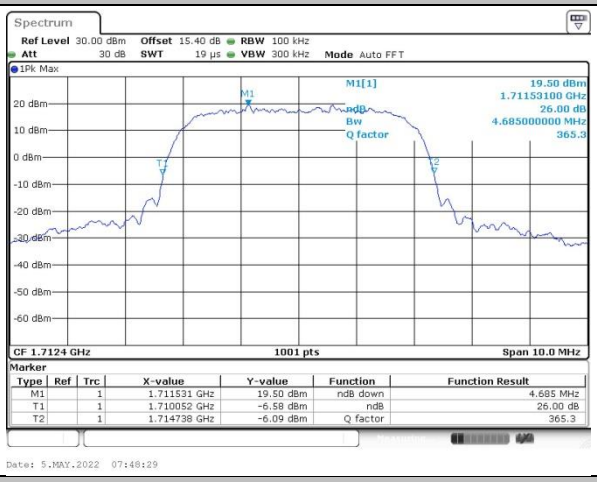
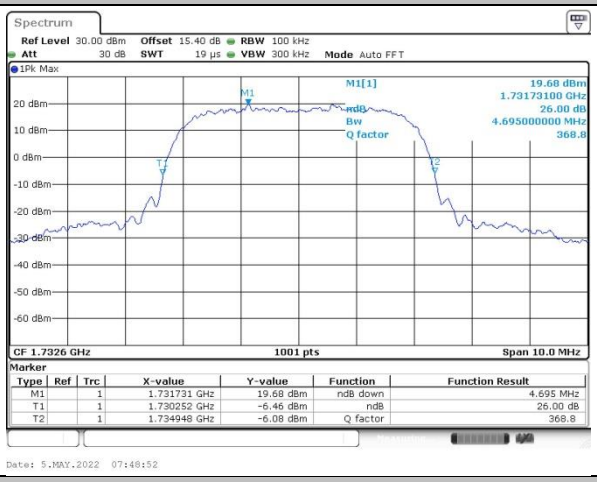
WCDMA Band IV (RMC 12.2Kbps)

