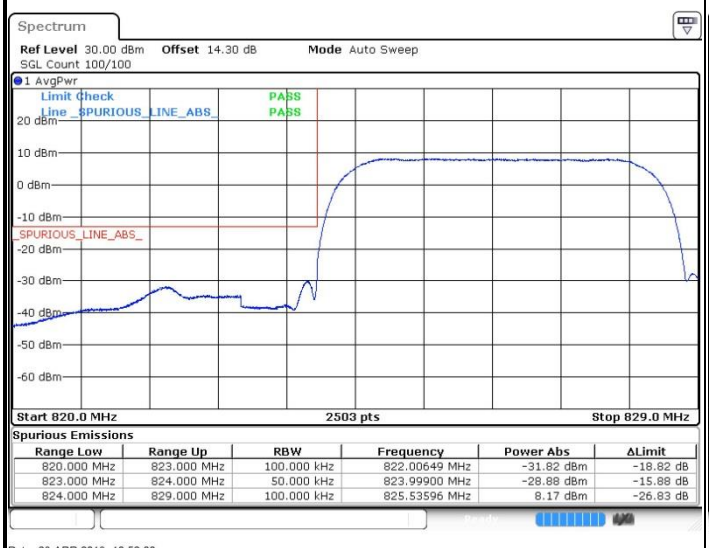
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

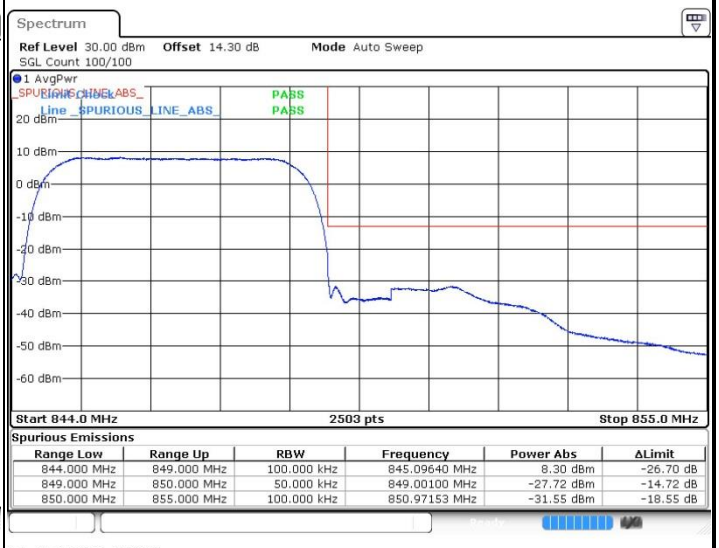


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.00649 MHz	-31.82 dBm	-18.82 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99900 MHz	-28.88 dBm	-15.88 dB
824.000 MHz	829.000 MHz	100.000 kHz	825.53596 MHz	8.17 dBm	-26.83 dB

Date: 28.APR.2018 10:52:00

Highest Band Edge



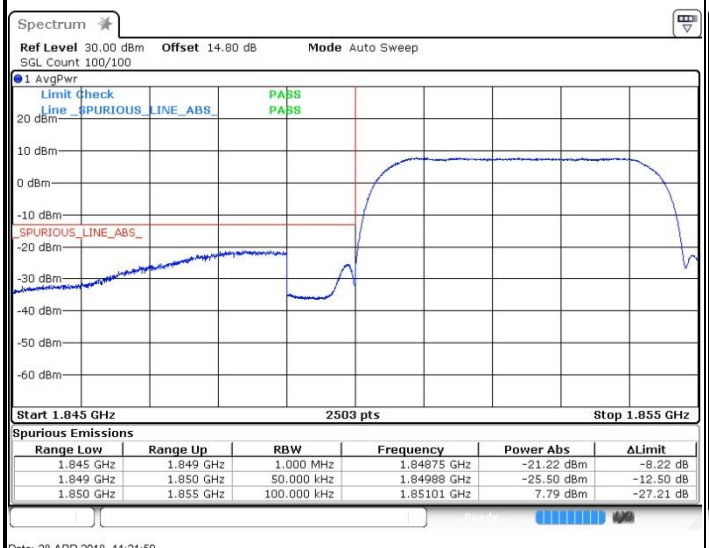
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	845.09640 MHz	8.30 dBm	-26.70 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00100 MHz	-27.72 dBm	-14.72 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.97153 MHz	-31.55 dBm	-18.55 dB

