

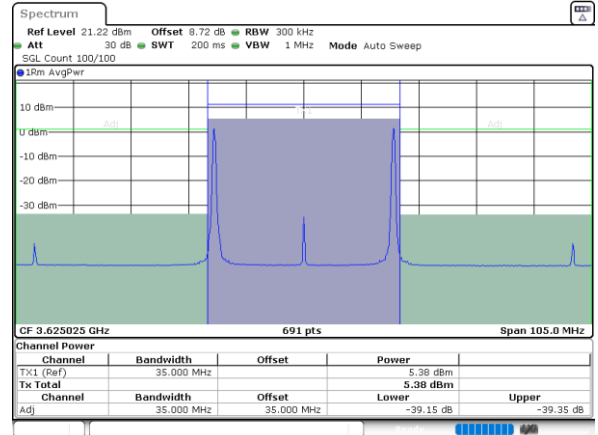
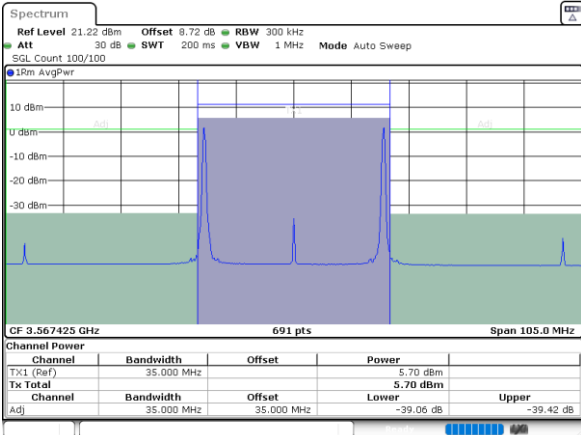


LTE Band 48C / 20MHz+15MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB74

Middle Band Edge / 1RB0 and 1RB74

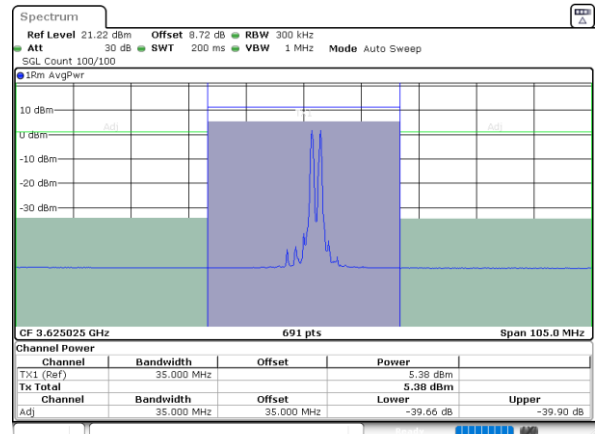
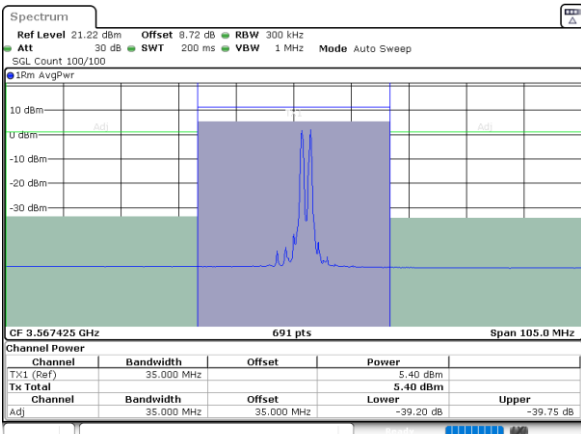


Date: 23, DEC, 2022 14:06:56

Date: 23, DEC, 2022 14:15:51

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

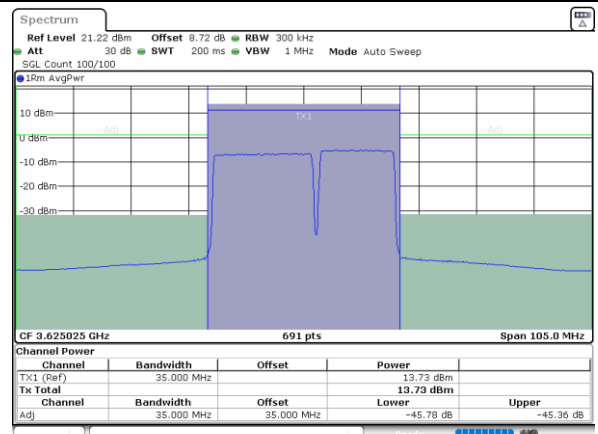
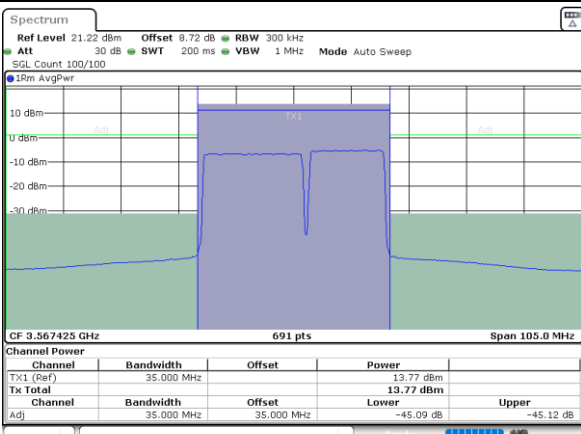


