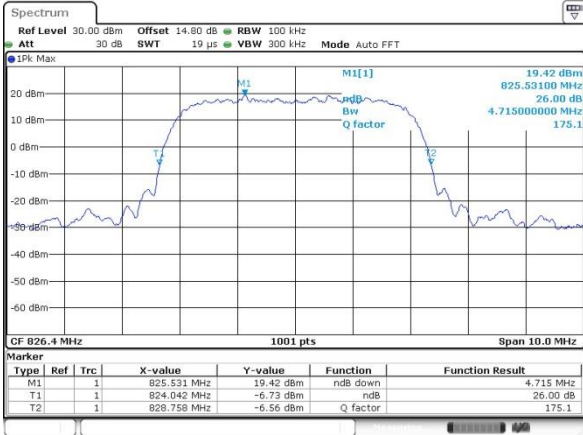




WCDMA Band V (RMC 12.2Kbps)

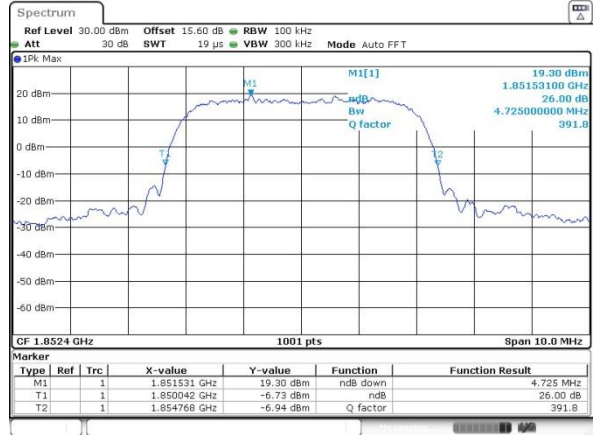
Lowest Channel



Date: 23.APR.2023 23:49:15

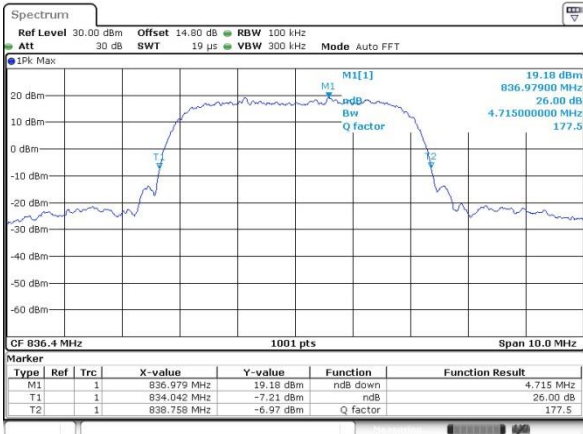
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



