

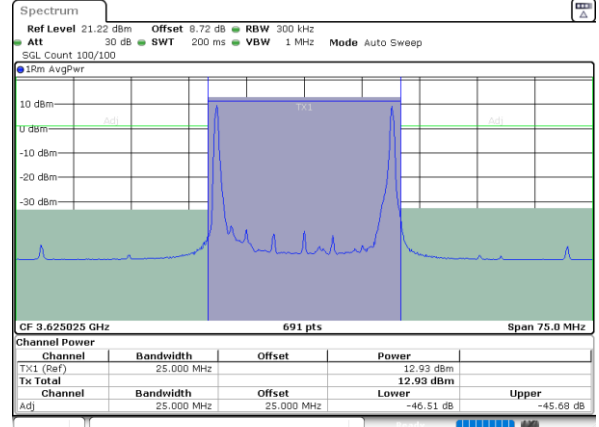
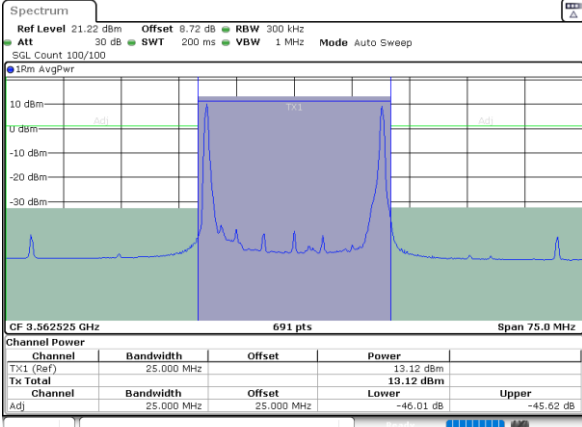


LTE Band 48C / 5MHz+20MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

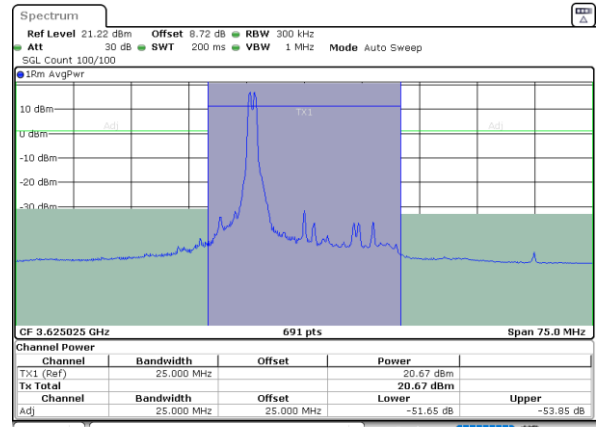
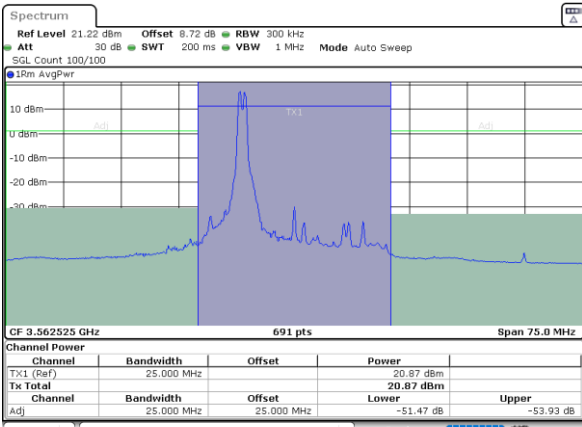


Date: 7.OCT.2022 07:32:10

Date: 7.OCT.2022 07:38:53

Lowest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0

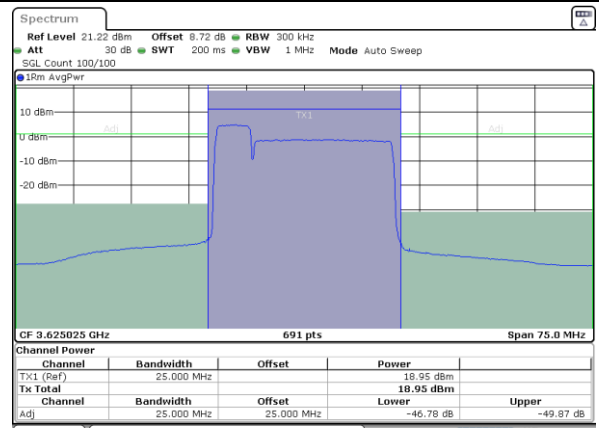
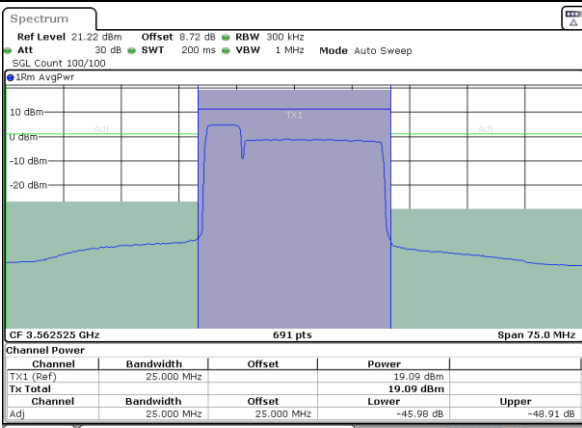


Date: 7.OCT.2022 07:34:21

Date: 7.OCT.2022 07:36:59

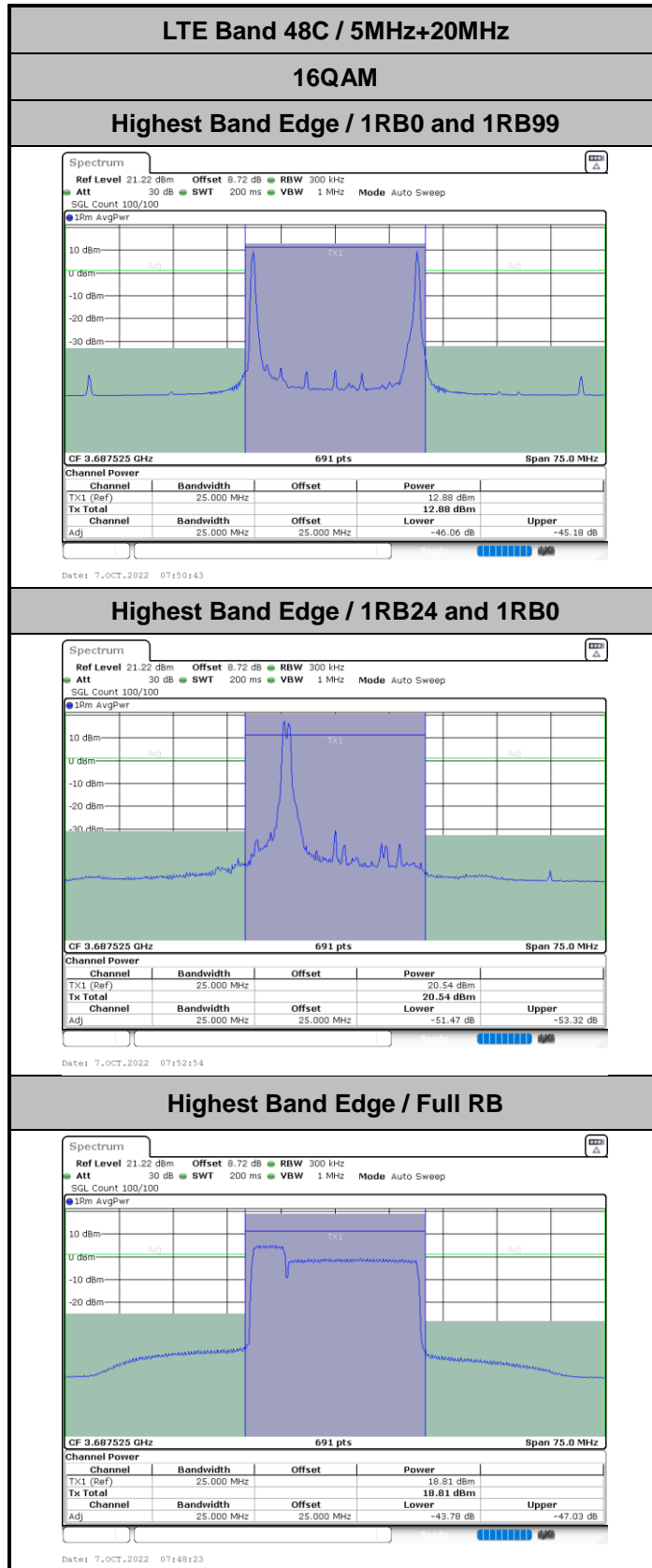
Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 7.OCT.2022 07:29:57