Date: 28.APR.2018 10:54:52

WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

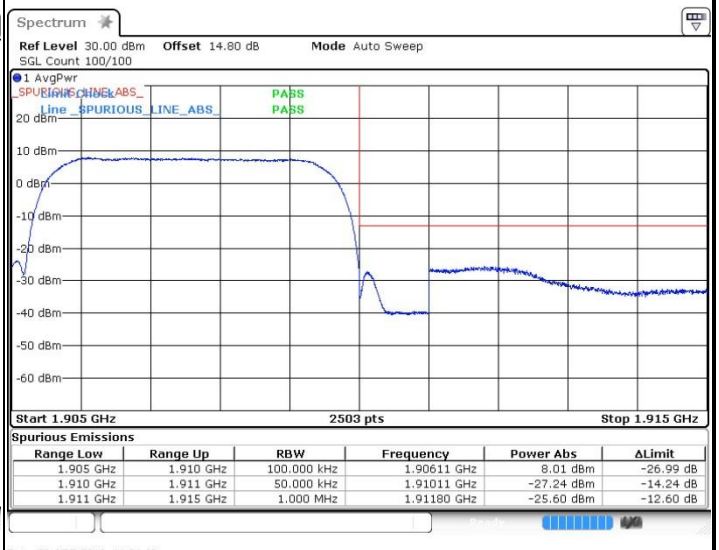


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84875 GHz	-21.22 dBm	-8.22 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.84988 GHz	-25.50 dBm	-12.50 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85101 GHz	7.79 dBm	-27.21 dB

Date: 28.APR.2018 11:21:59

Highest Band Edge



Spurious Emissions

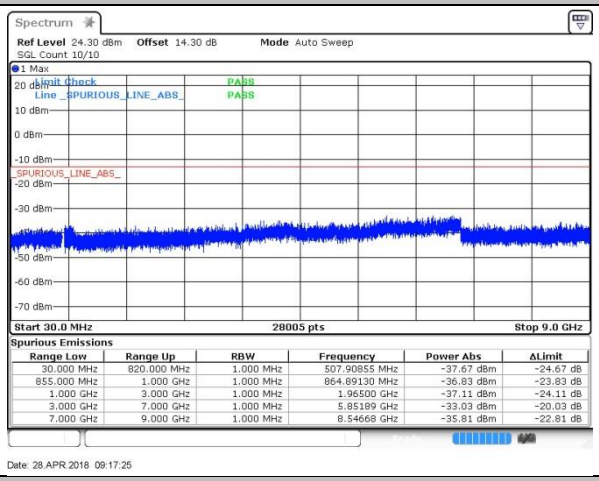
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90611 GHz	8.01 dBm	-26.99 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91011 GHz	-27.24 dBm	-14.24 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91180 GHz	-25.60 dBm	-12.60 dB

Date: 28.APR.2018 11:24:49

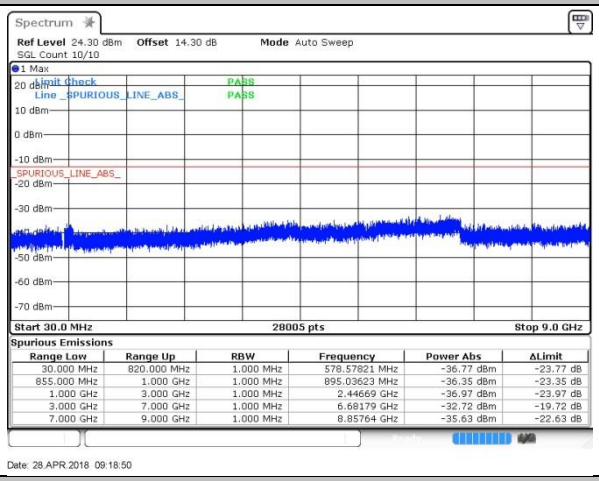
Conducted Spurious Emission

GSM850 (GSM)