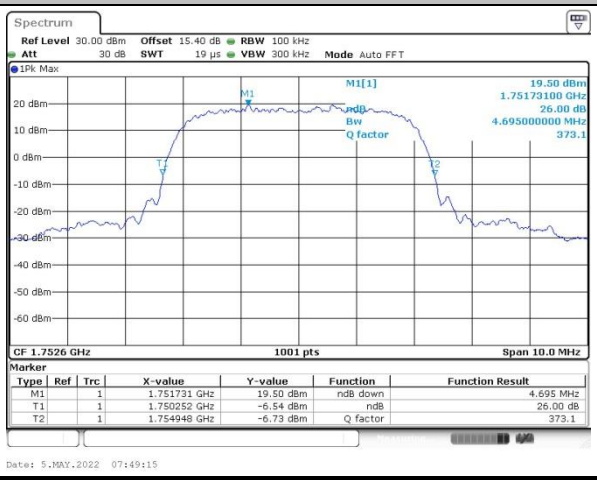
Lowest Channel



Middle Channel

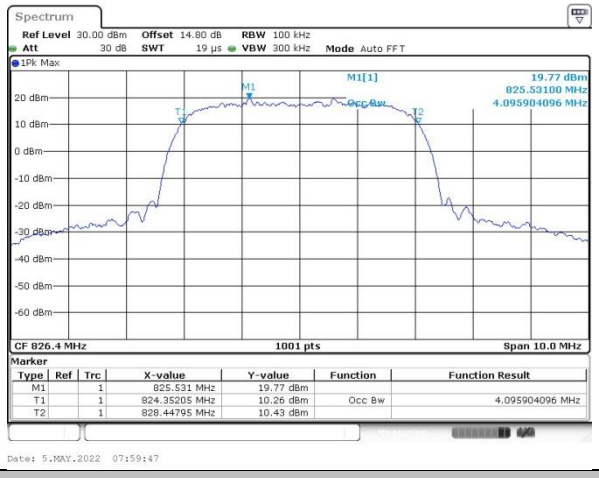
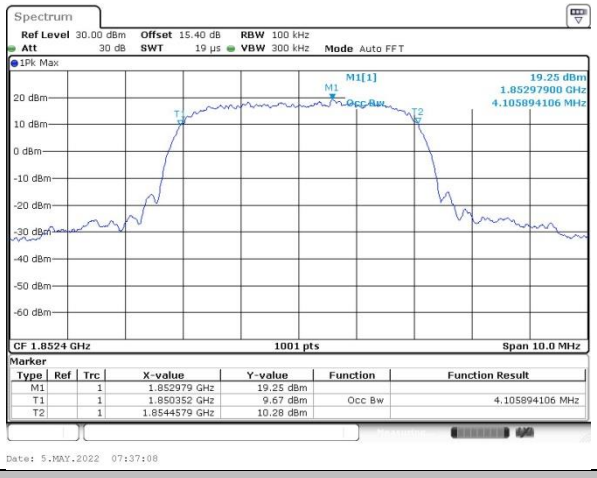
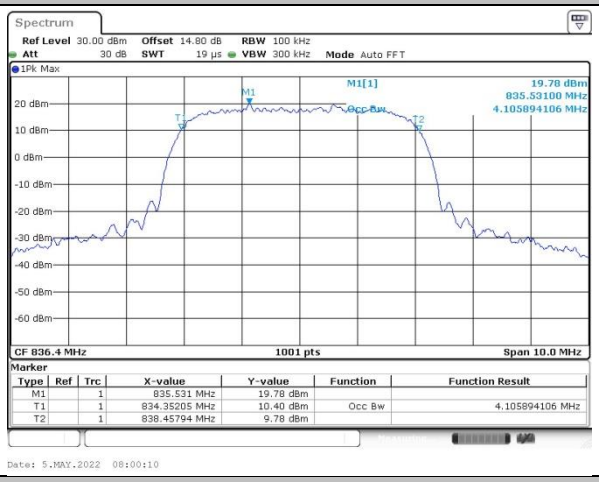
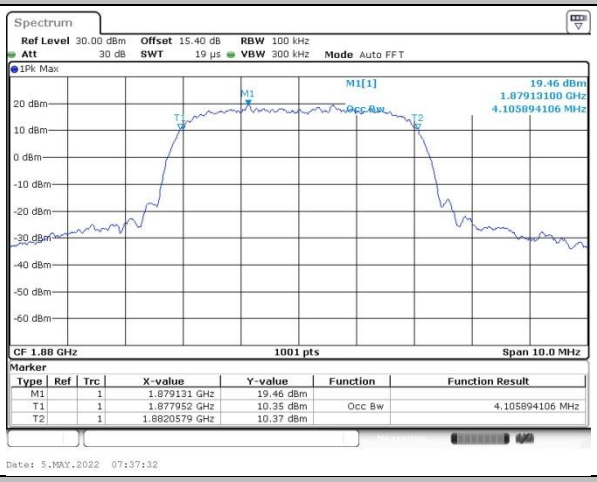
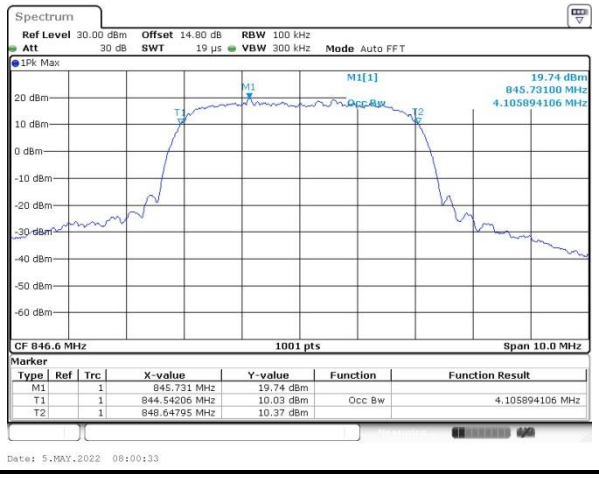
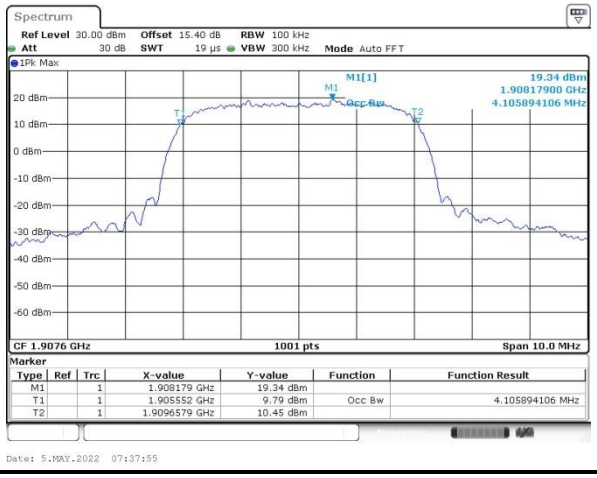