Date: 7.OCT.2022 07:41:02



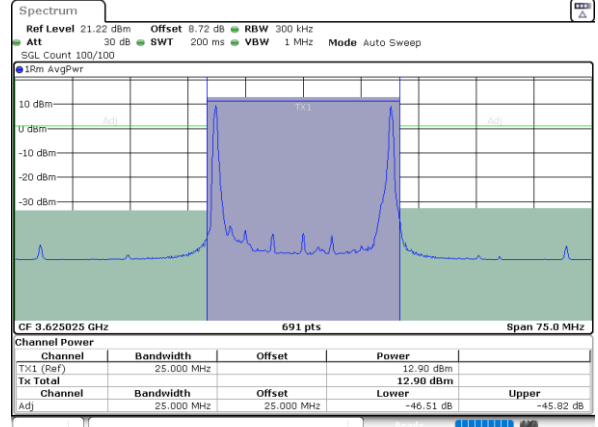
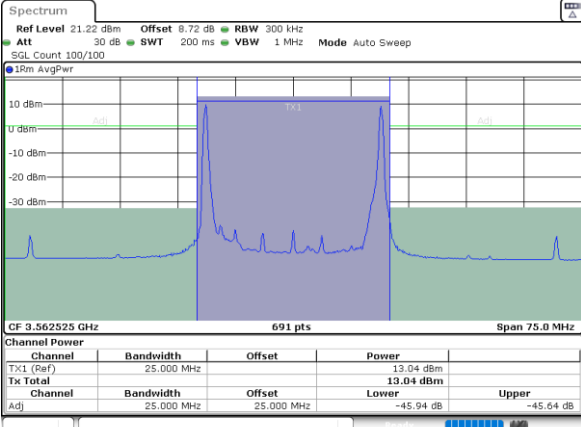


LTE Band 48C / 5MHz+20MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

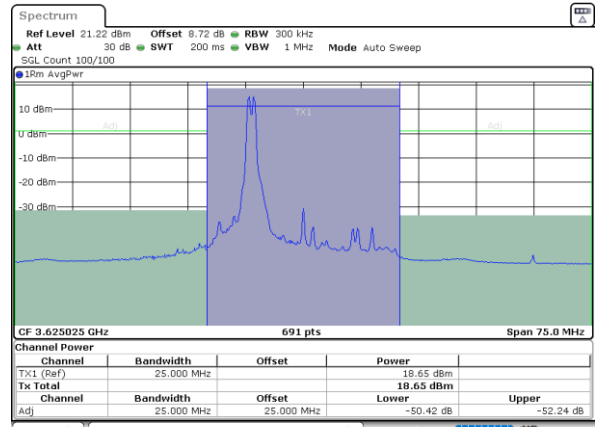
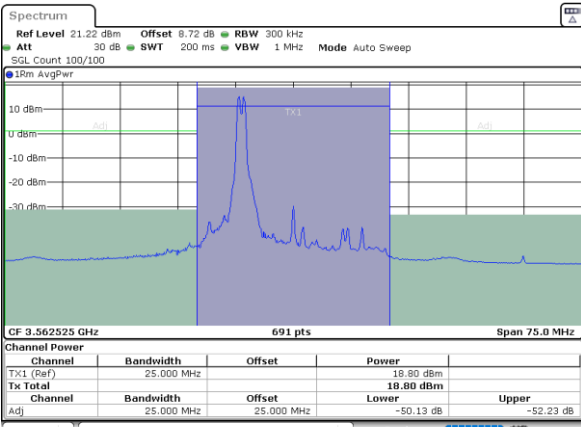


Date: 7.OCT.2022 07:13:126

Date: 7.OCT.2022 07:13:07

Lowest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0

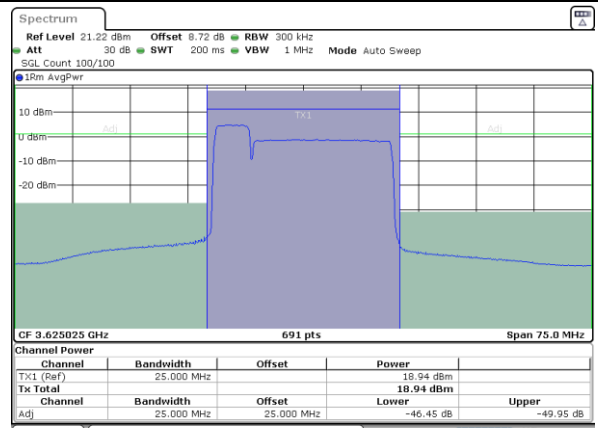
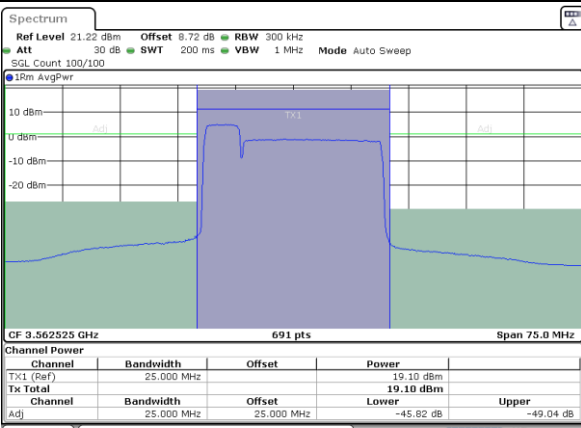


Date: 7.OCT.2022 07:13:105

Date: 7.OCT.2022 07:13:723

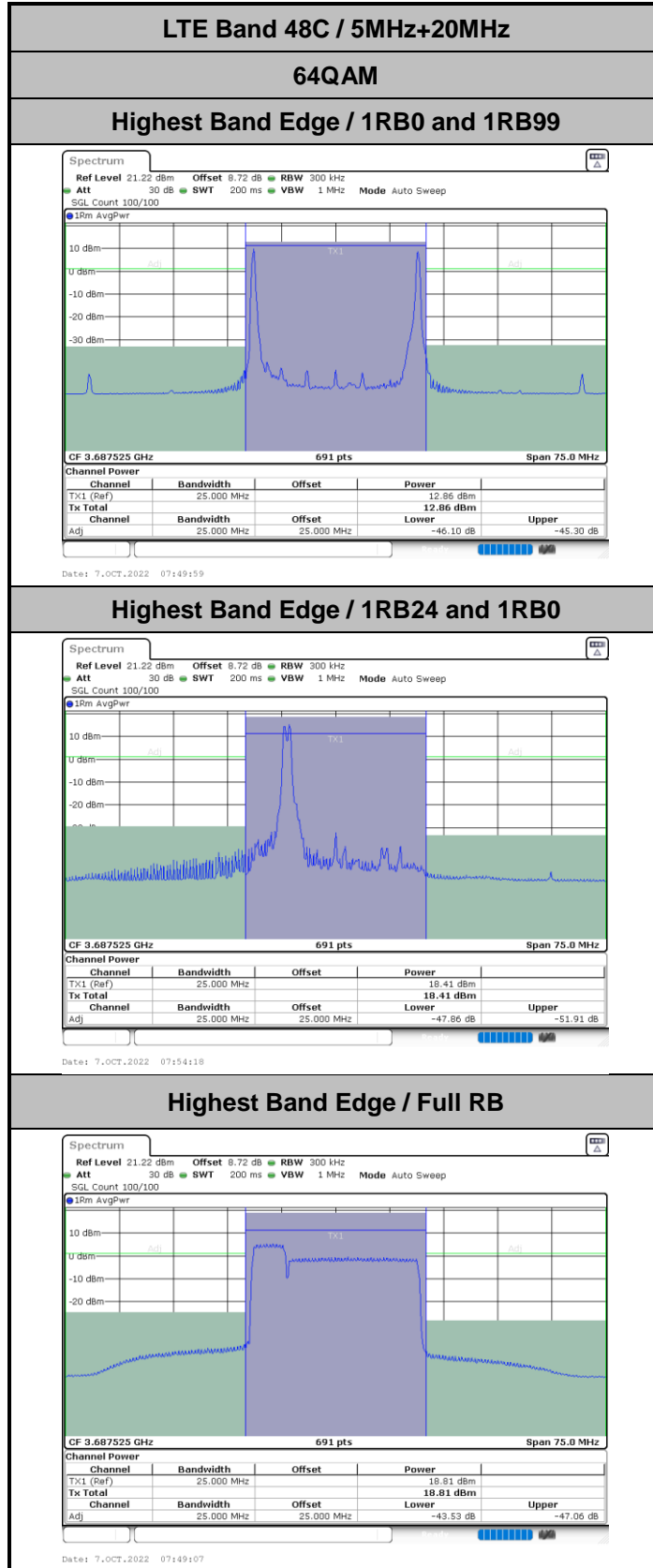
Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 7.OCT.2022 07:13:142

