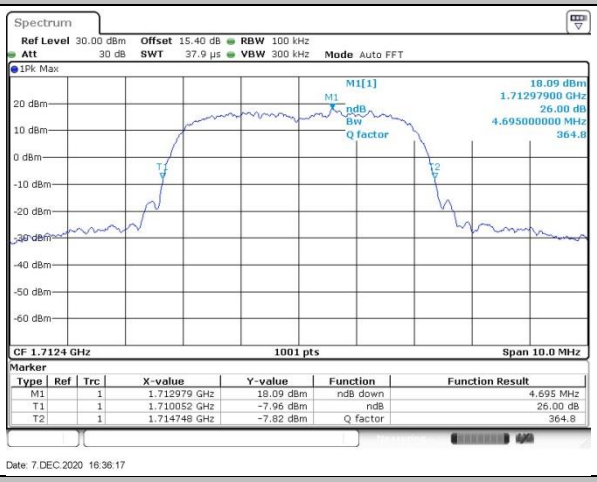
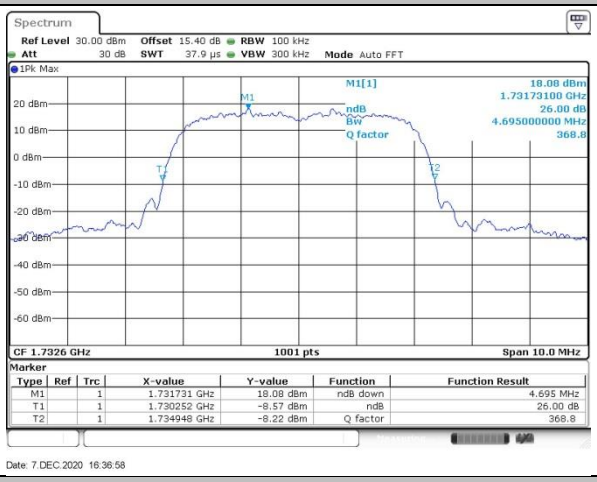
WCDMA Band IV (RMC 12.2Kbps)

