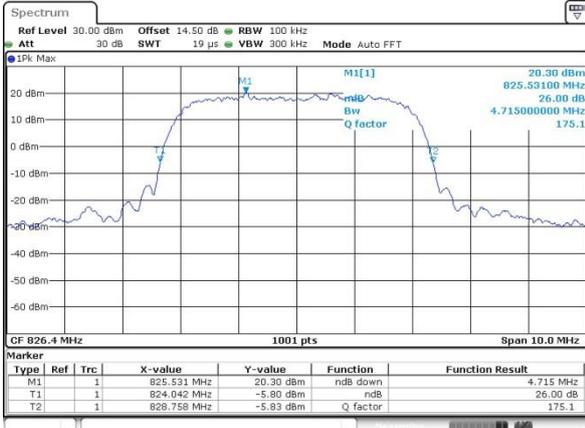




WCDMA Band V (RMC 12.2Kbps)

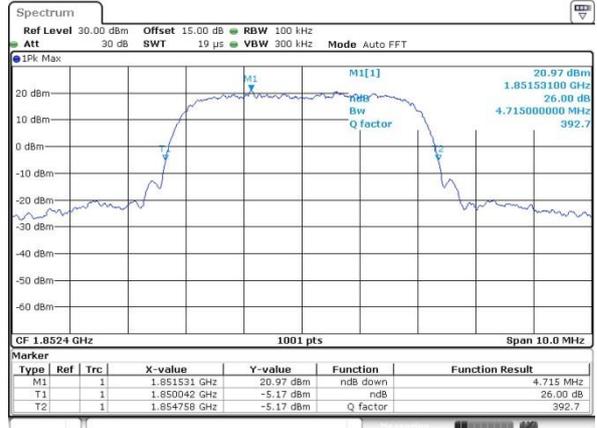
Lowest Channel



Date: 10.OCT.2024 09:29:53

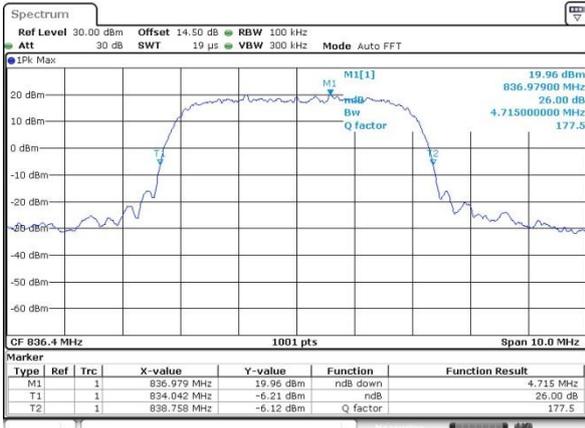
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



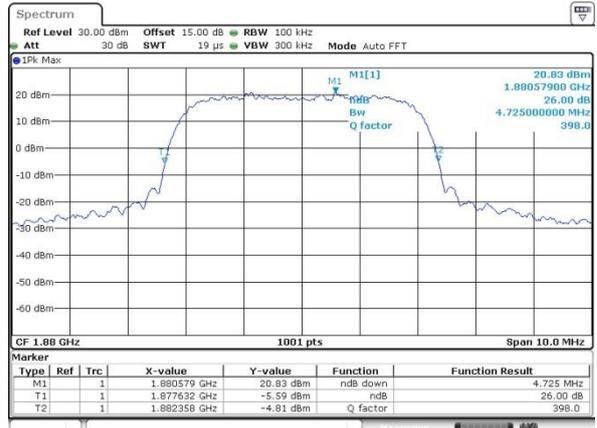
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Middle Channel



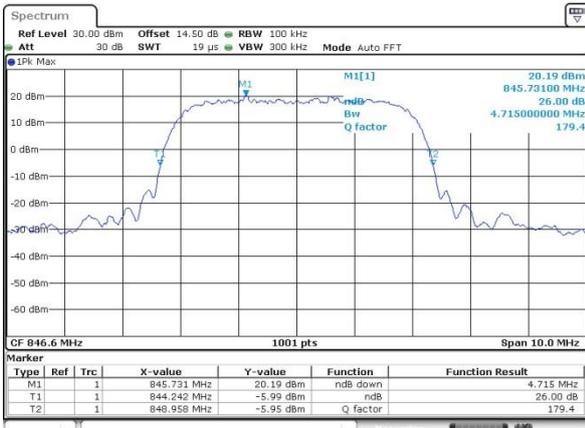
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Middle Channel