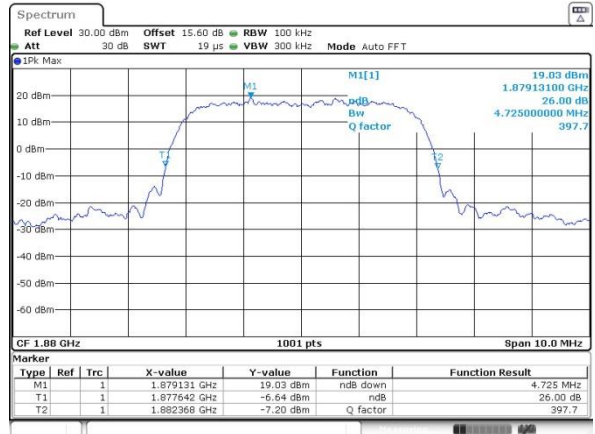
Date: 25.APR.2023 04:27:58

Middle Channel



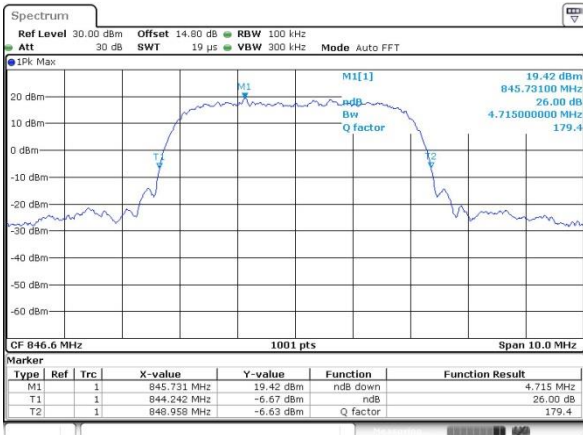
Date: 23.APR.2023 23:49:15

Middle Channel



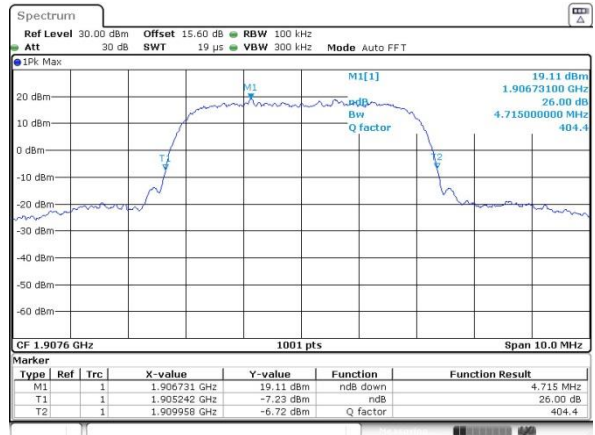
Date: 25.APR.2023 04:28:23

Highest Channel

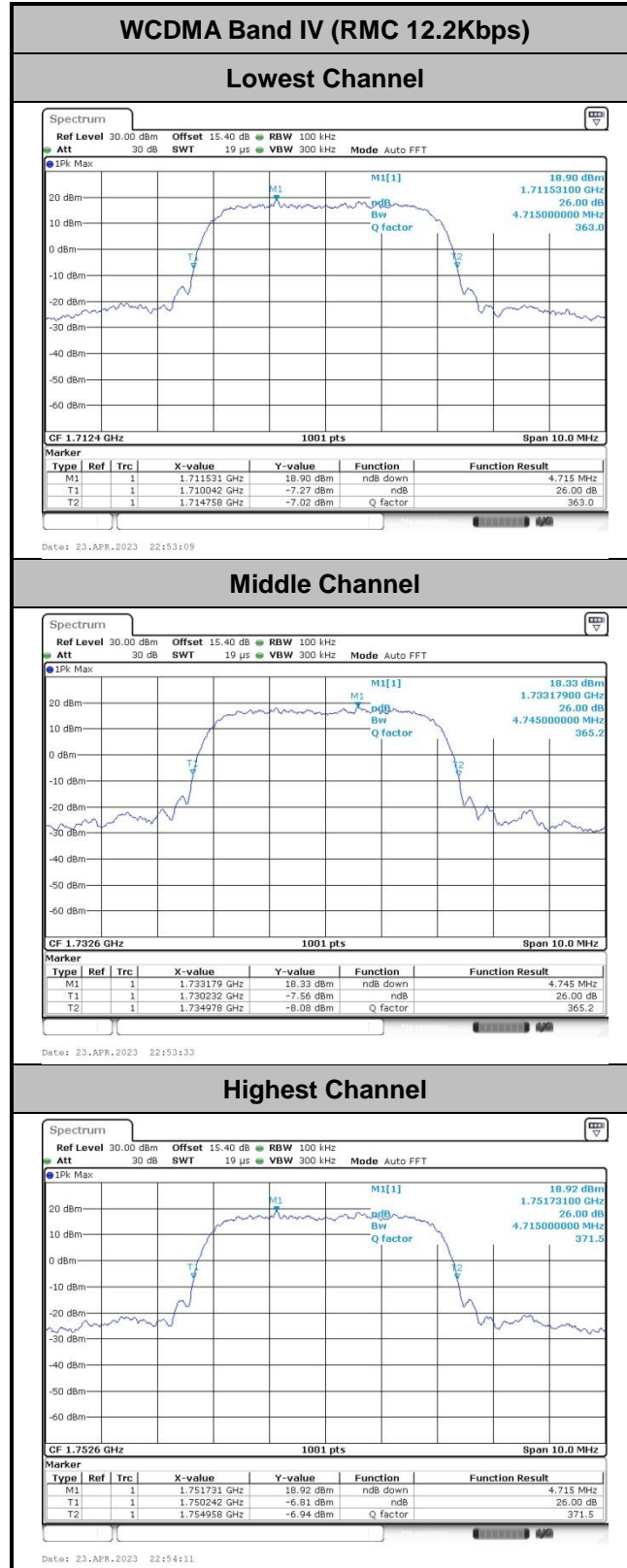


Date: 23.APR.2023 23:50:22

Highest Channel



Date: 25.APR.2023 04:28:53





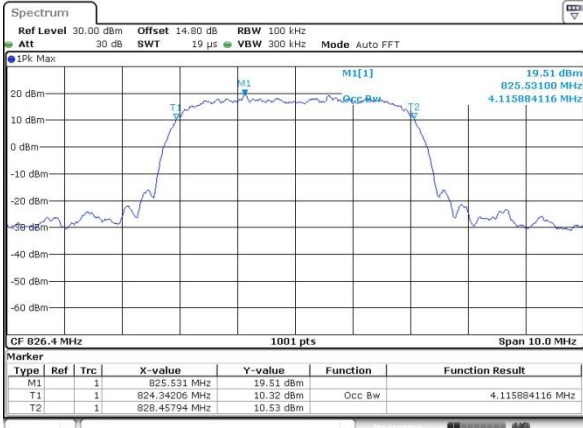
Occupied Bandwidth

Mode	WCDMA Band V (MHz)	WCDMA Band II (MHz)	WCDMA Band IV (MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.12	4.15	4.15
Middle CH	4.14	4.15	4.15
Highest CH	4.14	4.14	4.15



WCDMA Band V (RMC 12.2Kbps)