Date: 7.OCT.2022 07:14:46



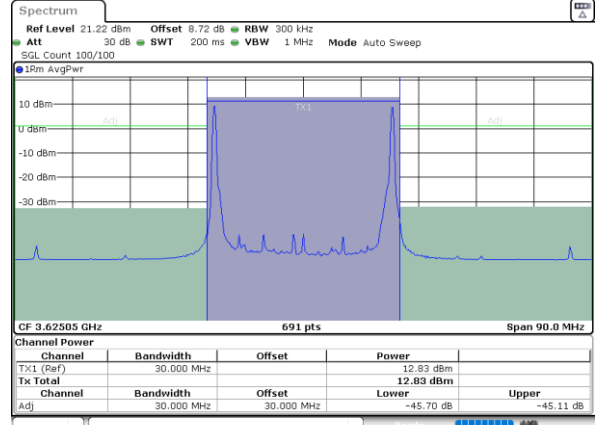
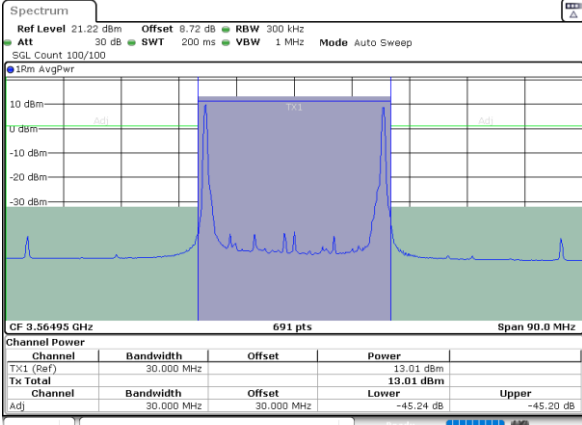


LTE Band 48C / 10MHz+20MHz

QPSK

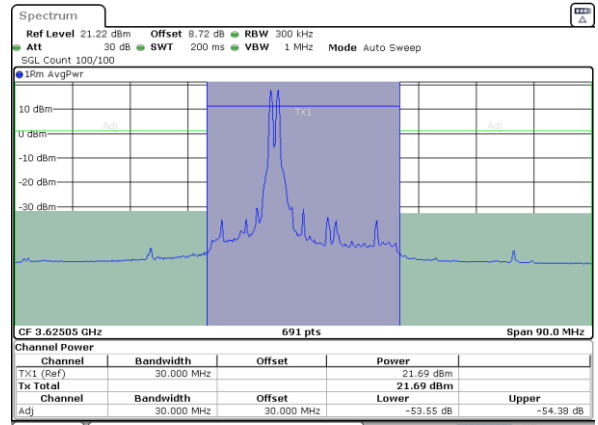
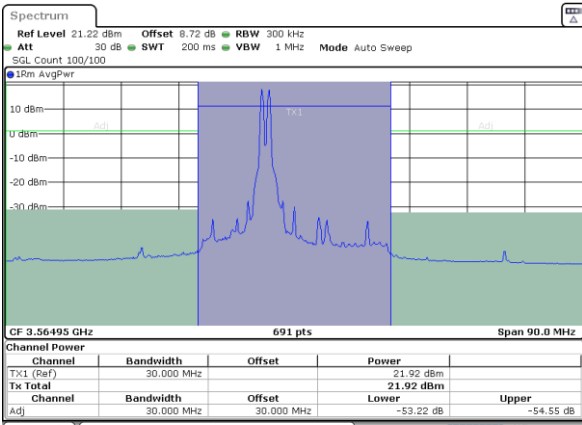
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



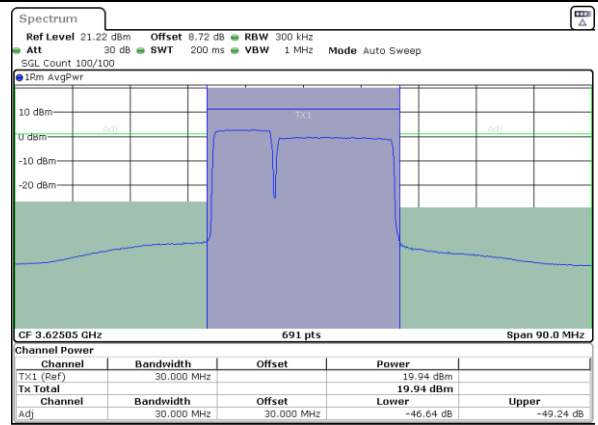
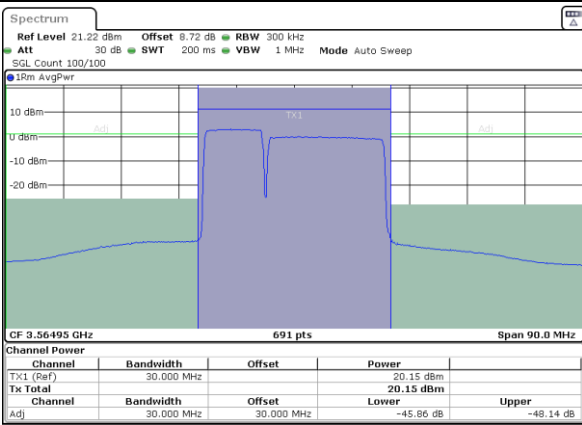
Lowest Band Edge / 1RB49 and 1RB0

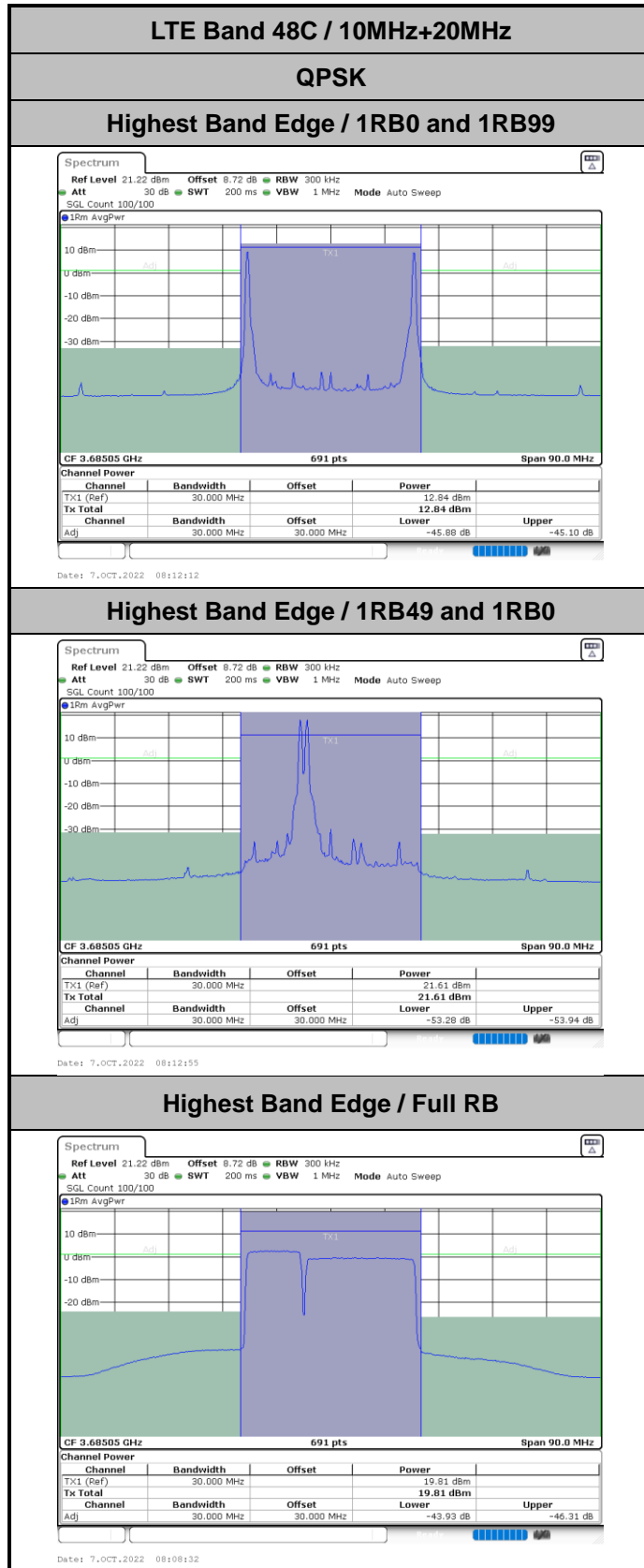
Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB