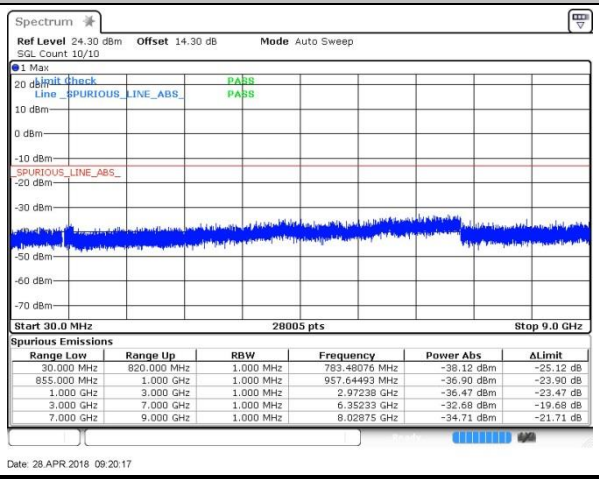
Lowest Channel



Middle Channel

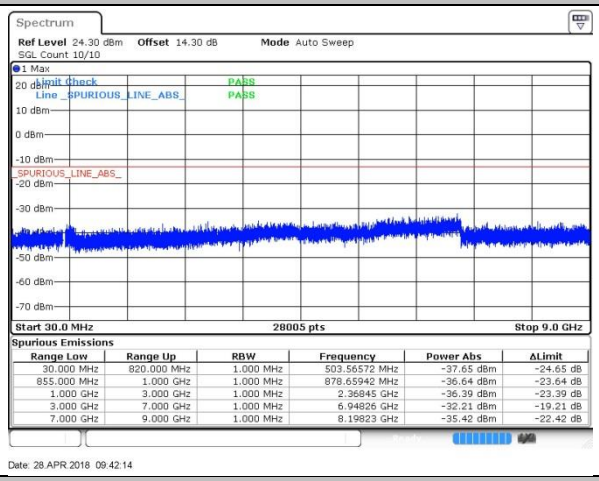


Highest Channel

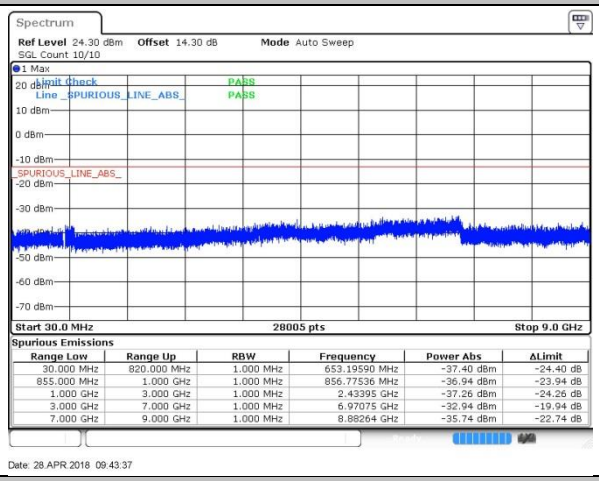


GSM850 (EDGE class 8)

