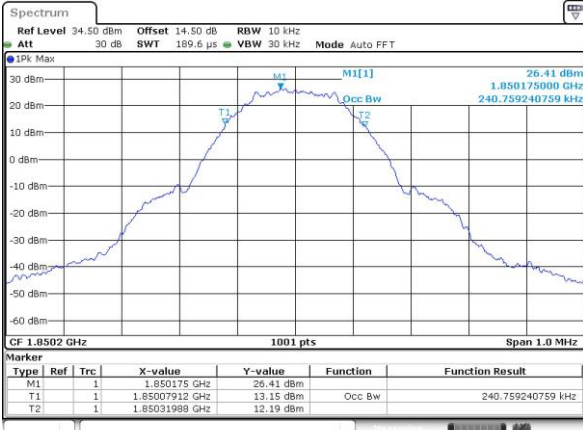




GSM1900 (GSM)

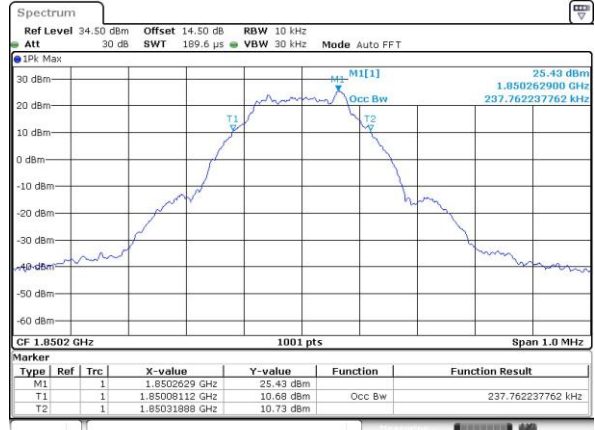
Lowest Channel



Date: 30 JUN 2020 20:59:00

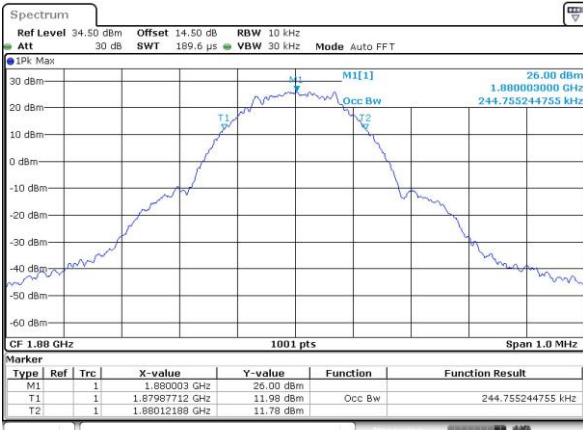
GSM1900 (EDGE class 8)

Lowest Channel



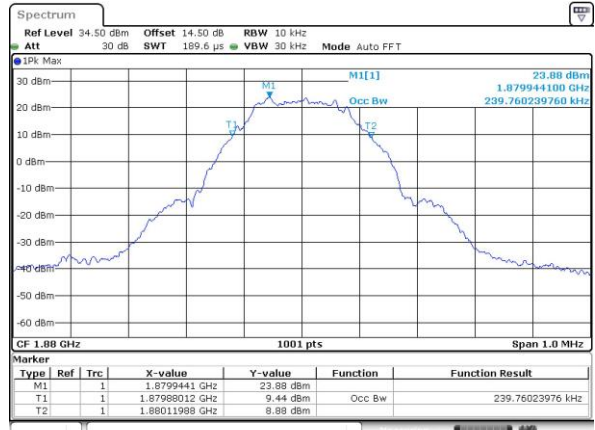
Date: 30 JUN 2020 21:46:04

Middle Channel



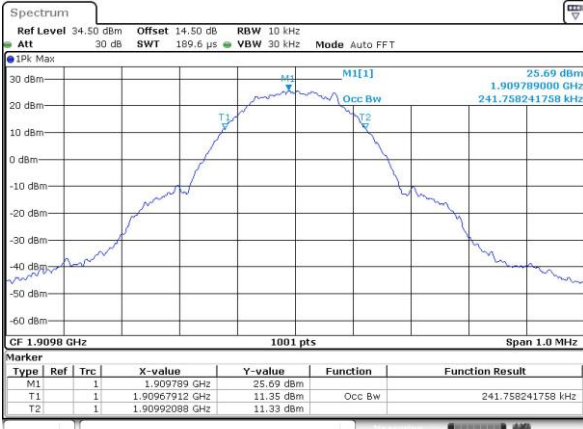
Date: 30 JUN 2020 20:59:21

Middle Channel



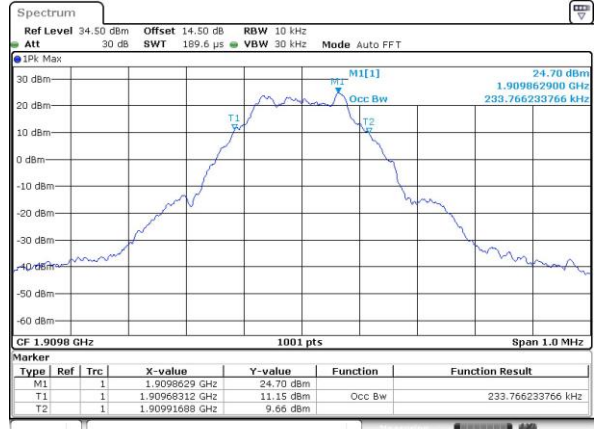
Date: 30 JUN 2020 21:46:45

Highest Channel



Date: 30 JUN 2020 20:59:44

Highest Channel

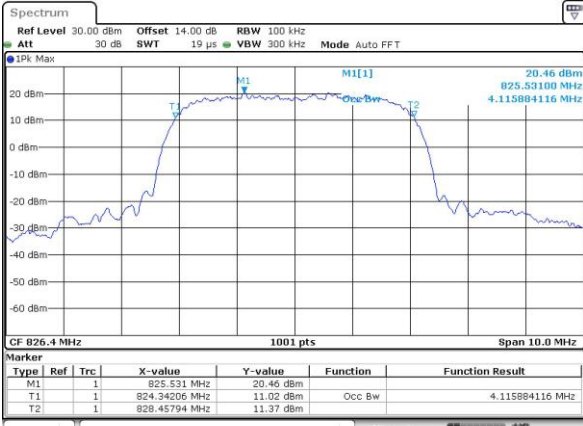


Date: 30 JUN 2020 21:47:27



WCDMA Band V (RMC 12.2Kbps)

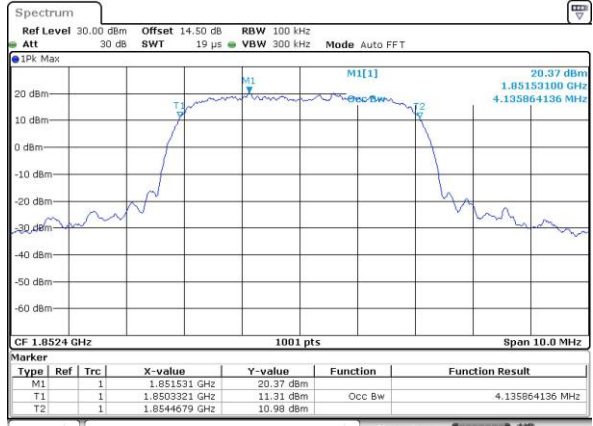
Lowest Channel



Date: 29 JUN 2020 19:13:58

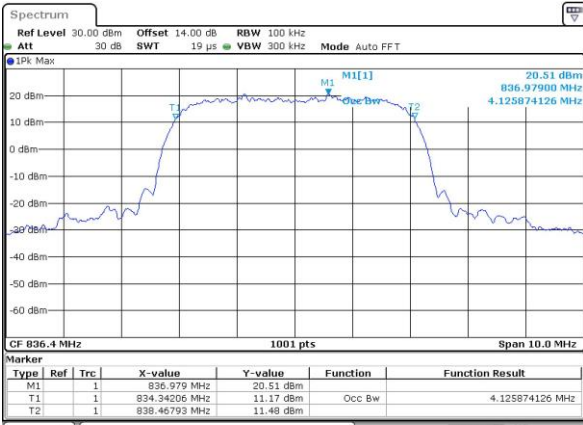
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



