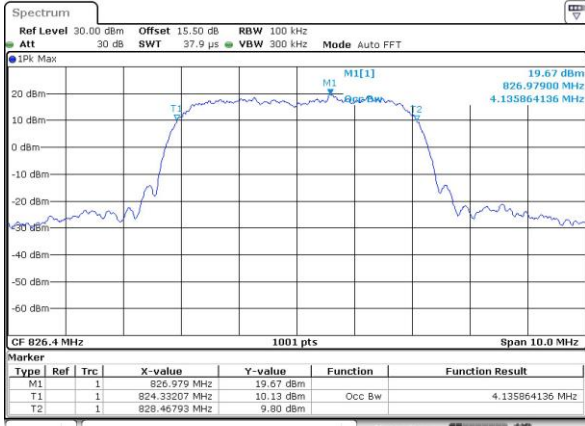




WCDMA Band V (RMC 12.2Kbps)

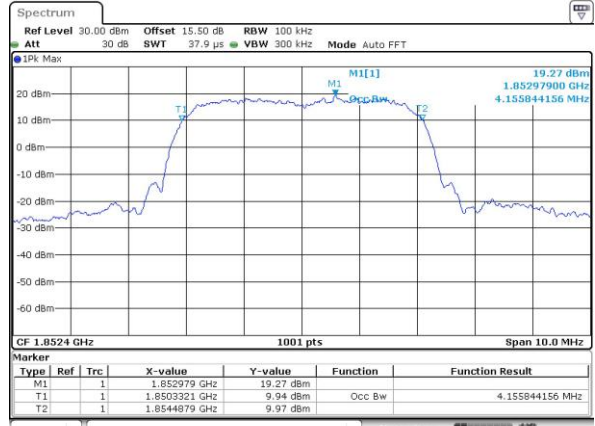
Lowest Channel



Date: 29 JUN 2022 21:41:40

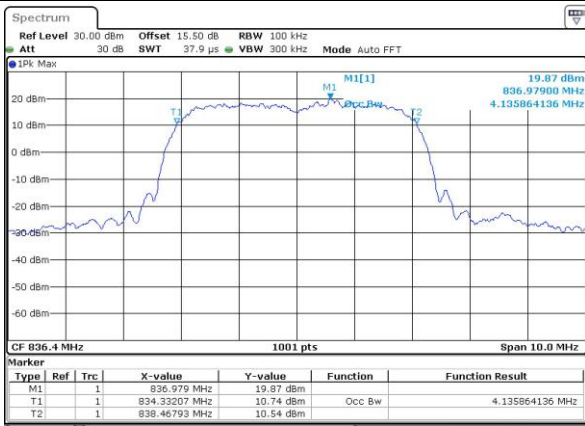
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