Date: 23, DEC, 2022 14:09:52

Date: 23, DEC, 2022 14:18:47

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 23, DEC, 2022 14:03:59

Date: 23, DEC, 2022 14:12:54

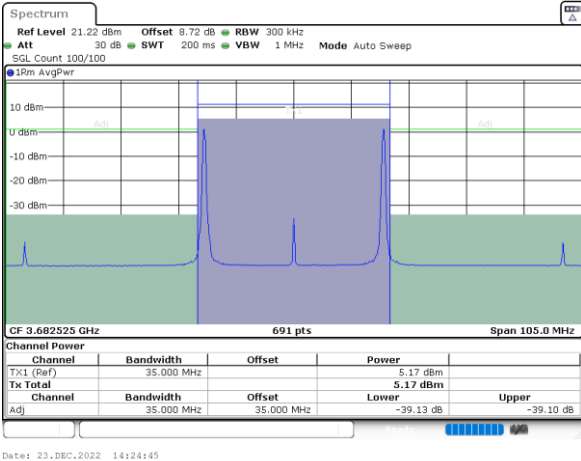


LTE Band 48C / 20MHz+15MHz

64QAM

Highest Band Edge / 1RB0 and 1RB74

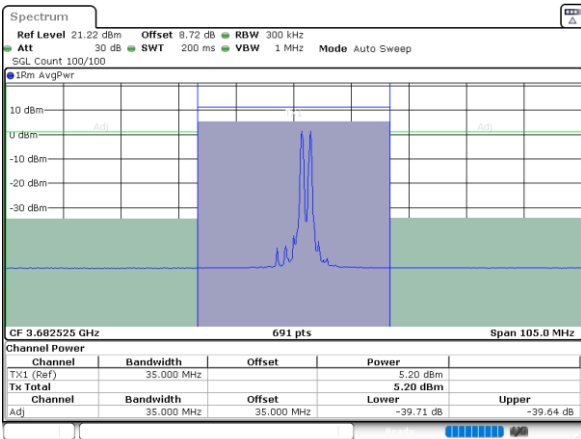
N/A



Date: 23, DEC, 2022 14:24:45

Highest Band Edge / 1RB99 and 1RB0

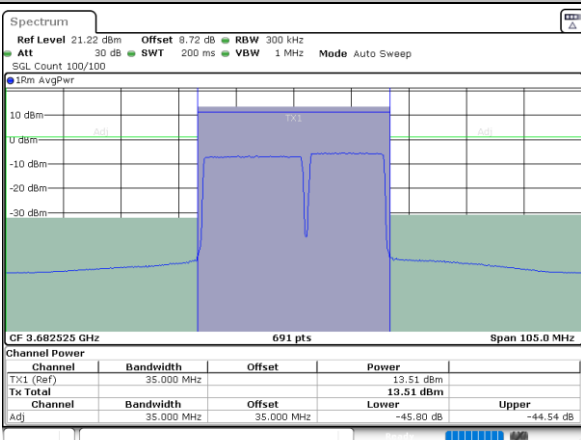
N/A



Date: 23, DEC, 2022 14:27:42

Highest Band Edge / Full RB

N/A



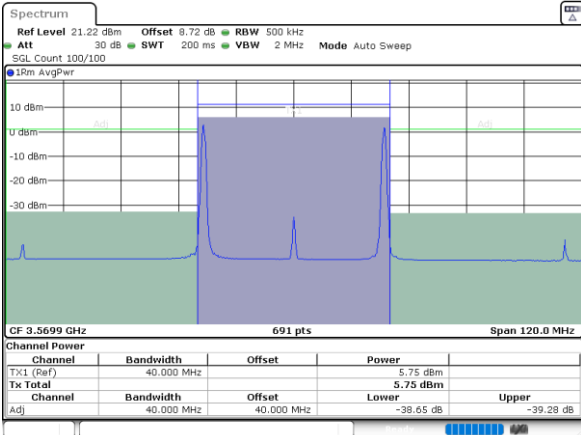
Date: 23, DEC, 2022 14:21:49



LTE Band 48C / 20MHz+20MHz

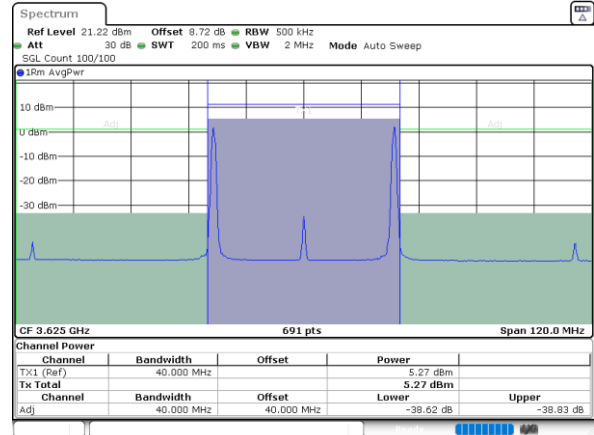
64QAM

Lowest Band Edge / 1RB0 and 1RB99



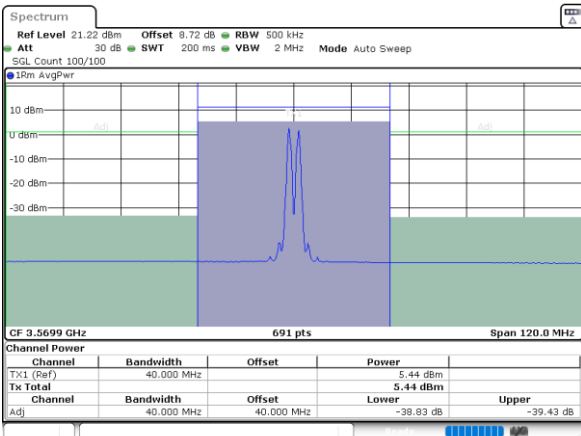
Date: 23, DEC, 2022 14:33:43

Middle Band Edge / 1RB0 and 1RB99



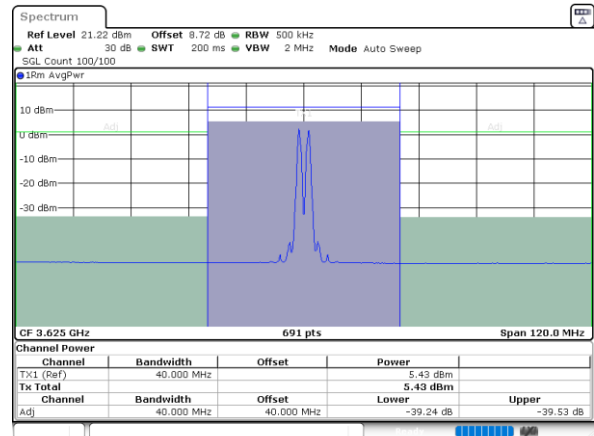
Date: 23, DEC, 2022 14:42:44

Lowest Band Edge / 1RB99 and 1RB0



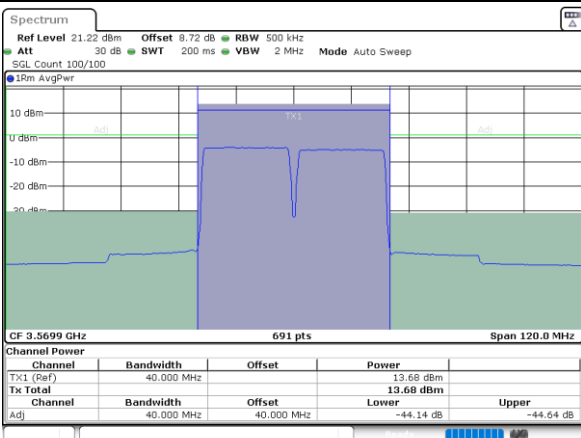
Date: 23, DEC, 2022 14:36:42

Middle Band Edge / 1RB99 and 1RB0



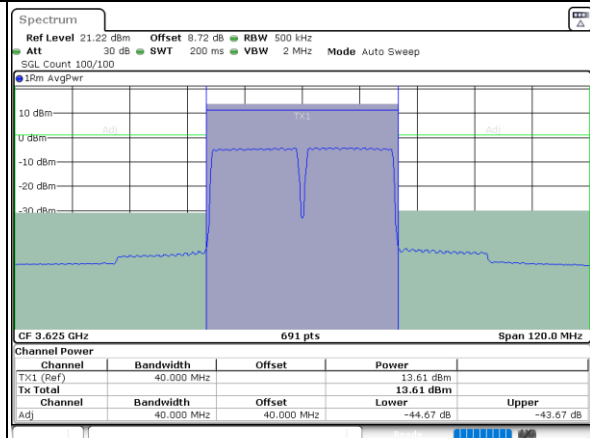
Date: 23, DEC, 2022 14:39:46

Lowest Band Edge / Full RB



Date: 23, DEC, 2022 14:30:45

Middle Band Edge / Full RB



Date: 23, DEC, 2022 14:45:43

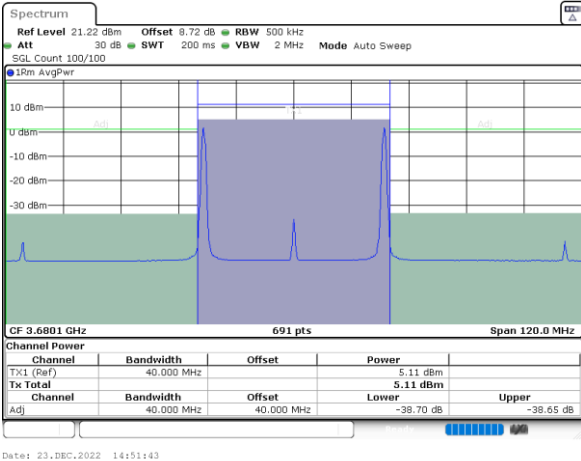


LTE Band 48C / 20MHz+20MHz

64QAM

Highest Band Edge / 1RB0 and 1RB99

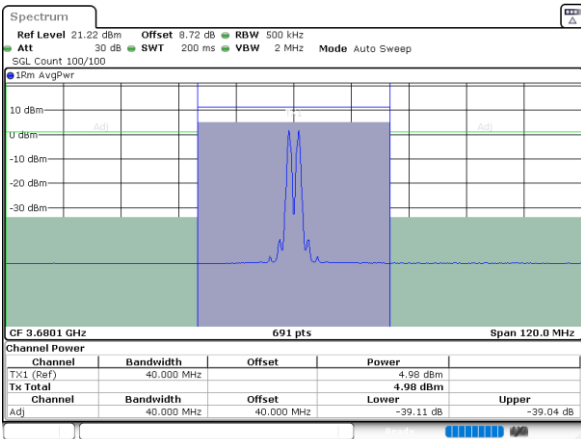
N/A



Date: 23, DEC, 2022 14:51:43

Highest Band Edge / 1RB99 and 1RB0

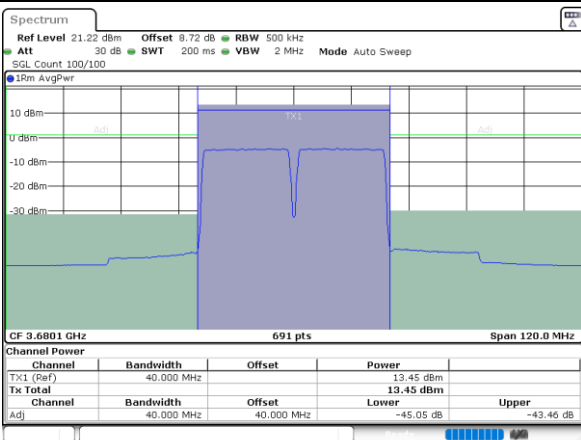
N/A



Date: 23, DEC, 2022 14:54:39

Highest Band Edge / Full RB

N/A



Date: 23, DEC, 2022 14:48:45

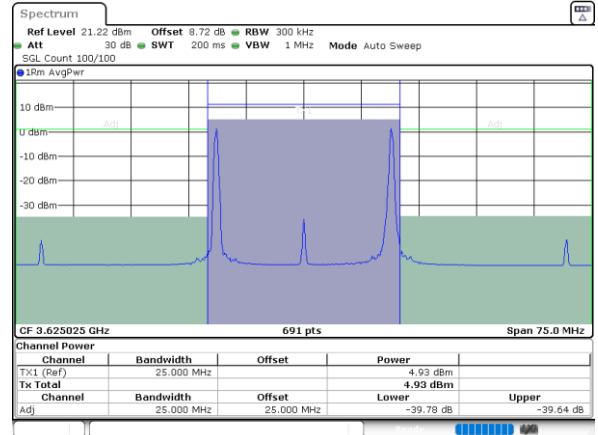
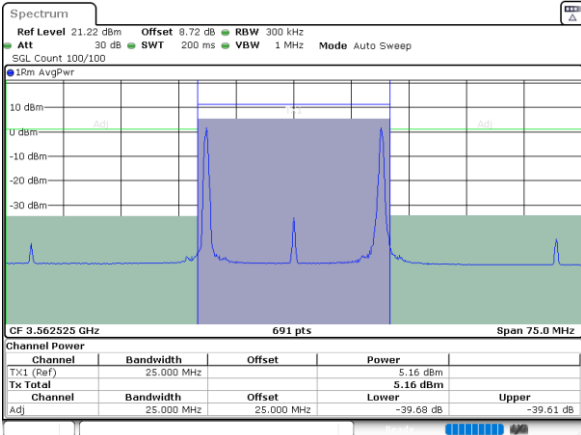


LTE Band 48C / 5MHz+20MHz

256QAM

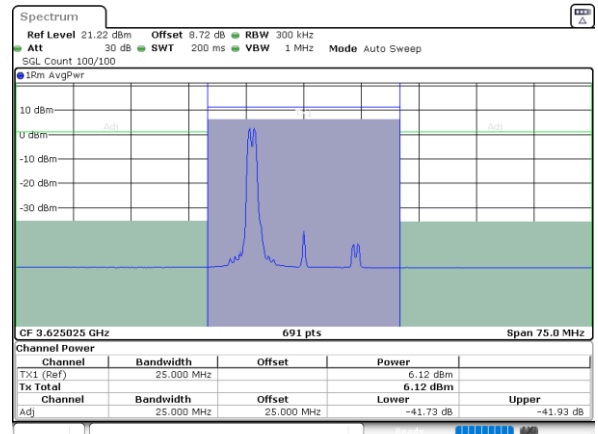
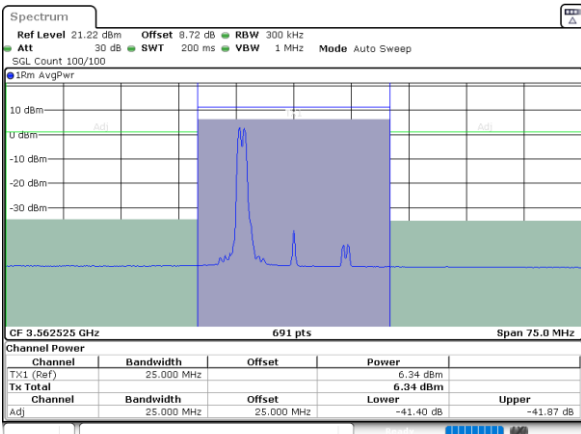
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