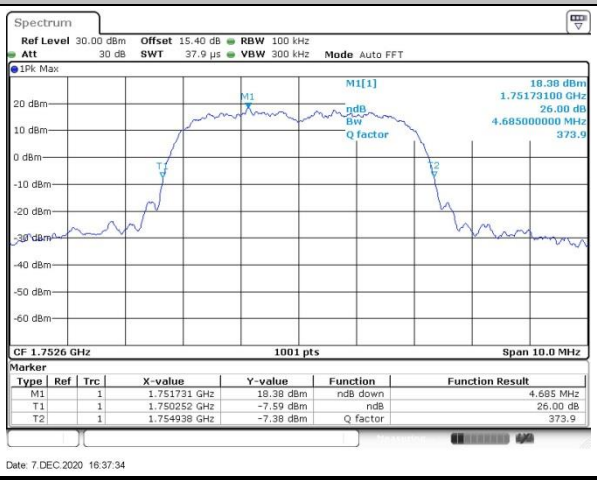
Lowest Channel



Middle Channel

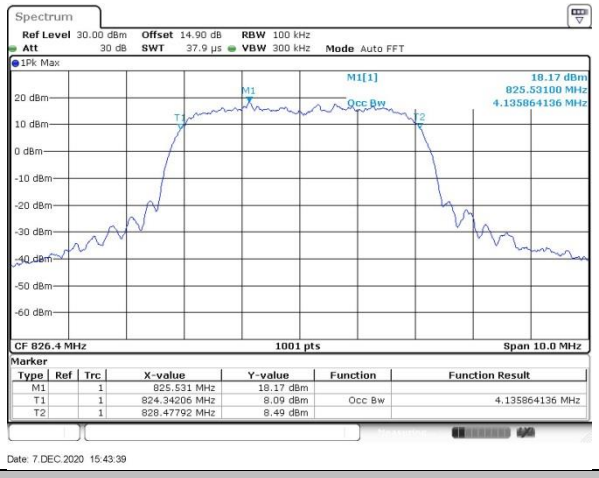
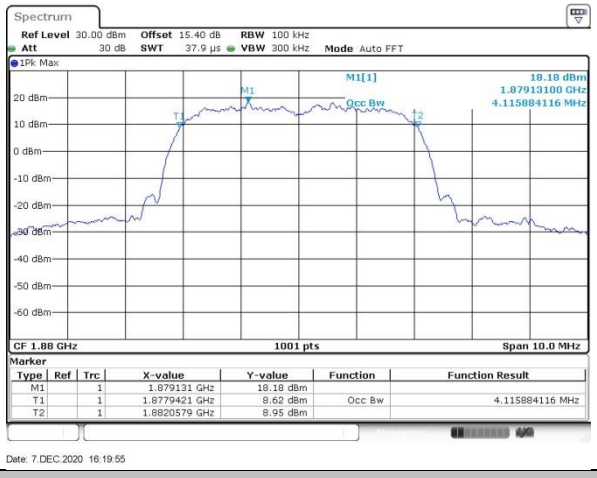
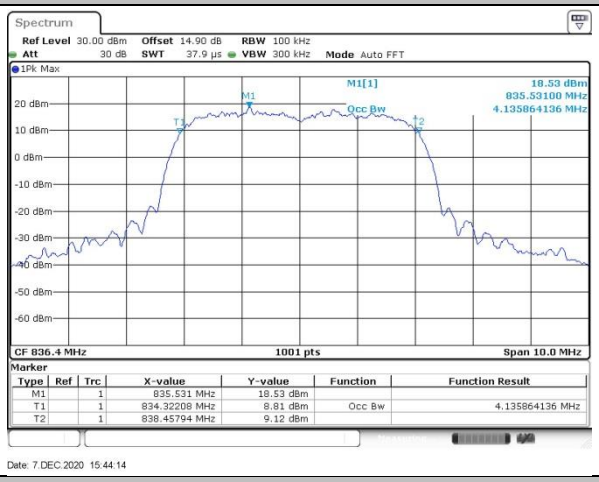
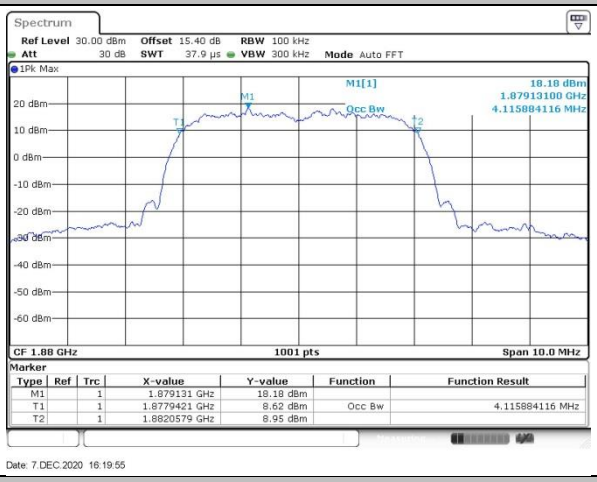
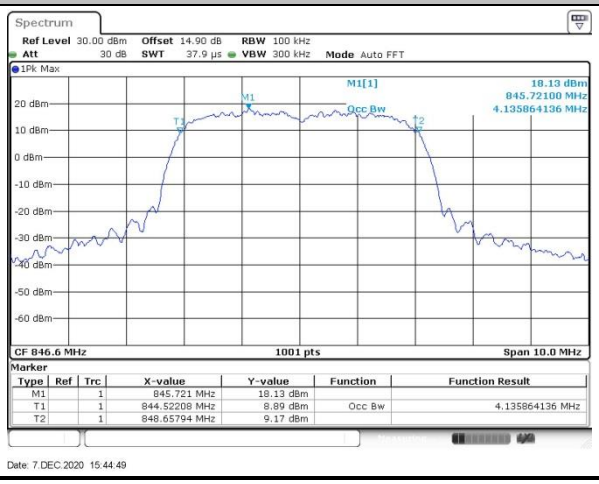
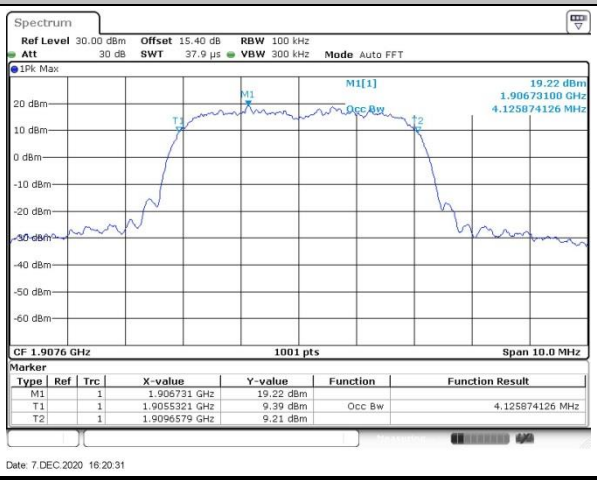