Highest Channel



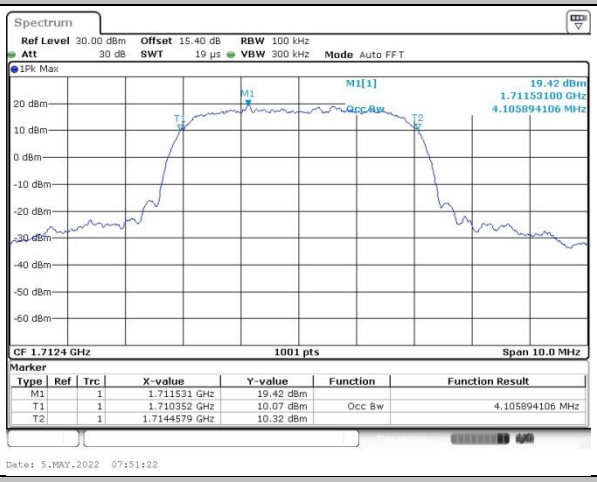
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.10	4.11	4.11
Middle CH	4.11	4.11	4.11
Highest CH	4.11	4.11	4.11

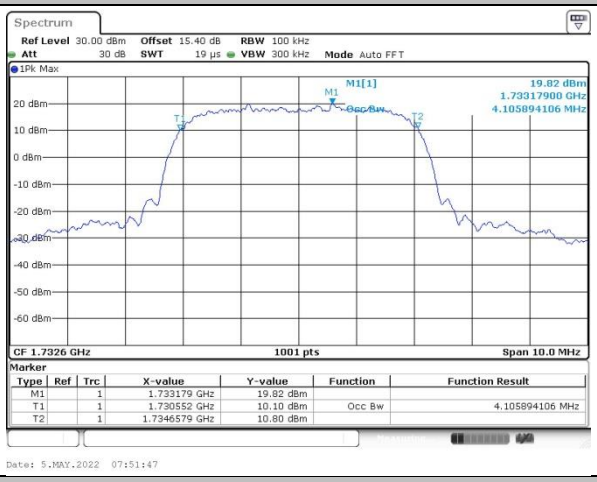
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)