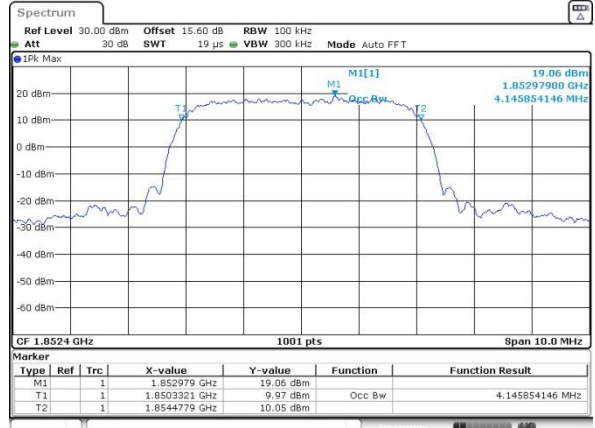
Lowest Channel



Date: 23.APR.2023 23:51:03

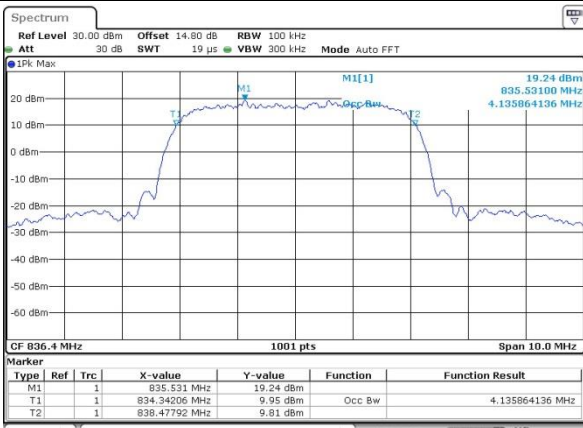
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