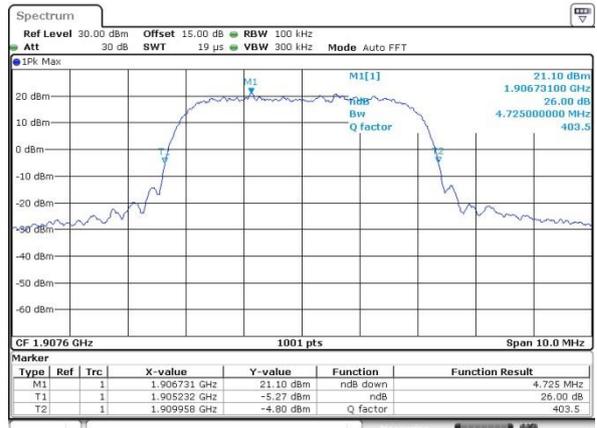
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Highest Channel



Date: 10.OCT.2024 09:30:43

Highest Channel

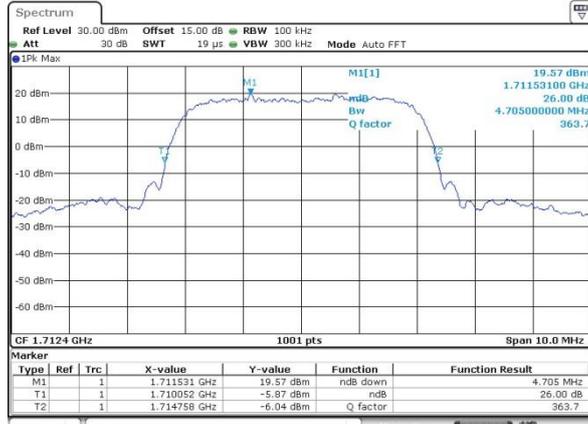


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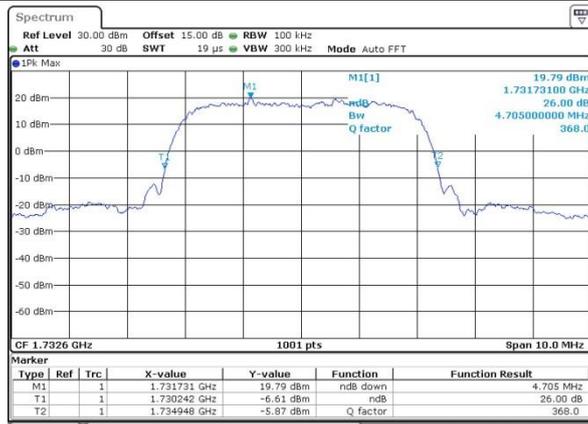
### WCDMA Band IV (RMC 12.2Kbps)

#### Lowest Channel



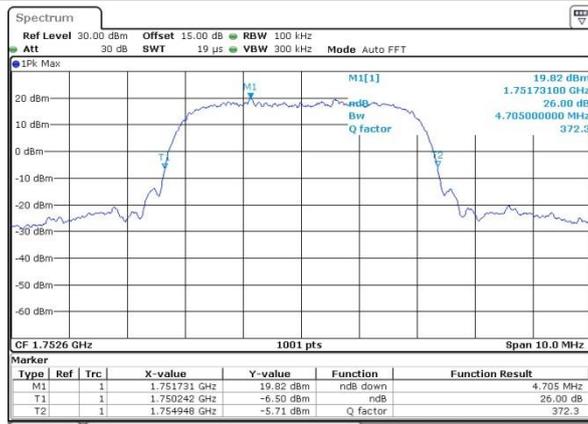
Date: 10.OCT.2024 10:32:20

#### Middle Channel



Date: 10.OCT.2024 10:32:41

#### Highest Channel



Date: 10.OCT.2024 10:33:00



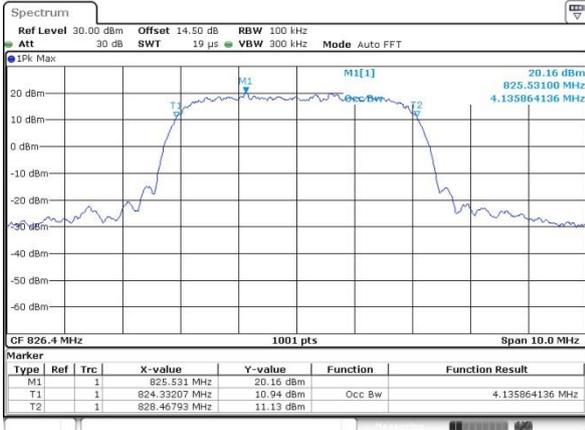
## Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.15	4.15
Middle CH	4.13	4.15	4.14
Highest CH	4.14	4.15	4.14