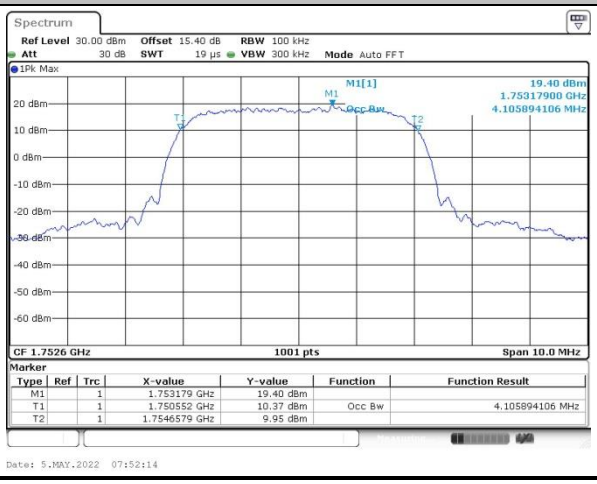
Lowest Channel



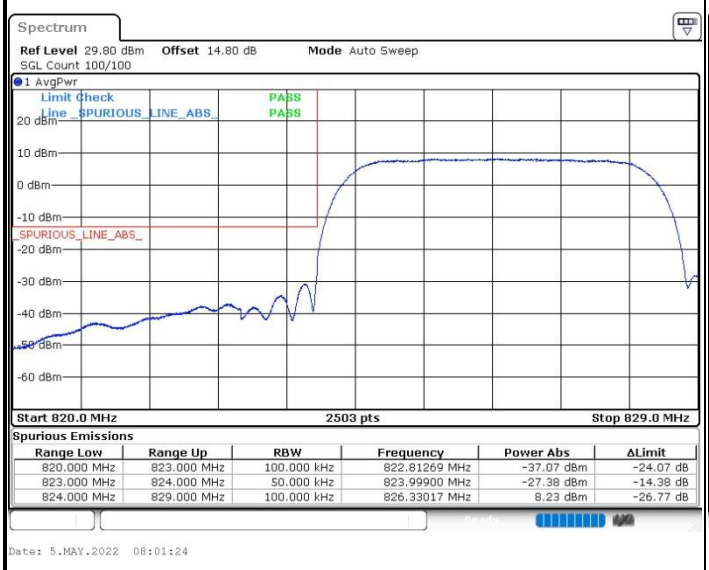
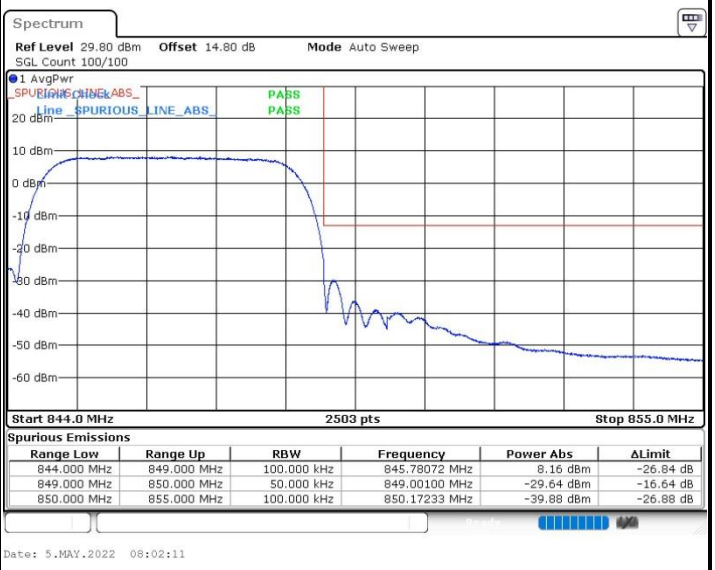
Middle Channel