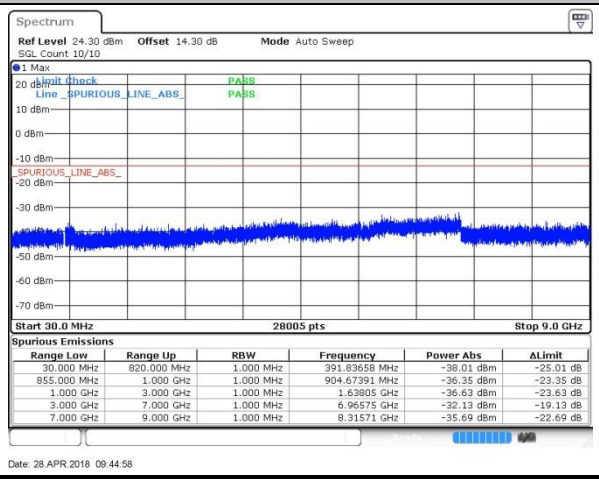
Lowest Channel

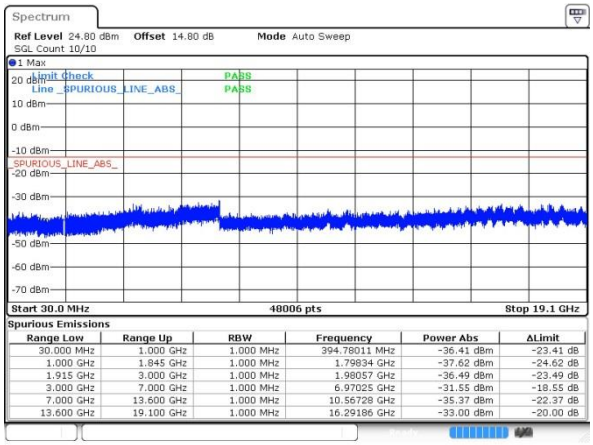
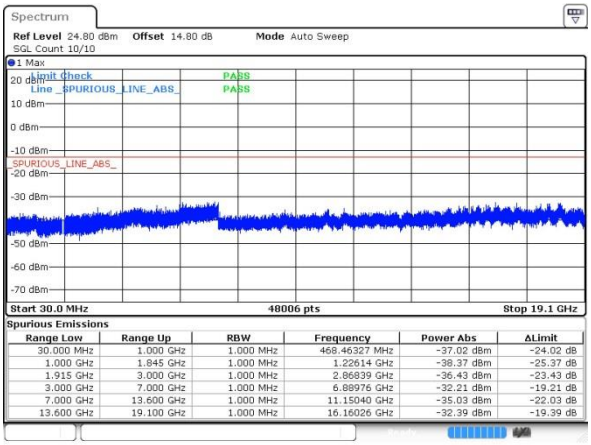