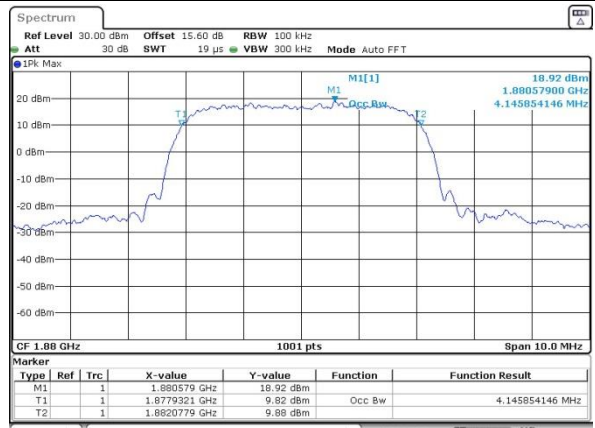
Date: 25.APR.2023 04:23:18

Middle Channel



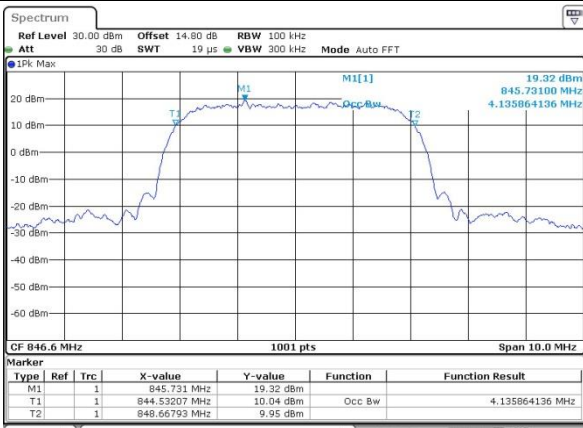
Date: 23.APR.2023 23:51:32

Middle Channel



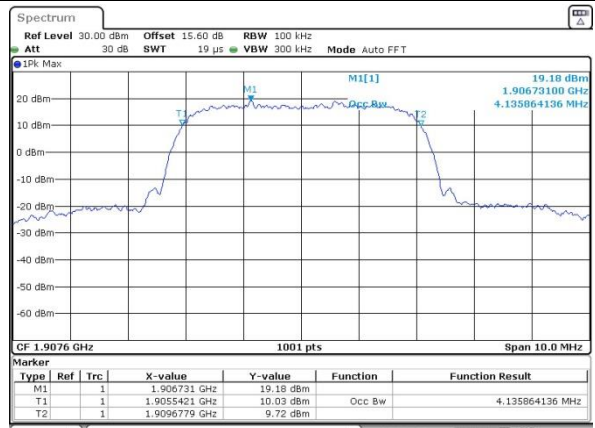
Date: 25.APR.2023 04:23:48

Highest Channel

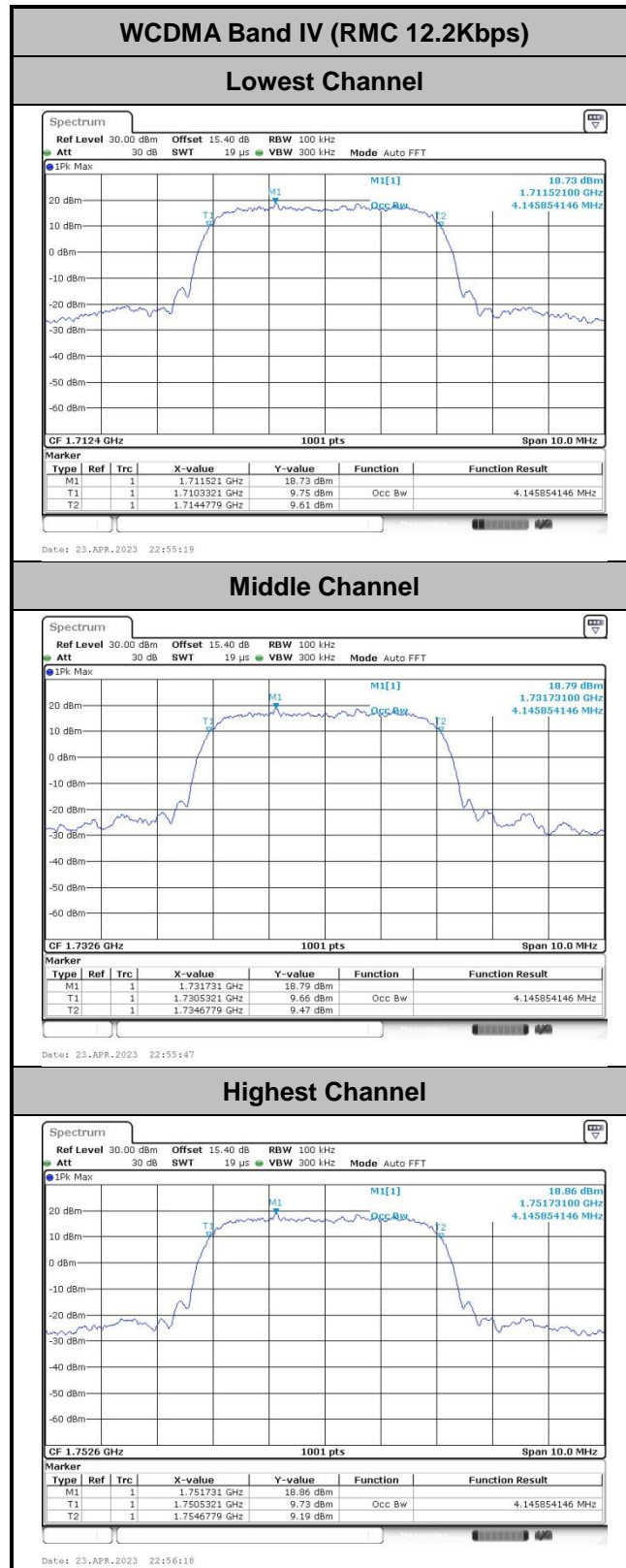


Date: 23.APR.2023 23:51:58