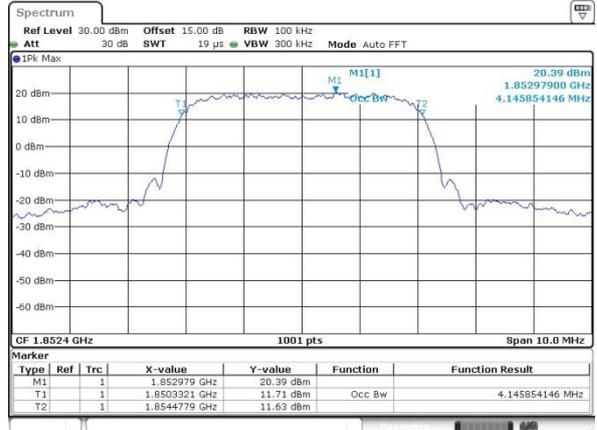
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

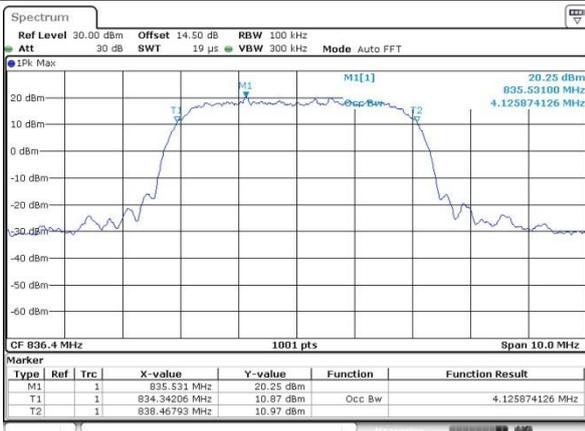


WCDMA Band II (RMC 12.2Kbps)