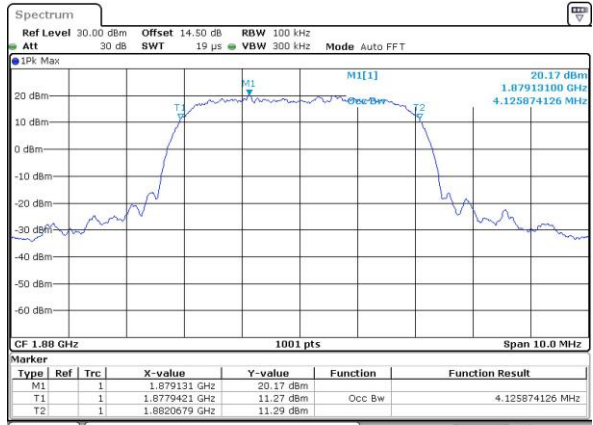
Date: 29 JUN 2020 19:28:06

Middle Channel



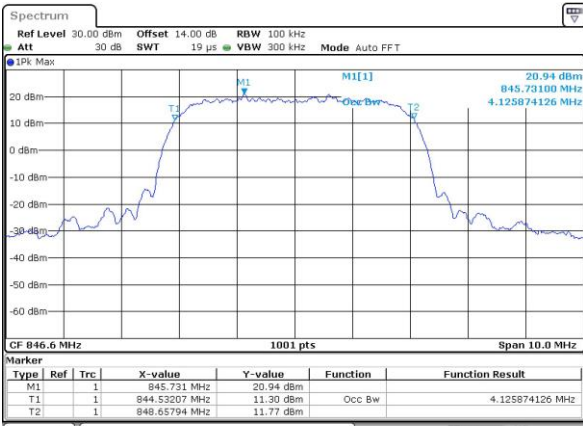
Date: 29 JUN 2020 19:14:37

Middle Channel



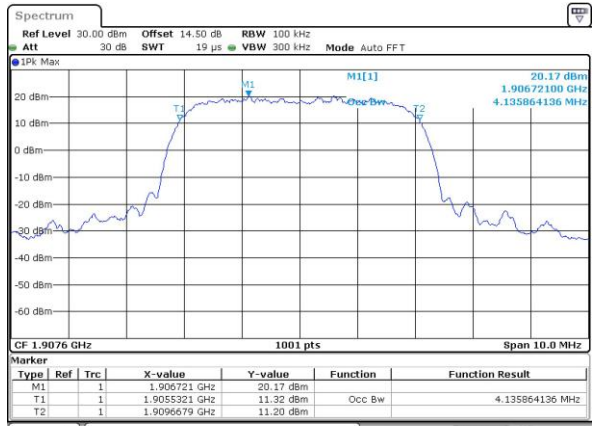