Highest Channel



Date: 25.APR.2023 04:24:17





Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

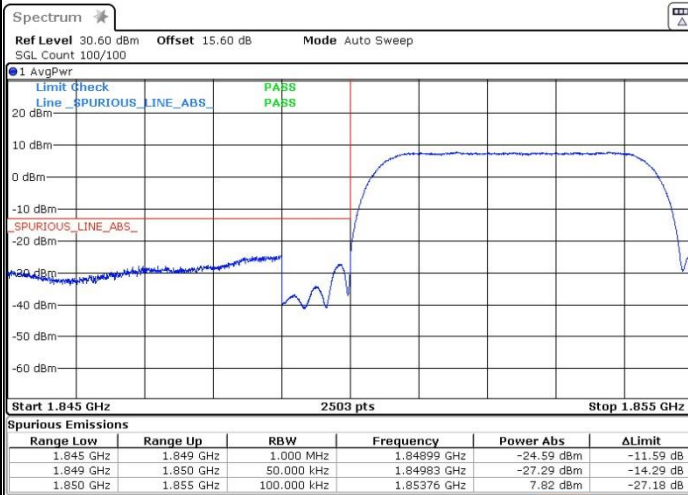


Highest Band Edge



WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

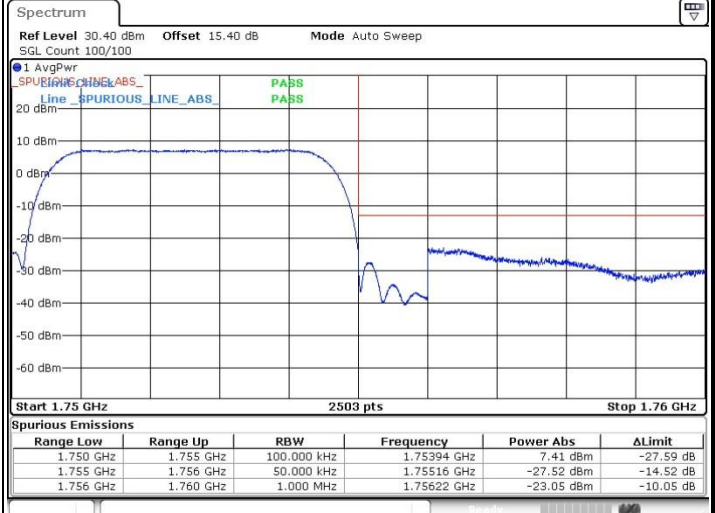
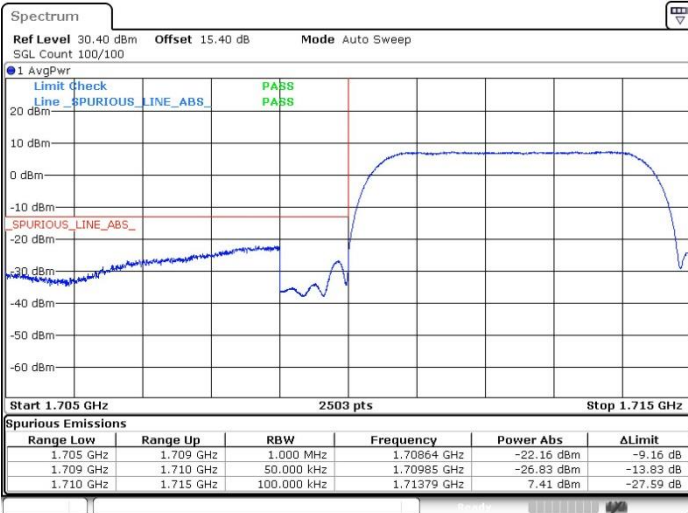




WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge

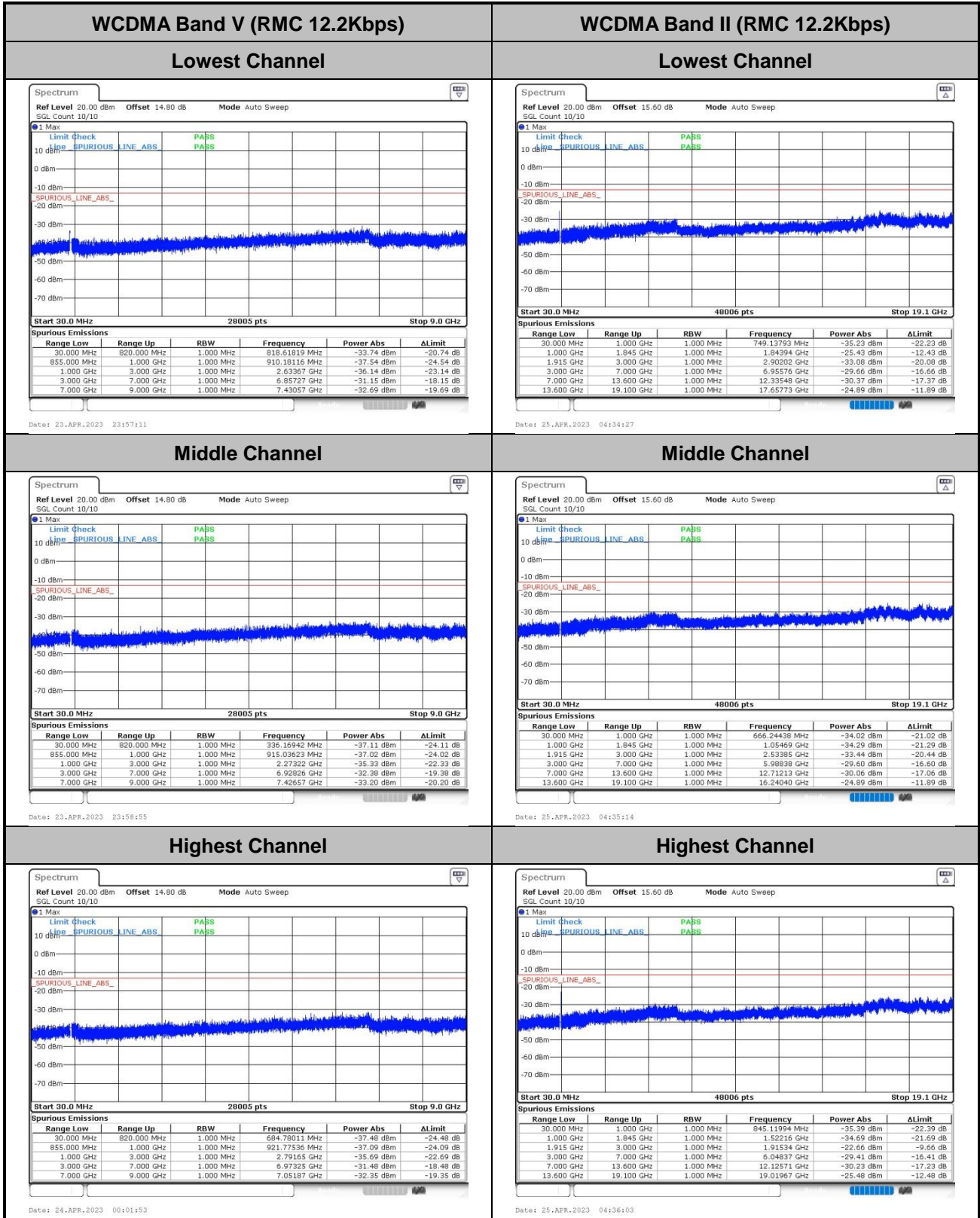


Date: 23.APR.2023 22:58:21

Date: 23.APR.2023 23:00:04



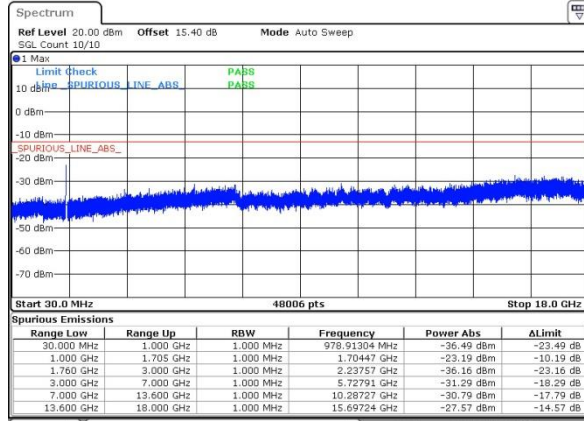
Conducted Spurious Emission



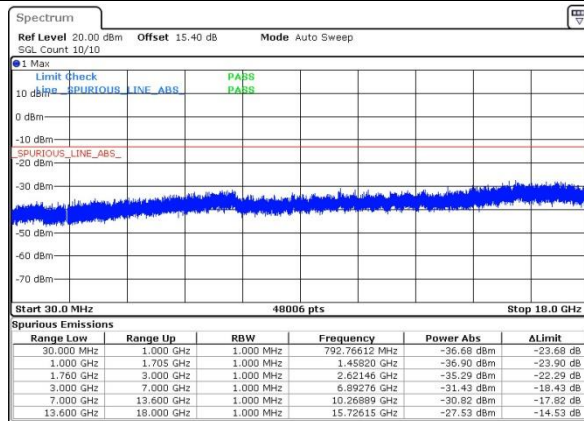


WCDMA Band IV (RMC 12.2Kbps)

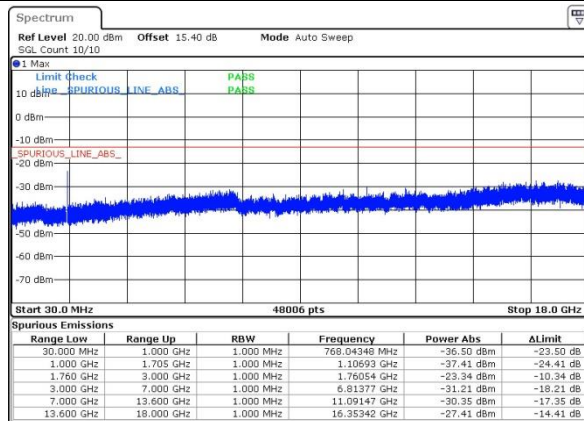
Lowest Channel



Middle Channel



Highest Channel





Frequency Stability

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	0.0056	PASS
40	Normal Voltage	0.0354	
30	Normal Voltage	0.0445	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0366	
-10	Normal Voltage	0.0079	
-20	Normal Voltage	0.0127	
-30	Normal Voltage	0.0421	
20	Maximum Voltage	0.0432	
20	Normal Voltage	0.0127	
20	Battery End Point	0.0046	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0121	PASS
40	Normal Voltage	0.0135	
30	Normal Voltage	0.0196	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0249	
0	Normal Voltage	0.0124	
-10	Normal Voltage	0.0265	
-20	Normal Voltage	0.0074	
-30	Normal Voltage	0.0127	
20	Maximum Voltage	0.0191	
20	Normal Voltage	0.0135	
20	Battery End Point	0.0016	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0144	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0194	
-20	Normal Voltage	0.0169	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0031	
20	Battery End Point	0.0162	

Note:

1. Normal Voltage = 3.91V ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.5V
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

Test Engineer :	Carry Xu	Temperature :	23~25°C
		Relative Humidity :	41~42%

RSE pretest all the support Antennas, only the worst results are shown in the report.

GSM850 (GPRS 1 Tx slots) / Ant.1								
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)
Lowest	1648	-65.54	-13	-52.54	-72.51	1.58	10.70	H
	2472	-54.64	-13	-41.64	-62.89	2.102	12.50	H
	3296	-58.19	-13	-45.19	-67.08	2.856	13.90	H
	1648	-64.86	-13	-51.86	-71.83	1.58	10.70	V
	2472	-51.77	-13	-38.77	-60.02	2.10	12.50	V
	3296	-56.41	-13	-43.41	-65.30	2.86	13.90	V
Middle	1672	-65.11	-13	-52.11	-72.08	1.58	10.70	H
	2508	-54.31	-13	-41.31	-62.56	2.102	12.50	H
	3345	-60.27	-13	-47.27	-69.16	2.856	13.90	H
	1672	-64.49	-13	-51.49	-71.46	1.58	10.70	V
	2508	-54.64	-13	-41.64	-62.89	2.10	12.50	V
	3345	-58.19	-13	-45.19	-67.08	2.86	13.90	V
Highest	1696	-63.78	-13	-50.78	-70.75	1.58	10.70	H
	2536	-59.80	-13	-46.80	-68.05	2.102	12.50	H
	3384	-61.01	-13	-48.01	-69.90	2.856	13.90	H
	1696	-64.47	-13	-51.47	-71.44	1.58	10.70	V
	2536	-60.33	-13	-47.33	-68.58	2.10	12.50	V
	3384	-61.18	-13	-48.18	-70.07	2.86	13.90	V