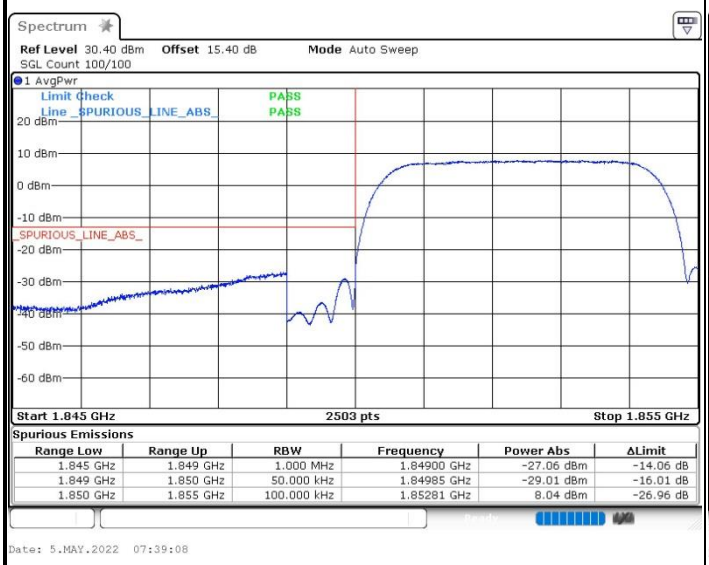
Highest Channel

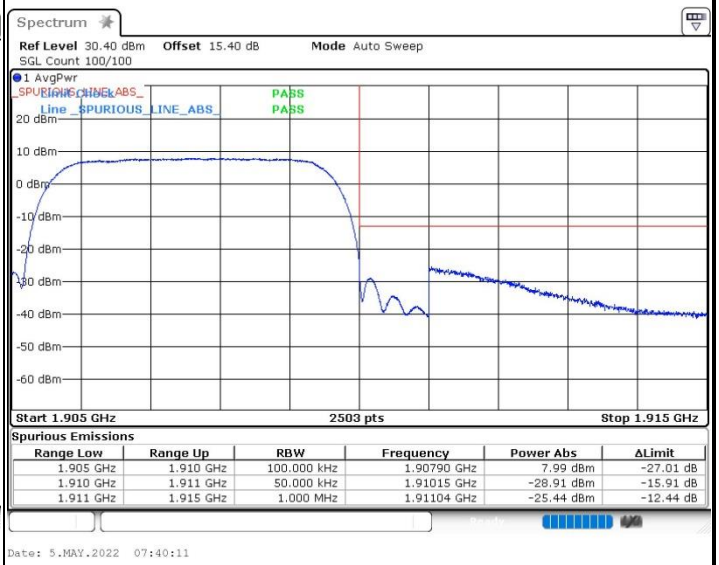


Conducted Band Edge

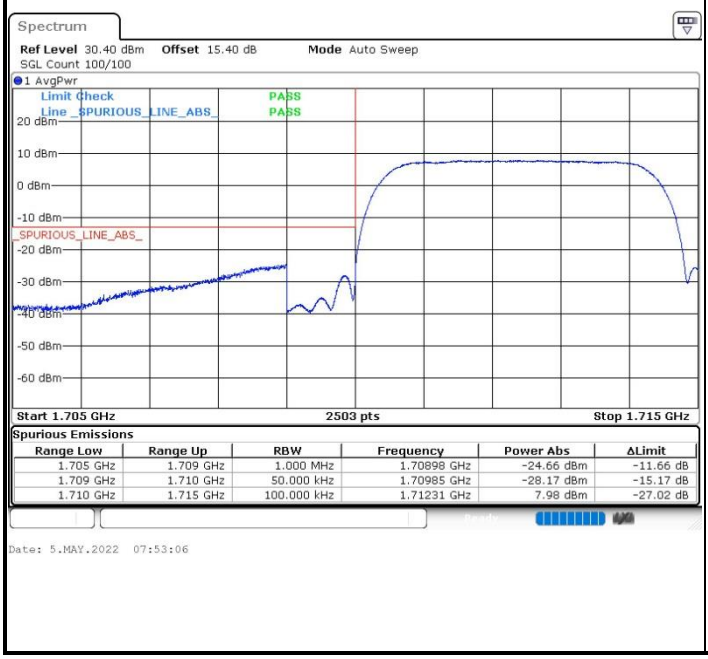
WCDMA Band V (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**
	

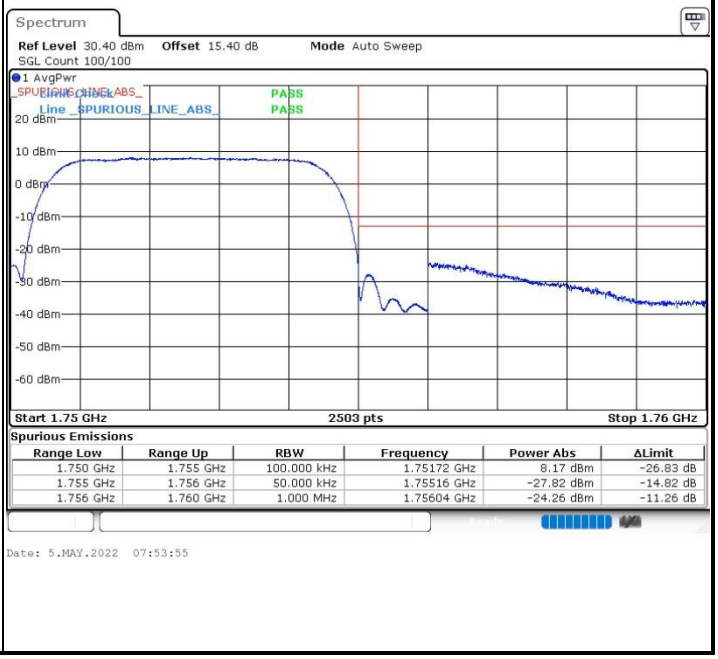
WCDMA Band II (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**





WCDMA Band IV (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**

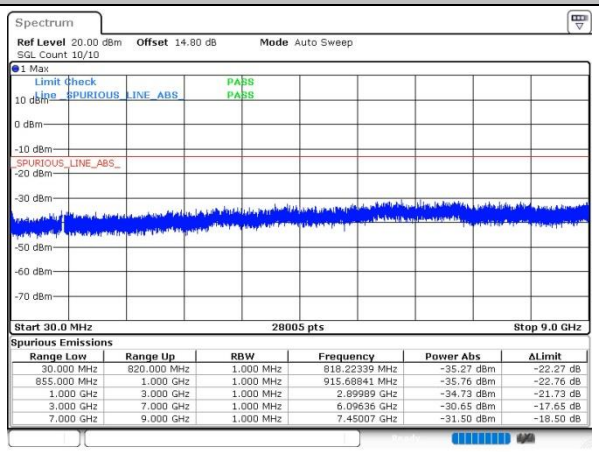




Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

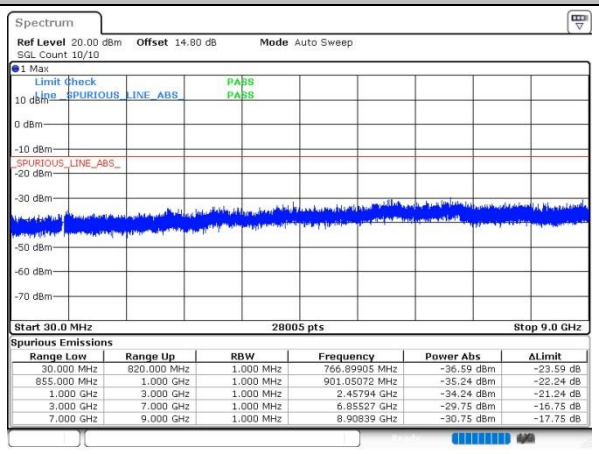


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	818.22339 MHz	-35.27 dBm	-22.27 dB
855.000 MHz	1.000 GHz	1.000 MHz	915.68841 MHz	-35.76 dBm	-22.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.89989 GHz	-34.73 dBm	-21.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.09636 GHz	-30.65 dBm	-17.65 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.45007 GHz	-31.50 dBm	-18.50 dB