Date: 29 JUN 2020 19:28:28

Highest Channel

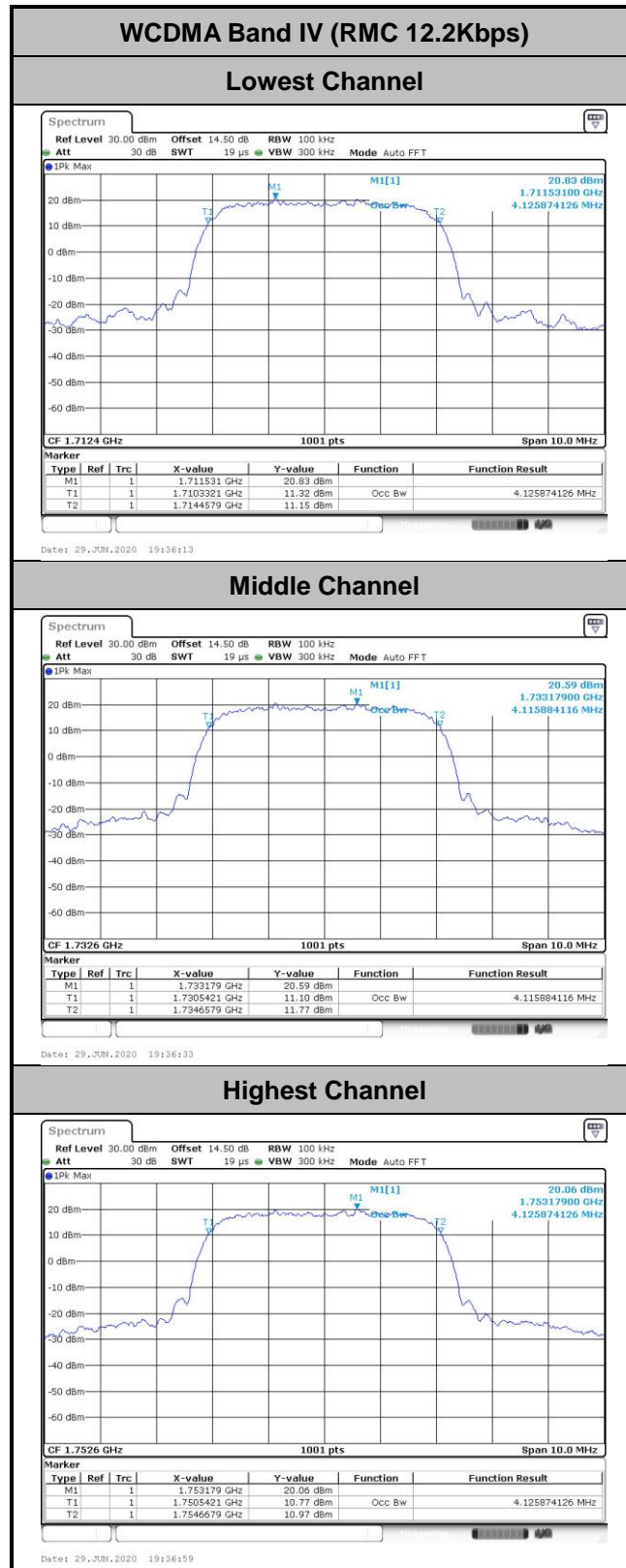


Date: 29 JUN 2020 19:15:00

Highest Channel

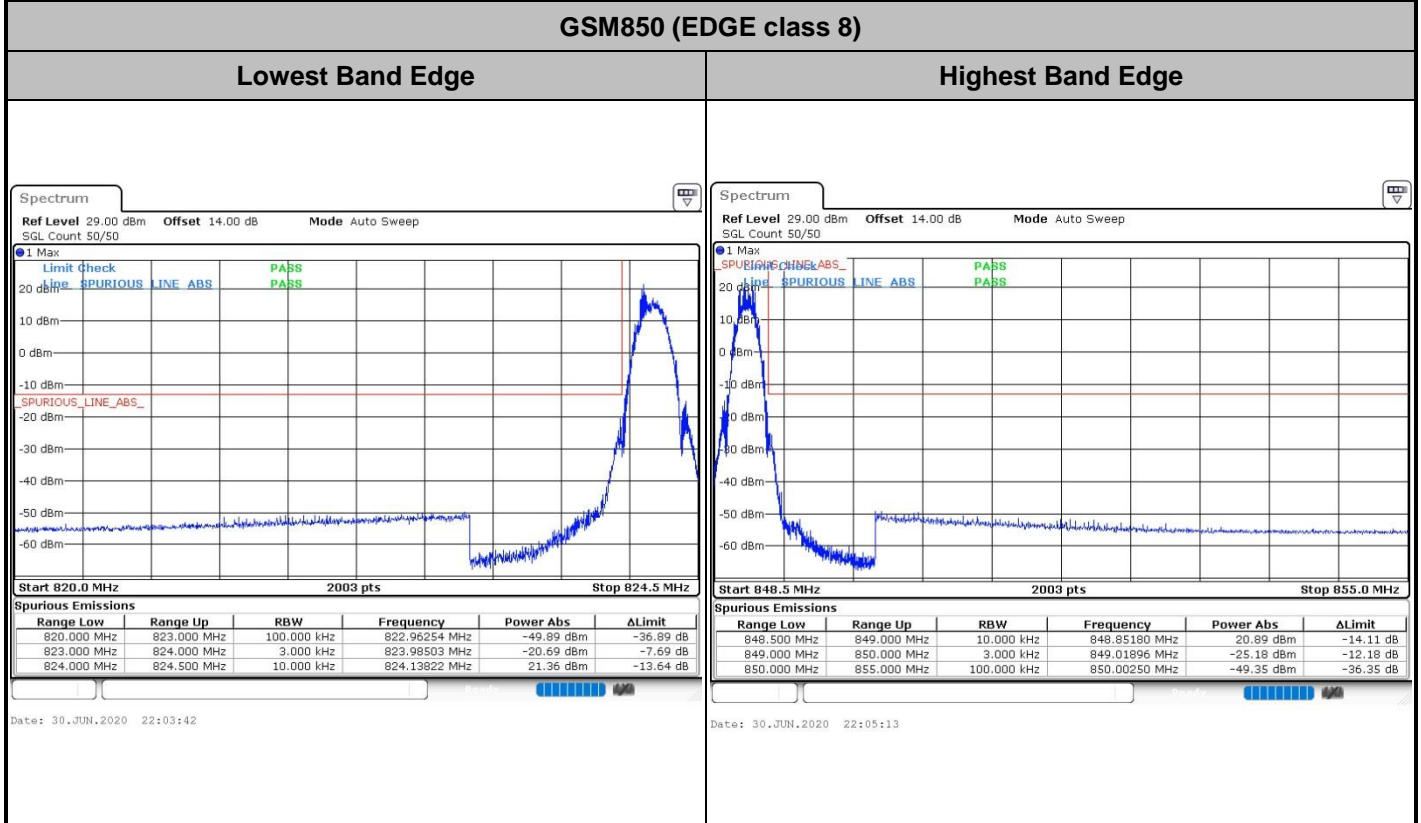
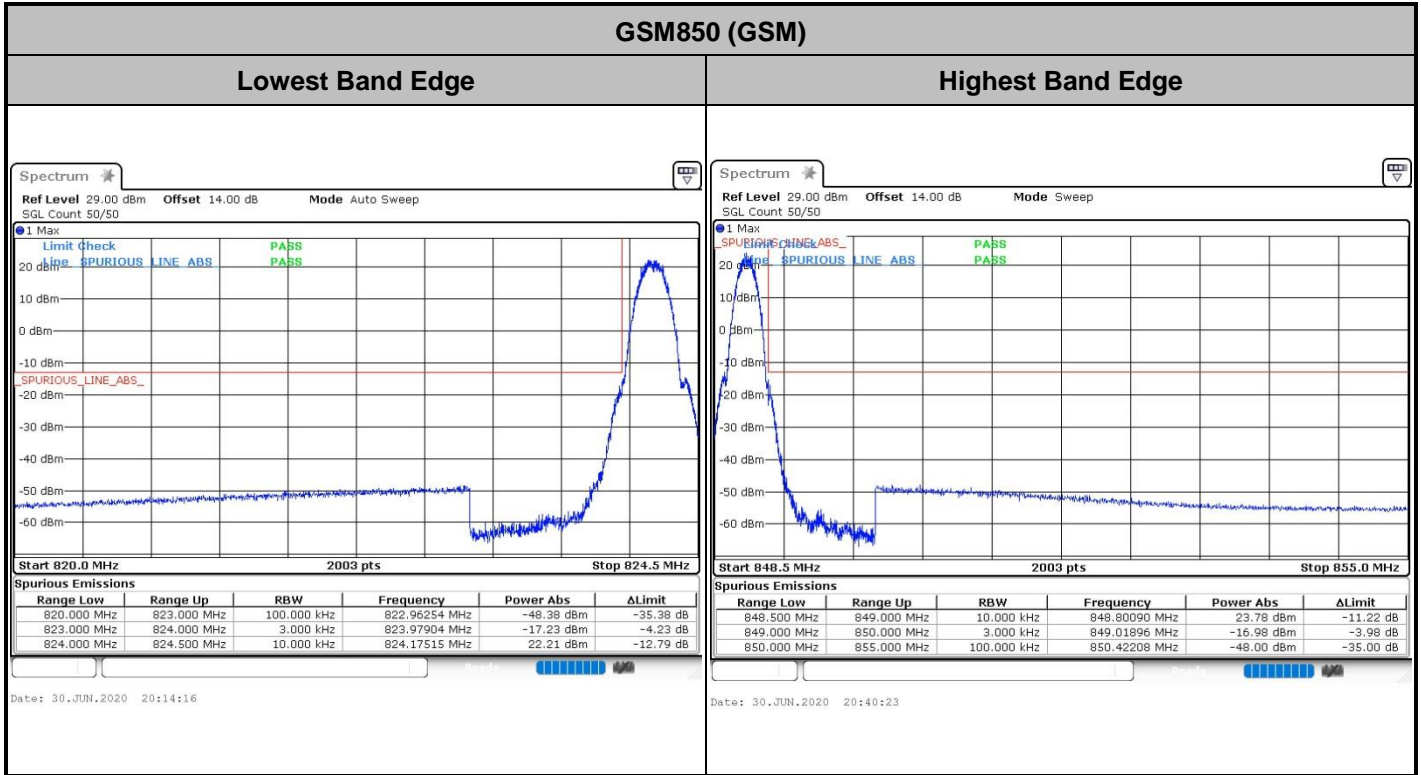