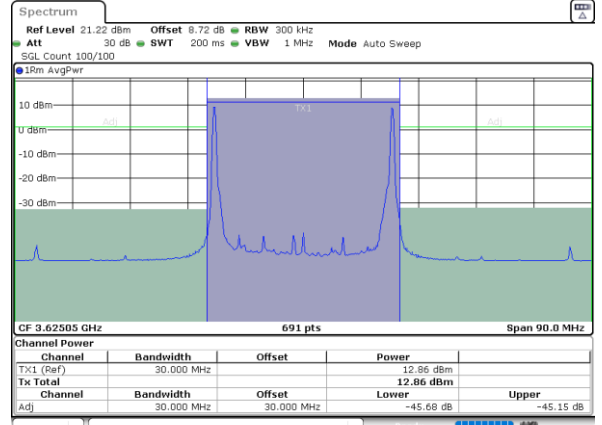
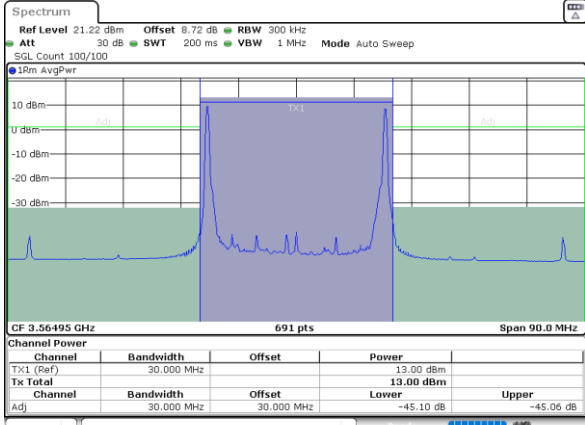


LTE Band 48C / 10MHz+20MHz

16QAM

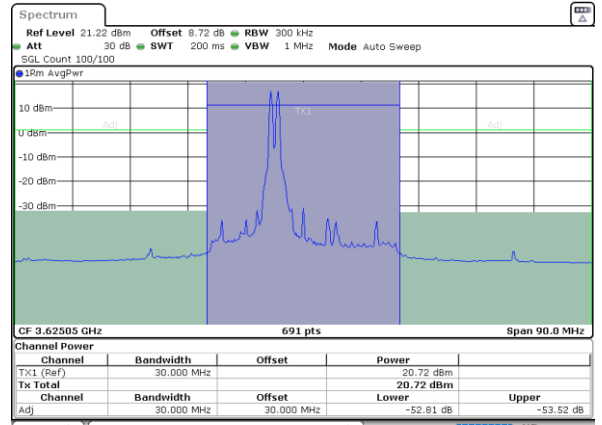
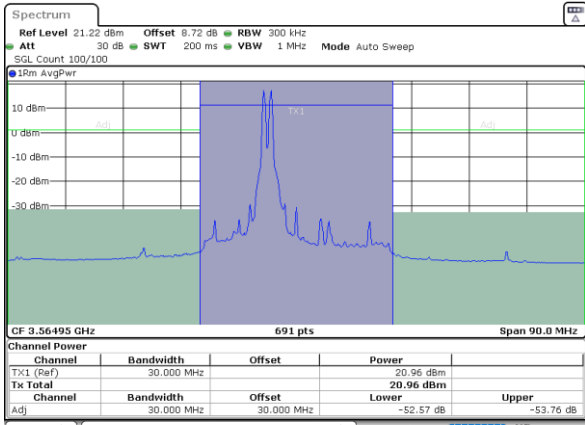
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



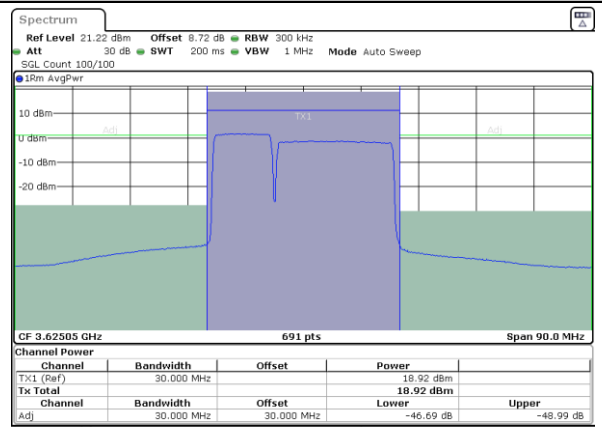
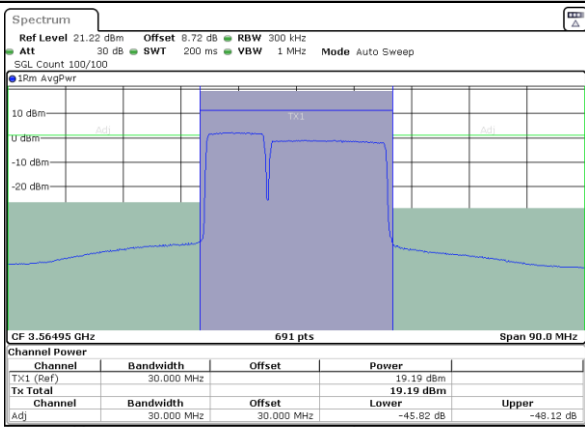
Lowest Band Edge / 1RB49 and 1RB0

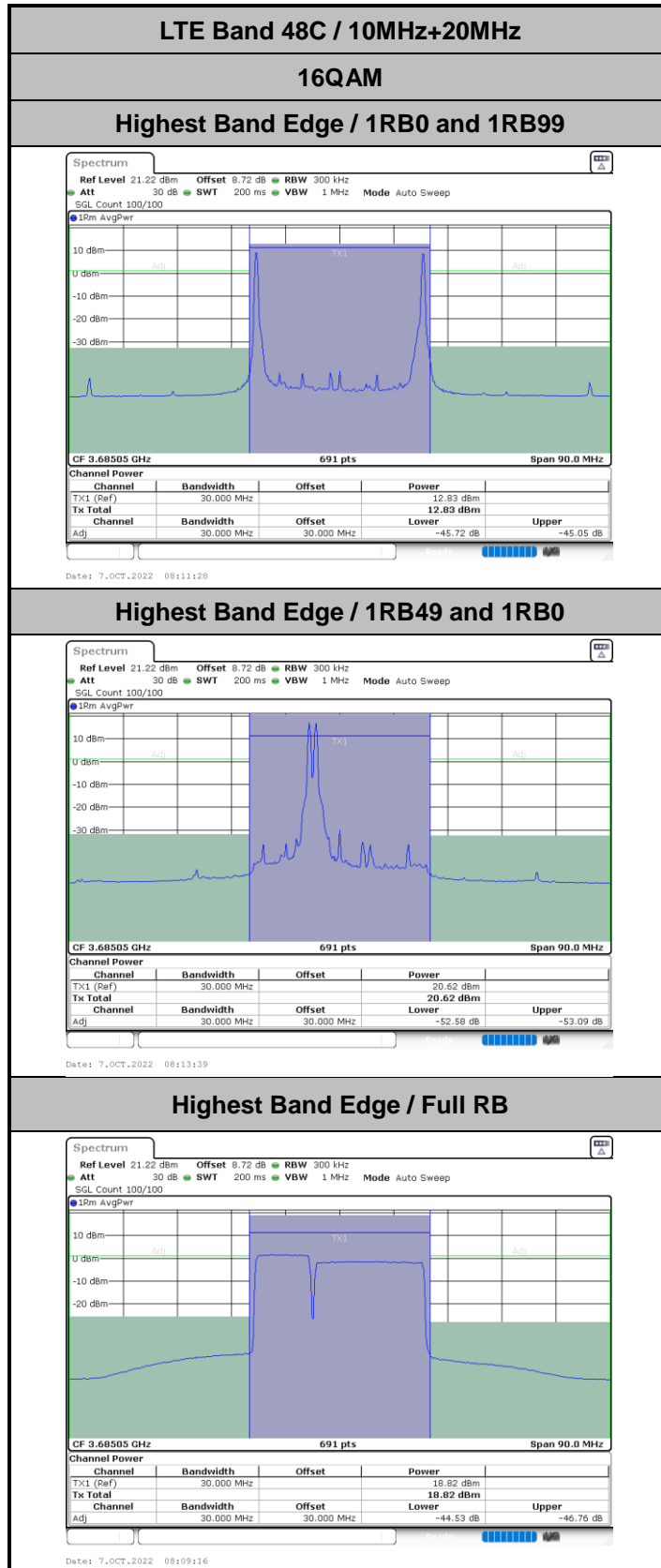
Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB





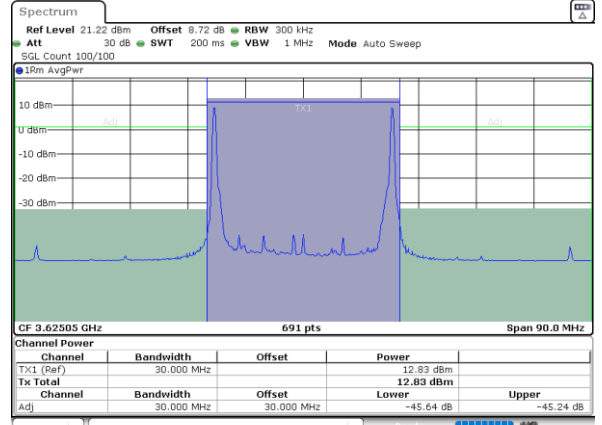
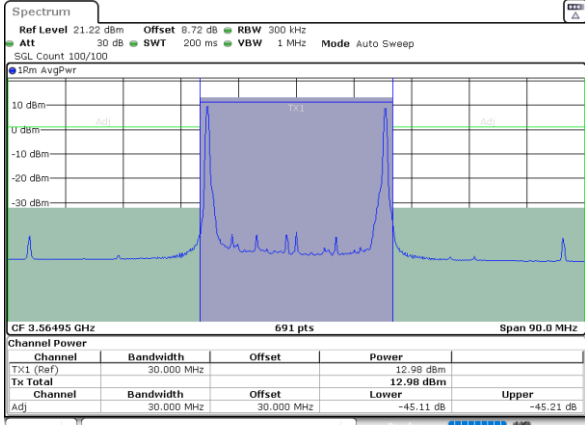


LTE Band 48C / 10MHz+20MHz

64QAM

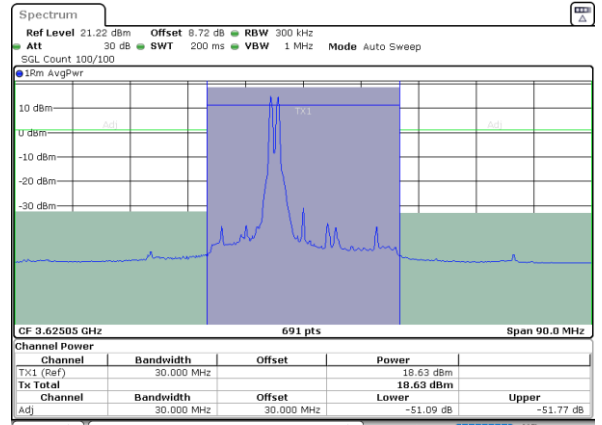
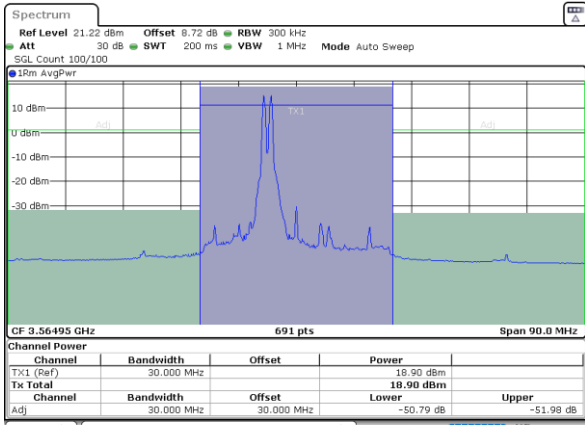
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



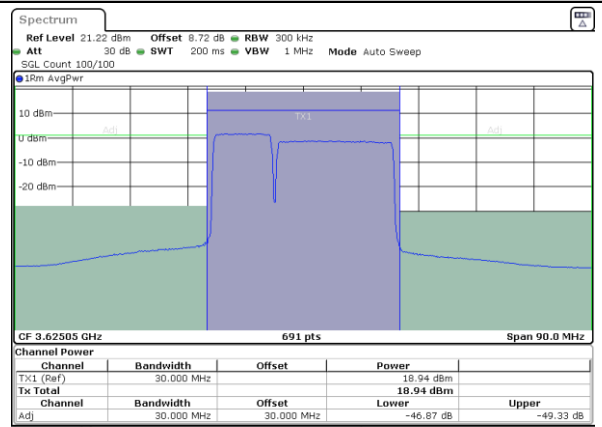
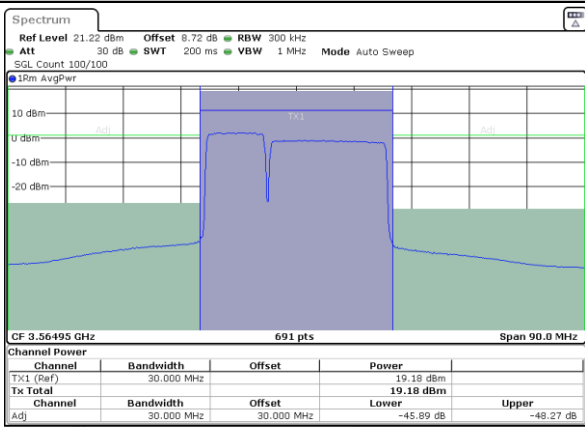
Lowest Band Edge / 1RB49 and 1RB0

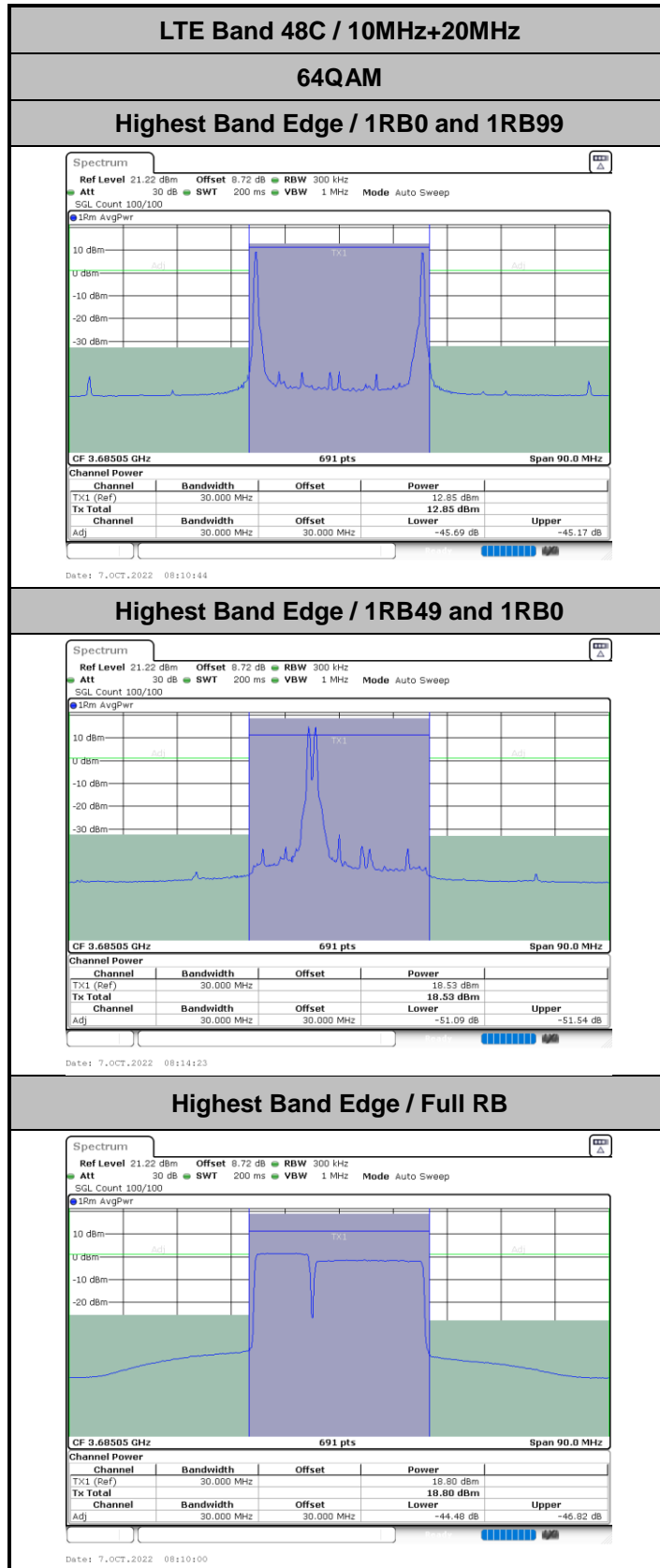
Middle Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