Highest Channel



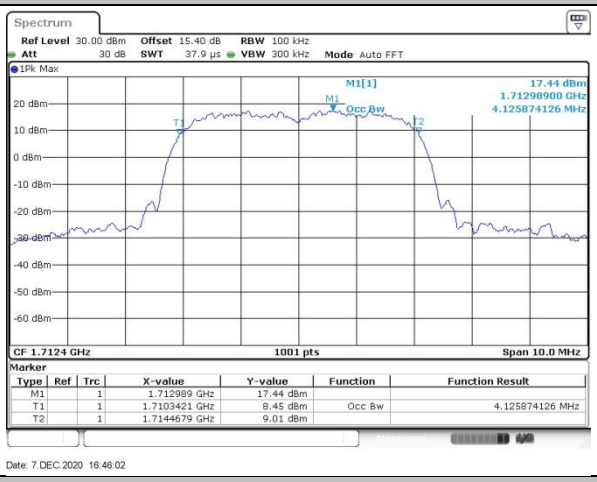
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.13	4.13
Middle CH	4.14	4.12	4.14
Highest CH	4.14	4.13	4.12

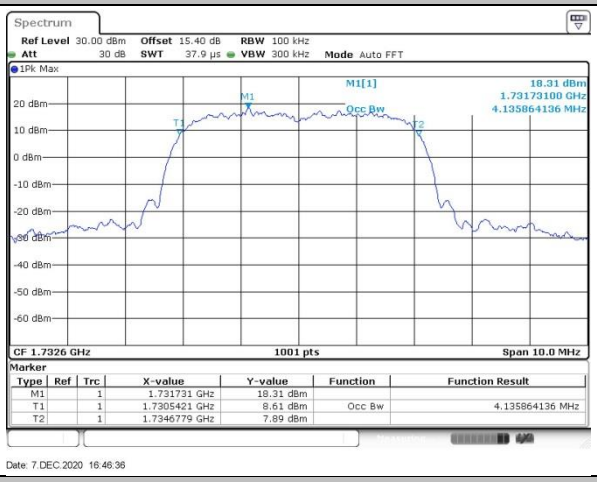
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)