Date: 29 JUN 2020 19:28:55





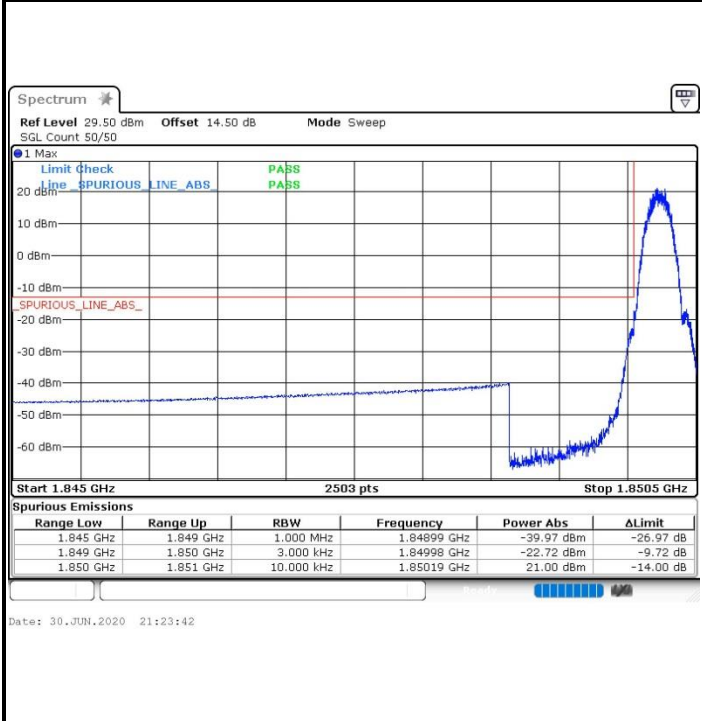
Conducted Band Edge



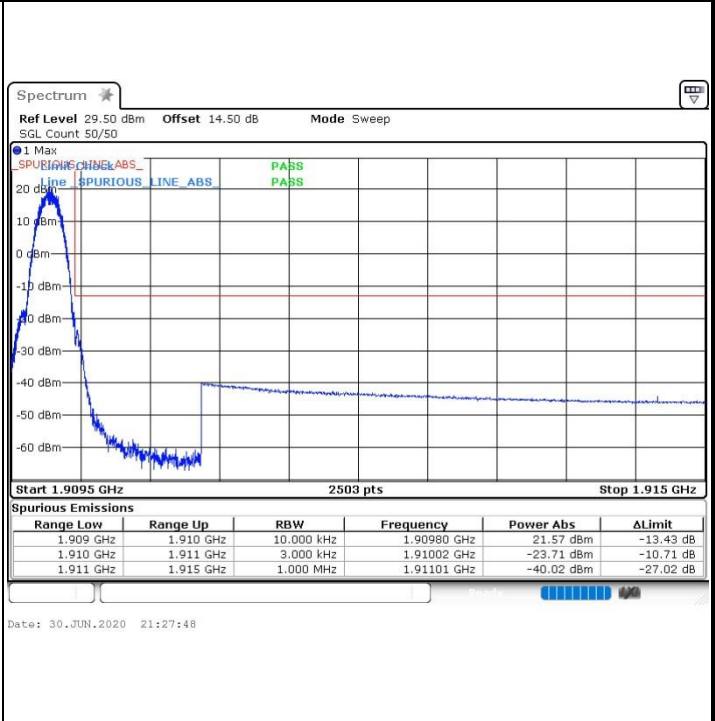


GSM1900 (GSM)

Lowest Band Edge

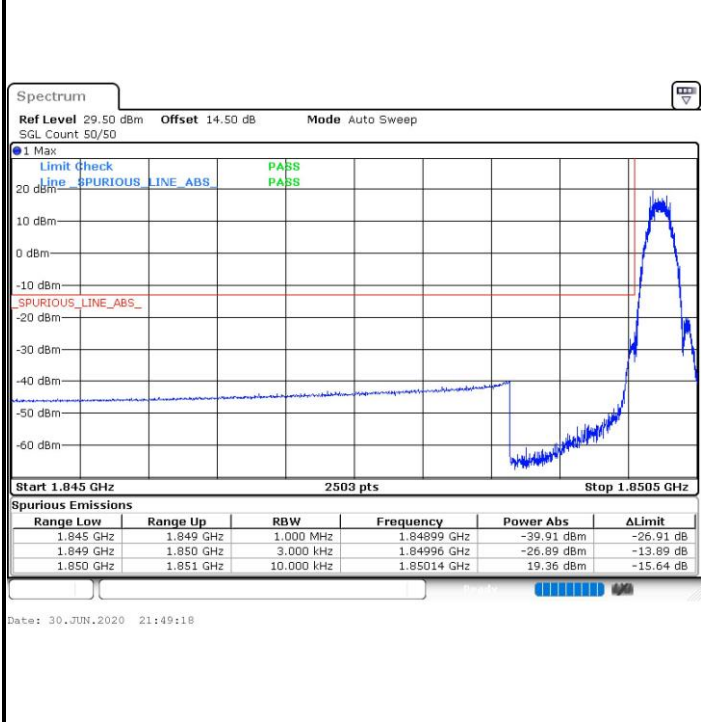


Highest Band Edge

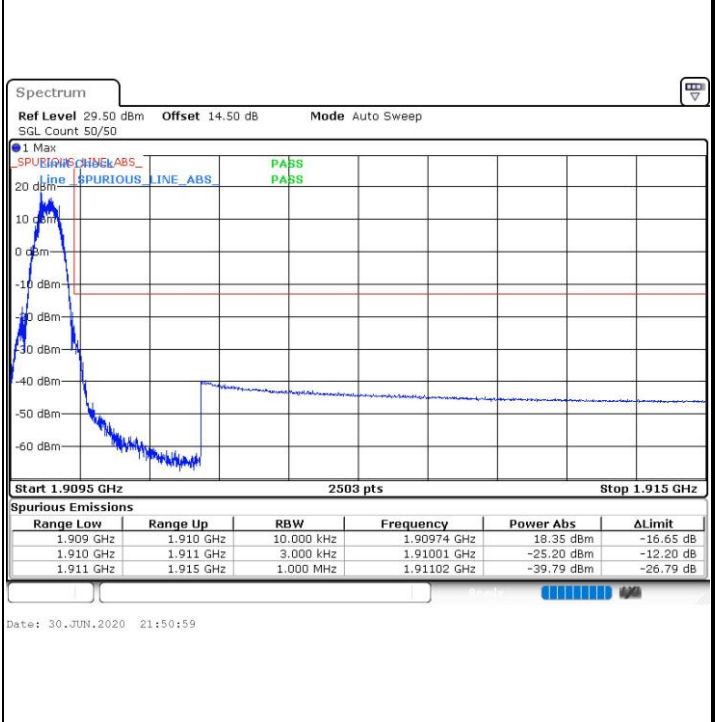


GSM1900 (EDGE class 8)

Lowest Band Edge



Highest Band Edge

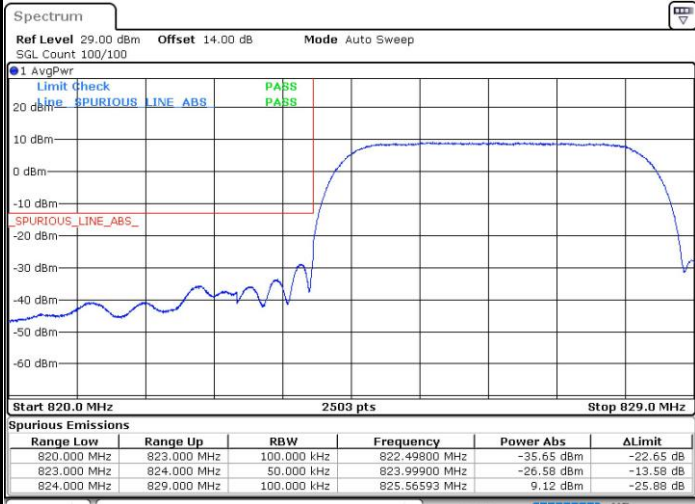




WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



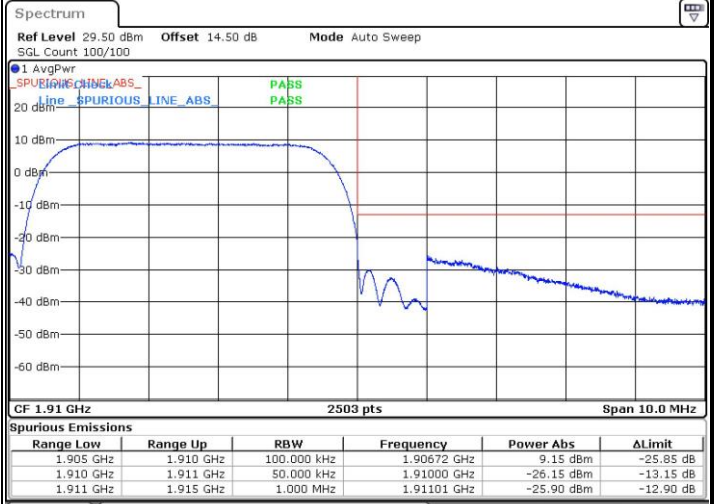
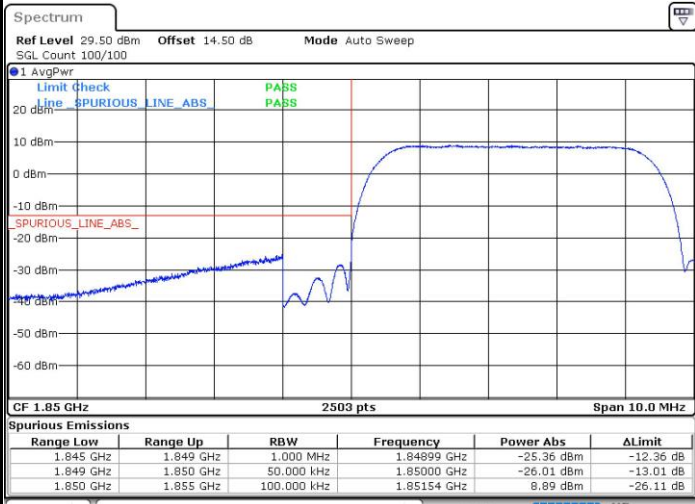
Date: 29 JUN 2020 19:16:57