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



GSM850 (EDGE 1 Tx slots) / Ant.1								
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)
Lowest	1648	-67.52	-13	-54.52	-74.49	1.58	10.70	H
	2472	-60.66	-13	-47.66	-68.91	2.102	12.50	H
	3296	-62.19	-13	-49.19	-71.08	2.856	13.90	H
	1648	-65.72	-13	-52.72	-72.69	1.58	10.70	V
	2472	-57.67	-13	-44.67	-65.92	2.10	12.50	V
	3296	-61.51	-13	-48.51	-70.40	2.86	13.90	V
Middle	1672	-65.35	-13	-52.35	-72.32	1.58	10.70	H
	2512	-55.57	-13	-42.57	-63.82	2.102	12.50	H
	3344	-59.30	-13	-46.30	-68.19	2.856	13.90	H
	1672	-64.39	-13	-51.39	-71.36	1.58	10.70	V
	2512	-55.15	-13	-42.15	-63.40	2.10	12.50	V
	3344	-58.40	-13	-45.40	-67.29	2.86	13.90	V
Highest	1696	-65.07	-13	-52.07	-72.04	1.58	10.70	H
	2544	-53.69	-13	-40.69	-61.94	2.102	12.50	H
	3392	-60.73	-13	-47.73	-69.62	2.856	13.90	H
	1696	-63.34	-13	-50.34	-70.31	1.58	10.70	V
	2544	-58.30	-13	-45.30	-66.55	2.10	12.50	V
	3392	-58.61	-13	-45.61	-67.50	2.86	13.90	V

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

WCDMA Band V(RMC 12.2Kbps) / Ant.1								
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)
Lowest	1656	-64.50	-13	-51.50	-71.47	1.58	10.70	H
	2480	-59.75	-13	-46.75	-68.00	2.102	12.50	H
	3304	-60.26	-13	-47.26	-69.15	2.856	13.90	H
	1656	-65.42	-13	-52.42	-72.39	1.58	10.70	V
	2480	-61.88	-13	-48.88	-70.13	2.10	12.50	V
	3304	-60.47	-13	-47.47	-69.36	2.86	13.90	V
Middle	1672	-64.49	-13	-51.49	-71.46	1.58	10.70	H
	2512	-60.52	-13	-47.52	-68.77	2.102	12.50	H
	3344	-61.03	-13	-48.03	-69.92	2.856	13.90	H
	1672	-63.85	-13	-50.85	-70.82	1.58	10.70	V
	2512	-60.33	-13	-47.33	-68.58	2.10	12.50	V
	3344	-61.36	-13	-48.36	-70.25	2.86	13.90	V
Highest	1680	-65.40	-13	-52.40	-72.37	1.58	10.70	H
	2520	-60.33	-13	-47.33	-68.58	2.102	12.50	H
	3368	-61.65	-13	-48.65	-70.54	2.856	13.90	H
	1680	-64.19	-13	-51.19	-71.16	1.58	10.70	V
	2520	-60.08	-13	-47.08	-68.33	2.10	12.50	V
	3368	-61.53	-13	-48.53	-70.42	2.86	13.90	V

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



GSM1900 (GPRS 1 Tx slots) / Ant.0								
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)
Lowest	3705	-58.41	-13	-45.41	-70.67	2.64	14.90	H
	5550.6	-55.60	-13	-42.60	-67.46	2.94	14.80	H
	7395	-52.99	-13	-39.99	-62.76	3.39	13.16	H
	3705	-58.57	-13	-45.57	-70.83	2.64	14.90	V
	5550	-55.62	-13	-42.62	-67.48	2.94	14.80	V
	7395	-52.97	-13	-39.97	-62.74	3.39	13.16	V
Middle	3765	-58.91	-13	-45.91	-71.17	2.64	14.90	H
	5640	-38.86	-13	-25.86	-50.72	2.94	14.80	H
	7520	-52.74	-13	-39.74	-62.51	3.39	13.16	H
	3765	-58.43	-13	-45.43	-70.69	2.64	14.90	V
	5640	-43.00	-13	-30.00	-54.86	2.94	14.80	V
	7520	-52.71	-13	-39.71	-62.48	3.39	13.16	V
Highest	3825	-58.50	-13	-45.50	-70.76	2.64	14.90	H
	5730	-56.06	-13	-43.06	-67.92	2.94	14.80	H
	7635	-52.40	-13	-39.40	-62.17	3.39	13.16	H
	3825	-58.75	-13	-45.75	-71.01	2.64	14.90	V
	5730	-56.11	-13	-43.11	-67.97	2.94	14.80	V
	7635	-52.39	-13	-39.39	-62.16	3.39	13.16	V