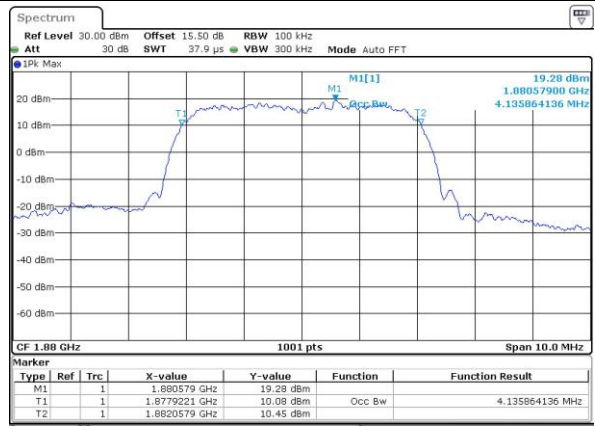
Date: 29 JUN 2022 21:50:42

Middle Channel



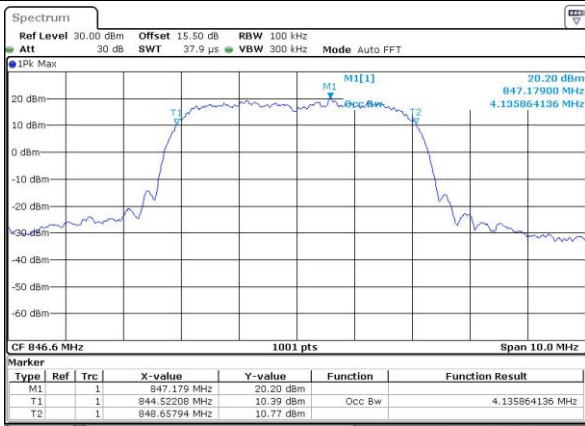
Date: 29 JUN 2022 21:42:04

Middle Channel



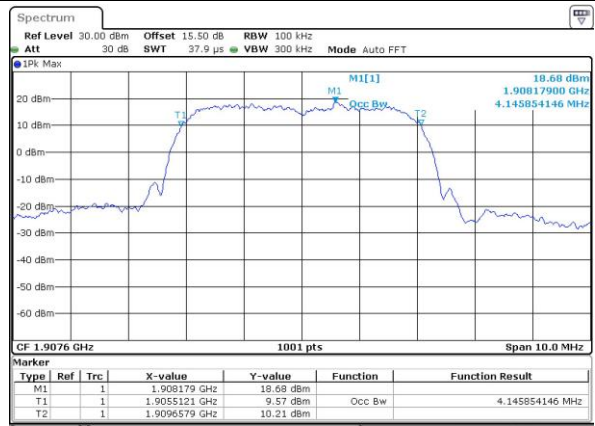
Date: 29 JUN 2022 21:51:06

Highest Channel

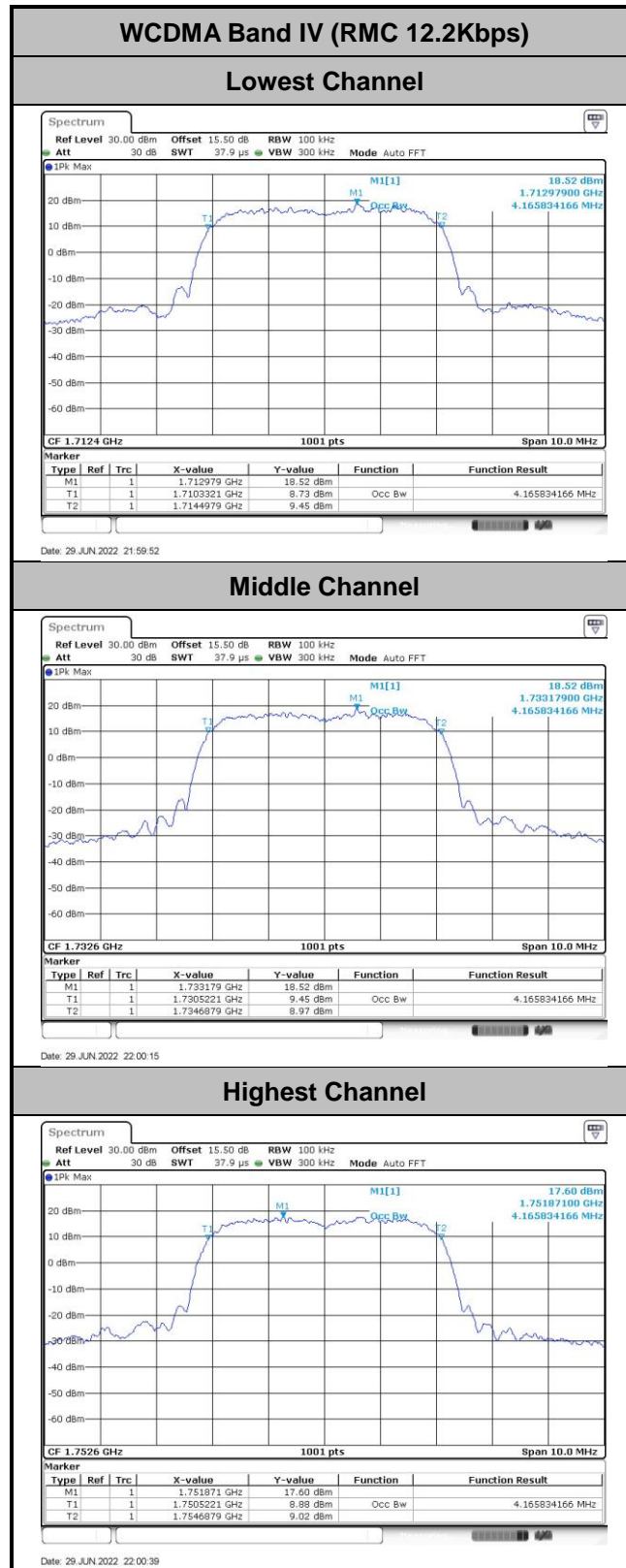


Date: 29 JUN 2022 21:42:29

Highest Channel