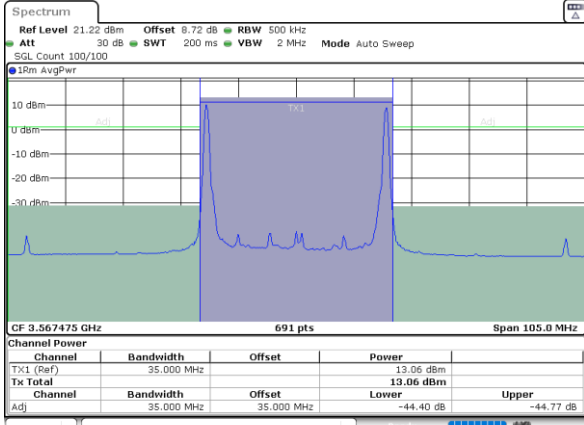




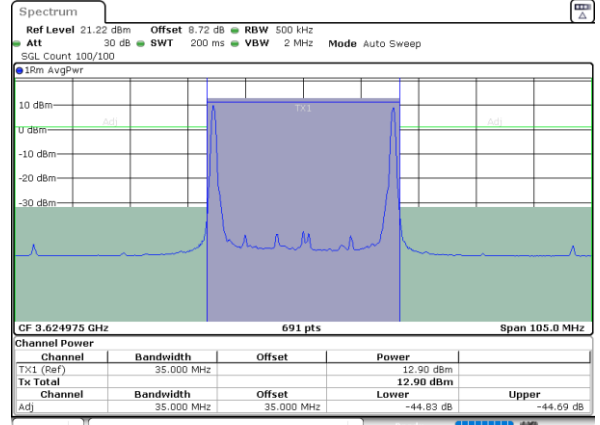
LTE Band 48C / 15MHz+20MHz

QPSK

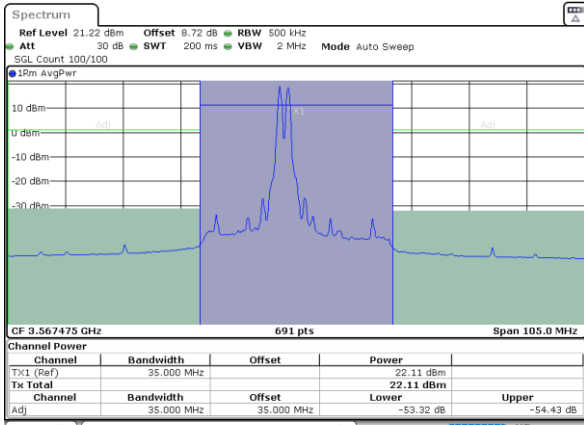
Lowest Band Edge / 1RB0 and 1RB99



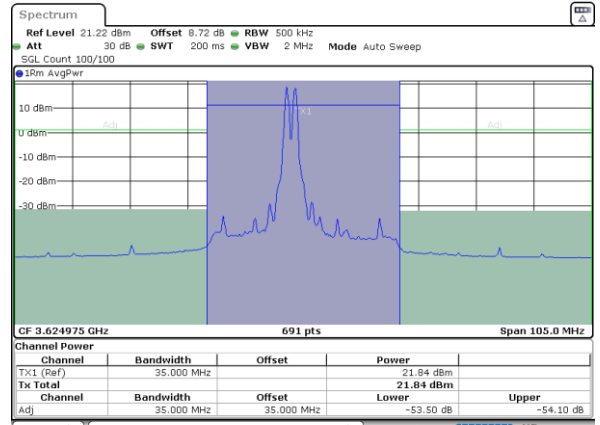
Middle Band Edge / 1RB0 and 1RB99



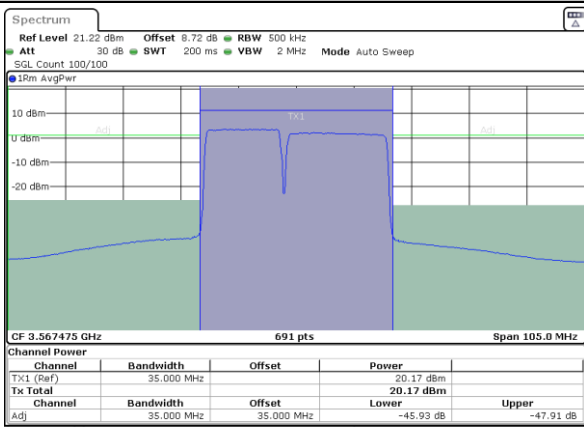
Lowest Band Edge / 1RB74 and 1RB0



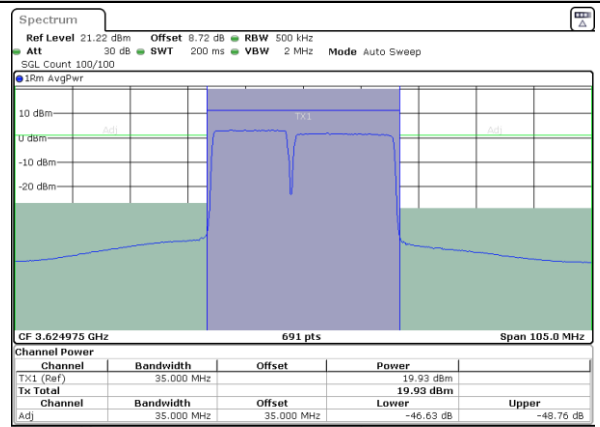
Middle Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Middle Band Edge / Full RB



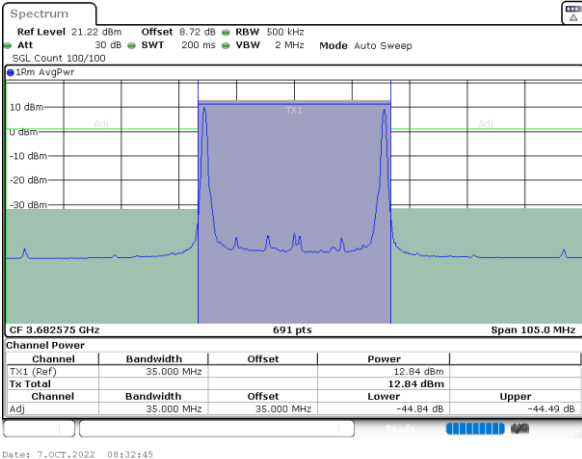


LTE Band 48C / 15MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

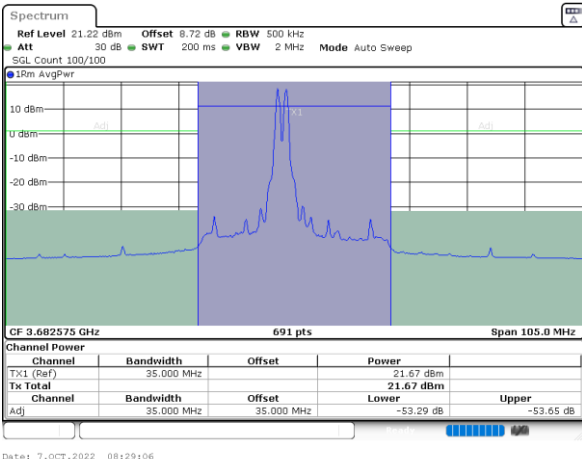
N/A



Date: 7.OCT.2022 08:12:45

Highest Band Edge / 1RB74 and 1RB0

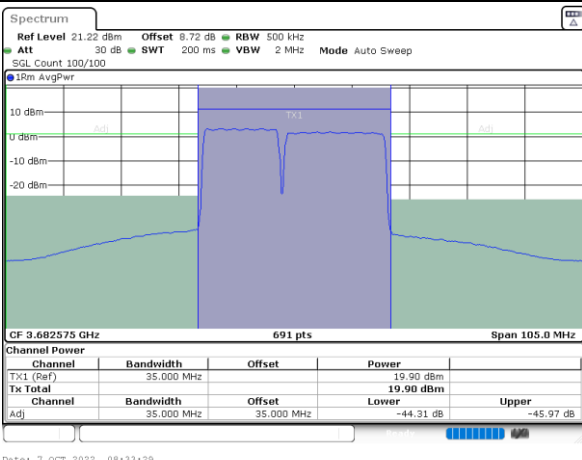
N/A



Date: 7.OCT.2022 08:29:06

Highest Band Edge / Full RB

N/A



Date: 7.OCT.2022 08:33:29

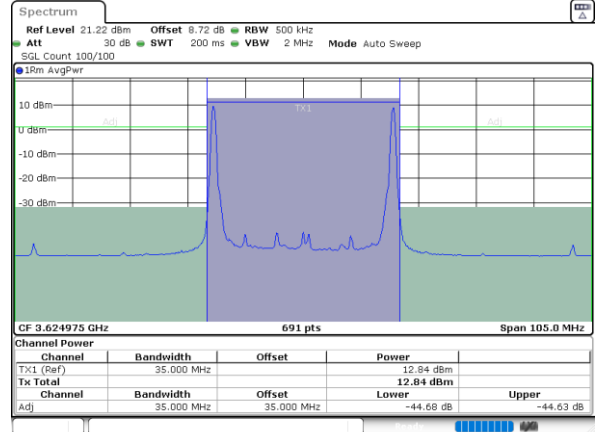
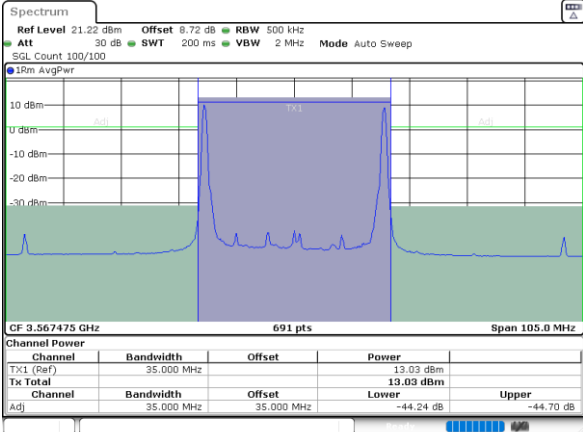