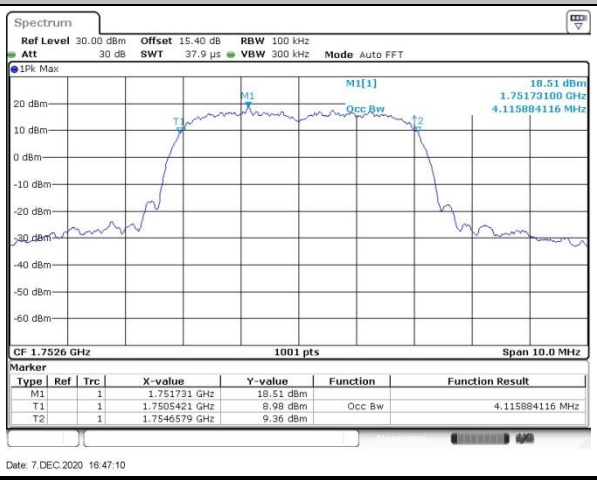
Lowest Channel



Middle Channel



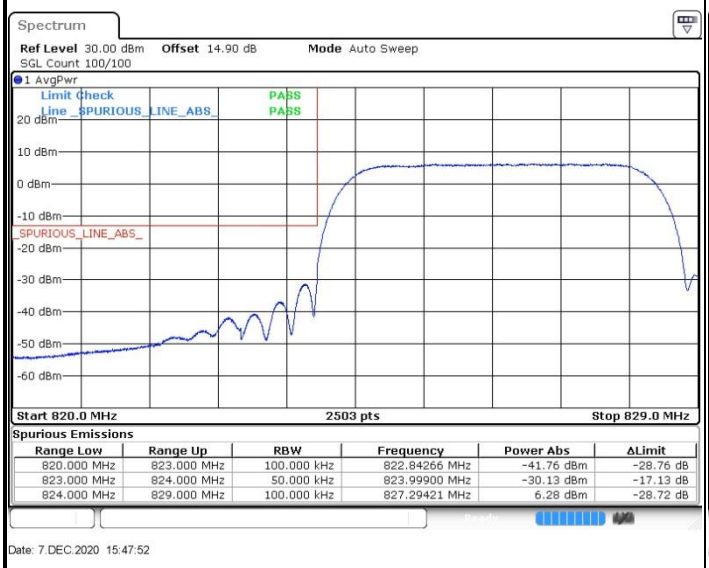
Highest Channel



Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

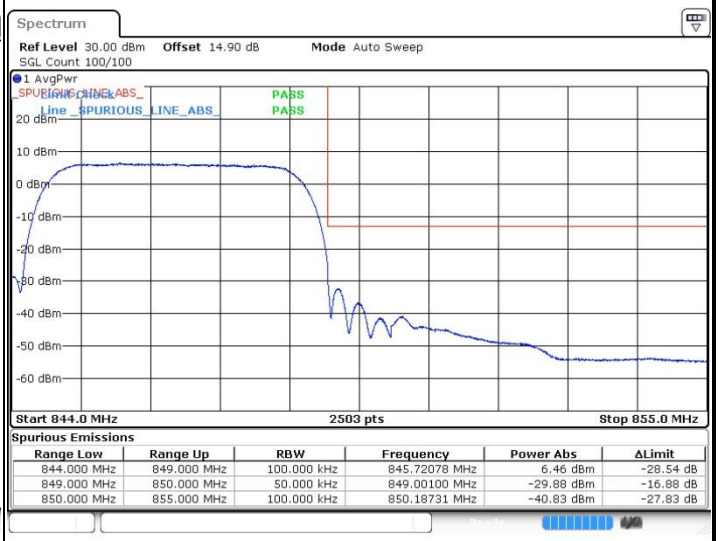


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.84266 MHz	-41.76 dBm	-28.76 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99900 MHz	-30.13 dBm	-17.13 dB
824.000 MHz	829.000 MHz	100.000 kHz	827.29421 MHz	6.28 dBm	-28.72 dB

Date: 7.DEC.2020 15:47:52

Highest Band Edge



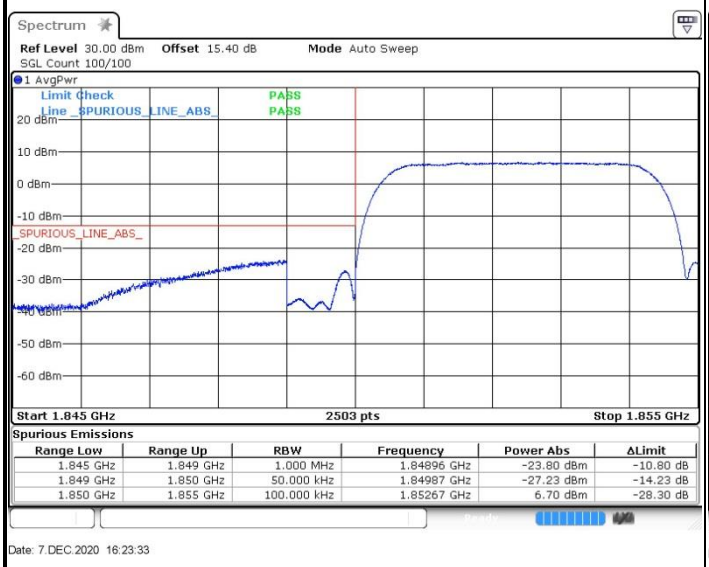
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	845.72078 MHz	6.46 dBm	-28.54 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00100 MHz	-29.88 dBm	-16.88 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.18731 MHz	-40.83 dBm	-27.83 dB

Date: 7.DEC.2020 15:50:41

WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

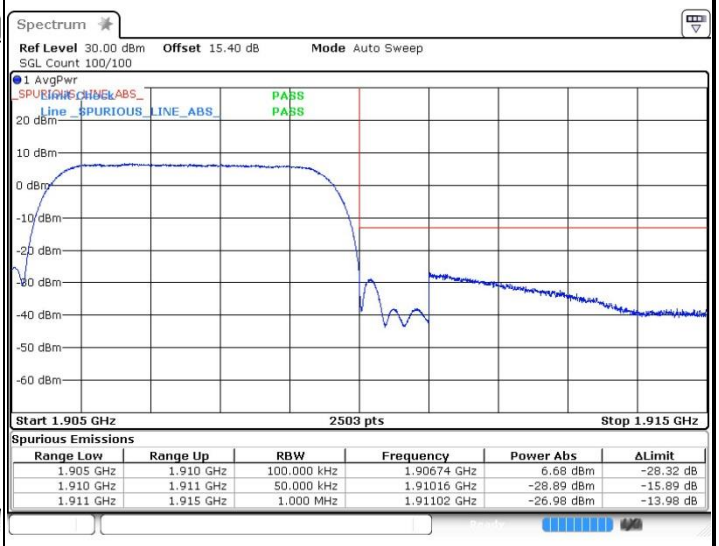


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-23.80 dBm	-10.80 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.84987 GHz	-27.23 dBm	-14.23 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85267 GHz	6.70 dBm	-28.30 dB