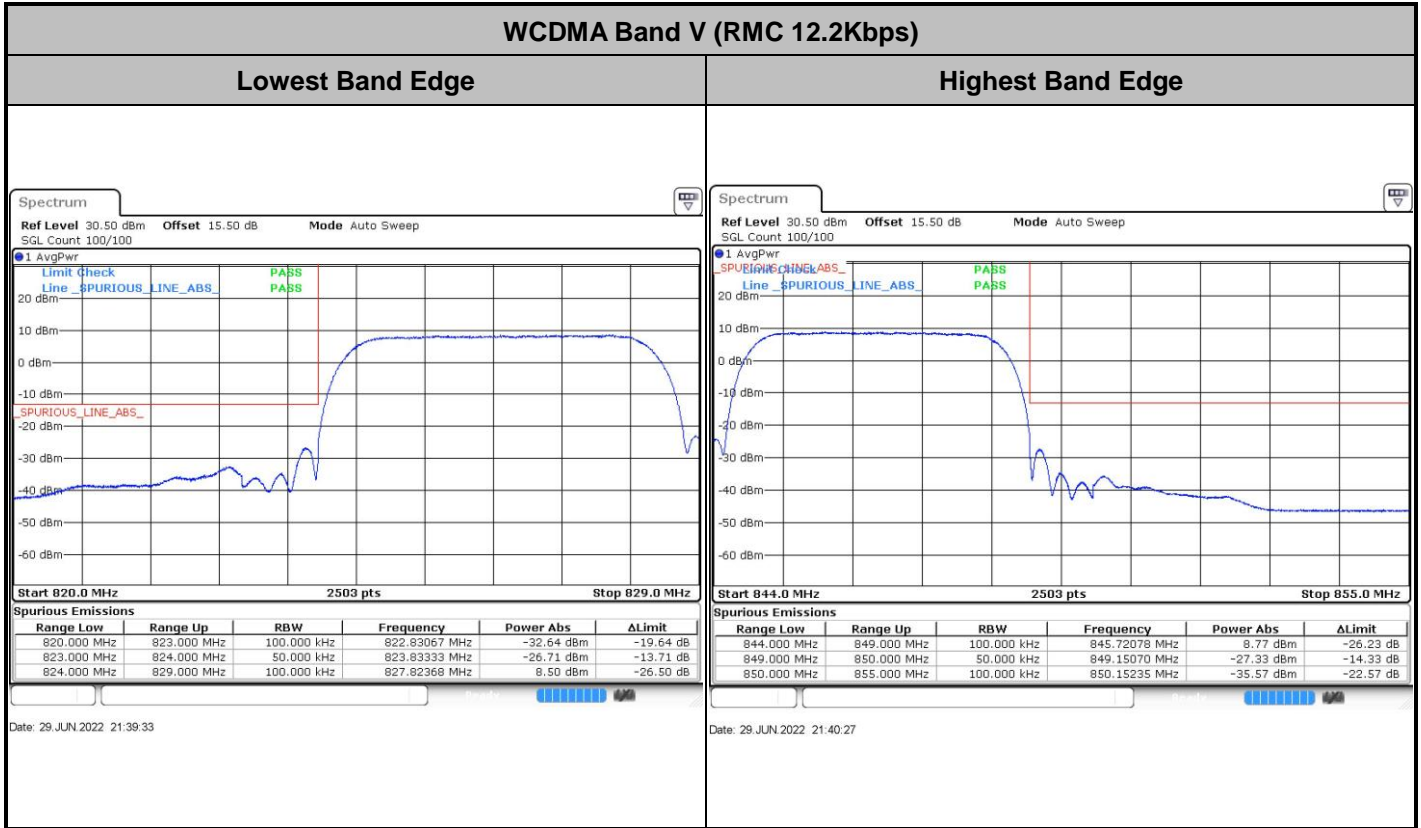


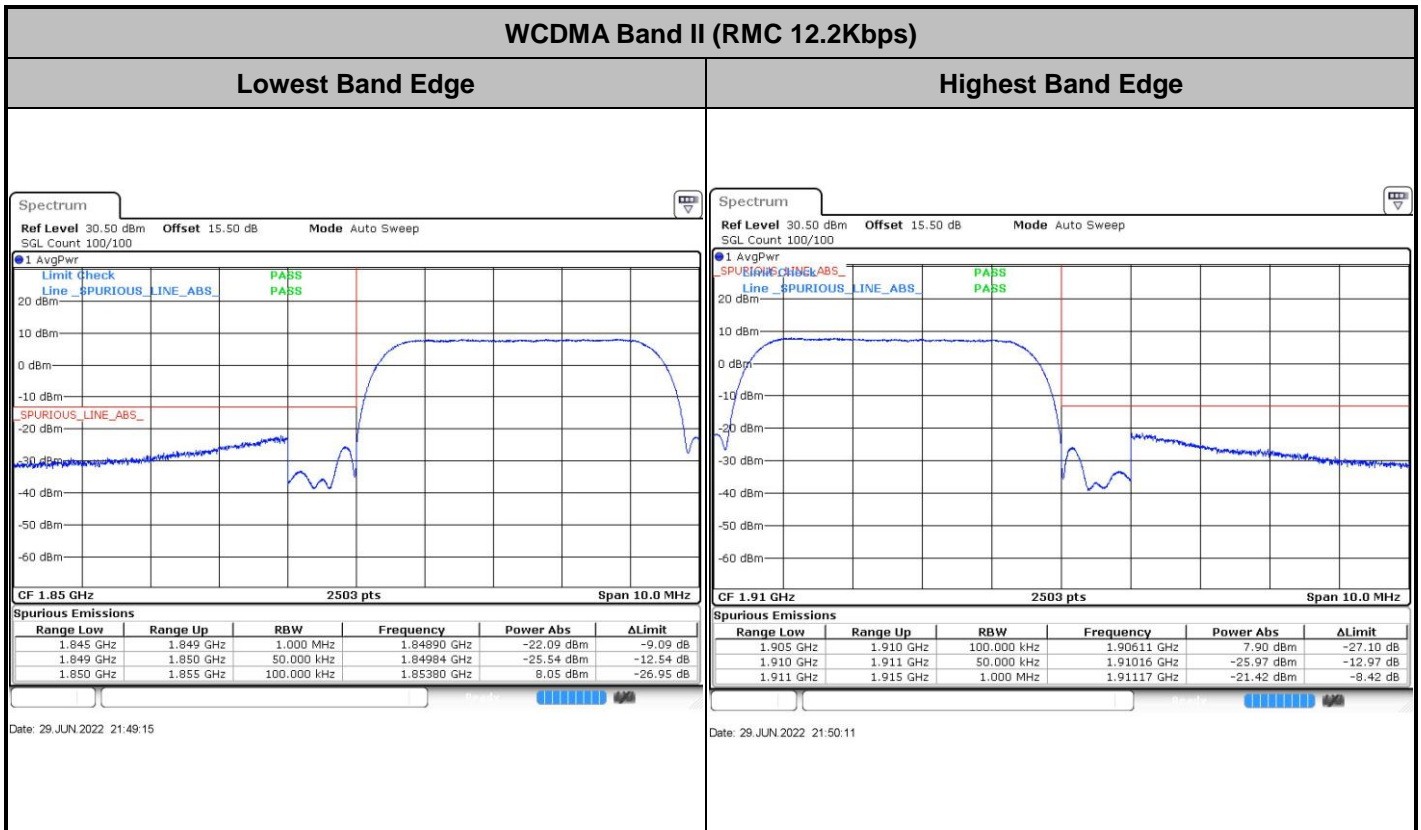
Date: 29 JUN 2022 21:51:31

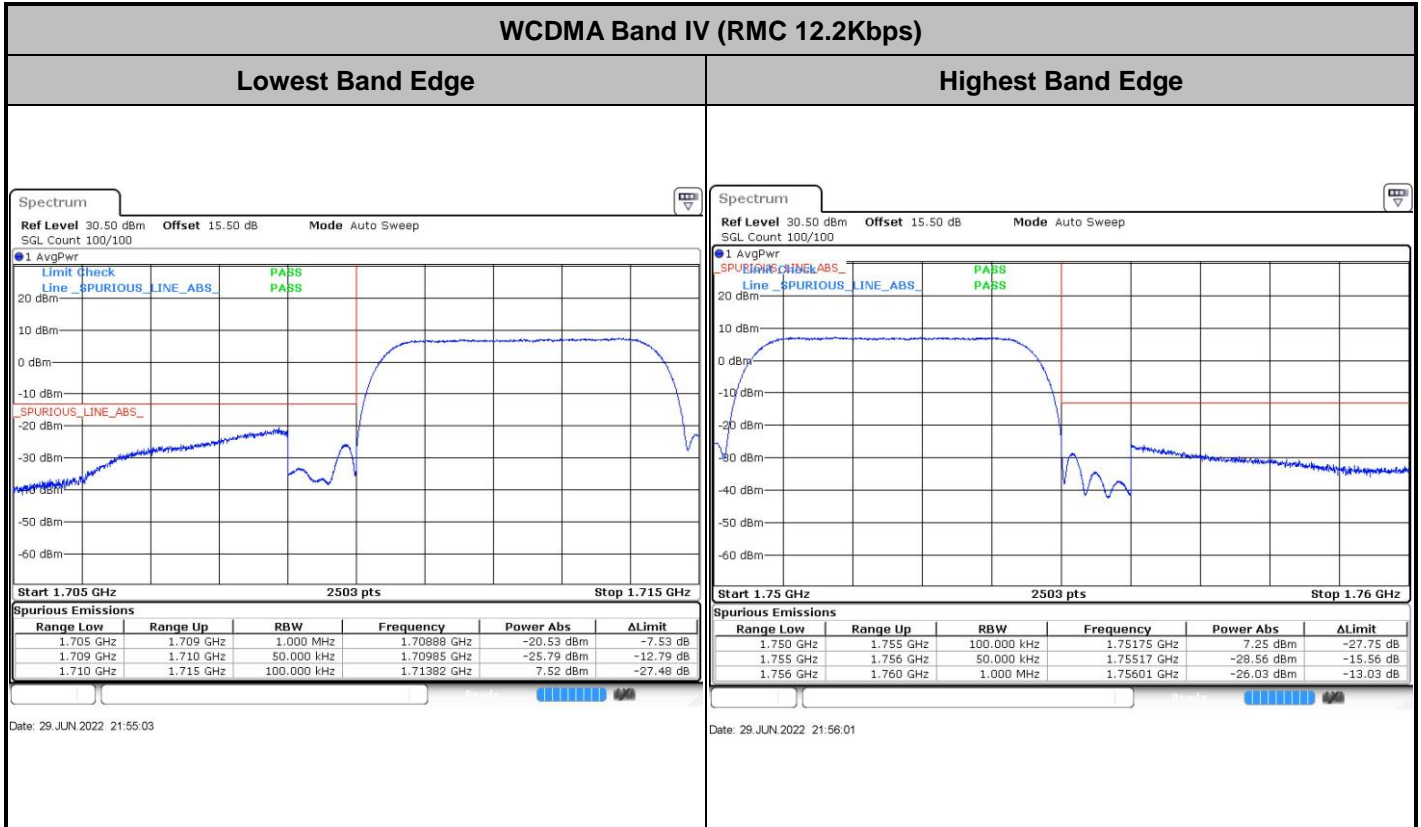




Conducted Band Edge

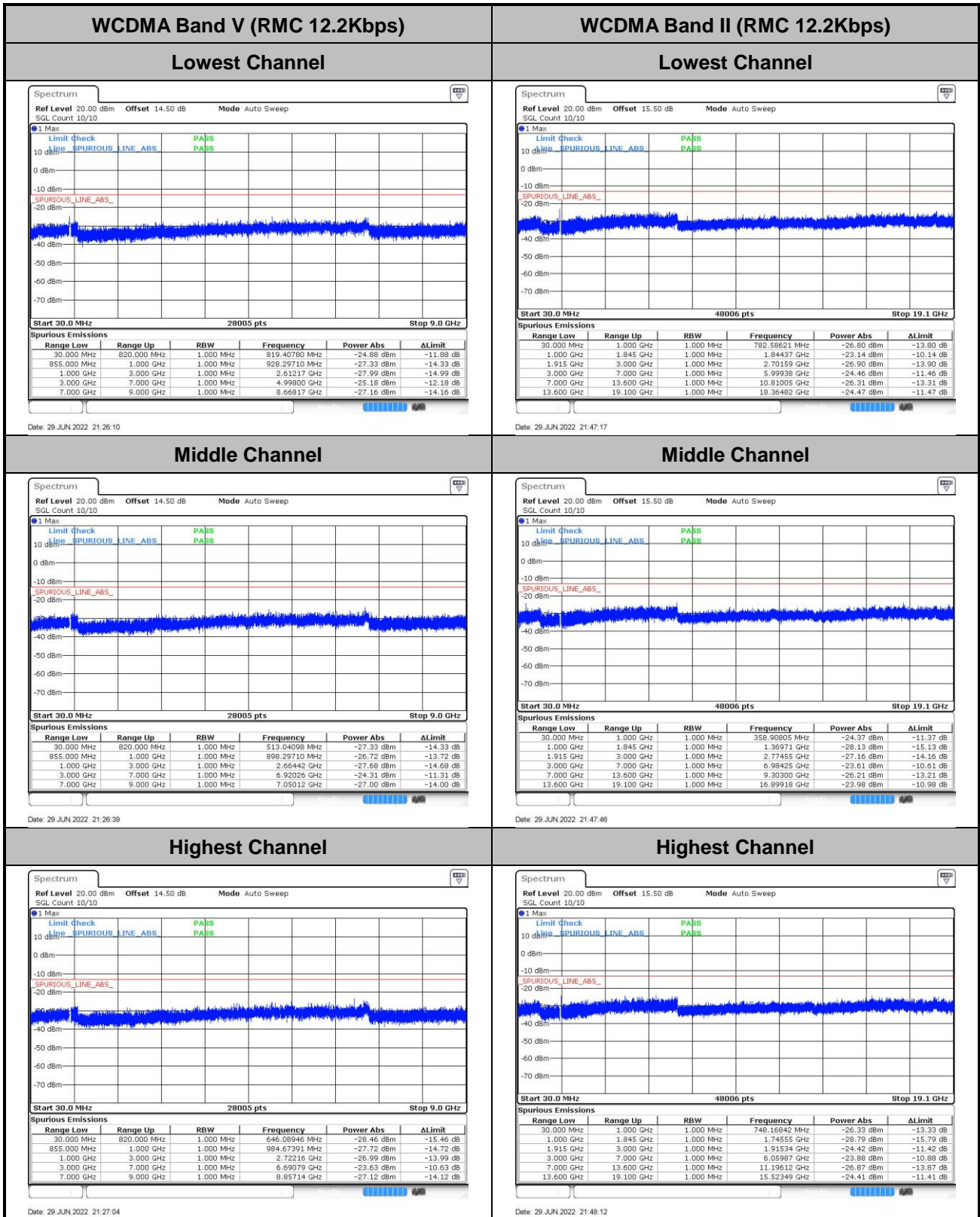








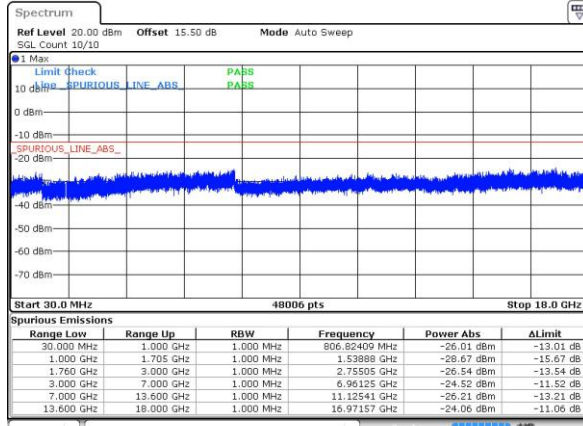
Conducted Spurious Emission





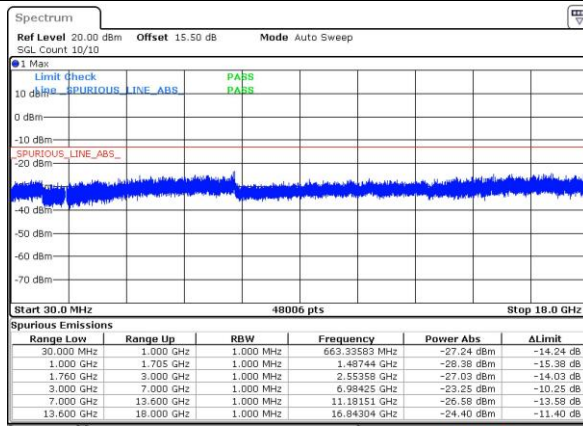