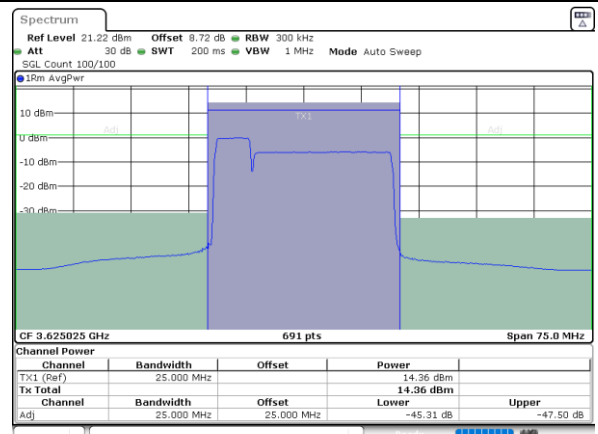
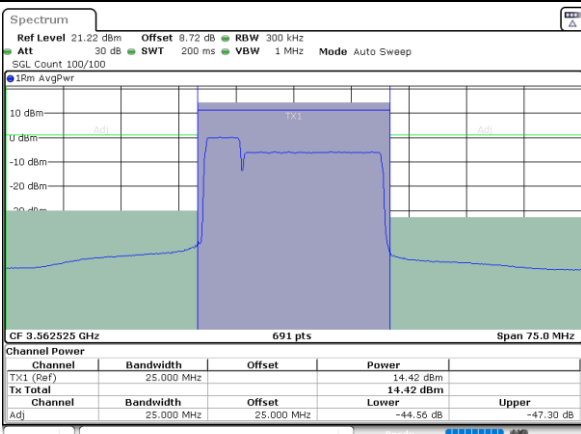
Lowest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



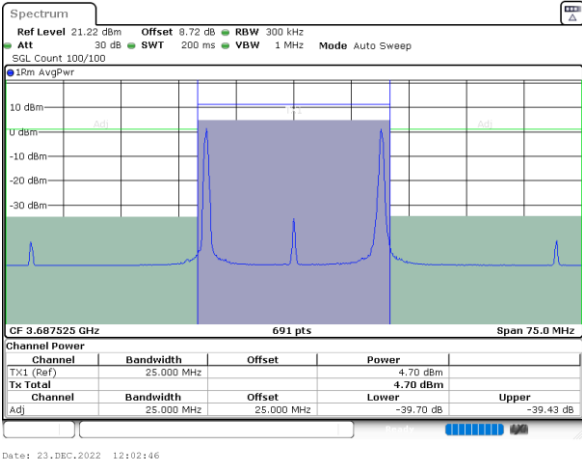


LTE Band 48C / 5MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

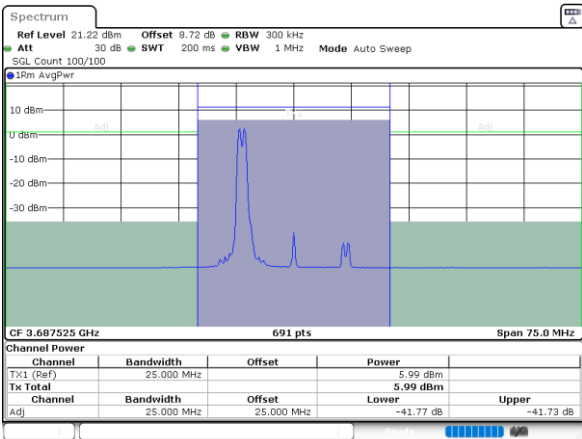
N/A



Date: 23, DEC, 2022 12:02:46

Highest Band Edge / 1RB24 and 1RB0

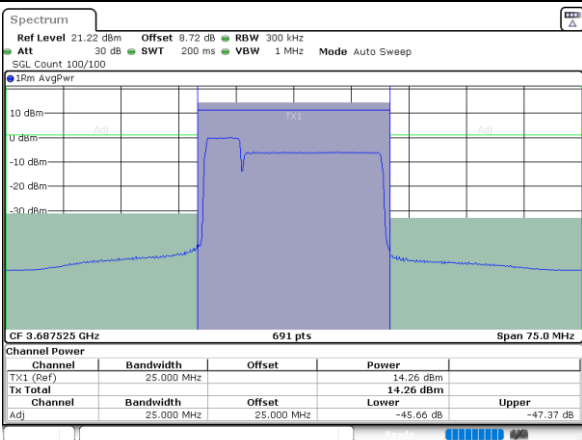
N/A



Date: 23, DEC, 2022 11:59:51

Highest Band Edge / Full RB

N/A



Date: 23, DEC, 2022 12:05:43

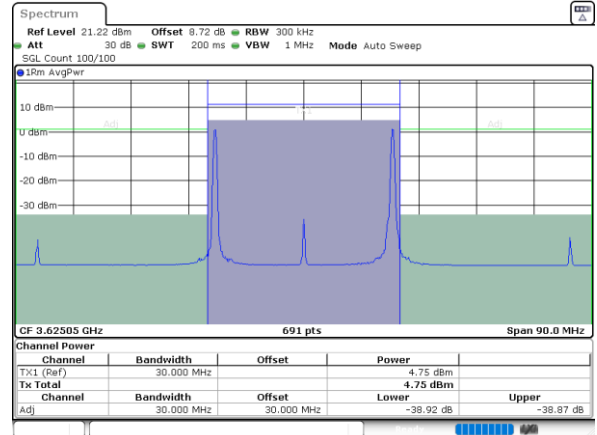
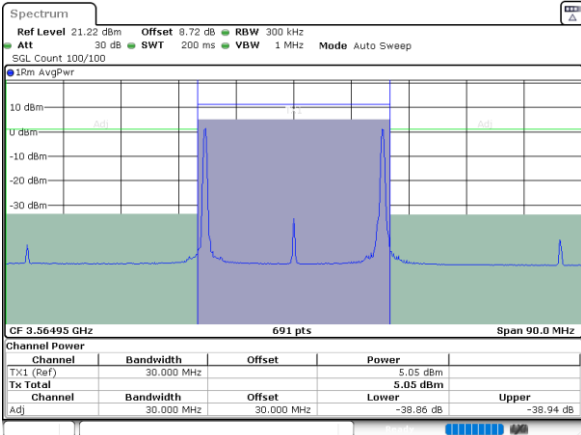


LTE Band 48C / 10MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

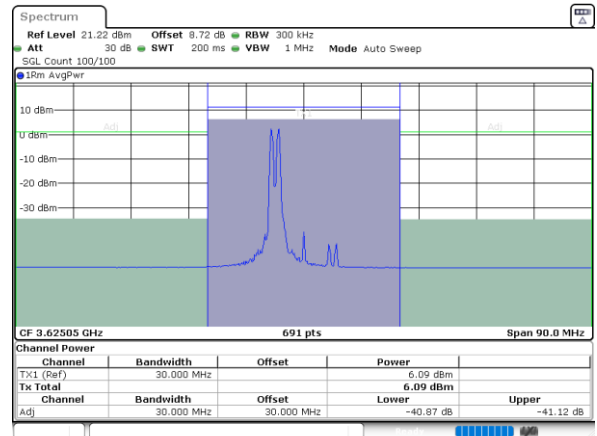
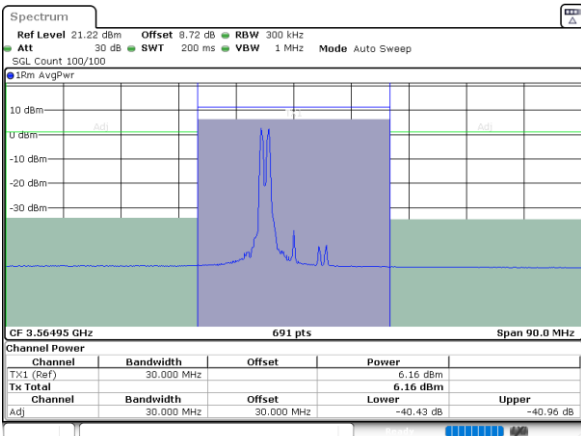


Date: 23, DEC, 2022 12:11:57

Date: 23, DEC, 2022 12:20:52

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

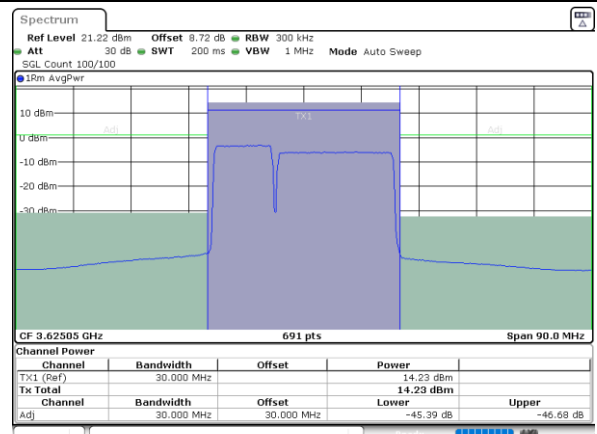
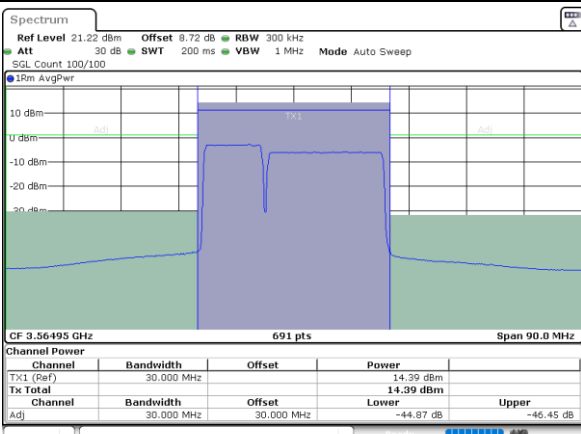