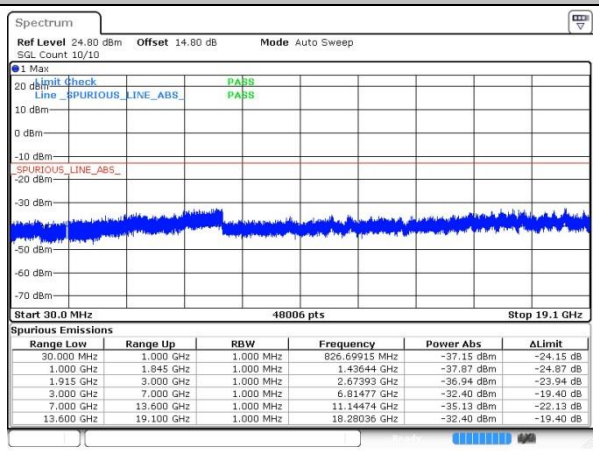
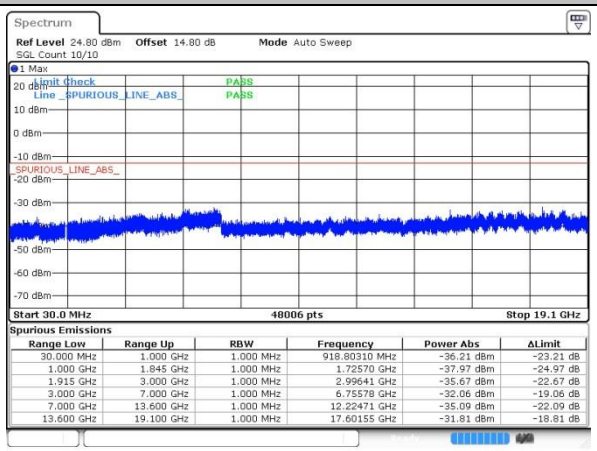
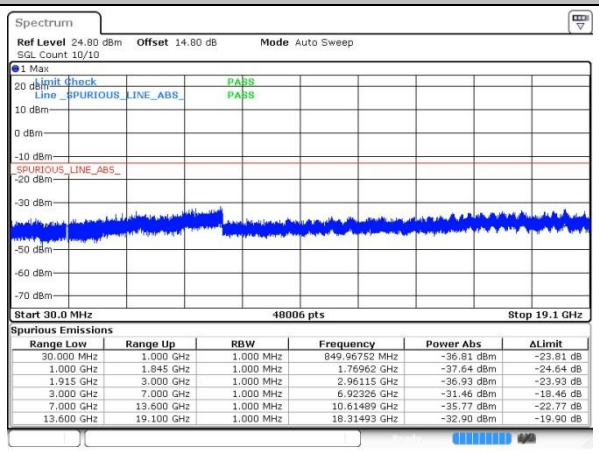
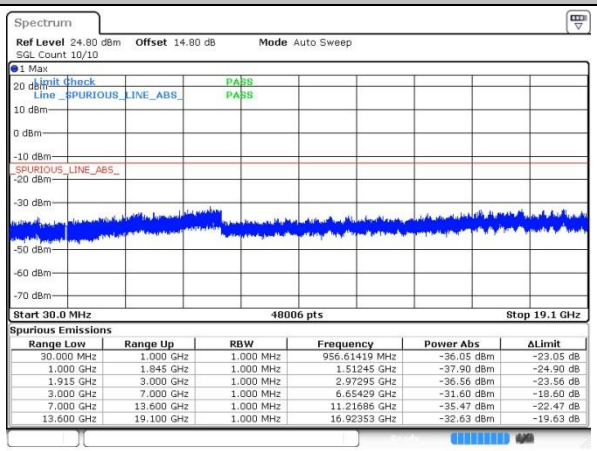