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

GSM1900 (EDGE 1 Tx slots) / Ant.0								
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)
Lowest	3705	-57.99	-13	-44.99	-70.25	2.64	14.90	H
	5550	-55.56	-13	-42.56	-67.42	2.94	14.80	H
	7395	-52.71	-13	-39.71	-62.48	3.39	13.16	H
	3705	-57.97	-13	-44.97	-70.23	2.64	14.90	V
	5550	-56.20	-13	-43.20	-68.06	2.94	14.80	V
	7395	-53.14	-13	-40.14	-62.91	3.39	13.16	V
Middle	3765	-58.76	-13	-45.76	-71.02	2.64	14.90	H
	5640	-56.02	-13	-43.02	-67.88	2.94	14.80	H
	7515	-52.67	-13	-39.67	-62.44	3.39	13.16	H
	3765	-58.75	-13	-45.75	-71.01	2.64	14.90	V
	5640	-56.92	-13	-43.92	-68.78	2.94	14.80	V
	7515	-52.91	-13	-39.91	-62.68	3.39	13.16	V
Highest	3819	-59.47	-13	-46.47	-71.73	2.64	14.90	H
	5729.4	-56.34	-13	-43.34	-68.20	2.94	14.80	H
	7639.2	-52.84	-13	-39.84	-62.61	3.39	13.16	H
	3819.6	-58.95	-13	-45.95	-71.21	2.64	14.90	V
	5729.4	-56.89	-13	-43.89	-68.75	2.94	14.80	V
	7639.2	-52.86	-13	-39.86	-62.63	3.39	13.16	V

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



WCDMA Band II(RMC 12.2Kbps) / Ant.0								
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)
Lowest	3705	-57.52	-13	-44.52	-69.78	2.64	14.90	H
	5550	-55.57	-13	-42.57	-67.43	2.94	14.80	H
	7410	-53.13	-13	-40.13	-62.90	3.39	13.16	H
	3705	-57.37	-13	-44.37	-69.63	2.64	14.90	V
	5550	-55.40	-13	-42.40	-67.26	2.94	14.80	V
	7410	-53.07	-13	-40.07	-62.84	3.39	13.16	V
Middle	3765	-59.20	-13	-46.20	-71.46	2.64	14.90	H
	5640	-56.25	-13	-43.25	-68.11	2.94	14.80	H
	7515	-52.60	-13	-39.60	-62.37	3.39	13.16	H
	3765	-58.86	-13	-45.86	-71.12	2.64	14.90	V
	5640	-57.14	-13	-44.14	-69.00	2.94	14.80	V
	7515	-52.76	-13	-39.76	-62.53	3.39	13.16	V
Highest	3810	-57.63	-13	-44.63	-69.89	2.64	14.90	H
	5722	-55.59	-13	-42.59	-67.45	2.94	14.80	H
	7630	-52.36	-13	-39.36	-62.13	3.39	13.16	H
	3810	-56.93	-13	-43.93	-69.19	2.64	14.90	V
	5722	-55.85	-13	-42.85	-67.71	2.94	14.80	V
	7630	-52.01	-13	-39.01	-61.78	3.39	13.16	V

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

WCDMA Band IV(RMC 12.2Kbps) / Ant.0								
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)
Lowest	3424	-58.59	-13	-45.59	-69.33	2.604	13.34	H
	5137	-55.61	-13	-42.61	-66.12	3.011	13.52	H
	6849	-54.59	-13	-41.59	-64.79	3.271	13.47	H
	3424	-58.76	-13	-45.76	-69.50	2.604	13.34	V
	5137	-55.73	-13	-42.73	-66.24	3.011	13.52	V
	6849	-54.72	-13	-41.72	-64.92	3.271	13.47	V
Middle	3465	-57.93	-13	-44.93	-68.67	2.604	13.34	H
	5197	-54.73	-13	-41.73	-65.24	3.011	13.52	H
	6930	-54.36	-13	-41.36	-64.56	3.271	13.47	H
	3465	-58.34	-13	-45.34	-69.08	2.604	13.34	V
	5197	-54.60	-13	-41.60	-65.11	3.011	13.52	V
	6930	-54.19	-13	-41.19	-64.39	3.271	13.47	V
Highest	3505	-57.76	-13	-44.76	-68.50	2.604	13.34	H
	5257	-55.97	-13	-42.97	-66.48	3.011	13.52	H
	7010	-54.02	-13	-41.02	-64.22	3.271	13.47	H
	3505	-58.25	-13	-45.25	-68.99	2.604	13.34	V
	5257	-55.76	-13	-42.76	-66.27	3.011	13.52	V
	7010	-54.18	-13	-41.18	-64.38	3.271	13.47	V

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