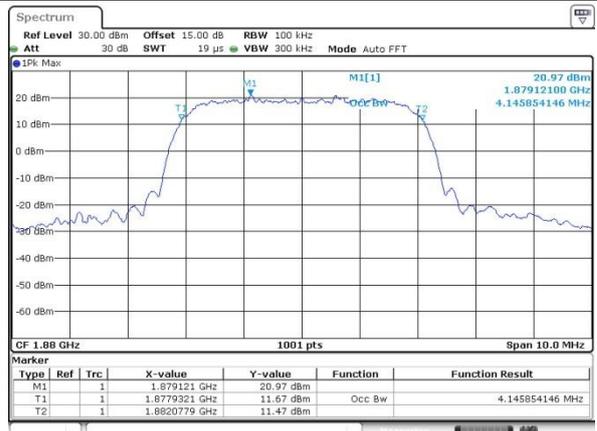
Lowest Channel



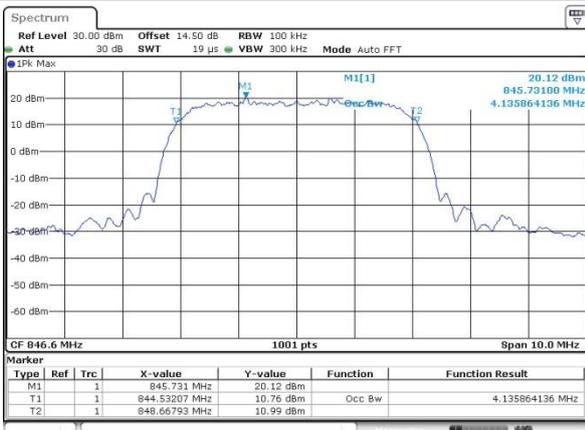
Middle Channel



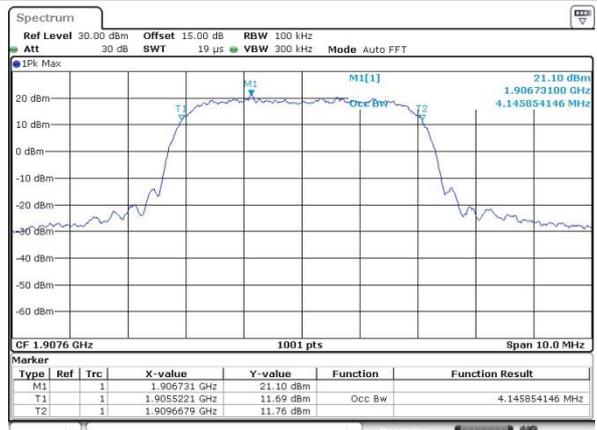
Middle Channel

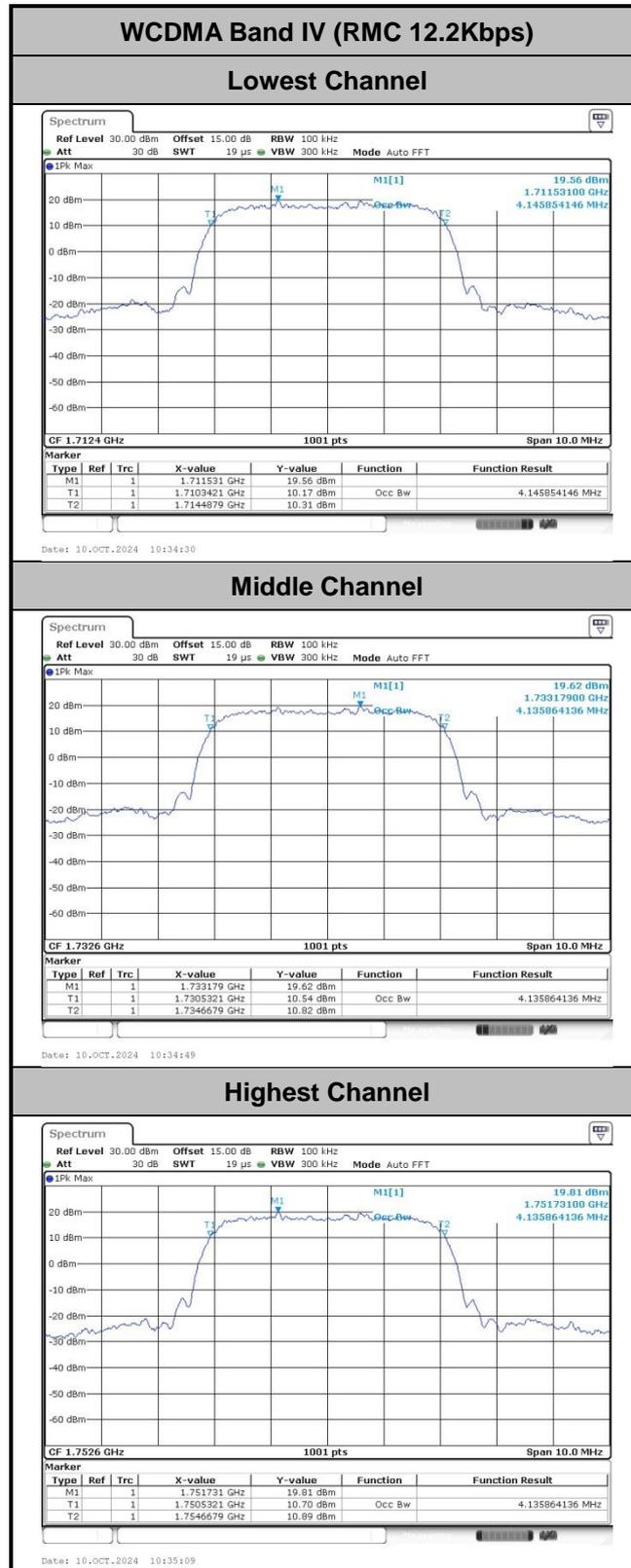


Highest Channel



Highest Channel



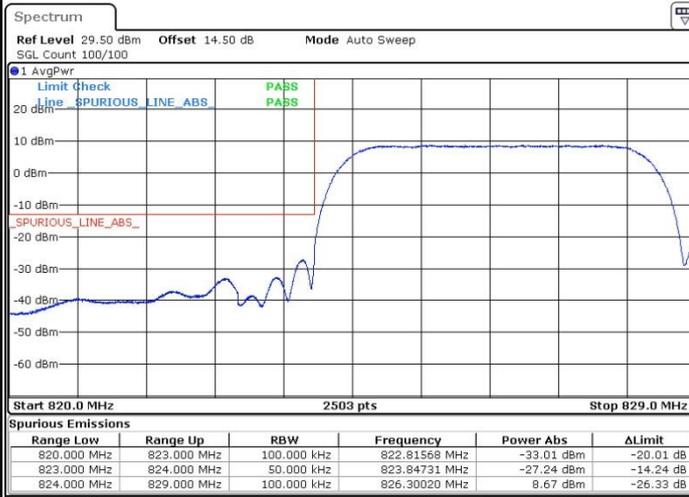




# Conducted Band Edge

## WCDMA Band V (RMC 12.2Kbps)

### Lowest Band Edge

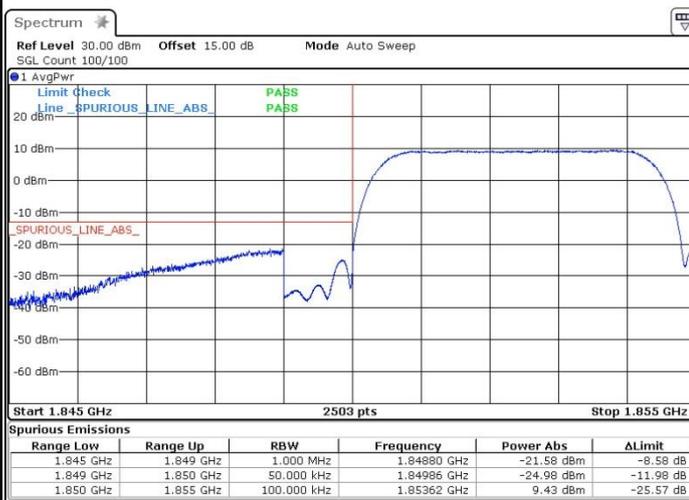