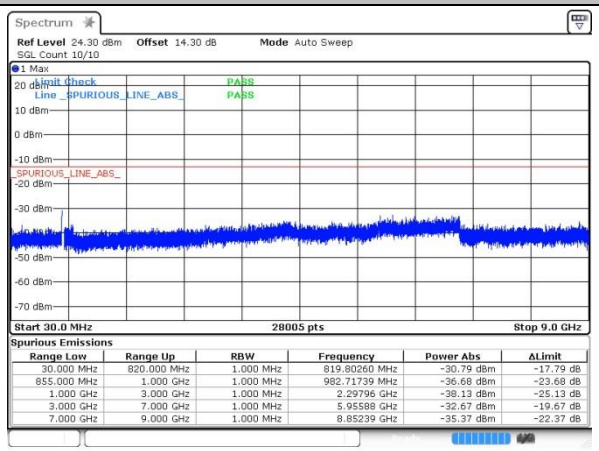
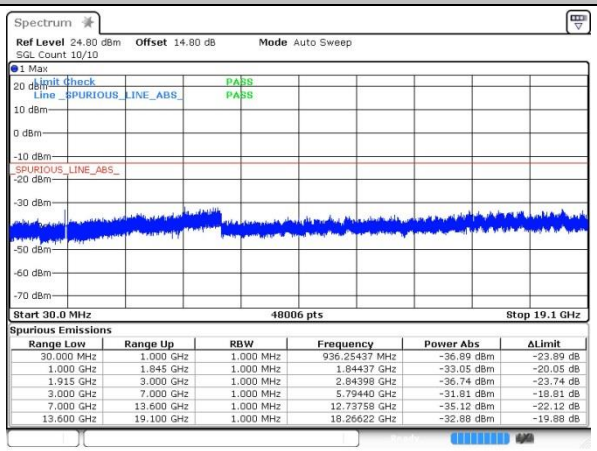
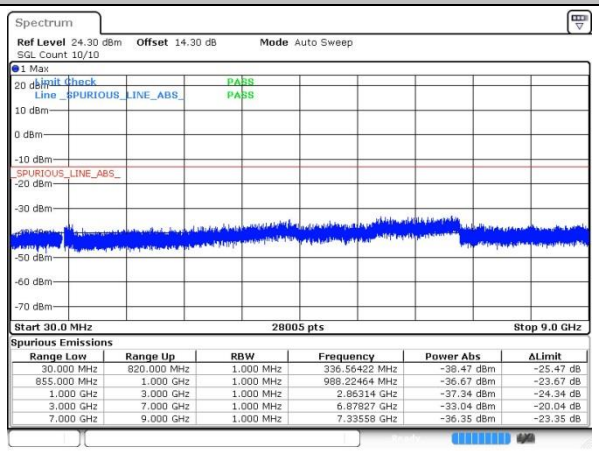
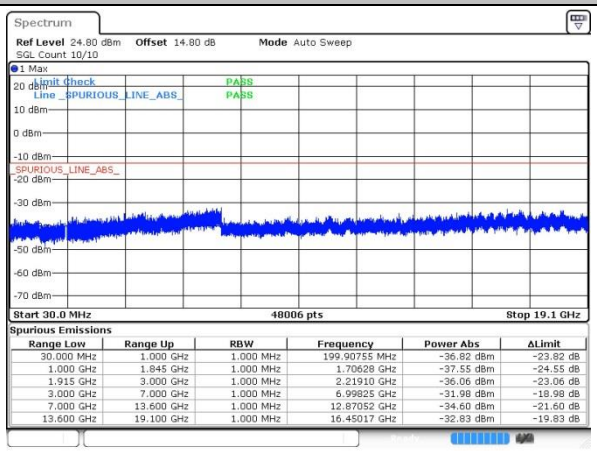
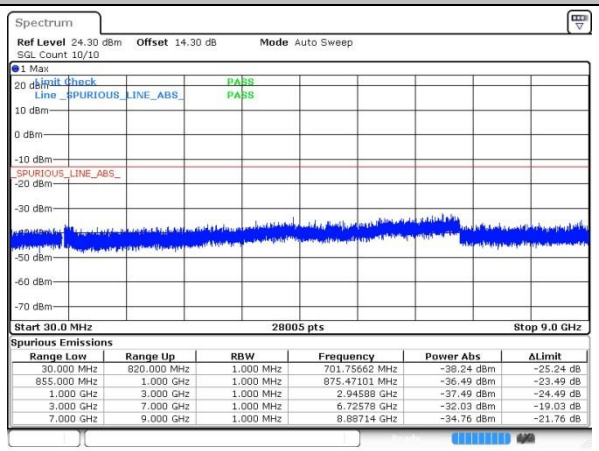
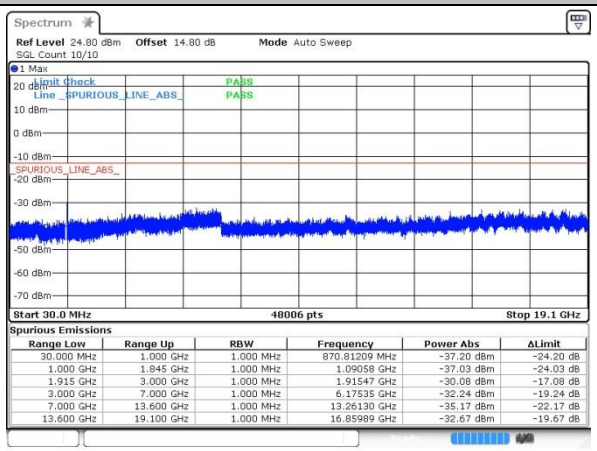
Middle Channel