Date: 29 JUN 2020 19:19:04

WCDMA Band II (RMC 12.2Kbps)

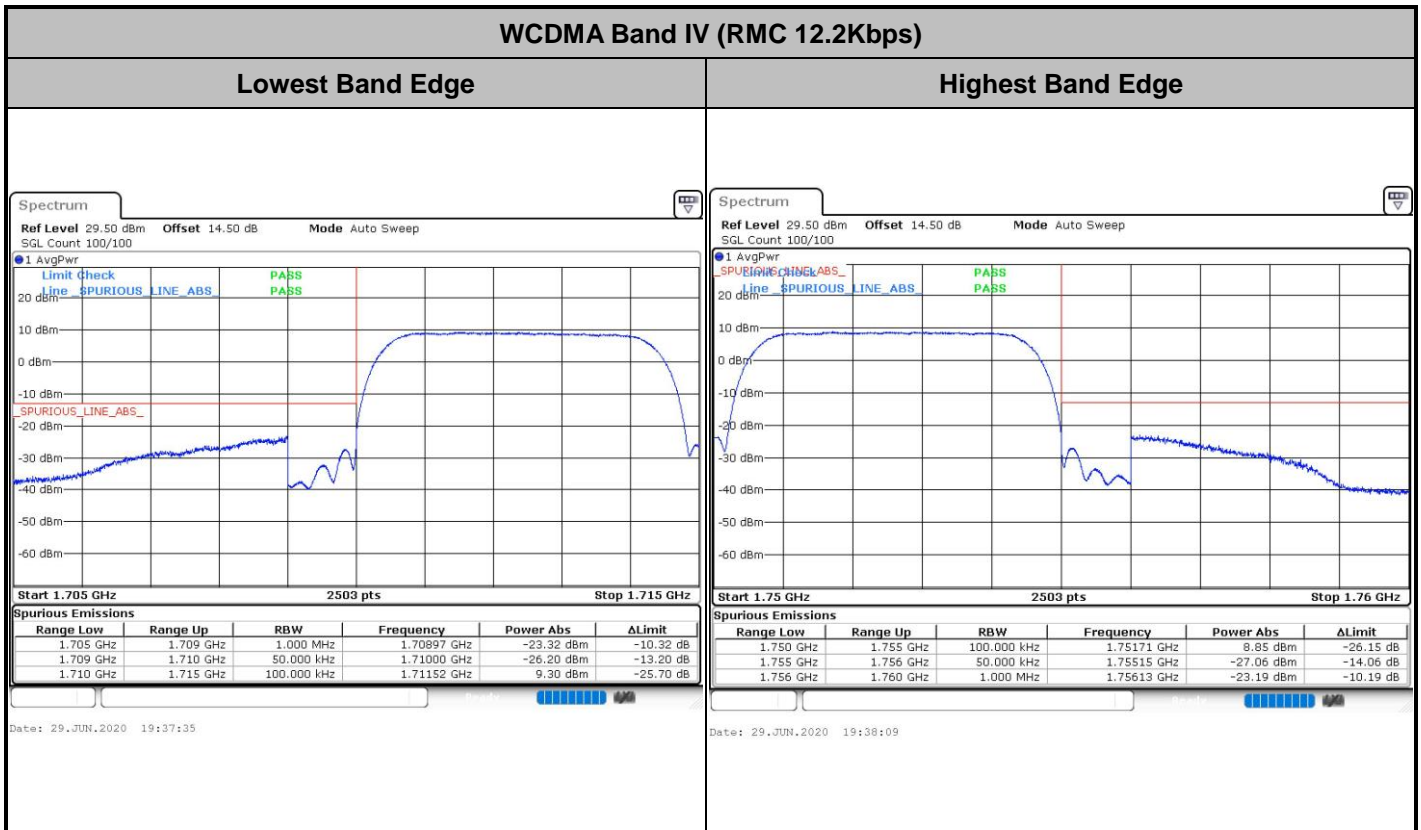
Lowest Band Edge

Highest Band Edge



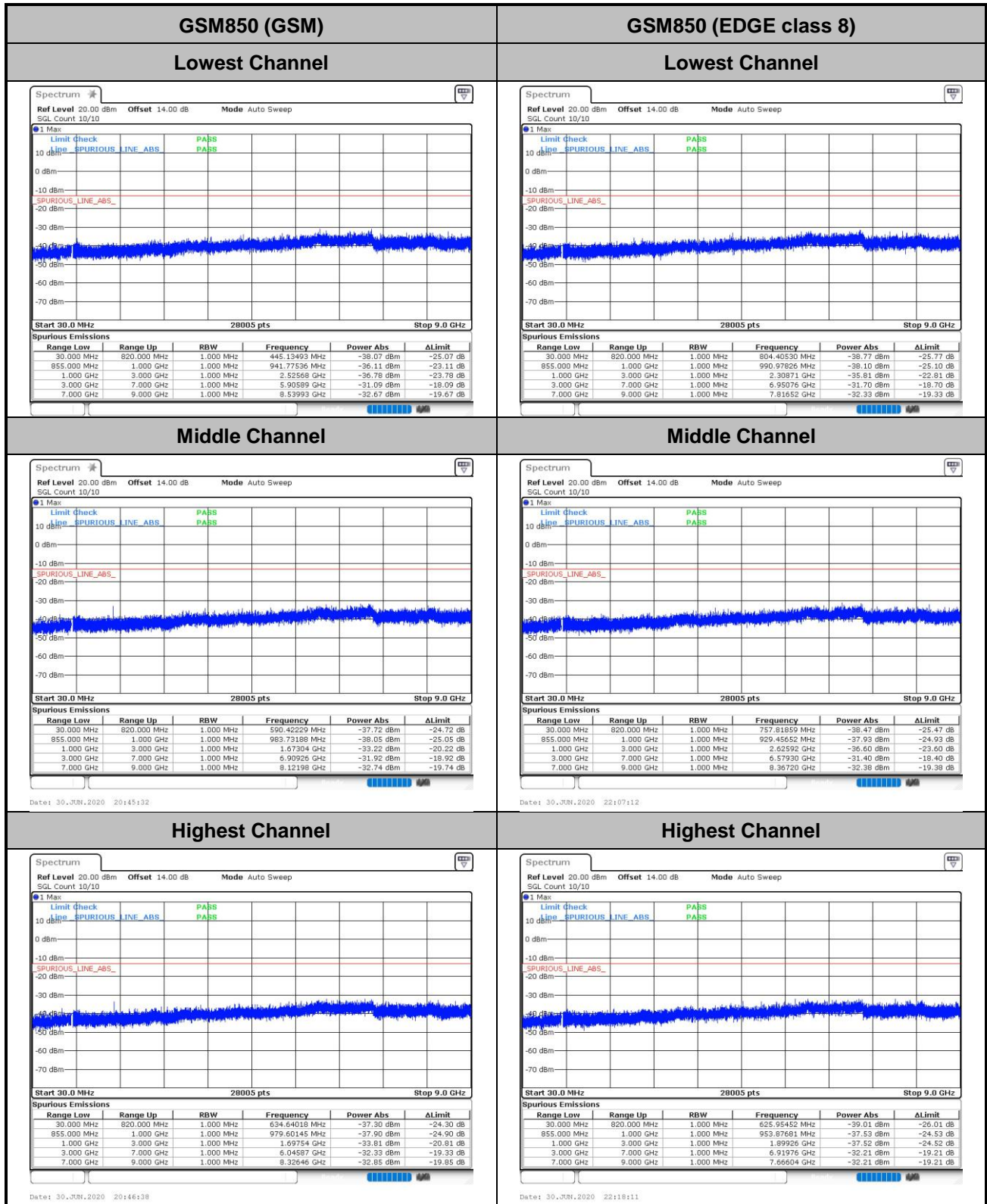
Date: 29 JUN 2020 19:30:39

Date: 29 JUN 2020 19:31:40





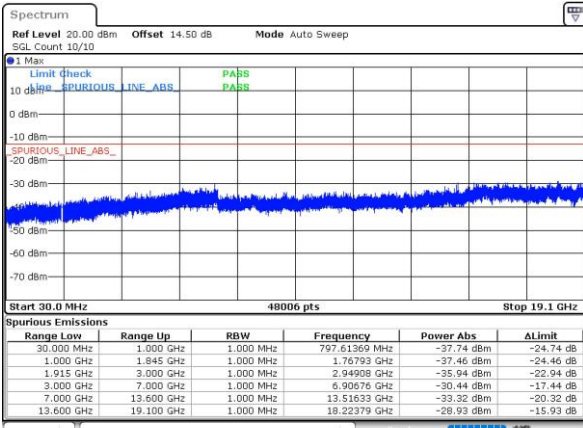
Conducted Spurious Emission





GSM1900 (GSM)

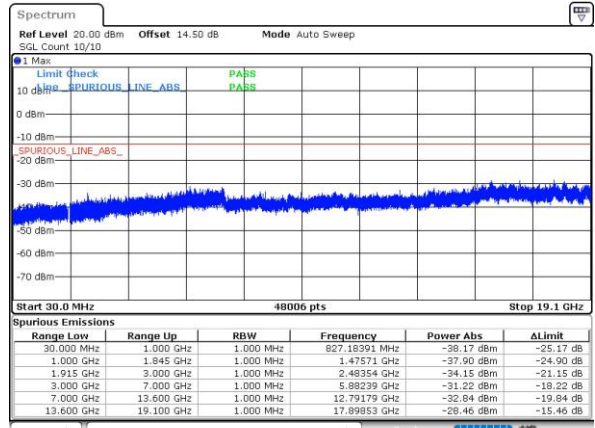
Lowest Channel



Date: 30 JUN 2020 21:28:49

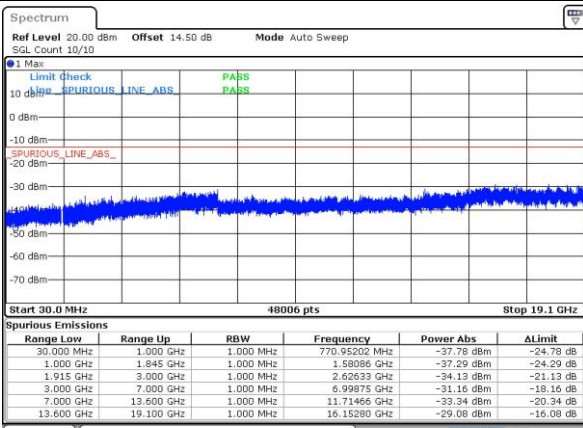
GSM1900 (EDGE class 8)

Lowest Channel



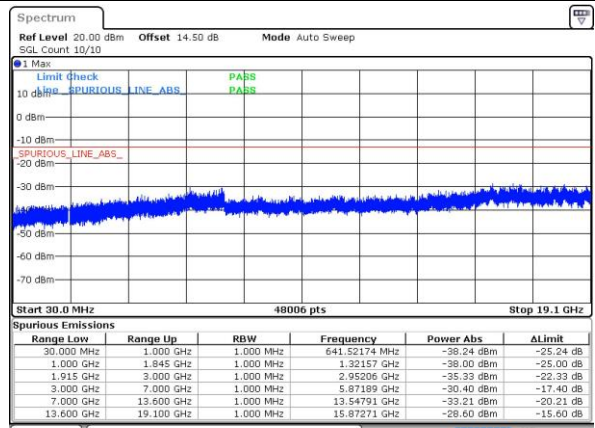