Date: 5.MAY.2022 08:02:32

Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	766.89905 MHz	-36.59 dBm	-23.59 dB
855.000 MHz	1.000 GHz	1.000 MHz	901.05072 MHz	-35.24 dBm	-22.24 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.45794 GHz	-34.24 dBm	-21.24 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85527 GHz	-29.75 dBm	-16.75 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90839 GHz	-30.75 dBm	-17.75 dB

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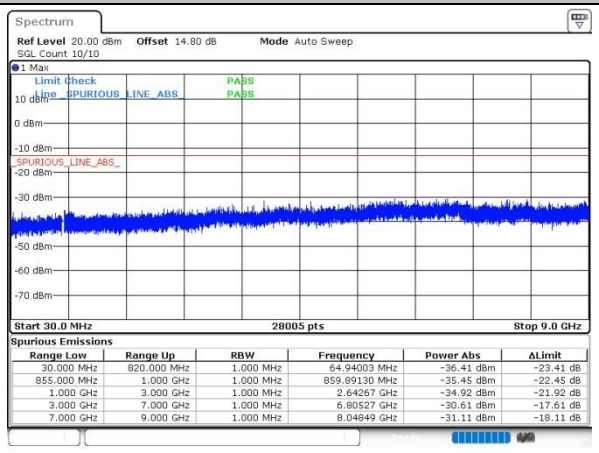
Highest Channel



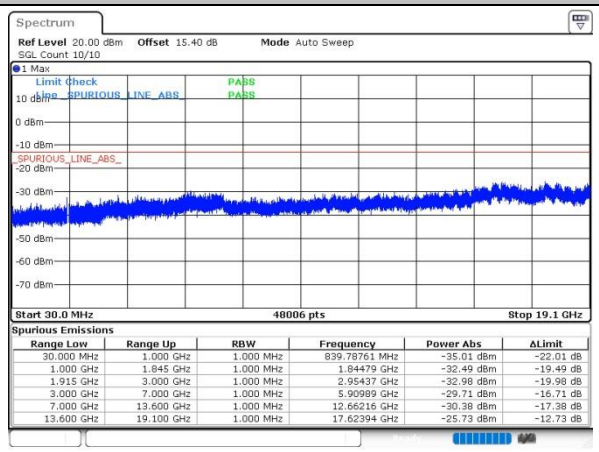
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	64.94003 MHz	-36.41 dBm	-23.41 dB
855.000 MHz	1.000 GHz	1.000 MHz	859.89130 MHz	-35.45 dBm	-22.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.64267 GHz	-34.92 dBm	-21.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80527 GHz	-30.61 dBm	-17.61 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.04849 GHz	-31.11 dBm	-18.11 dB

Date: 5.MAY.2022 08:02:59

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

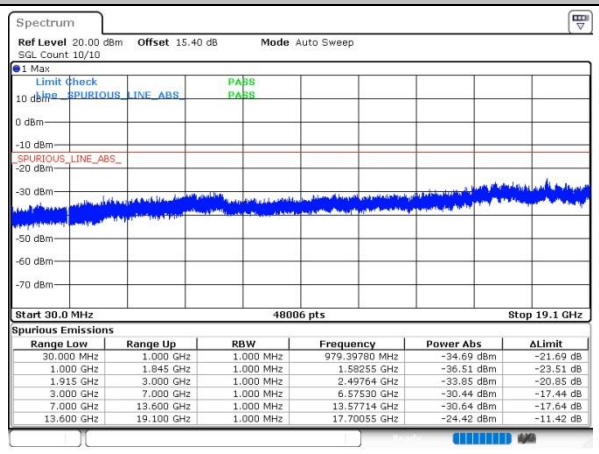


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	839.78761 MHz	-35.01 dBm	-22.01 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.84479 GHz	-32.49 dBm	-19.49 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.95437 GHz	-32.98 dBm	-19.98 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.90989 GHz	-29.71 dBm	-16.71 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.66216 GHz	-30.38 dBm	-17.38 dB
13.600 GHz	19.100 GHz	1.000 MHz	17.62394 GHz	-25.73 dBm	-12.73 dB