Date: 23, DEC, 2022 12:14:53

Date: 23, DEC, 2022 12:17:55

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 23, DEC, 2022 12:09:00

Date: 23, DEC, 2022 12:23:48

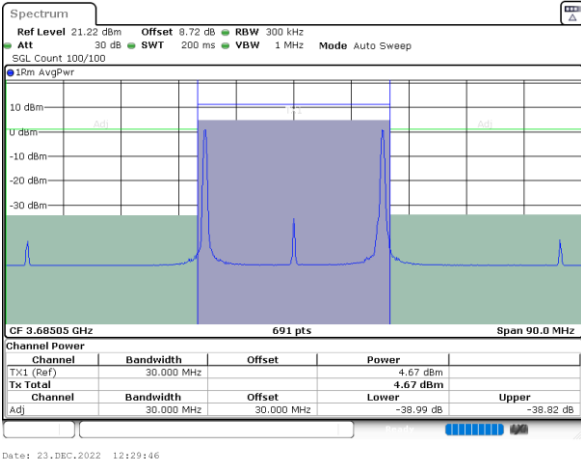


LTE Band 48C / 10MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

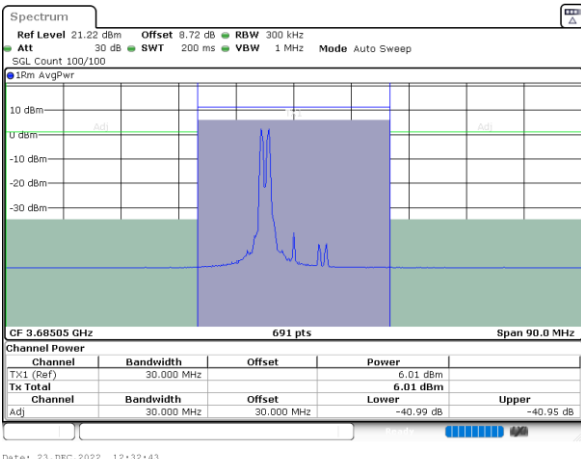
N/A



Date: 23, DEC, 2022 12:29:46

Highest Band Edge / 1RB49 and 1RB0

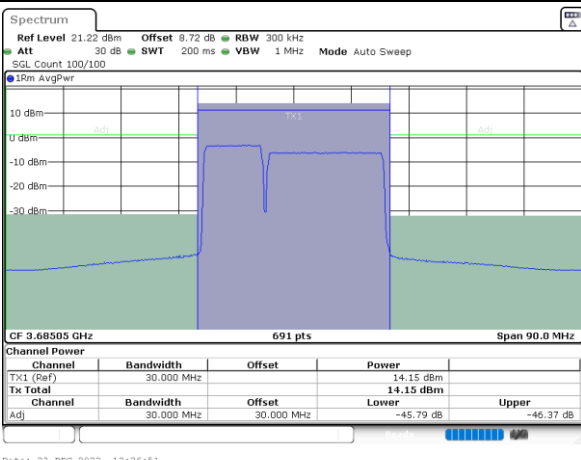
N/A



Date: 23, DEC, 2022 12:32:43

Highest Band Edge / Full RB

N/A



Date: 23, DEC, 2022 12:26:51

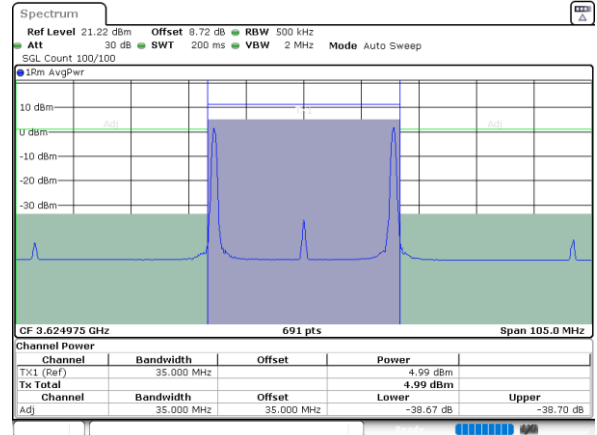
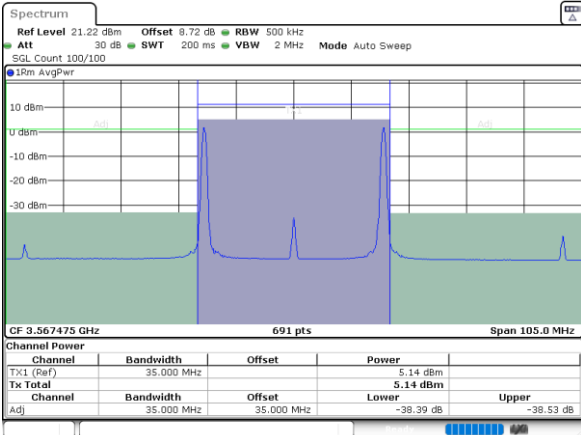


LTE Band 48C / 15MHz+20MHz

256QAM

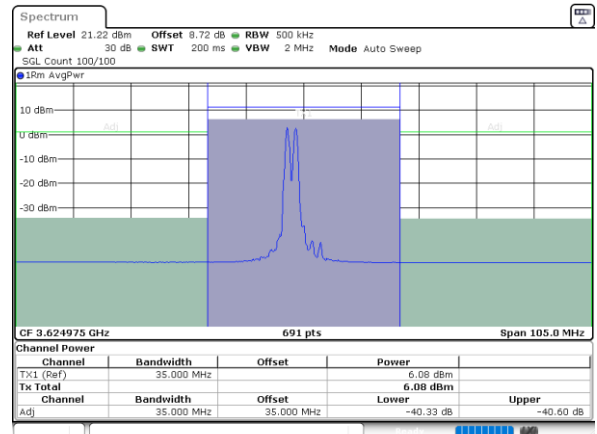
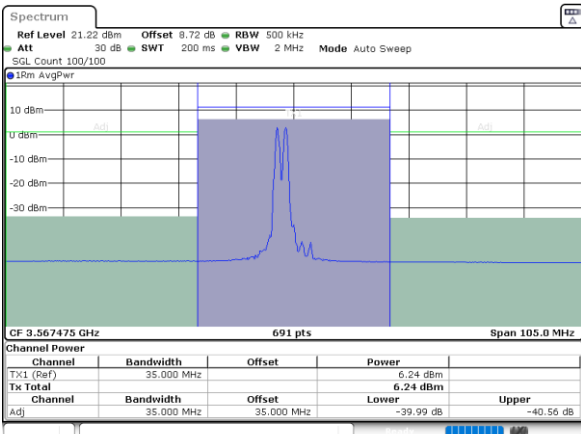
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



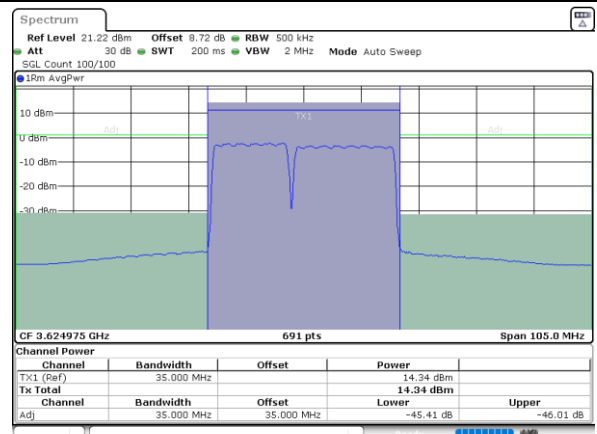
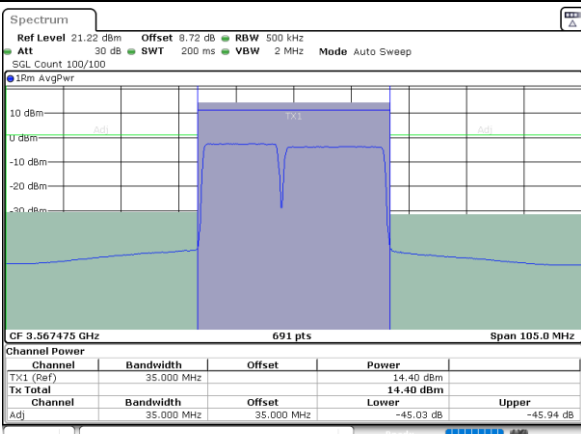
Lowest Band Edge / 1RB74 and 1RB0