Date: 7.DEC.2020 16:23:33

Highest Band Edge

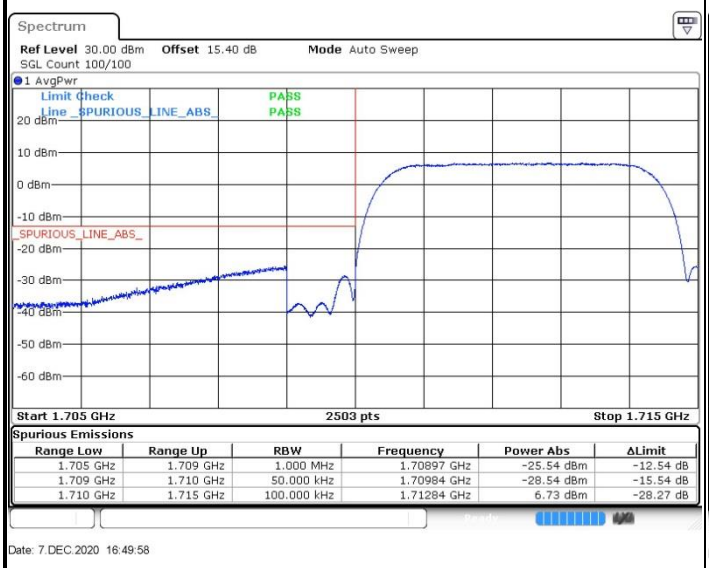


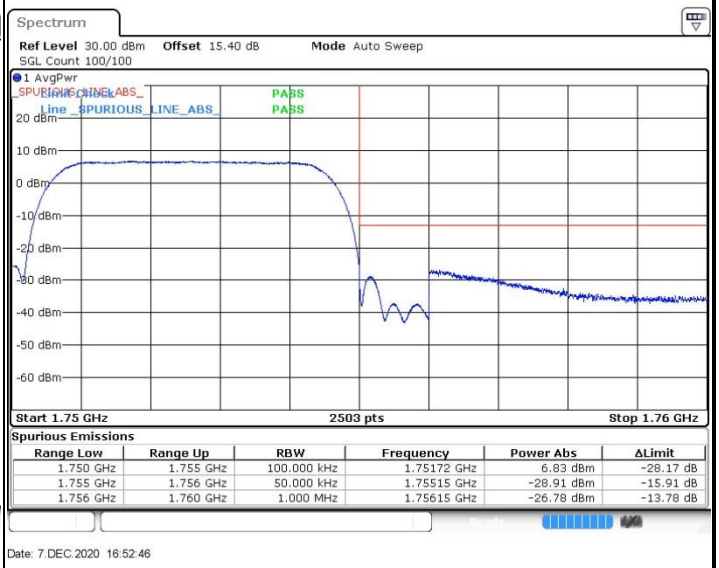
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90674 GHz	6.68 dBm	-28.32 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91016 GHz	-28.89 dBm	-15.89 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91102 GHz	-26.98 dBm	-13.98 dB

Date: 7.DEC.2020 16:26:28

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

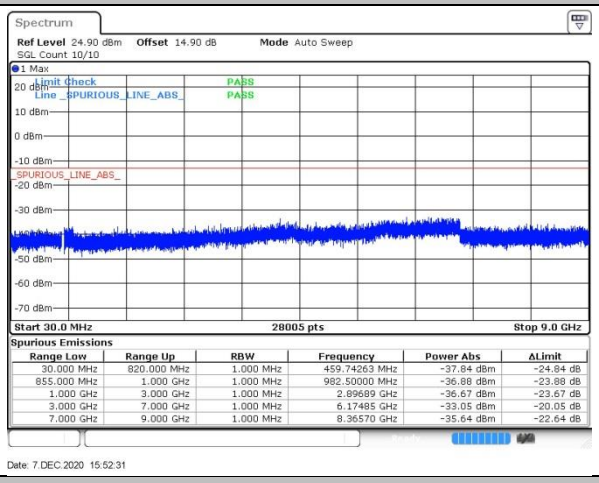




Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

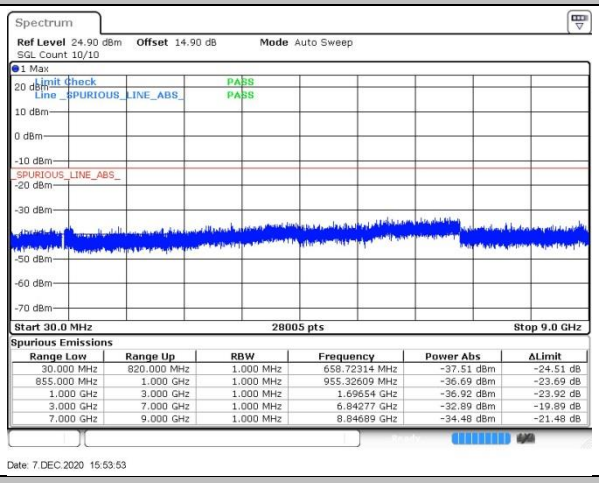
Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	459.74263 MHz	-37.84 dBm	-24.84 dB
855.000 MHz	1.000 GHz	1.000 MHz	982.50000 MHz	-36.88 dBm	-23.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.89689 GHz	-36.67 dBm	-23.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.17485 GHz	-33.05 dBm	-20.05 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.36570 GHz	-35.64 dBm	-22.64 dB