### Highest Band Edge



## WCDMA Band II (RMC 12.2Kbps)

### Lowest Band Edge



### Highest Band Edge





WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



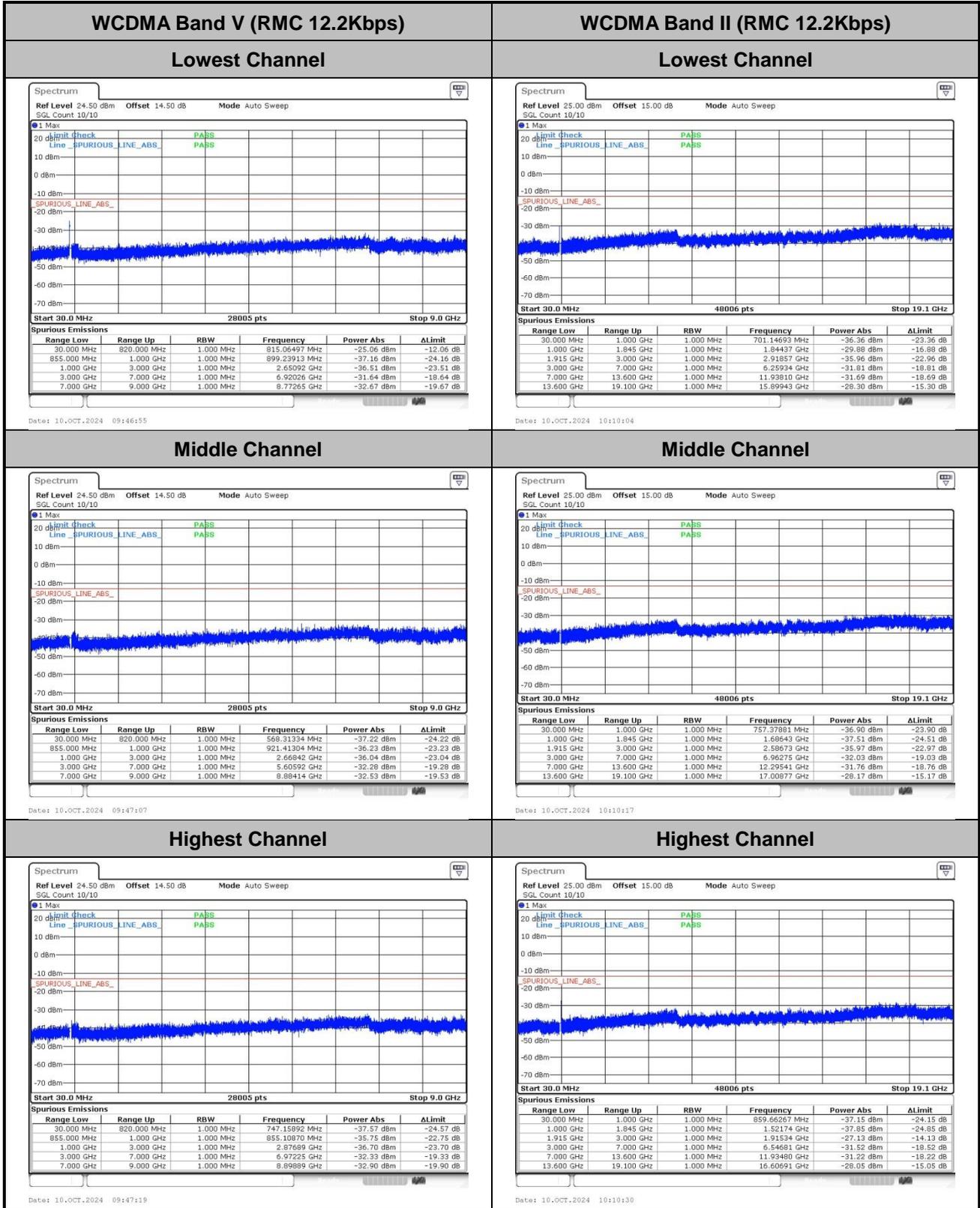
Date: 10.OCT.2024 10:17:39



Date: 10.OCT.2024 10:31:57



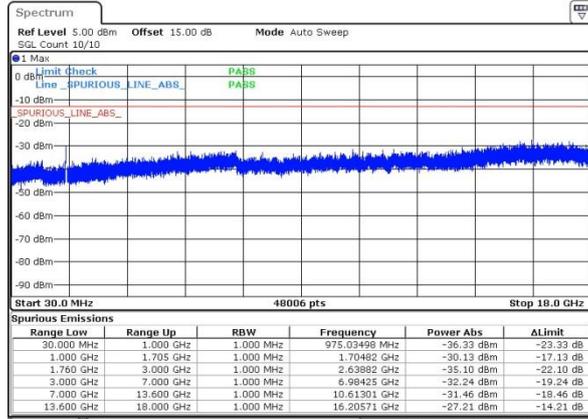
# Conducted Spurious Emission





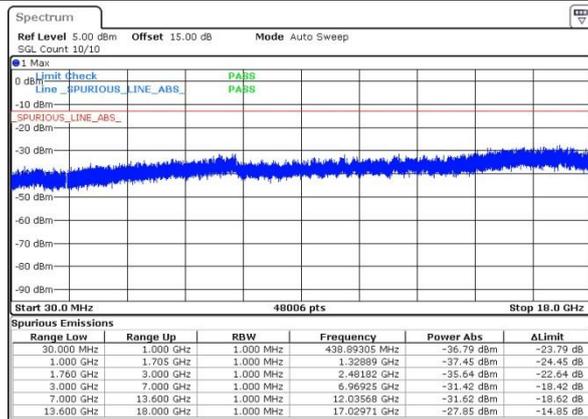
### WCDMA Band IV (RMC 12.2Kbps)

#### Lowest Channel



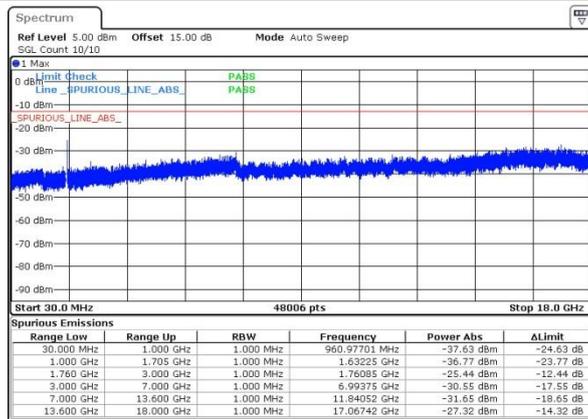
Date: 10.OCT.2024 10:35:30

#### Middle Channel



Date: 10.OCT.2024 10:35:44

#### Highest Channel



Date: 10.OCT.2024 10:35:57



### Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0058	PASS
40	Normal Voltage	0.0377	
30	Normal Voltage	0.0485	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0344	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0141	
-30	Normal Voltage	0.0325	
20	Maximum Voltage	0.0418	
20	Normal Voltage	0.0176	
20	Battery End Point	0.0063	