Middle Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



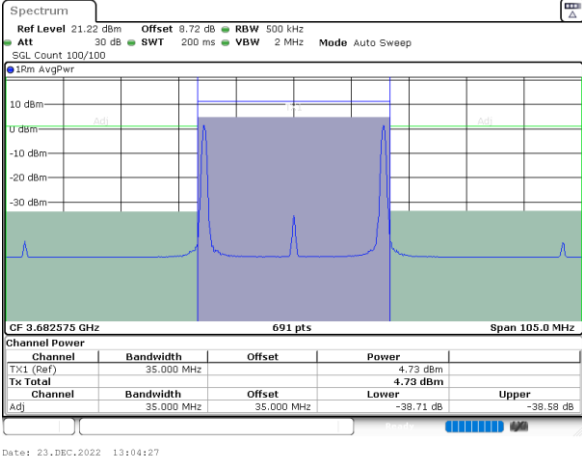


LTE Band 48C / 15MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

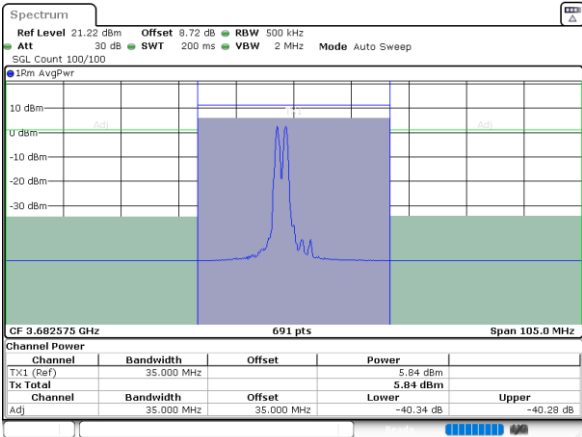
N/A



Date: 23, DEC, 2022 13:04:27

Highest Band Edge / 1RB74 and 1RB0

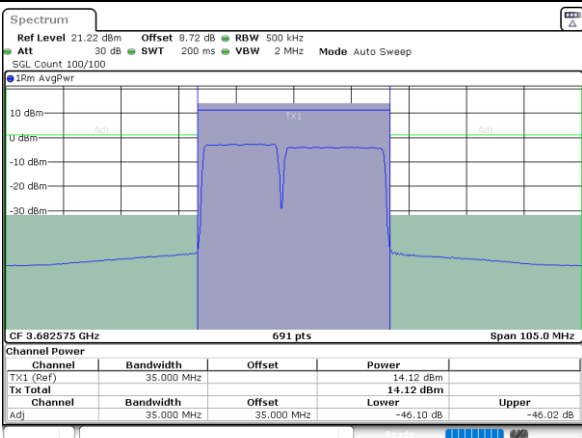
N/A



Date: 23, DEC, 2022 13:01:30

Highest Band Edge / Full RB

N/A



Date: 23, DEC, 2022 13:07:23

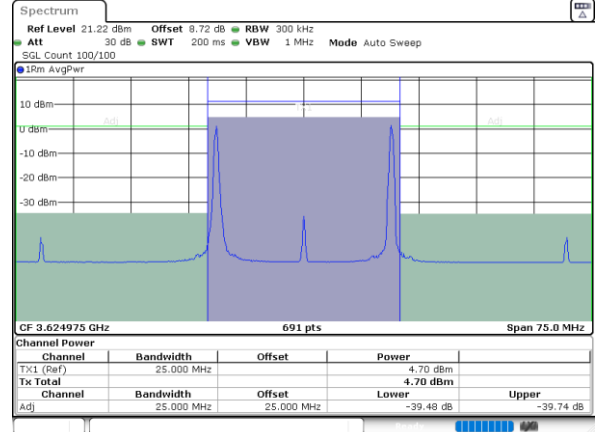
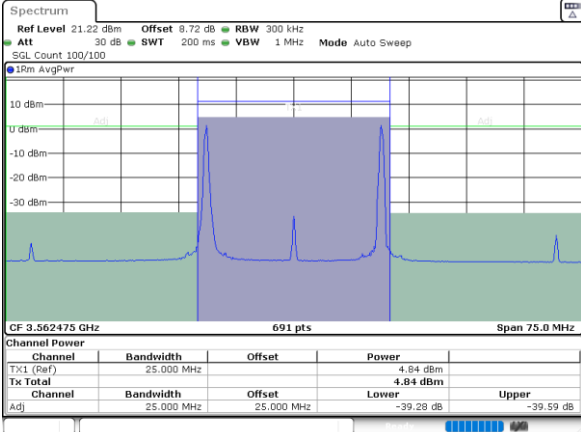


LTE Band 48C/ 20MHz+5MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB24

Middle Band Edge / 1RB0 and 1RB24

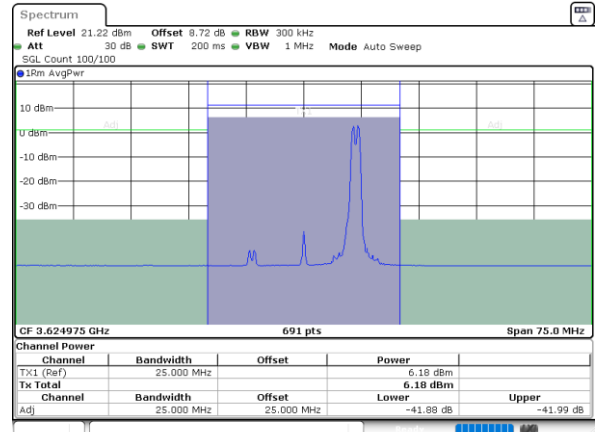
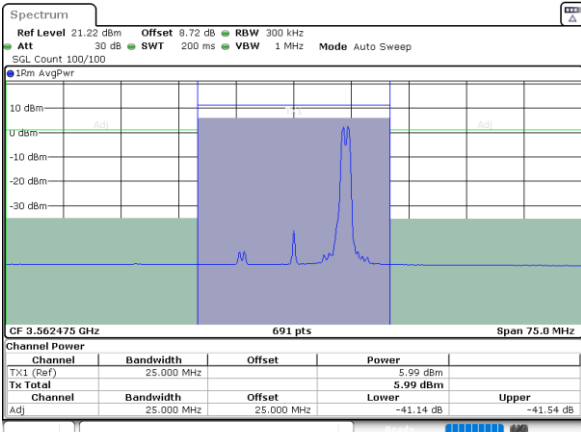


Date: 23_DEC.2022 13:14:04

Date: 23_DEC.2022 13:22:59

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

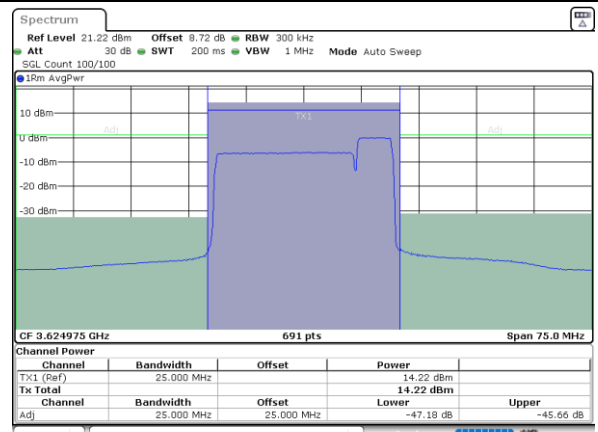
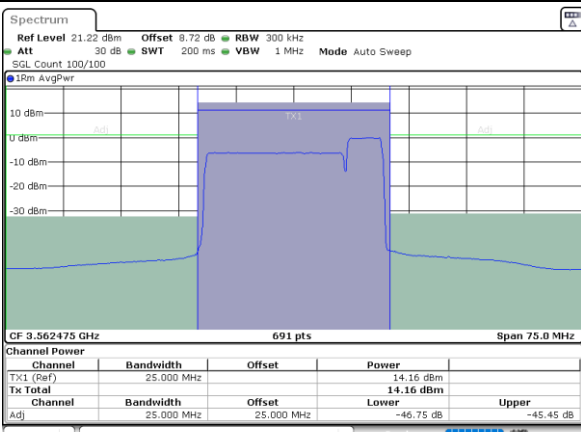


Date: 23_DEC.2022 13:17:00

Date: 23_DEC.2022 13:25:56

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 23_DEC.2022 13:11:07

Date: 23_DEC.2022 13:20:03

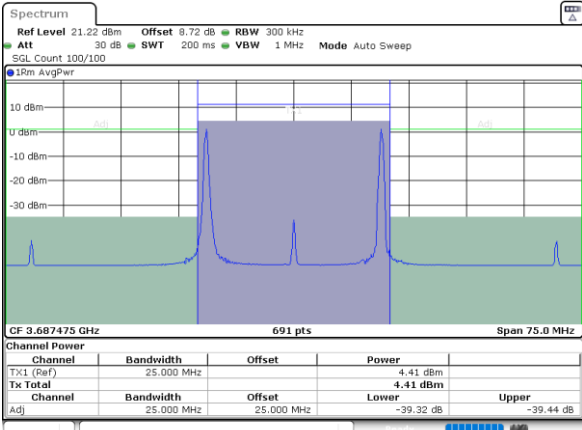


LTE Band 48C / 20MHz+5MHz

256QAM

Highest Band Edge / 1RB0 and 1RB24

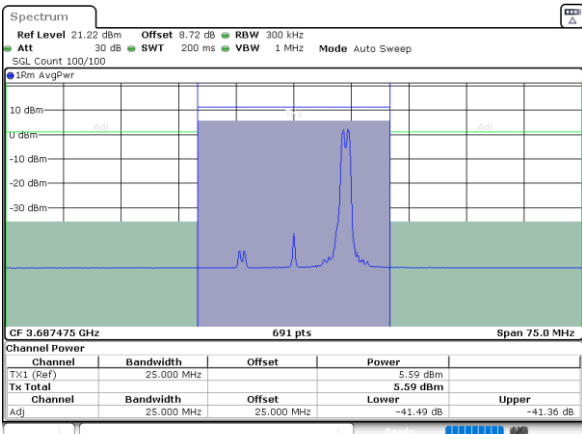
N/A



Date: 23, DEC, 2022 13:31:56

Highest Band Edge / 1RB99 and 1RB0

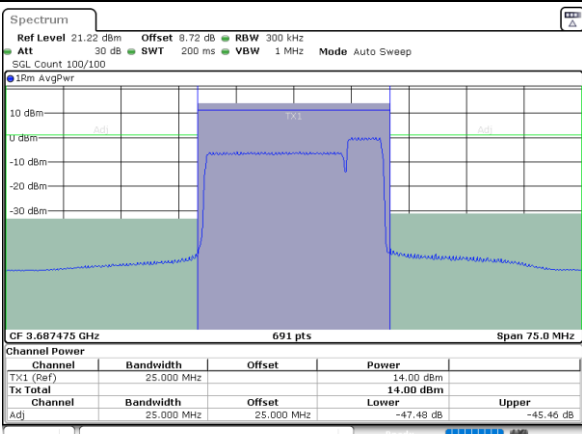
N/A



Date: 23, DEC, 2022 13:34:53

Highest Band Edge / Full RB

N/A



Date: 23, DEC, 2022 13:28:59

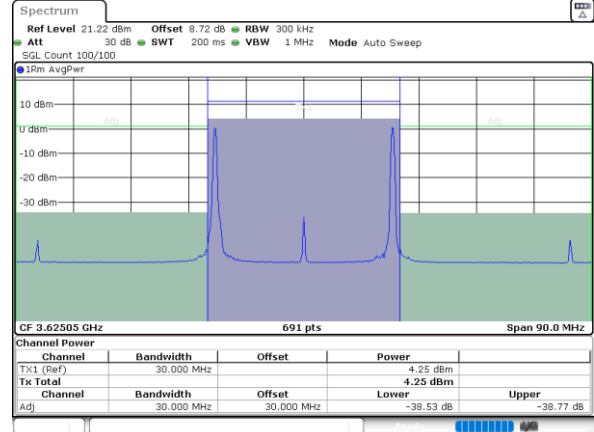
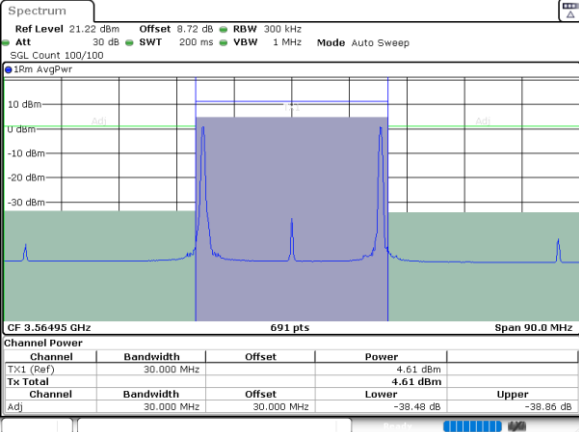