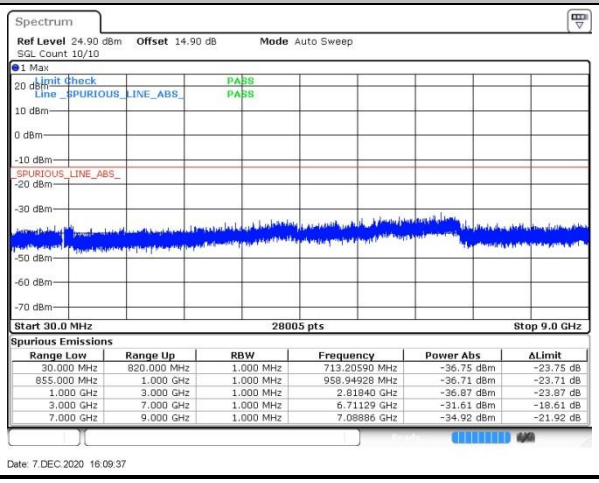
Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	658.72314 MHz	-37.51 dBm	-24.51 dB
855.000 MHz	1.000 GHz	1.000 MHz	955.32609 MHz	-36.69 dBm	-23.69 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69654 GHz	-36.92 dBm	-23.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84277 GHz	-32.89 dBm	-19.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.84689 GHz	-34.48 dBm	-21.48 dB

Highest Channel

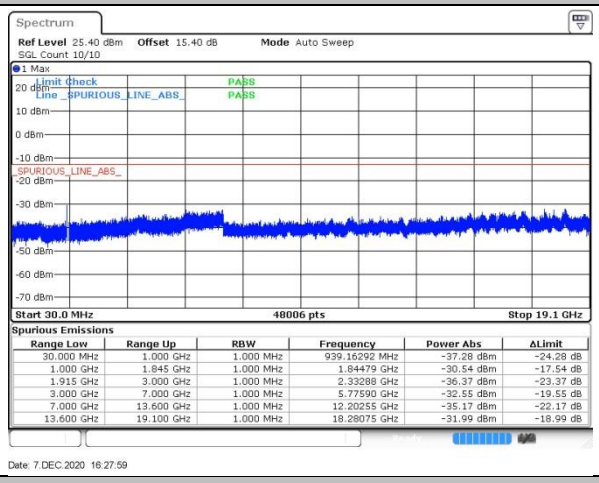


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	713.20590 MHz	-36.75 dBm	-23.75 dB
855.000 MHz	1.000 GHz	1.000 MHz	958.94928 MHz	-36.71 dBm	-23.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.81840 GHz	-36.87 dBm	-23.87 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.71129 GHz	-31.61 dBm	-18.61 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.08886 GHz	-34.92 dBm	-21.92 dB

WCDMA Band II (RMC 12.2Kbps)

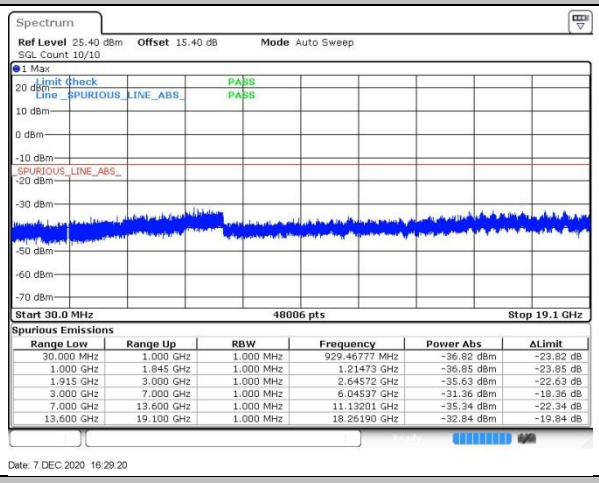
Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	939.16292 MHz	-37.28 dBm	-24.28 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.84479 GHz	-30.54 dBm	-17.54 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.33288 GHz	-36.37 dBm	-23.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.77590 GHz	-32.55 dBm	-19.55 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.20255 GHz	-35.17 dBm	-22.17 dB
13.600 GHz	19.100 GHz	1.000 MHz	18.28075 GHz	-31.99 dBm	-18.99 dB

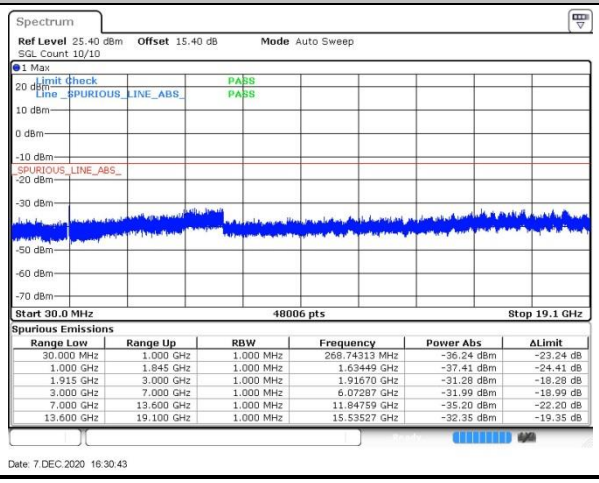
Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	929.46777 MHz	-36.82 dBm	-23.82 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.21473 GHz	-36.85 dBm	-23.85 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.64572 GHz	-35.63 dBm	-22.63 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.04537 GHz	-31.36 dBm	-18.36 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.13201 GHz	-35.34 dBm	-22.34 dB
13.600 GHz	19.100 GHz	1.000 MHz	18.26190 GHz	-32.84 dBm	-19.84 dB