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



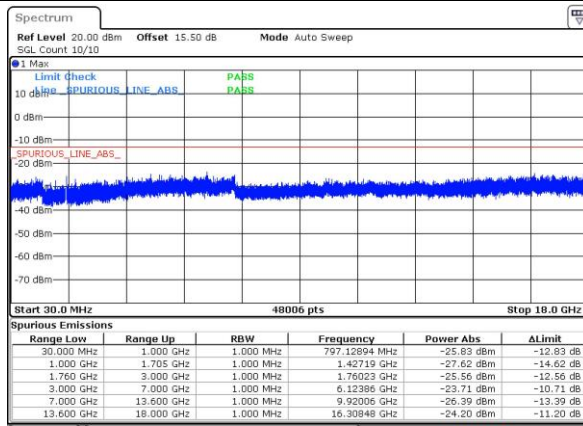
Date: 29 JUN 2022 21:57:54

Middle Channel



Date: 29 JUN 2022 21:58:42

Highest Channel



Date: 29 JUN 2022 21:59:09



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	0.0016	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0042	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0084	
0	Normal Voltage	0.0097	
-10	Normal Voltage	0.0099	
20	Maximum Voltage	0.0100	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0078	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0040	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage = 3.89V. ; Battery End Point (BEP) = 3.65 V. ; Maximum Voltage =4.35V
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	0.0003	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0018	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = 3.89V. ; Battery End Point (BEP) = 3.65 V. ; Maximum Voltage =4.35V
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 :	Simle Wang	Temperature :	23~25°C
		Relative Humidity :	41~42%