LTE Band 48C / 20MHz+10MHz

256QAM

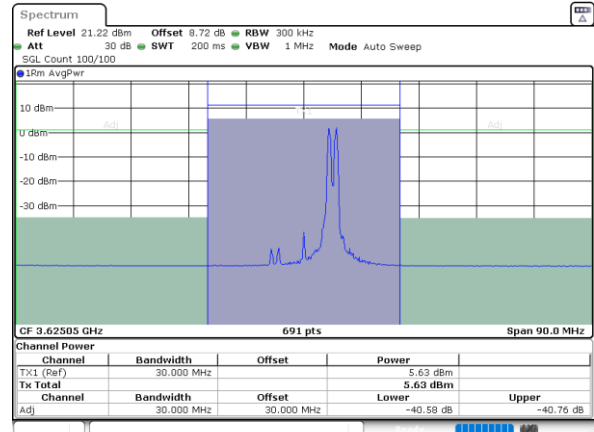
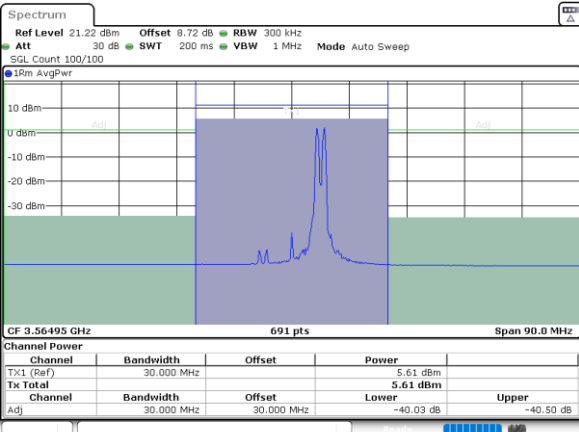
Lowest Band Edge / 1RB0 and 1RB49

Middle Band Edge / 1RB0 and 1RB49



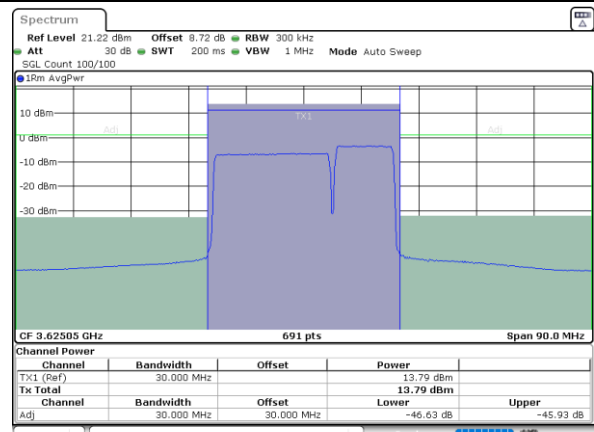
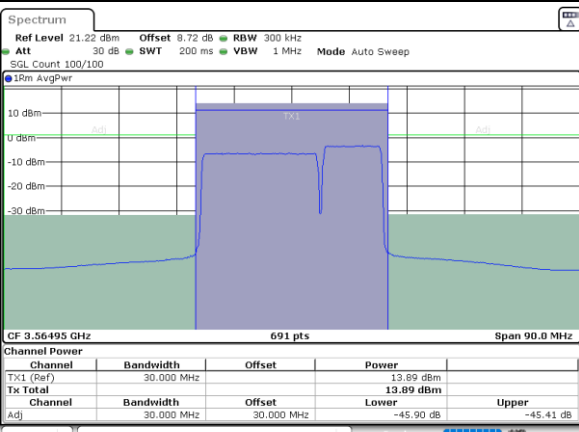
Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



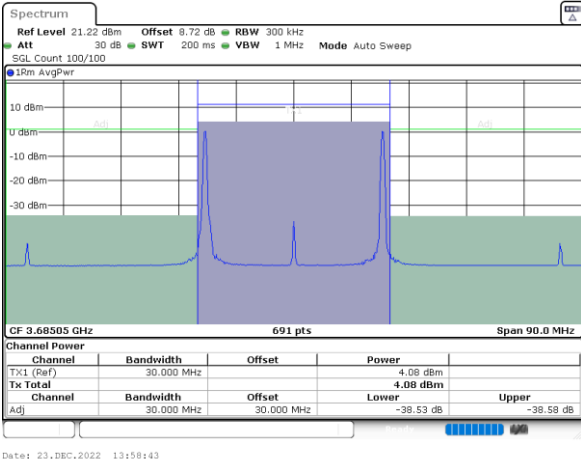


LTE Band 48C / 20MHz+10MHz

256QAM

Highest Band Edge / 1RB0 and 1RB49

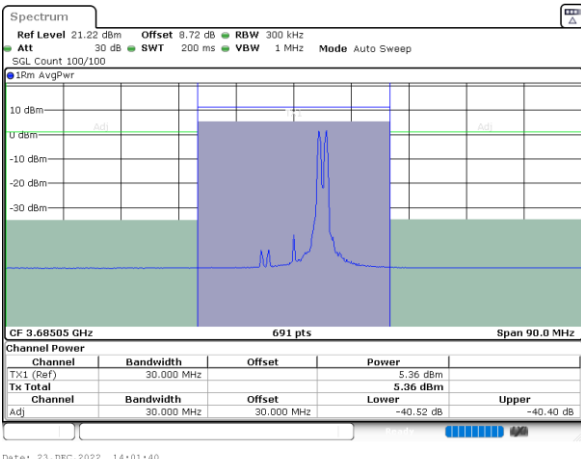
N/A



Date: 23, DEC, 2022 13:58:43

Highest Band Edge / 1RB99 and 1RB0

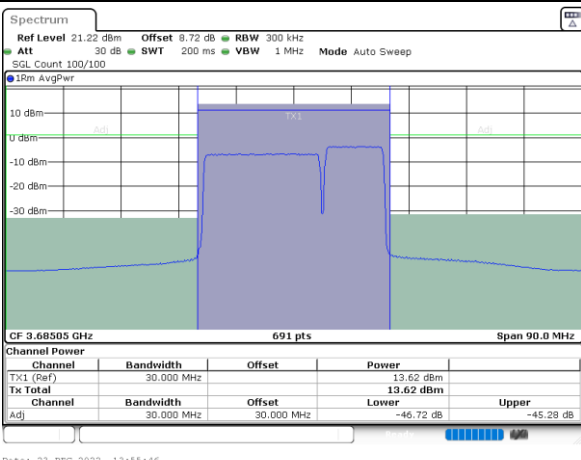
N/A



Date: 23, DEC, 2022 14:01:40

Highest Band Edge / Full RB

N/A



Date: 23, DEC, 2022 13:55:46

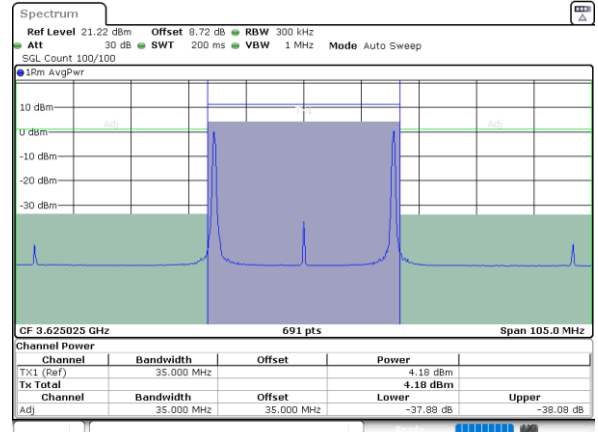
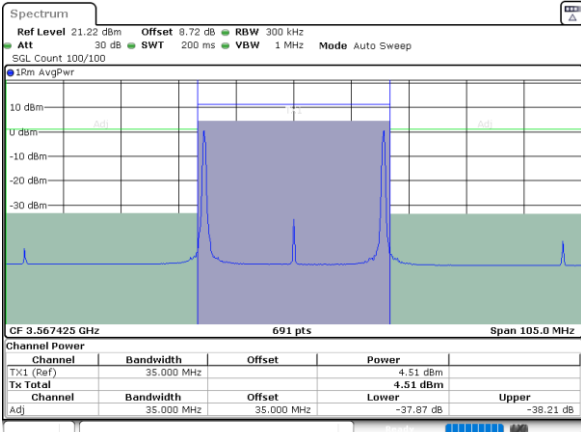