Highest Channel

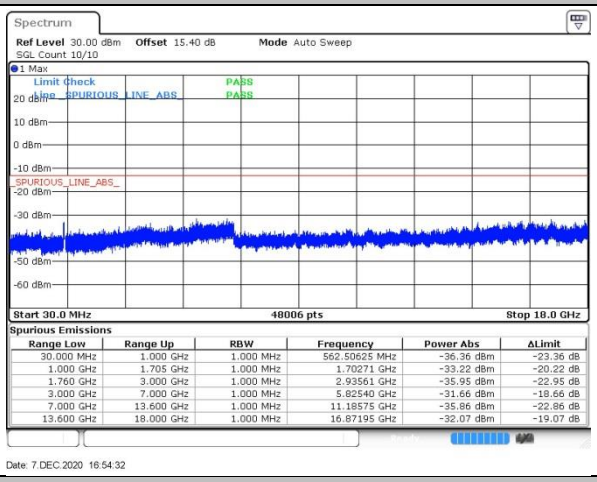


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	268.74313 MHz	-36.24 dBm	-23.24 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.63449 GHz	-37.41 dBm	-24.41 dB
1.915 GHz	3.000 GHz	1.000 MHz	1.91670 GHz	-31.28 dBm	-18.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.07287 GHz	-31.99 dBm	-18.99 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.84759 GHz	-35.20 dBm	-22.20 dB
13.600 GHz	19.100 GHz	1.000 MHz	15.53527 GHz	-32.35 dBm	-19.35 dB

=WCDMA Band IV (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	562.50625 MHz	-36.36 dBm	-23.36 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.70271 GHz	-33.22 dBm	-20.22 dB
1.760 GHz	3.000 GHz	1.000 MHz	2.93561 GHz	-35.95 dBm	-22.95 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.82540 GHz	-31.66 dBm	-18.66 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.18575 GHz	-35.86 dBm	-22.86 dB
13.600 GHz	18.000 GHz	1.000 MHz	16.87195 GHz	-32.07 dBm	-19.07 dB

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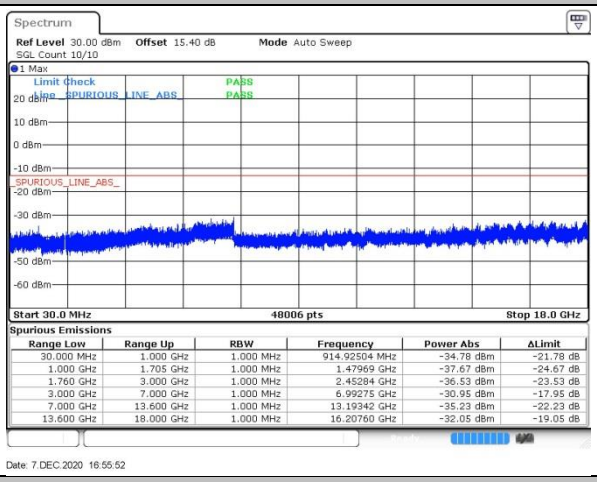
Middle Channel

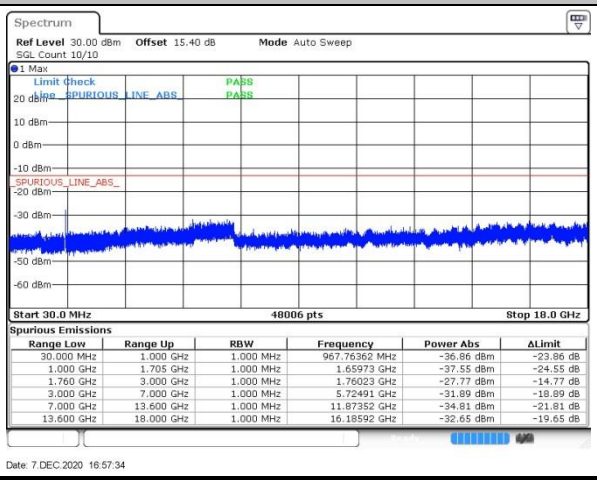


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	914.92504 MHz	-34.78 dBm	-21.78 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.47969 GHz	-37.67 dBm	-24.67 dB
1.760 GHz	3.000 GHz	1.000 MHz	2.45284 GHz	-36.53 dBm	-23.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99275 GHz	-30.95 dBm	-17.95 dB
7.000 GHz	13.600 GHz	1.000 MHz	13.19342 GHz	-35.23 dBm	-22.23 dB
13.600 GHz	18.000 GHz	1.000 MHz	16.20760 GHz	-32.05 dBm	-19.05 dB