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)
Lowest	1648	-55.32	-13	-42.32	-62.29	1.58	10.70	H
	2472	-37.05	-13	-24.05	-45.30	2.102	12.50	H
	3296	-59.82	-13	-46.82	-68.71	2.856	13.90	H
	1648	-57.37	-13	-44.37	-64.34	1.58	10.70	V
	2472	-37.47	-13	-24.47	-45.72	2.10	12.50	V
	3296	-59.59	-13	-46.59	-68.48	2.86	13.90	V
Middle	1672	-56.52	-13	-43.52	-63.49	1.58	10.70	H
	2508	-34.21	-13	-21.21	-42.46	2.102	12.50	H
	3348	-60.48	-13	-47.48	-69.37	2.856	13.90	H
	1672	-56.73	-13	-43.73	-63.70	1.58	10.70	V
	2508	-33.01	-13	-20.01	-41.26	2.10	12.50	V
	3348	-60.21	-13	-47.21	-69.10	2.86	13.90	V
Highest	1696	-56.06	-13	-43.06	-63.03	1.58	10.70	H
	2544	-35.27	-13	-22.27	-43.52	2.102	12.50	H
	3392	-59.41	-13	-46.41	-68.30	2.856	13.90	H
	1696	-52.28	-13	-39.28	-59.25	1.58	10.70	V
	2544	-35.88	-13	-22.88	-44.13	2.10	12.50	V
	3392	-59.62	-13	-46.62	-68.51	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)
Lowest	1648	-56.73	-13	-43.73	-63.70	1.58	10.70	H
	2472	-40.36	-13	-27.36	-48.61	2.102	12.50	H
	3296	-60.19	-13	-47.19	-69.08	2.856	13.90	H
	1648	-58.47	-13	-45.47	-65.44	1.58	10.70	V
	2472	-38.82	-13	-25.82	-47.07	2.10	12.50	V
	3296	-60.02	-13	-47.02	-68.91	2.86	13.90	V
Middle	1672	-54.59	-13	-41.59	-61.56	1.58	10.70	H
	2512	-35.62	-13	-22.62	-43.87	2.102	12.50	H
	3344	-59.96	-13	-46.96	-68.85	2.856	13.90	H
	1672	-57.92	-13	-44.92	-64.89	1.58	10.70	V
	2512	-34.84	-13	-21.84	-43.09	2.10	12.50	V
	3344	-60.27	-13	-47.27	-69.16	2.86	13.90	V
Highest	1696	-58.46	-13	-45.46	-65.43	1.58	10.70	H
	2544	-35.67	-13	-22.67	-43.92	2.102	12.50	H
	3392	-59.50	-13	-46.50	-68.39	2.856	13.90	H
	1696	-52.86	-13	-39.86	-59.83	1.58	10.70	V
	2544	-34.40	-13	-21.40	-42.65	2.10	12.50	V
	3392	-60.05	-13	-47.05	-68.94	2.86	13.90	V