Date: 30 JUN 2020 21:51:30

Middle Channel



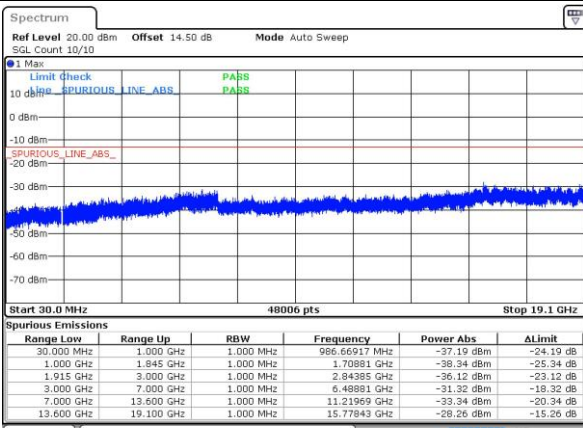
Date: 30 JUN 2020 21:29:16

Middle Channel



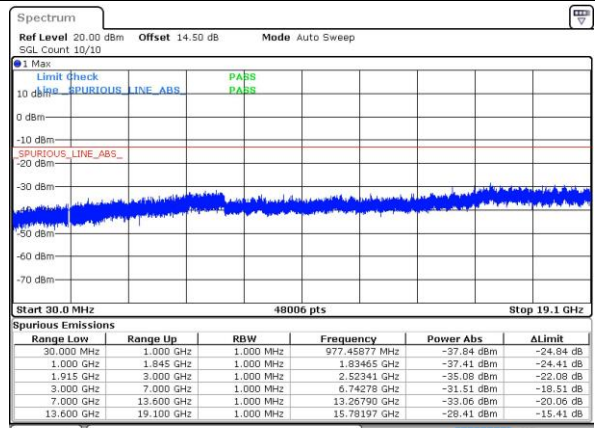
Date: 30 JUN 2020 21:51:54

Highest Channel



Date: 30 JUN 2020 21:29:43

Highest Channel

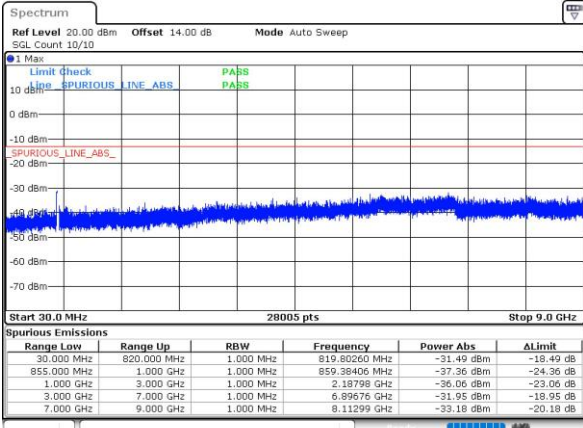


Date: 30 JUN 2020 21:52:22



WCDMA Band V (RMC 12.2Kbps)

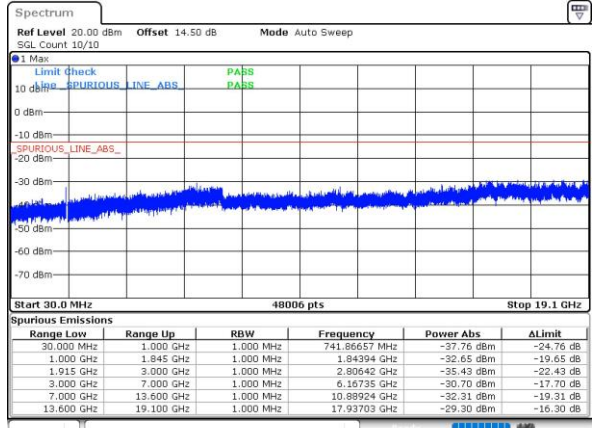
Lowest Channel



Date: 29_JUN.2020 19:20:55

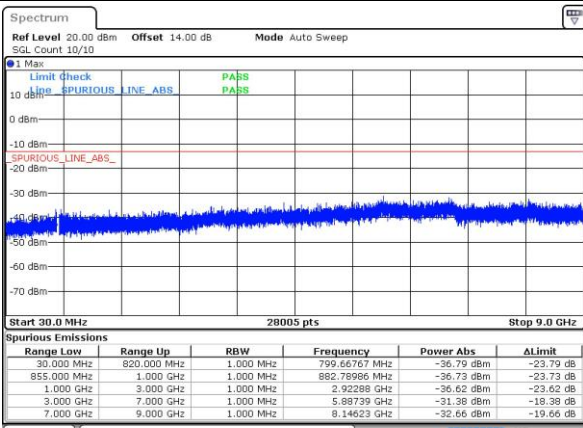
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