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0169	PASS
40	Normal Voltage	0.0136	
30	Normal Voltage	0.0144	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0155	
0	Normal Voltage	0.0136	
-10	Normal Voltage	0.0247	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0169	
20	Maximum Voltage	0.0162	
20	Normal Voltage	0.0128	
20	Battery End Point	0.0019	

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0146	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0172	
-20	Normal Voltage	0.0163	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0118	

**Note:**

1. Normal Voltage = 3.77V ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.2V
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 :	Bruce	Temperature :	23~25°C
		Relative Humidity :	41~42%

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

GSM850 (GSM) / ANT 0								
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	-53.23	-13	-40.23	-60.20	1.58	10.70	H
	2512	-29.63	-13	-16.63	-37.88	2.102	12.50	H
	3344	-55.14	-13	-42.14	-64.03	2.856	13.90	H
	1672	-53.39	-13	-40.39	-60.36	1.58	10.70	V
	2512	-26.36	-13	-13.36	-34.61	2.10	12.50	V
	3344	-54.39	-13	-41.39	-63.28	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 0								
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	-56.91	-13	-43.91	-63.88	1.58	10.70	H
	2512	-26.81	-13	-13.81	-35.06	2.102	12.50	H
	3344	-57.43	-13	-44.43	-66.32	2.856	13.90	H
	1672	-57.34	-13	-44.34	-64.31	1.58	10.70	V
	2512	-26.07	-13	-13.07	-34.32	2.10	12.50	V
	3344	-56.47	-13	-43.47	-65.36	2.86	13.90	V

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

GSM1900 (GSM) / ANT 2								
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	3765	-54.14	-13	-41.14	-66.40	2.64	14.90	H
	5640	-53.52	-13	-40.52	-65.38	2.94	14.80	H
	7515	-53.47	-13	-40.47	-63.24	3.39	13.16	H
	3765	-55.81	-13	-42.81	-68.07	2.64	14.90	V
	5640	-53.95	-13	-40.95	-65.81	2.94	14.80	V
	7515	-53.22	-13	-40.22	-62.99	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 2								
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	3765	-53.54	-13	-40.54	-65.80	2.64	14.90	H
	5640	-54.10	-13	-41.10	-65.96	2.94	14.80	H
	7515	-53.57	-13	-40.57	-63.34	3.39	13.16	H
	3765	-55.73	-13	-42.73	-67.99	2.64	14.90	V
	5640	-54.51	-13	-41.51	-66.37	2.94	14.80	V
	7515	-53.40	-13	-40.40	-63.17	3.39	13.16	V

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

WCDMA Band V(RMC 12.2Kbps) / ANT 0								
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	-62.01	-13	-49.01	-68.98	1.58	10.70	H
	2512	-56.23	-13	-43.23	-64.48	2.102	12.50	H
	3344	-57.72	-13	-44.72	-66.61	2.856	13.90	H
	1672	-61.24	-13	-48.24	-68.21	1.58	10.70	V
	2512	-55.80	-13	-42.80	-64.05	2.10	12.50	V
	3344	-57.60	-13	-44.60	-66.49	2.86	13.90	V

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

WCDMA Band II(RMC 12.2Kbps) / ANT 3								
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	3760	-57.13	-13	-44.13	-69.39	2.64	14.90	H
	5640	-54.01	-13	-41.01	-65.87	2.94	14.80	H
	7520	-54.55	-13	-41.55	-64.32	3.39	13.16	H
	3760	-57.04	-13	-44.04	-69.30	2.64	14.90	V
	5640	-54.08	-13	-41.08	-65.94	2.94	14.80	V
	7520	-54.10	-13	-41.10	-63.87	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 3								
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	3465	-57.04	-13	-44.04	-67.78	2.604	13.34	H
	5205	-54.08	-13	-41.08	-64.59	3.011	13.52	H
	6930	-54.10	-13	-41.10	-64.30	3.271	13.47	H
	3465	-57.13	-13	-44.13	-67.87	2.604	13.34	V
	5197.8	-54.01	-13	-41.01	-64.52	3.011	13.52	V
	6930	-54.55	-13	-41.55	-64.75	3.271	13.47	V

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