Date: 5.MAY.2022 07:44:38

Middle Channel

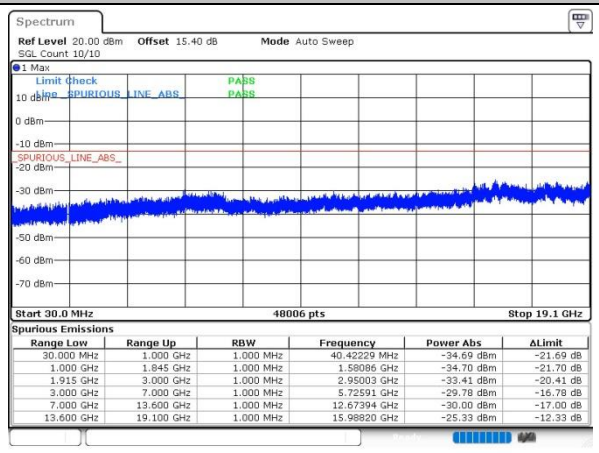


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.39780 MHz	-34.69 dBm	-21.69 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.58255 GHz	-36.51 dBm	-23.51 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.49764 GHz	-33.85 dBm	-20.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.57530 GHz	-30.44 dBm	-17.44 dB
7.000 GHz	13.600 GHz	1.000 MHz	13.57714 GHz	-30.64 dBm	-17.64 dB
13.600 GHz	19.100 GHz	1.000 MHz	17.70055 GHz	-24.42 dBm	-11.42 dB

Date: 5.MAY.2022 07:45:09

Highest Channel



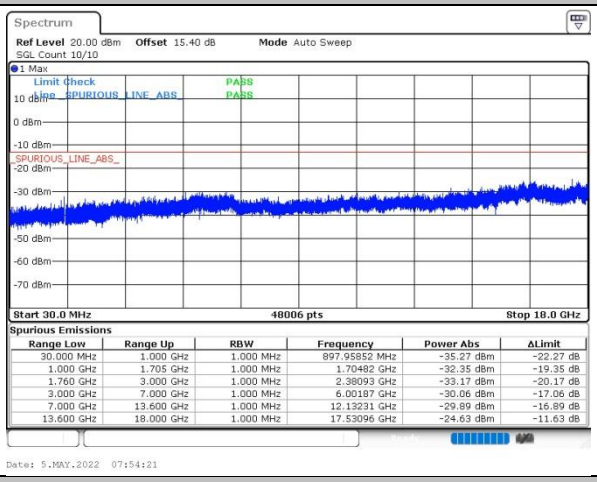
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	40.42229 MHz	-34.69 dBm	-21.69 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.58086 GHz	-34.70 dBm	-21.70 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.95003 GHz	-33.41 dBm	-20.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.72591 GHz	-29.78 dBm	-16.78 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.67394 GHz	-30.00 dBm	-17.00 dB
13.600 GHz	19.100 GHz	1.000 MHz	15.98820 GHz	-25.33 dBm	-12.33 dB

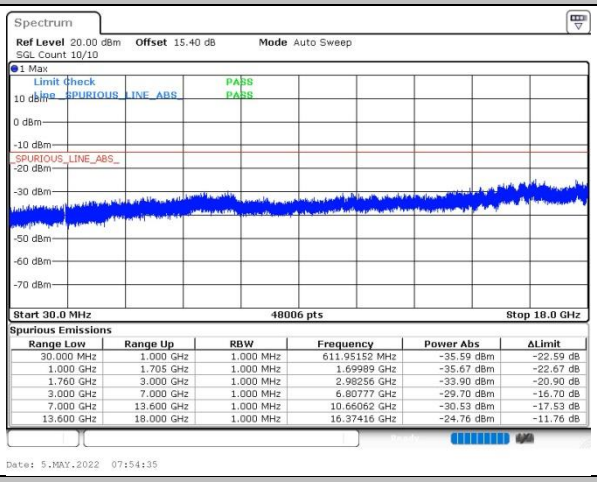
Date: 5.MAY.2022 07:45:42

WCDMA Band IV (RMC 12.2Kbps)