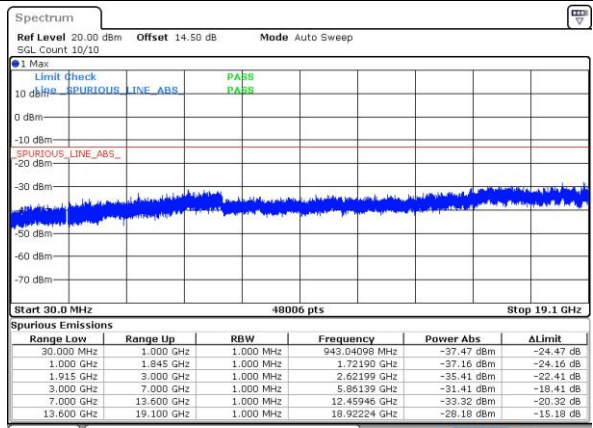
Date: 29_JUN.2020 19:32:11

Middle Channel



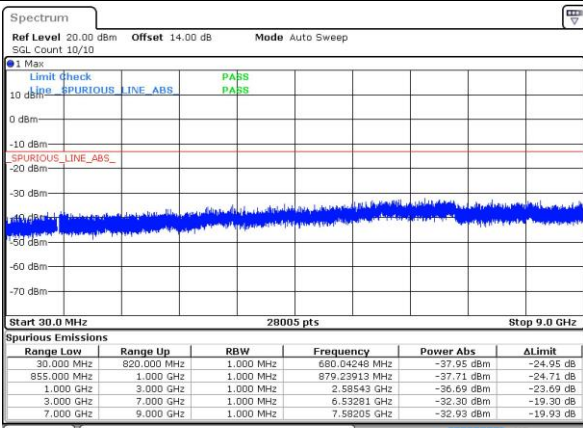
Date: 29_JUN.2020 19:22:55

Middle Channel



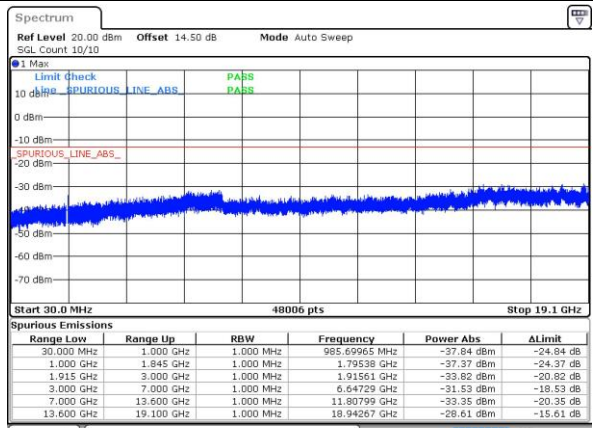
Date: 29_JUN.2020 19:32:30

Highest Channel

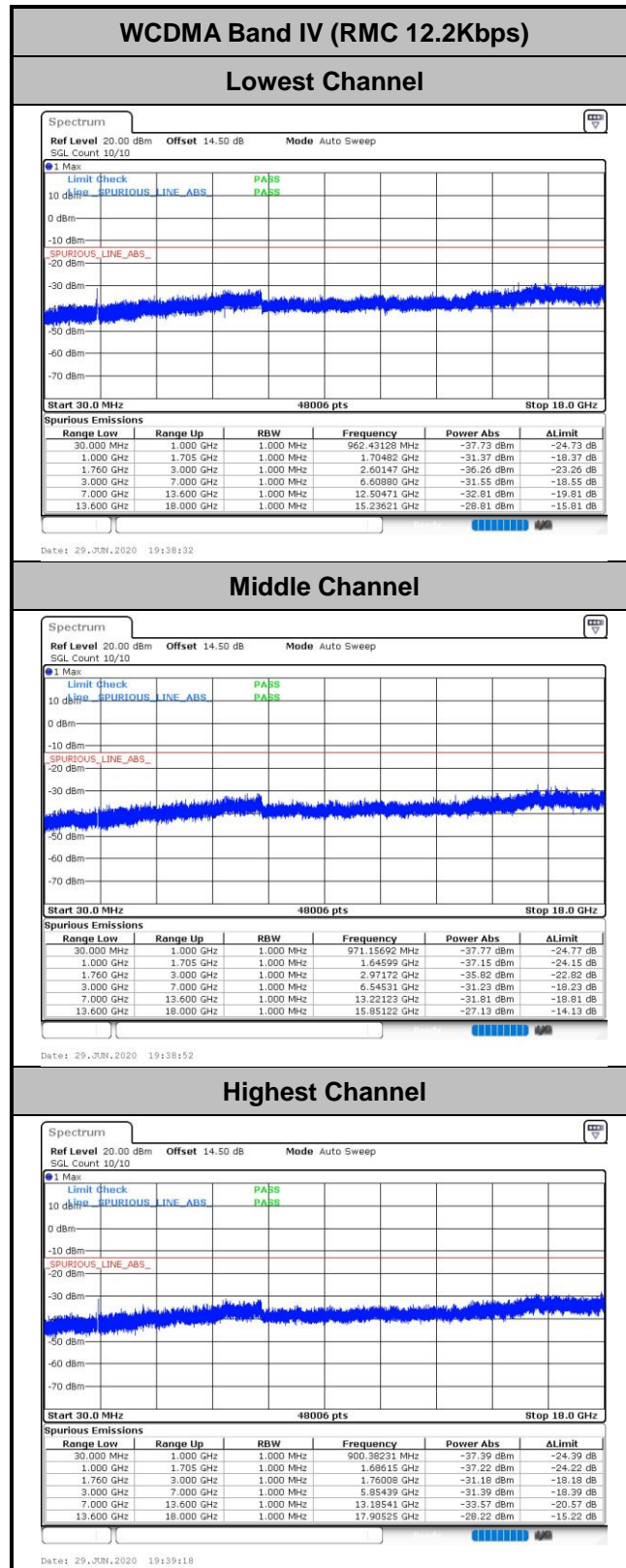


Date: 29_JUN.2020 19:24:38

Highest Channel



Date: 29_JUN.2020 19:32:50





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	0.0002	0.0006	PASS
40	Normal Voltage	0.0006	0.0001	
30	Normal Voltage	0.0013	0.0011	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0006	0.0010	
0	Normal Voltage	0.0002	0.0002	
-10	Normal Voltage	0.0001	0.0010	
-20	Normal Voltage	0.0008	0.0001	
-30	Normal Voltage	0.0018	0.0019	
20	Maximum Voltage	0.0007	0.0005	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0014	0.0004	

Note: Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage =4.45 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0010	0.0002	PASS
40	Normal Voltage	0.0011	0.0001	
30	Normal Voltage	0.0005	0.0003	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0007	0.0004	
0	Normal Voltage	0.0001	0.0005	
-10	Normal Voltage	0.0010	0.0001	
-20	Normal Voltage	0.0007	0.0002	
-30	Normal Voltage	0.0013	0.0001	
20	Maximum Voltage	0.0001	0.0004	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0003	0.0003	