LTE Band 48C / 15MHz+20MHz

16QAM

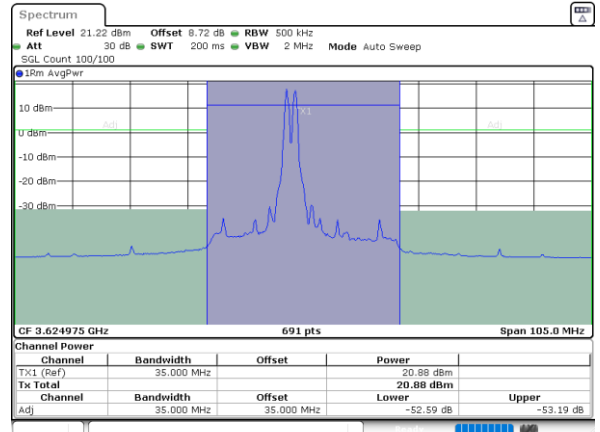
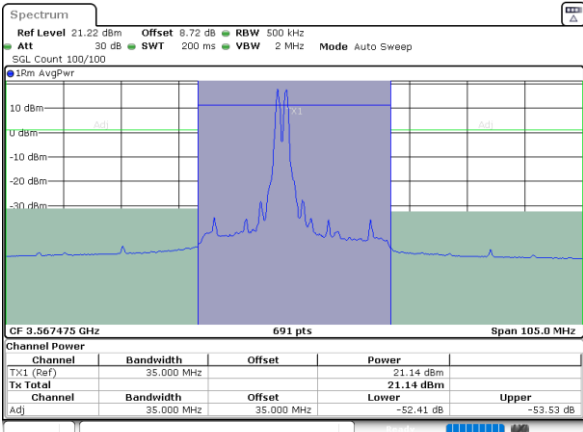
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



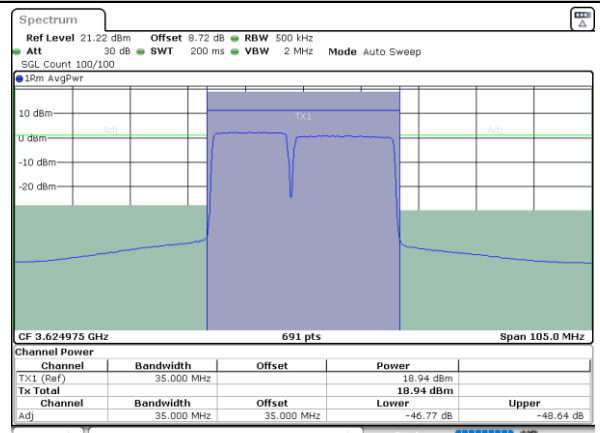
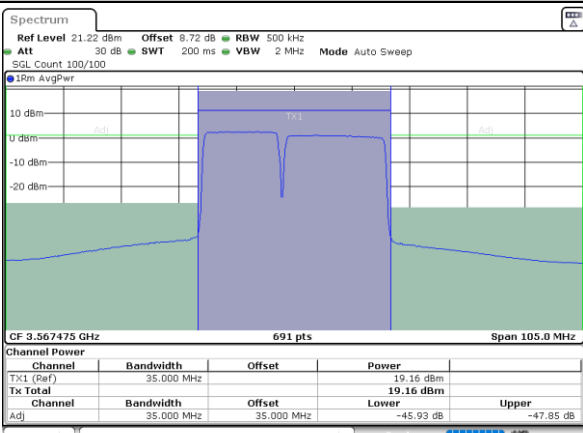
Lowest Band Edge / 1RB74 and 1RB0

Middle Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



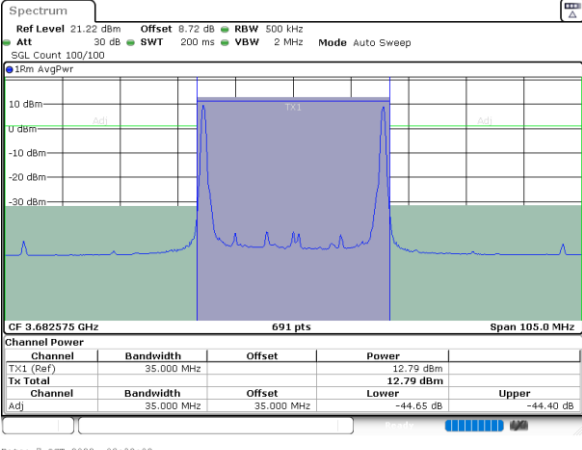


LTE Band 48C / 15MHz+20MHz

16QAM

Highest Band Edge / 1RB0 and 1RB99

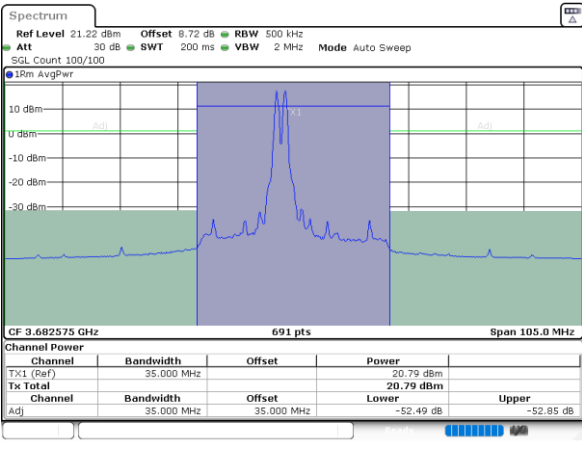
N/A



Date: 7.OCT.2022 08:12:02

Highest Band Edge / 1RB74 and 1RB0

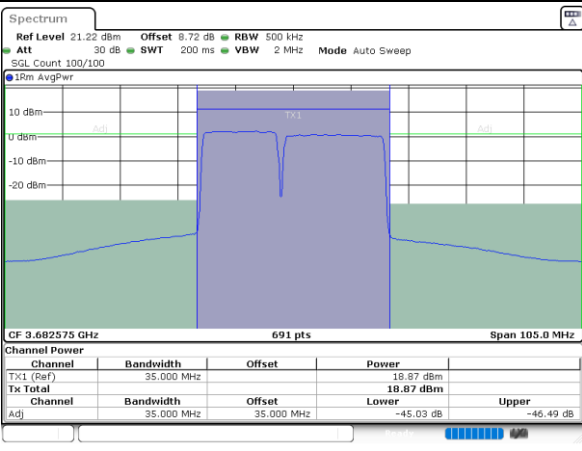
N/A



Date: 7.OCT.2022 08:29:50

Highest Band Edge / Full RB

N/A



Date: 7.OCT.2022 08:34:13

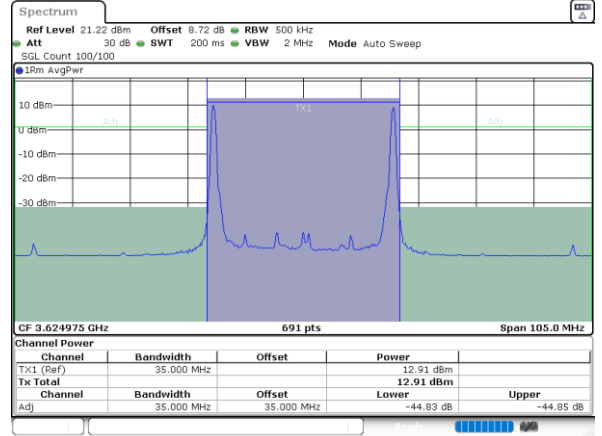
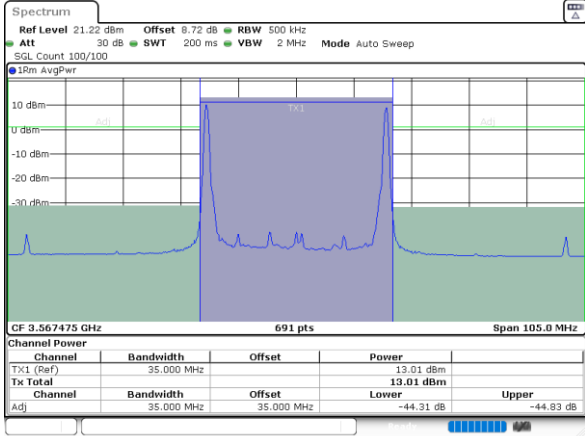