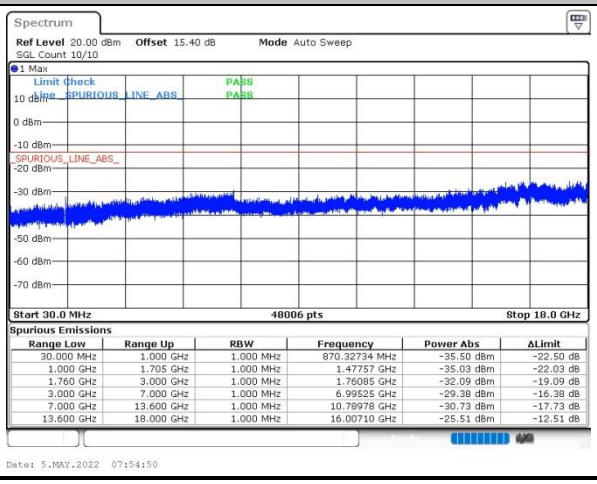
Lowest Channel



Middle Channel



Highest Channel



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	0.0038	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0045	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.026	
20	Battery End Point	0.0033	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0028	
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	0.0046	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0063	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.45V

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 :	Levi Zhao	Temperature :	22~23℃
		Relative Humidity :	41~42%

GSM850 (GPRS 1 Tx slots)								
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	-47.56	-13	-34.56	-54.53	1.58	10.70	H
	2510	-29.31	-13	-16.31	-37.56	2.102	12.50	H
	3348	-51.27	-13	-38.27	-60.16	2.856	13.90	H
	1672	-50.32	-13	-37.32	-57.29	1.58	10.70	V
	2510	-28.73	-13	-15.73	-36.98	2.10	12.50	V
	3348	-46.44	-13	-33.44	-55.33	2.86	13.90	V

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

GSM850 (EDGE 1 Tx slots)								
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	-55.75	-13	-42.75	-62.72	1.58	10.70	H
	2512	-48.64	-13	-35.64	-56.89	2.102	12.50	H
	3344	-59.35	-13	-46.35	-68.24	2.856	13.90	H
	1672	-56.33	-13	-43.33	-63.30	1.58	10.70	V
	2512	-44.38	-13	-31.38	-52.63	2.10	12.50	V
	3344	-58.79	-13	-45.79	-67.68	2.86	13.90	V

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

GSM1900 (GPRS 1 Tx slots)								
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	3759	-53.55	-13	-40.55	-65.81	2.64	14.90	H
	5640	-38.48	-13	-25.48	-50.34	2.94	14.80	H
	7524	-52.95	-13	-39.95	-62.72	3.39	13.16	H
	3759	-56.52	-13	-43.52	-68.78	2.64	14.90	V
	5640	-42.59	-13	-29.59	-54.45	2.94	14.80	V
	7524	-52.85	-13	-39.85	-62.62	3.39	13.16	V

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

GSM1900 (EDGE 1 Tx slots)								
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	-56.20	-13	-43.20	-68.46	2.64	14.90	H
	5640	-47.54	-13	-34.54	-59.40	2.94	14.80	H
	7515	-51.53	-13	-38.53	-61.30	3.39	13.16	H
	3765	-56.45	-13	-43.45	-68.71	2.64	14.90	V
	5640	-51.71	-13	-38.71	-63.57	2.94	14.80	V
	7515	-51.71	-13	-38.71	-61.48	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)								
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	-65.70	-13	-52.70	-72.67	1.58	10.70	H
	2512	-60.44	-13	-47.44	-68.69	2.102	12.50	H
	3344	-59.81	-13	-46.81	-68.70	2.856	13.90	H
	1672	-58.92	-13	-45.92	-65.89	1.58	10.70	V
	2512	-56.59	-13	-43.59	-64.84	2.10	12.50	V
	3344	-58.93	-13	-45.93	-67.82	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)								
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	-54.13	-13	-41.13	-66.39	2.64	14.90	H
	5640	-52.60	-13	-39.60	-64.46	2.94	14.80	H
	7515	-51.80	-13	-38.80	-61.57	3.39	13.16	H
	3765	-55.83	-13	-42.83	-68.09	2.64	14.90	V
	5640	-54.04	-13	-41.04	-65.90	2.94	14.80	V
	7515	-51.63	-13	-38.63	-61.40	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)								
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	-55.94	-13	-42.94	-66.68	2.604	13.34	H
	5190	-54.24	-13	-41.24	-64.75	3.011	13.52	H
	6930	-54.22	-13	-41.22	-64.42	3.271	13.47	H
	3465	-56.58	-13	-43.58	-67.32	2.604	13.34	V
	5190	-53.20	-13	-40.20	-63.71	3.011	13.52	V
	6930	-54.04	-13	-41.04	-64.24	3.271	13.47	V

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