LTE Band 48C / 20MHz+15MHz

256QAM

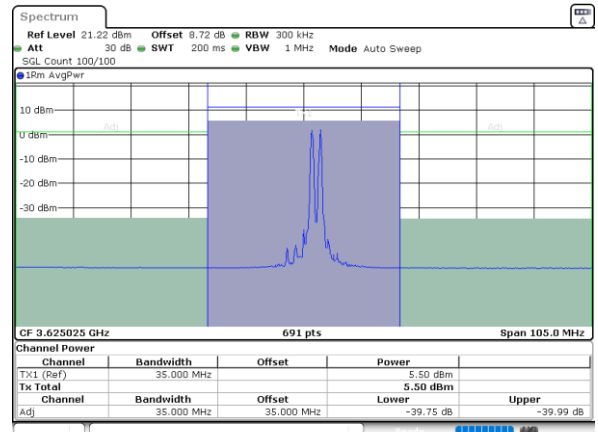
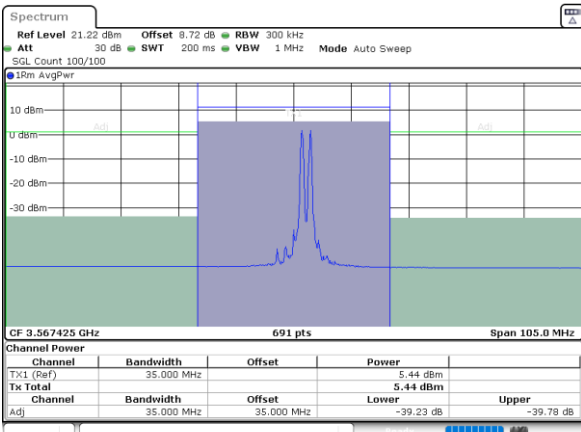
Lowest Band Edge / 1RB0 and 1RB74

Middle Band Edge / 1RB0 and 1RB74



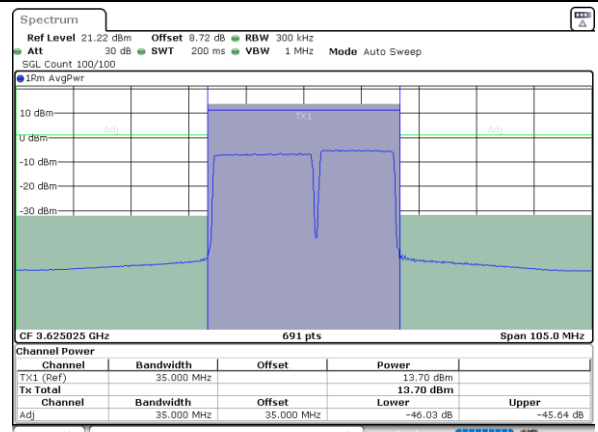
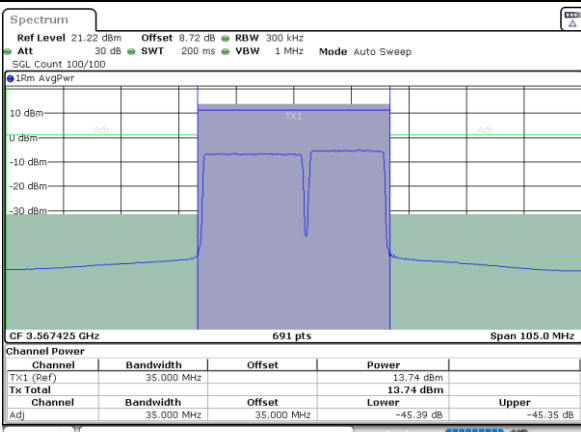
Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