Highest Channel



GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 394.78011 MHz | -36.41 dBm | -23.41 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.79834 GHz | -37.62 dBm | -24.62 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 1.98057 GHz | -36.49 dBm | -23.49 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.97025 GHz | -31.55 dBm | -18.55 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 10.56728 GHz | -35.37 dBm | -22.37 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 16.29186 GHz | -33.00 dBm | -20.00 dB Date: 28.APR.2018 10:09:20	 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 468.46327 MHz | -37.02 dBm | -24.02 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.22614 GHz | -38.37 dBm | -25.37 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.86839 GHz | -36.43 dBm | -23.43 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.88976 GHz | -32.21 dBm | -19.21 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 11.15040 GHz | -35.03 dBm | -22.03 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 16.16026 GHz | -32.39 dBm | -19.39 dB Date: 28.APR.2018 10:35:00
Middle Channel	**Middle Channel**
 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 826.69915 MHz | -37.15 dBm | -24.15 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.43644 GHz | -37.87 dBm | -24.87 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.67393 GHz | -36.94 dBm | -23.94 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.81477 GHz | -32.40 dBm | -19.40 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 11.14474 GHz | -35.13 dBm | -22.13 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 18.28036 GHz | -32.40 dBm | -19.40 dB Date: 28.APR.2018 10:10:40	 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 918.80310 MHz | -36.21 dBm | -23.21 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.72570 GHz | -37.97 dBm | -24.97 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.99641 GHz | -35.67 dBm | -22.67 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.75578 GHz | -32.06 dBm | -19.06 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 12.22471 GHz | -35.09 dBm | -22.09 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 17.60155 GHz | -31.81 dBm | -18.81 dB Date: 28.APR.2018 10:36:24
Highest Channel	**Highest Channel**
 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 849.96752 MHz | -36.81 dBm | -23.81 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.76962 GHz | -37.64 dBm | -24.64 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.96115 GHz | -36.93 dBm | -23.93 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.92326 GHz | -31.46 dBm | -18.46 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 10.61489 GHz | -35.77 dBm | -22.77 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 18.31493 GHz | -32.90 dBm | -19.90 dB Date: 28.APR.2018 10:12:06	 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 956.61419 MHz | -36.05 dBm | -23.05 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.51245 GHz | -37.90 dBm | -24.90 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.97295 GHz | -36.56 dBm | -23.56 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.65429 GHz | -31.60 dBm | -18.60 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 11.21686 GHz | -35.47 dBm | -22.47 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 16.92353 GHz | -32.63 dBm | -19.63 dB Date: 28.APR.2018 10:38:00

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

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	0.0167	0.0012	PASS
40	Normal Voltage	0.0096	0.0060	
30	Normal Voltage	0.0179	0.0036	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0598	0.0072	
0	Normal Voltage	0.0108	0.0598	
-10	Normal Voltage	0.0526	0.0658	
-20	Normal Voltage	0.0263	0.0072	
-30	Normal Voltage	0.0191	0.0048	
20	Maximum Voltage	0.0550	0.0681	
20	Normal Voltage	0.0634	0.0012	
20	Battery End Point	0.0024	0.0060	

Note: Normal Voltage =3.85V. ；Battery End Point (BEP) =3.6V.；Maximum Voltage =4.4V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0005	0.0622	PASS
40	Normal Voltage	0.0011	0.0670	
30	Normal Voltage	0.0043	0.0644	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0064	0.0628	
0	Normal Voltage	0.0005	0.0638	
-10	Normal Voltage	0.0096	0.0590	
-20	Normal Voltage	0.0122	0.0676	
-30	Normal Voltage	0.0739	0.0005	
20	Maximum Voltage	0.0702	0.0580	
20	Normal Voltage	0.0101	0.0564	
20	Battery End Point	0.0112	0.0005	

Note:

1. Normal Voltage =3.85V. ；Battery End Point (BEP) =3.6V.；Maximum Voltage =4.4V
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	0.0155	PASS
40	Normal Voltage	0.0418	
30	Normal Voltage	0.0395	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0179	
0	Normal Voltage	0.0359	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0203	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0514	
20	Normal Voltage	0.0191	
20	Battery End Point	0.0048	

Note: Normal Voltage =3.85V. ；Battery End Point (BEP) =3.6V.；Maximum Voltage =4.4V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0112	PASS
40	Normal Voltage	0.0101	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0080	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0080	
20	Battery End Point	0.0096	

Note:

1. Normal Voltage = 3.85V. ；Battery End Point (BEP) =3.6V.；Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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)
Middle	1672.8	-69.01	-13	-56.01	-74.57	-73.42	2.84	9.40	H
	2509.2	-54.49	-13	-41.49	-64.91	-59.24	3.70	10.60	H
	3345.6	-66.90	-13	-53.90	-81.66	-72.98	4.37	12.60	H
	1672.8	-70.63	-13	-57.63	-75.34	-75.04	2.84	9.40	V
	2509.2	-56.65	-13	-43.65	-66.48	-61.40	3.70	10.60	V
	3345.6	-68.28	-13	-55.28	-81.85	-74.36	4.37	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	-65.35	-13	-52.35	-70.91	-69.76	2.84	9.40	H
	2509.2	-54.56	-13	-41.56	-64.98	-59.31	3.7	10.60	H
	3345.6	-67.00	-13	-54.00	-81.76	-73.08	4.37	12.60	H
	1672.8	-69.45	-13	-56.45	-74.16	-73.86	2.84	9.40	V
	2509.2	-55.93	-13	-42.93	-65.76	-60.68	3.70	10.60	V
	4182	-68.26	-13	-55.26	-81.83	-73.88	4.85	12.62	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	-54.29	-13	-41.29	-79.93	-62.04	4.85	12.60	H
	5640	-57.38	-13	-44.38	-80.83	-64.90	5.58	13.10	H
	7520	-58.48	-13	-45.48	-82.00	-63.22	6.56	11.30	H
	3760	-59.47	-13	-46.47	-79.86	-67.22	4.85	12.60	V
	5640	-56.06	-13	-43.06	-80.11	-63.58	5.58	13.10	V
	7520	-58.92	-13	-45.92	-82.46	-63.66	6.56	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	-60.68	-13	-47.68	-80.29	-68.43	4.85	12.60	H
	5640	-58.18	-13	-45.18	-81.63	-65.70	5.58	13.10	H
	7520	-58.87	-13	-45.87	-82.39	-63.61	6.56	11.30	H
	3760	-59.81	-13	-46.81	-80.2	-67.56	4.85	12.60	V
	5640	-57.42	-13	-44.42	-81.47	-64.94	5.58	13.10	V
	7520	-58.83	-13	-45.83	-82.37	-63.57	6.56	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	-67.61	-13	-54.61	-73.17	-72.02	2.84	9.40	H
	2509.2	-63.59	-13	-50.59	-74.01	-68.34	3.7	10.60	H
	3345.6	-66.74	-13	-53.74	-81.50	-72.82	4.37	12.60	H
	1672.8	-72.17	-13	-59.17	-76.88	-76.58	2.84	9.40	V
	2509.2	-67.08	-13	-54.08	-76.91	-71.83	3.70	10.60	V
	3345.6	-67.95	-13	-54.95	-81.52	-74.03	4.37	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	-60.34	-13	-47.34	-79.95	-68.09	4.85	12.60	H
	5640	-57.24	-13	-44.24	-80.69	-64.76	5.58	13.10	H
	7520	-58.73	-13	-45.73	-82.25	-63.47	6.56	11.30	H
	3760	-59.10	-13	-46.10	-79.49	-66.85	4.85	12.60	V
	5640	-57.09	-13	-44.09	-81.14	-64.61	5.58	13.10	V
	7520	-58.40	-13	-45.40	-81.94	-63.14	6.56	11.30	V

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