Note:

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage =4.45 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 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note: Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage =4.45 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	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage =4.45 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 IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage =4.45 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

Top Antenna

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	-64.90	-13	-51.90	-75.84	-68.15	4.00	9.40	H
	2509.2	-58.63	-13	-45.63	-77.23	-62.20	4.88	10.60	H
	3345.6	-59.34	-13	-46.34	-79.95	-64.27	5.52	12.60	H
	1672.8	-64.29	-13	-51.29	-75.94	-67.54	4.00	9.40	V
	2509.2	-59.35	-13	-46.35	-78.16	-62.92	4.88	10.60	V
	3345.6	-58.45	-13	-45.45	-79.36	-63.38	5.52	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	-65.67	-13	-52.67	-76.61	-68.92	4.00	9.40	H
	2509.2	-56.88	-13	-43.88	-75.48	-60.45	4.88	10.60	H
	3345.6	-59.77	-13	-46.77	-80.38	-64.70	5.52	12.60	H
	1672.8	-64.93	-13	-51.93	-76.58	-68.18	4.00	9.40	V
	2509.2	-58.18	-13	-45.18	-76.99	-61.75	4.88	10.60	V
	3345.6	-59.21	-13	-46.21	-80.12	-64.14	5.52	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	-55.34	-13	-42.34	-73.19	-62.09	5.85	12.60	H
	5640	-51.40	-13	-38.40	-72.86	-57.20	7.30	13.10	H
	7520	-54.54	-13	-41.54	-79.83	-57.69	8.35	11.50	H
	3760	-57.78	-13	-44.78	-74.86	-64.53	5.85	12.60	V
	5640	-51.72	-13	-38.72	-72.12	-57.52	7.30	13.10	V
	7520	-55.33	-13	-42.33	-80.04	-58.48	8.35	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-56.10	-13	-43.10	-73.95	-62.85	5.85	12.60	H
	5640	-52.16	-13	-39.16	-73.62	-57.96	7.30	13.10	H
	7520	-54.72	-13	-41.72	-80.01	-57.87	8.35	11.50	H
	3760	-58.50	-13	-45.50	-75.58	-65.25	5.85	12.60	V
	5640	-52.69	-13	-39.69	-73.09	-58.49	7.30	13.10	V
	7520	-55.44	-13	-42.44	-80.15	-58.59	8.35	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-65.31	-13	-52.31	-76.25	-68.56	4.00	9.40	H
	2509.2	-60.00	-13	-47.00	-78.60	-63.57	4.88	10.60	H
	3345.6	-59.00	-13	-46.00	-79.61	-63.93	5.52	12.60	H
	1672.8	-64.90	-13	-51.90	-76.55	-68.15	4.00	9.40	V
	2509.2	-60.01	-13	-47.01	-78.82	-63.58	4.88	10.60	V
	3345.6	-59.26	-13	-46.26	-80.17	-64.19	5.52	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	-58.12	-13	-45.12	-75.97	-64.87	5.85	12.60	H
	5640	-58.11	-13	-45.11	-79.57	-63.91	7.30	13.10	H
	7520	-54.72	-13	-41.72	-80.01	-57.87	8.35	11.50	H
	3760	-60.37	-13	-47.37	-77.45	-67.12	5.85	12.60	V
	5640	-59.26	-13	-46.26	-79.66	-65.06	7.30	13.10	V
	7520	-55.33	-13	-42.33	-80.04	-58.48	8.35	11.50	V

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



WCDMA Band IV(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	3465.2	-61.34	-13	-48.34	-76.86	-68.19	5.65	12.50	H
	5197.8	-55.63	-13	-42.63	-77.45	-61.30	7.13	12.80	H
	6930.4	-56.81	-13	-43.81	-80.48	-60.21	8.40	11.80	H
	3465.2	-61.90	-13	-48.90	-76.93	-68.75	5.65	12.50	V
	5197.8	-59.42	-13	-46.42	-80.17	-65.09	7.13	12.80	V
	6930.4	-57.13	-13	-44.13	-80.42	-60.53	8.40	11.80	V

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

Bottom Antenna

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	-61.61	-13	-48.61	-72.55	-64.86	4.00	9.40	H
	2509.2	-59.78	-13	-46.78	-78.38	-63.35	4.88	10.60	H
	3345.6	-59.26	-13	-46.26	-79.87	-64.19	5.52	12.60	H
	1672.8	-52.41	-13	-39.41	-64.06	-55.66	4.00	9.40	V
	2509.2	-59.33	-13	-46.33	-78.14	-62.90	4.88	10.60	V
	3345.6	-58.80	-13	-45.80	-79.71	-63.73	5.52	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	-54.31	-13	-41.31	-65.25	-57.56	4.00	9.40	H
	2509.2	-59.38	-13	-46.38	-77.98	-62.95	4.88	10.60	H
	3345.6	-58.46	-13	-45.46	-79.07	-63.39	5.52	12.60	H
	1672.8	-54.49	-13	-41.49	-66.14	-57.74	4.00	9.40	V
	2509.2	-59.44	-13	-46.44	-78.25	-63.01	4.88	10.60	V
	3345.6	-58.76	-13	-45.76	-79.67	-63.69	5.52	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	-57.69	-13	-44.69	-75.54	-64.44	5.85	12.60	H
	5640	-42.71	-13	-29.71	-64.17	-48.51	7.30	13.10	H
	7520	-54.58	-13	-41.58	-79.87	-57.73	8.35	11.50	H
	3760	-58.73	-13	-45.73	-75.81	-65.48	5.85	12.60	V
	5640	-45.14	-13	-32.14	-65.54	-50.94	7.30	13.10	V
	7520	-55.03	-13	-42.03	-79.74	-58.18	8.35	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-57.40	-13	-44.40	-75.25	-64.15	5.85	12.60	H
	5640	-43.31	-13	-30.31	-64.77	-49.11	7.30	13.10	H
	7520	-54.53	-13	-41.53	-79.82	-57.68	8.35	11.50	H
	3760	-59.19	-13	-46.19	-76.27	-65.94	5.85	12.60	V
	5640	-44.95	-13	-31.95	-65.35	-50.75	7.30	13.10	V
	7520	-55.46	-13	-42.46	-80.17	-58.61	8.35	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-65.29	-13	-52.29	-76.23	-68.54	4.00	9.40	H
	2509.2	-59.84	-13	-46.84	-78.44	-63.41	4.88	10.60	H
	3345.6	-59.15	-13	-46.15	-79.76	-64.08	5.52	12.60	H
	1672.8	-64.55	-13	-51.55	-76.20	-67.80	4.00	9.40	V
	2509.2	-59.42	-13	-46.42	-78.23	-62.99	4.88	10.60	V
	3345.6	-58.91	-13	-45.91	-79.82	-63.84	5.52	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	-59.78	-13	-46.78	-77.63	-66.53	5.85	12.60	H
	5640	-58.42	-13	-45.42	-79.88	-64.22	7.30	13.10	H
	7520	-54.74	-13	-41.74	-80.03	-57.89	8.35	11.50	H
	3760	-60.49	-13	-47.49	-77.57	-67.24	5.85	12.60	V
	5640	-58.94	-13	-45.94	-79.34	-64.74	7.30	13.10	V
	7520	-55.29	-13	-42.29	-80	-58.44	8.35	11.50	V

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

WCDMA Band IV(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	3465.2	-61.47	-13	-48.47	-76.99	-68.32	5.65	12.50	H
	5197.8	-56.47	-13	-43.47	-78.29	-62.14	7.13	12.80	H
	6930.4	-56.82	-13	-43.82	-80.49	-60.22	8.40	11.80	H
	3465.2	-61.73	-13	-48.73	-76.76	-68.58	5.65	12.50	V
	5197.8	-59.73	-13	-46.73	-80.48	-65.40	7.13	12.80	V
	6930.4	-57.10	-13	-44.10	-80.39	-60.50	8.40	11.80	V

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