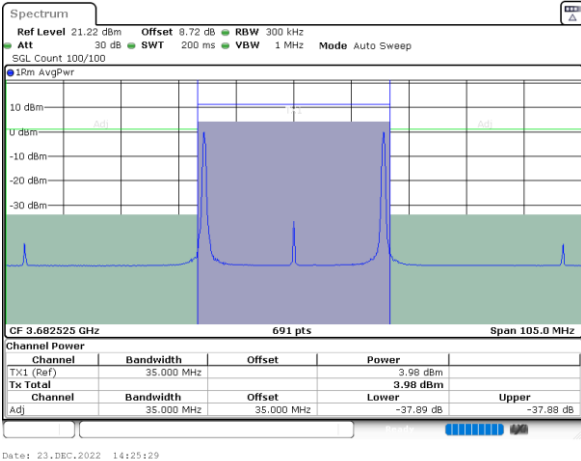


LTE Band 48C / 20MHz+15MHz

256QAM

Highest Band Edge / 1RB0 and 1RB74

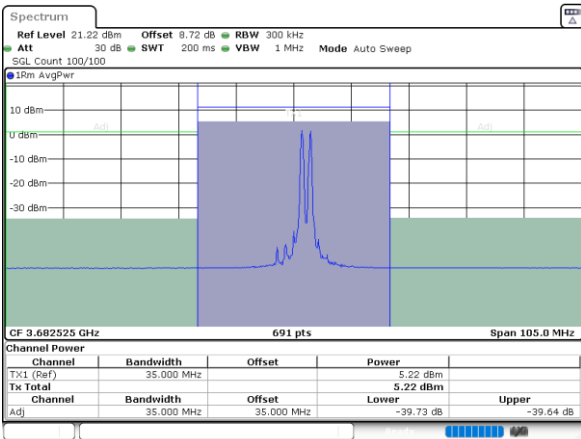
N/A



Date: 23, DEC, 2022 14:25:29

Highest Band Edge / 1RB99 and 1RB0

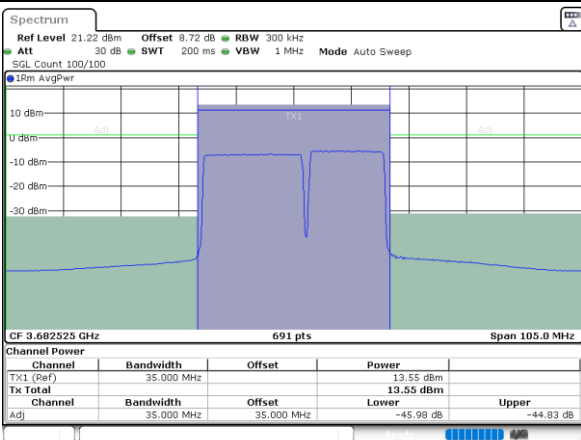
N/A



Date: 23, DEC, 2022 14:28:25

Highest Band Edge / Full RB

N/A



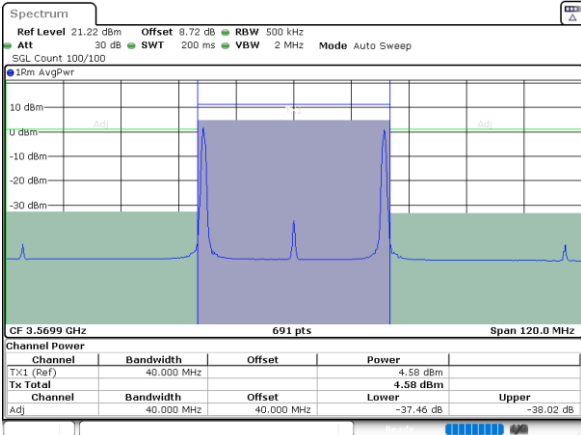
Date: 23, DEC, 2022 14:22:33



LTE Band 48C / 20MHz+20MHz

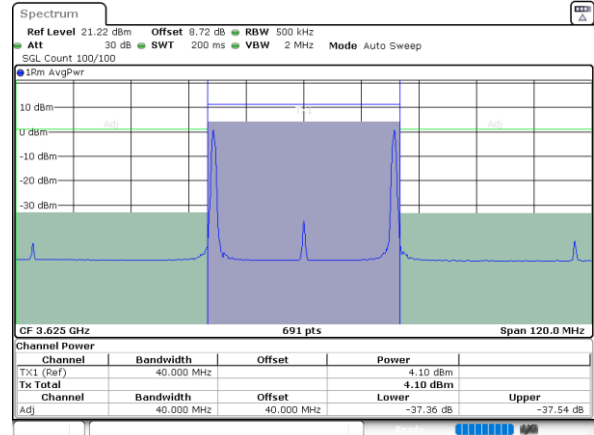
256QAM

Lowest Band Edge / 1RB0 and 1RB99



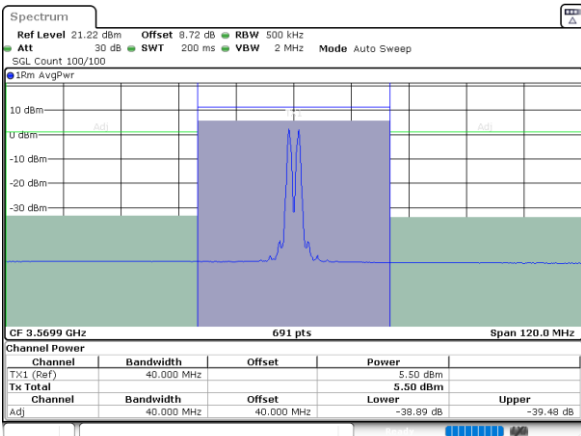
Date: 23_DEC.2022 14:34:28

Middle Band Edge / 1RB0 and 1RB99



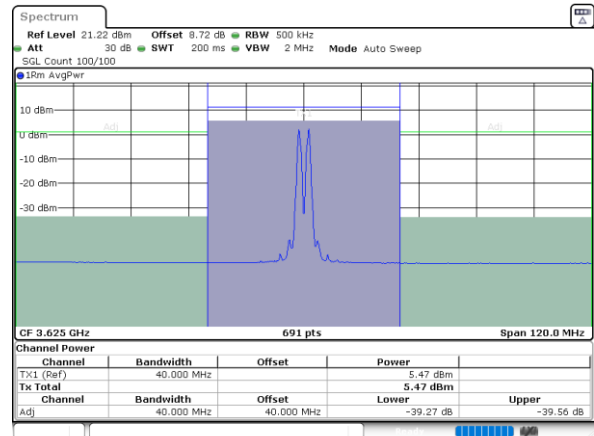
Date: 23_DEC.2022 14:43:29

Lowest Band Edge / 1RB99 and 1RB0



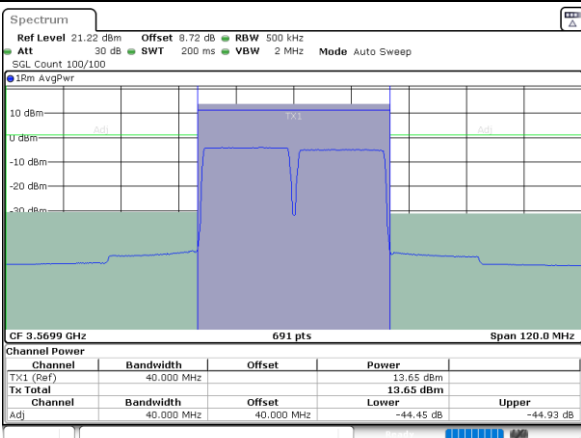
Date: 23_DEC.2022 14:37:26

Middle Band Edge / 1RB99 and 1RB0



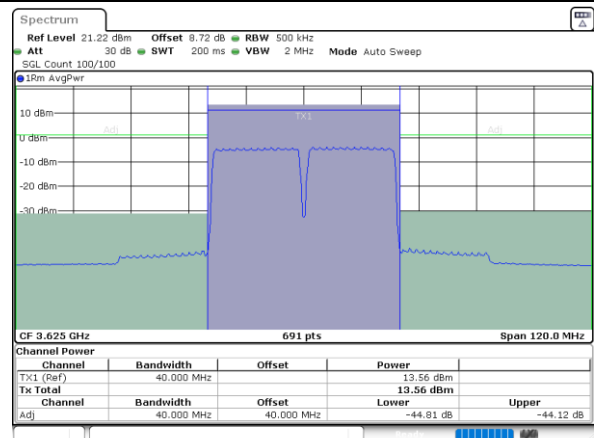
Date: 23_DEC.2022 14:40:31

Lowest Band Edge / Full RB



Date: 23_DEC.2022 14:31:30

Middle Band Edge / Full RB



Date: 23_DEC.2022 14:46:27

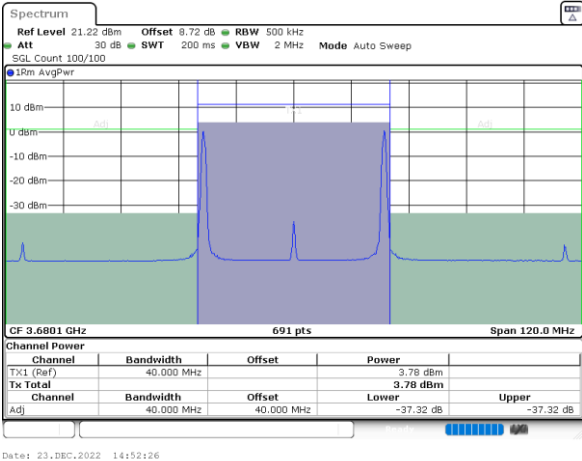


LTE Band 48C / 20MHz+20MHz

256QAM

Highest Band Edge / 1RB0 and 1RB99

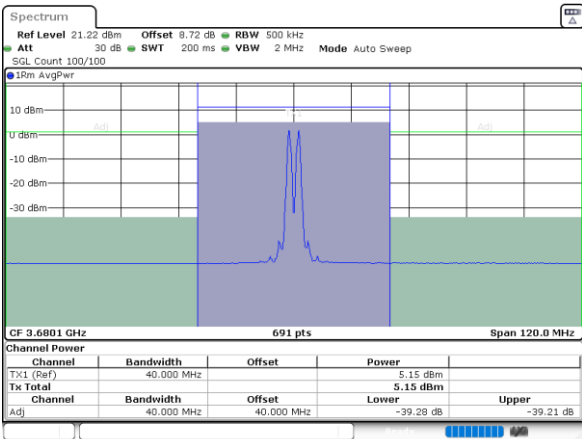
N/A



Date: 23, DEC, 2022 14:52:26

Highest Band Edge / 1RB99 and 1RB0

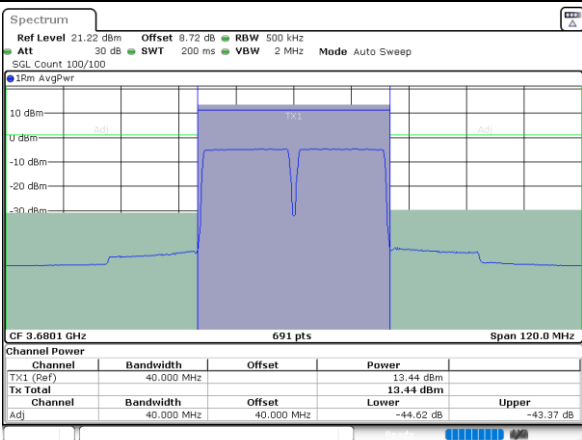
N/A



Date: 23, DEC, 2022 14:55:22

Highest Band Edge / Full RB

N/A



Date: 23, DEC, 2022 14:49:30



Frequency Stability

Test Conditions		LTE Band 48C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0122	PASS
40	Normal Voltage	0.0117	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0223	
0	Normal Voltage	0.0218	
-10	Normal Voltage	0.0105	
-20	Normal Voltage	0.0352	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0128	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.51 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

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

LTE Band 48 / 20MHz / QPSK								
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	7104	-63.29	-40	-23.29	-74.75	2.84	14.30	H
	10656	-62.54	-40	-22.54	-72.48	3.49	13.43	H
	14202	-52.86	-40	-12.86	-61.28	4.14	12.56	H
	17754	-53.94	-40	-13.94	-57.80	6.09	9.95	H
	7104	-62.41	-40	-22.41	-73.87	2.84	14.30	V
	10656	-61.87	-40	-21.87	-71.81	3.49	13.43	V
	14202	-59.44	-40	-19.44	-69.68	3.85	14.09	V
	17754	-50.64	-40	-10.64	-61.78	4.93	16.07	V
Middle	7230	-64.46	-40	-24.46	-75.92	2.84	14.30	H
	10848	-45.82	-40	-5.82	-55.76	3.49	13.43	H
	14466	-47.61	-40	-7.61	-57.85	3.85	14.09	H
	7230	-64.37	-40	-24.37	-75.83	2.84	14.30	V
	10848	-54.39	-40	-14.39	-64.33	3.49	13.43	V
	14466	-51.71	-40	-11.71	-61.95	3.85	14.09	V
Highest	7362	-63.44	-40	-23.44	-74.90	2.84	14.30	H
	11040	-57.55	-40	-17.55	-67.49	3.49	13.43	H
	14724	-46.20	-40	-6.20	-56.44	3.85	14.09	H
	7362	-64.27	-40	-24.27	-75.73	2.84	14.30	V
	11040	-61.74	-40	-21.74	-71.68	3.49	13.43	V
	14724	-55.71	-40	-15.71	-65.95	3.85	14.09	V

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



LTE Band CA_48C / 20MHz + 20MHz / QPSK								
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 (1RB0)	7104	-63.00	-40	-23.00	-74.46	2.84	14.30	H
	10656	-60.24	-40	-20.24	-70.18	3.49	13.43	H
	14202	-56.07	-40	-16.07	-66.31	3.85	14.09	H
	17754	-51.51	-40	-11.51	-59.62	5.41	13.52	H
	7104	-64.29	-40	-24.29	-75.75	2.84	14.30	V
	10656	-62.81	-40	-22.81	-72.75	3.49	13.43	V
	14202	-57.30	-40	-17.30	-67.54	3.85	14.09	V
	17754	-56.83	-40	-16.83	-64.94	5.41	13.52	V
Lowest (1RBMAX)	7140	-64.66	-40	-24.66	-76.12	2.84	14.30	H
	10704	-62.60	-40	-22.60	-72.54	3.49	13.43	H
	14274	-60.72	-40	-20.72	-70.96	3.85	14.09	H
	17844	-58.02	-40	-18.02	-68.26	4.85	15.09	H
	7140	-64.36	-40	-24.36	-75.82	2.84	14.30	V
	10704	-62.60	-40	-22.60	-72.54	3.49	13.43	V
	14274	-60.70	-40	-20.70	-70.94	3.85	14.09	V
	17844	-58.83	-40	-18.83	-69.07	4.85	15.09	V
Middle (1RB0)	7212	-63.49	-40	-23.49	-74.95	2.84	14.30	H
	10818	-55.78	-40	-15.78	-65.72	3.49	13.43	H
	14424	-53.95	-40	-13.95	-64.19	3.85	14.09	H
	7212	-64.24	-40	-24.24	-75.70	2.84	14.30	V
	10818	-62.38	-40	-22.38	-72.32	3.49	13.43	V
	14424	-54.32	-40	-14.32	-64.56	3.85	14.09	V
Middle (1RBMAX)	7248	-64.28	-40	-24.28	-75.74	2.84	14.30	H
	10872	-61.97	-40	-21.97	-71.91	3.49	13.43	H
	14496	-60.06	-40	-20.06	-70.30	3.85	14.09	H
	7248	-64.53	-40	-24.53	-75.99	2.84	14.30	V
	10872	-62.10	-40	-22.10	-72.04	3.49	13.43	V
	14496	-60.31	-40	-20.31	-70.55	3.85	14.09	V
Highest (1RB0)	7320	-60.73	-40	-20.73	-72.19	2.84	14.30	H
	10986	-48.43	-40	-8.43	-58.37	3.49	13.43	H
	14646	-49.35	-40	-9.35	-59.59	3.85	14.09	H
	7320	-63.55	-40	-23.55	-75.01	2.84	14.30	V
	10986	-60.39	-40	-20.39	-70.33	3.49	13.43	V
	14646	-55.00	-40	-15.00	-65.24	3.85	14.09	V
Highest (1RBMAX)	7356	-64.52	-40	-24.52	-75.98	2.84	14.30	H
	11040	-61.80	-40	-21.80	-71.74	3.49	13.43	H
	14718	-59.56	-40	-19.56	-69.80	3.85	14.09	H
	7356	-64.13	-40	-24.13	-75.59	2.84	14.30	V
	11040	-61.74	-40	-21.74	-71.68	3.49	13.43	V
	14718	-60.43	-40	-20.43	-70.67	3.85	14.09	V

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