Date: 7.DEC.2020 16:55:52

Highest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	967.76362 MHz	-36.86 dBm	-23.86 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.65973 GHz	-37.55 dBm	-24.55 dB
1.760 GHz	3.000 GHz	1.000 MHz	1.76023 GHz	-27.77 dBm	-14.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.72491 GHz	-31.89 dBm	-18.89 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.87352 GHz	-34.81 dBm	-21.81 dB
13.600 GHz	18.000 GHz	1.000 MHz	16.18592 GHz	-32.65 dBm	-19.65 dB

Date: 7.DEC.2020 16:57:34

Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0263	PASS
40	Normal Voltage	0.0234	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0278	
0	Normal Voltage	0.0243	
-10	Normal Voltage	0.0068	
-20	Normal Voltage	0.0273	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0255	
20	Battery End Point	0.0088	

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

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0096	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0174	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0143	
-20	Normal Voltage	0.0159	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0118	
20	Normal Voltage	0.0122	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45V
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	0.0035	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0150	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0127	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0144	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0133	
20	Battery End Point	0.0035	

Note:

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

4. 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

GSM850 (GSM)								
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	-52.68	-13	-39.68	-59.65	1.58	10.70	H
	2510	-40.03	-13	-27.03	-48.28	2.102	12.50	H
	3348	-58.89	-13	-45.89	-67.78	2.856	13.90	H
	1672	-48.30	-13	-35.30	-55.27	1.58	10.70	V
	2508	-40.34	-13	-27.34	-48.59	2.10	12.50	V
	3348	-60.20	-13	-47.20	-69.09	2.86	13.90	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-50.99	-13	-37.99	-57.96	1.58	10.70	H
	2510	-41.74	-13	-28.74	-49.99	2.102	12.50	H
	3330	-60.86	-13	-47.86	-69.75	2.856	13.90	H
	1672	-48.91	-13	-35.91	-55.88	1.58	10.70	V
	2510	-38.97	-13	-25.97	-47.22	2.10	12.50	V
	3330	-61.15	-13	-48.15	-70.04	2.86	13.90	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-57.08	-13	-44.08	-69.34	2.641	14.90	H
	5640	-54.24	-13	-41.24	-66.10	2.94	14.80	H
	7524	-52.96	-13	-39.96	-62.73	3.39	13.16	H
	3759	-57.05	-13	-44.05	-69.31	2.64	14.90	V
	5640	-55.28	-13	-42.28	-67.14	2.94	14.80	V
	7524	-52.76	-13	-39.76	-62.53	3.39	13.16	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-56.91	-13	-43.91	-69.17	2.641	14.90	H
	5640	-54.81	-13	-41.81	-66.67	2.94	14.80	H
	7524	-52.96	-13	-39.96	-62.73	3.39	13.16	H
	3759	-56.93	-13	-43.93	-69.19	2.64	14.90	V
	5640	-55.63	-13	-42.63	-67.49	2.94	14.80	V
	7524	-52.77	-13	-39.77	-62.54	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	-64.70	-13	-51.70	-71.67	1.58	10.70	H
	2510	-60.05	-13	-47.05	-68.30	2.102	12.50	H
	3348	-60.54	-13	-47.54	-69.43	2.856	13.90	H
	1672	-63.39	-13	-50.39	-70.36	1.58	10.70	V
	2510	-59.25	-13	-46.25	-67.50	2.10	12.50	V
	3348	-60.45	-13	-47.45	-69.34	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	3759	-56.39	-13	-43.39	-68.65	2.641	14.90	H
	5640	-54.84	-13	-41.84	-66.70	2.94	14.80	H
	7524	-53.15	-13	-40.15	-62.92	3.39	13.16	H
	3759	-56.77	-13	-43.77	-69.03	2.64	14.90	V
	5640	-55.64	-13	-42.64	-67.50	2.94	14.80	V
	7524	-53.15	-13	-40.15	-62.92	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	-54.39	-13	-41.39	-65.13	2.604	13.34	H
	5199	-50.14	-13	-37.14	-60.65	3.011	13.52	H
	6936	-54.05	-13	-41.05	-64.25	3.271	13.47	H
	3465	-53.79	-13	-40.79	-64.53	2.604	13.34	V
	5199	-51.79	-13	-38.79	-62.30	3.011	13.52	V
	6936	-54.61	-13	-41.61	-64.81	3.271	13.47	V

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