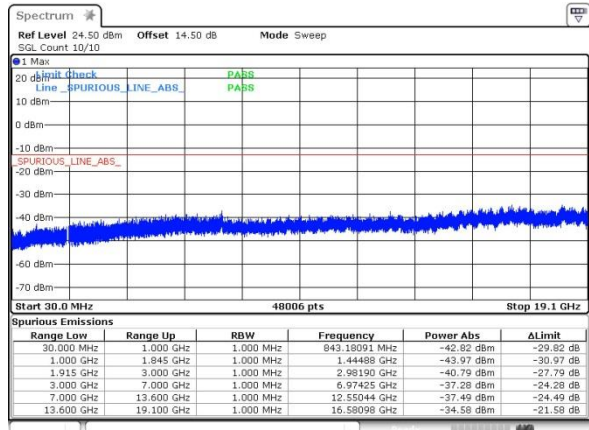
Date: 26 JUN 2019 01:30:21

Middle Channel



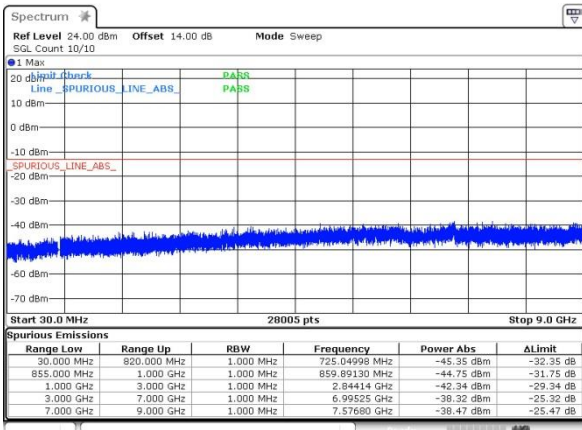
Date: 26 JUN 2019 01:08:09

Middle Channel



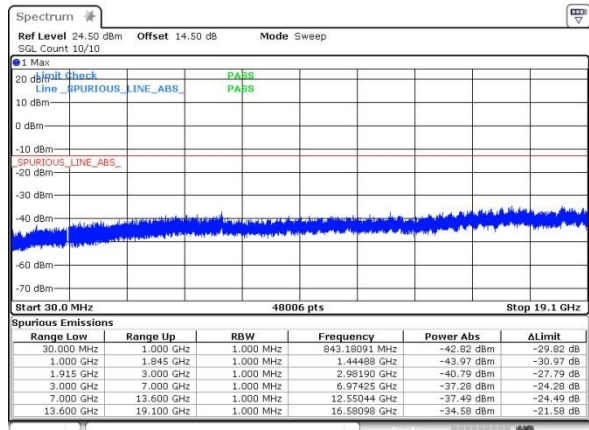
Date: 26 JUN 2019 01:30:55

Highest Channel



Date: 26 JUN 2019 01:08:51

Highest Channel



Date: 26 JUN 2019 01:31:25



**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	0.0035	0.0072	PASS
40	Normal Voltage	0.0023	0.0036	
30	Normal Voltage	0.0029	0.0012	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0019	0.0024	
0	Normal Voltage	0.0008	0.0096	
-10	Normal Voltage	0.0026	0.0108	
-20	Normal Voltage	0.0016	0.0084	
-30	Normal Voltage	0.0005	0.0012	
20	Maximum Voltage	0.0024	0.0060	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0030	0.0120	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.2 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0002	0.0069	PASS
40	Normal Voltage	0.0017	0.0037	
30	Normal Voltage	0.0006	0.0043	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0013	0.0011	
0	Normal Voltage	0.0016	0.0053	
-10	Normal Voltage	0.0027	0.0043	
-20	Normal Voltage	0.0034	0.0016	
-30	Normal Voltage	0.0019	0.0048	
20	Maximum Voltage	0.0028	0.0011	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0041	0.0021	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.2 V
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 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.2 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V
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 )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-56.49	-13	-43.49	-58.20	-60.86	2.88	9.40	H
	2509.2	-49.63	-13	-36.63	-57.18	-55.58	2.5	10.60	H
	3345.6	-63.60	-13	-50.60	-71.60	-69.42	4.63	12.60	H
	1672.8	-55.41	-13	-42.41	-57.25	-59.78	2.88	9.40	V
	2509.2	-47.23	-13	-34.23	-55.50	-53.18	2.50	10.60	V
	3345.6	-61.58	-13	-48.58	-69.61	-67.40	4.63	12.60	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)
Middle	1672.8	-65.86	-13	-52.86	-67.57	-70.23	2.88	9.40	H
	2509.2	-59.70	-13	-46.70	-65.76	-64.65	3.50	10.60	H
	3345.6	-70.01	-13	-57.01	-78.01	-75.83	4.63	12.60	H
	1672.8	-63.26	-13	-50.26	-65.10	-67.63	2.88	9.40	V
	2509.2	-60.45	-13	-47.45	-66.40	-65.40	3.50	10.60	V
	3345.6	-69.47	-13	-56.47	-77.50	-75.29	4.63	12.60	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 )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760.00	-57.38	-13	-44.38	-71.00	-64.98	5.00	12.60	H
	5640.00	-53.58	-13	-40.58	-70.18	-59.38	7.30	13.10	H
	7520.00	-58.78	-13	-45.78	-78.76	-62.35	7.73	11.30	H
	3760.00	-59.92	-13	-46.92	-74.25	-67.52	5.00	12.60	V
	5640.00	-54.47	-13	-41.47	-71.00	-60.27	7.30	13.10	V
	7520.00	-59.45	-13	-46.45	-79.09	-63.02	7.73	11.30	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)
Middle	3760.00	-63.57	-13	-50.57	-77.19	-71.17	5.00	12.60	H
	5640.00	-62.54	-13	-49.54	-79.14	-68.34	7.30	13.10	H
	7520.00	-59.95	-13	-46.95	-79.93	-63.52	7.73	11.30	H
	3760.00	-62.89	-13	-49.89	-77.22	-70.49	5.00	12.60	V
	5640.00	-63.03	-13	-50.03	-79.56	-68.83	7.30	13.10	V
	7520.00	-60.03	-13	-47.03	-79.67	-63.60	7.73	11.30	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 )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-62.94	-13	-49.94	-64.65	-67.31	2.88	9.40	H
	2509.2	-69.69	-13	-56.69	-75.75	-74.64	3.50	10.60	H
	3345.6	-56.31	-13	-43.31	-64.31	-62.13	4.63	12.60	H
	1672.8	-65.82	-13	-52.82	-67.66	-70.19	2.88	9.40	V
	2509.2	-69.29	-13	-56.29	-75.24	-74.24	3.50	10.60	V
	3345.6	-65.57	-13	-52.57	-73.60	-71.39	4.63	12.60	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)
Middle	3760.00	-59.88	-13	-46.88	-73.50	-67.48	5.00	12.60	H
	5640.00	-62.82	-13	-49.82	-79.42	-68.62	7.30	13.10	H
	7520.00	-59.64	-13	-46.64	-79.62	-63.21	7.73	11.30	H
	3760.00	-61.78	-13	-48.78	-76.11	-69.38	5.00	12.60	V
	5640.00	-62.83	-13	-49.83	-79.36	-68.63	7.30	13.10	V
	7520.00	-59.85	-13	-46.85	-79.49	-63.42	7.73	11.30	V

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