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

GSM1900 (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)
Lowest	3705	-56.75	-13	-43.75	-69.01	2.64	14.90	H
	5550	-49.28	-13	-36.28	-61.14	2.94	14.80	H
	7395	-52.16	-13	-39.16	-61.93	3.39	13.16	H
	3705	-56.13	-13	-43.13	-68.39	2.64	14.90	V
	5550	-44.81	-13	-31.81	-56.67	2.94	14.80	V
	7395	-52.22	-13	-39.22	-61.99	3.39	13.16	V
Middle	3765	-56.16	-13	-43.16	-68.42	2.64	14.90	H
	5640	-49.85	-13	-36.85	-61.71	2.94	14.80	H
	7515	-51.77	-13	-38.77	-61.54	3.39	13.16	H
	3765	-55.26	-13	-42.26	-67.52	2.64	14.90	V
	5640	-41.21	-13	-28.21	-53.07	2.94	14.80	V
	7515	-51.64	-13	-38.64	-61.41	3.39	13.16	V
Highest	3825	-57.13	-13	-44.13	-69.39	2.64	14.90	H
	5730	-49.16	-13	-36.16	-61.02	2.94	14.80	H
	7635	-51.74	-13	-38.74	-61.51	3.39	13.16	H
	3825	-56.09	-13	-43.09	-68.35	2.64	14.90	V
	5730	-41.10	-13	-28.10	-52.96	2.94	14.80	V
	7635	-51.60	-13	-38.60	-61.37	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)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-56.56	-13	-43.56	-68.82	2.64	14.90	H
	5550	-51.54	-13	-38.54	-63.40	2.94	14.80	H
	7395	-52.62	-13	-39.62	-62.39	3.39	13.16	H
	3705	-56.73	-13	-43.73	-68.99	2.64	14.90	V
	5550	-42.77	-13	-29.77	-54.63	2.94	14.80	V
	7395	-52.47	-13	-39.47	-62.24	3.39	13.16	V
Middle	3765	-56.30	-13	-43.30	-68.56	2.64	14.90	H
	5640	-47.86	-13	-34.86	-59.72	2.94	14.80	H
	7515	-52.01	-13	-39.01	-61.78	3.39	13.16	H
	3765	-55.53	-13	-42.53	-67.79	2.64	14.90	V
	5640	-40.79	-13	-27.79	-52.65	2.94	14.80	V
	7515	-52.48	-13	-39.48	-62.25	3.39	13.16	V
Highest	3825	-56.61	-13	-43.61	-68.87	2.64	14.90	H
	5730	-51.50	-13	-38.50	-63.36	2.94	14.80	H
	7635	-51.83	-13	-38.83	-61.60	3.39	13.16	H
	3825	-56.47	-13	-43.47	-68.73	2.64	14.90	V
	5730	-42.20	-13	-29.20	-54.06	2.94	14.80	V
	7635	-52.21	-13	-39.21	-61.98	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)
Lowest	1656	-64.61	-13	-51.61	-71.58	1.58	10.70	H
	2480	-57.59	-13	-44.59	-65.84	2.102	12.50	H
	3304	-60.30	-13	-47.30	-69.19	2.856	13.90	H
	1656	-64.62	-13	-51.62	-71.59	1.58	10.70	V
	2480	-58.04	-13	-45.04	-66.29	2.10	12.50	V
	3304	-60.70	-13	-47.70	-69.59	2.86	13.90	V
Middle	1672	-65.57	-13	-52.57	-72.54	1.58	10.70	H
	2512	-58.48	-13	-45.48	-66.73	2.102	12.50	H
	3344	-60.20	-13	-47.20	-69.09	2.856	13.90	H
	1672	-64.35	-13	-51.35	-71.32	1.58	10.70	V
	2512	-58.71	-13	-45.71	-66.96	2.10	12.50	V
	3344	-60.09	-13	-47.09	-68.98	2.86	13.90	V
Highest	1696	-65.59	-13	-52.59	-72.56	1.58	10.70	H
	2536	-58.74	-13	-45.74	-66.99	2.102	12.50	H
	3384	-60.01	-13	-47.01	-68.90	2.856	13.90	H
	1696	-64.61	-13	-51.61	-71.58	1.58	10.70	V
	2536	-59.33	-13	-46.33	-67.58	2.10	12.50	V
	3384	-60.39	-13	-47.39	-69.28	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)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-56.93	-13	-43.93	-69.19	2.64	14.90	H
	5550	-55.13	-13	-42.13	-66.99	2.94	14.80	H
	7410	-52.65	-13	-39.65	-62.42	3.39	13.16	H
	3705	-57.05	-13	-44.05	-69.31	2.64	14.90	V
	5550	-55.12	-13	-42.12	-66.98	2.94	14.80	V
	7410	-52.54	-13	-39.54	-62.31	3.39	13.16	V
Middle	3765	-56.81	-13	-43.81	-69.07	2.64	14.90	H
	5640	-54.34	-13	-41.34	-66.20	2.94	14.80	H
	7515	-52.60	-13	-39.60	-62.37	3.39	13.16	H
	3765	-56.42	-13	-43.42	-68.68	2.64	14.90	V
	5640	-55.09	-13	-42.09	-66.95	2.94	14.80	V
	7515	-52.27	-13	-39.27	-62.04	3.39	13.16	V
Highest	3810	-57.20	-13	-44.20	-69.46	2.64	14.90	H
	5715	-54.65	-13	-41.65	-66.51	2.94	14.80	H
	7635	-52.42	-13	-39.42	-62.19	3.39	13.16	H
	3810	-56.20	-13	-43.20	-68.46	2.64	14.90	V
	5715	-54.77	-13	-41.77	-66.63	2.94	14.80	V
	7635	-51.96	-13	-38.96	-61.73	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)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-57.93	-13	-44.93	-68.67	2.604	13.34	H
	5136	-54.88	-13	-41.88	-65.39	3.011	13.52	H
	6850	-54.69	-13	-41.69	-64.89	3.271	13.47	H
	3420	-57.95	-13	-44.95	-68.69	2.604	13.34	V
	5136	-54.57	-13	-41.57	-65.08	3.011	13.52	V
	6850	-54.35	-13	-41.35	-64.55	3.271	13.47	V
Middle	3465	-57.69	-13	-44.69	-68.43	2.604	13.34	H
	5190	-54.99	-13	-41.99	-65.50	3.011	13.52	H
	6930	-54.23	-13	-41.23	-64.43	3.271	13.47	H
	3465	-58.13	-13	-45.13	-68.87	2.604	13.34	V
	5190	-54.56	-13	-41.56	-65.07	3.011	13.52	V
	6930	-54.01	-13	-41.01	-64.21	3.271	13.47	V
Highest	3510	-57.47	-13	-44.47	-68.21	2.604	13.34	H
	5250	-55.09	-13	-42.09	-65.60	3.011	13.52	H
	7005	-54.22	-13	-41.22	-64.42	3.271	13.47	H
	3510	-57.59	-13	-44.59	-68.33	2.604	13.34	V
	5250	-55.21	-13	-42.21	-65.72	3.011	13.52	V
	7005	-53.85	-13	-40.85	-64.05	3.271	13.47	V

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