LTE Band 48C / 15MHz+20MHz

64QAM

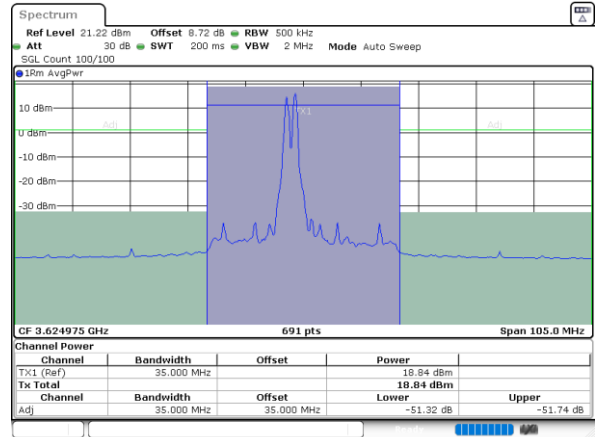
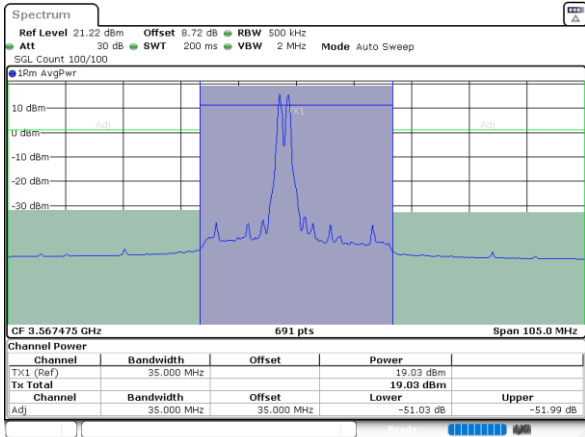
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



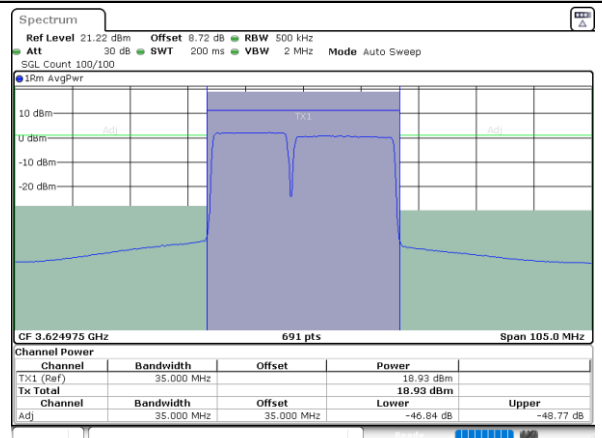
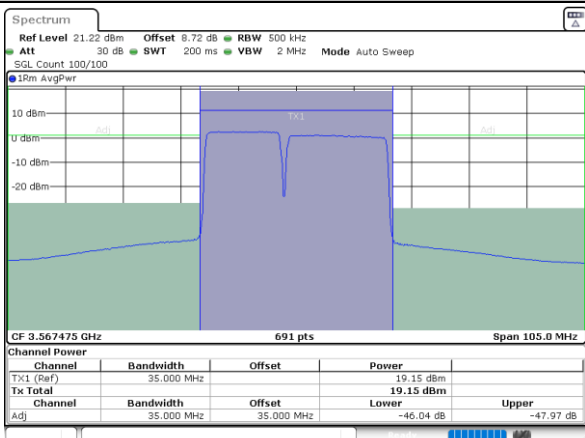
Lowest Band Edge / 1RB74 and 1RB0

Middle Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



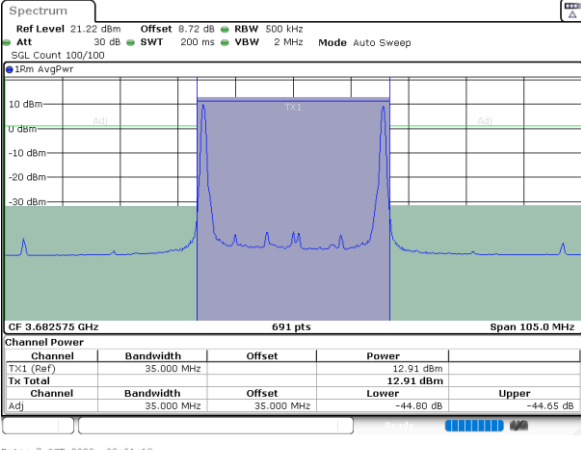


LTE Band 48C / 15MHz+20MHz

64QAM

Highest Band Edge / 1RB0 and 1RB99

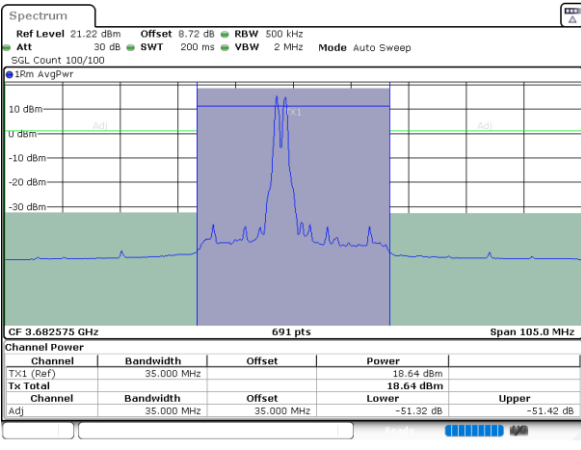
N/A



Date: 7.OCT.2022 08:13:18

Highest Band Edge / 1RB74 and 1RB0

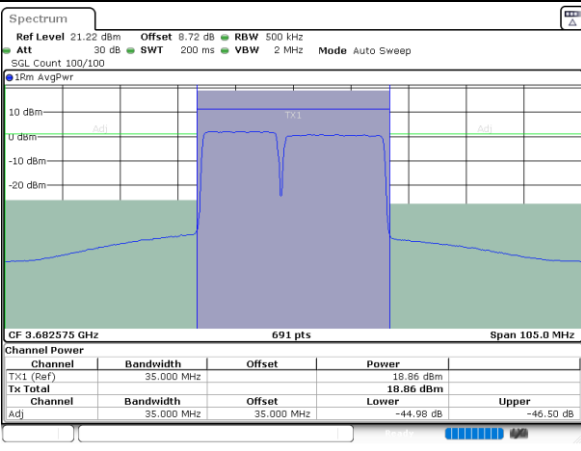
N/A



Date: 7.OCT.2022 08:30:34

Highest Band Edge / Full RB

N/A



Date: 7.OCT.2022 08:34:57

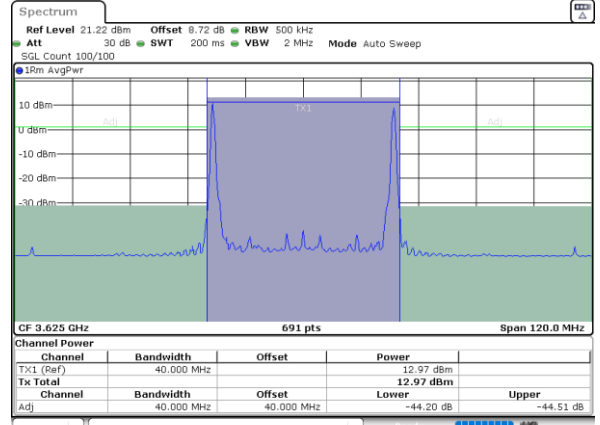
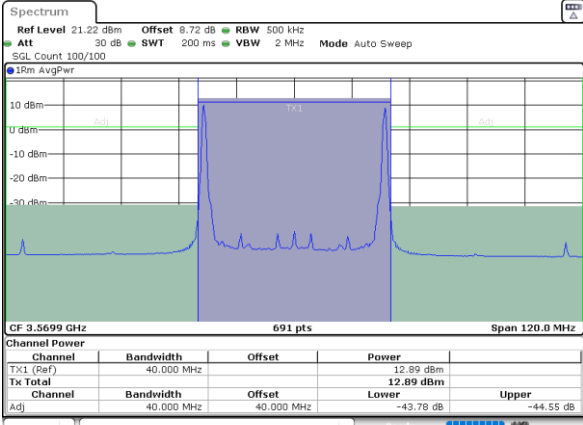


LTE Band 48C / 20MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB9

Middle Band Edge / 1RB0 and 1RB9

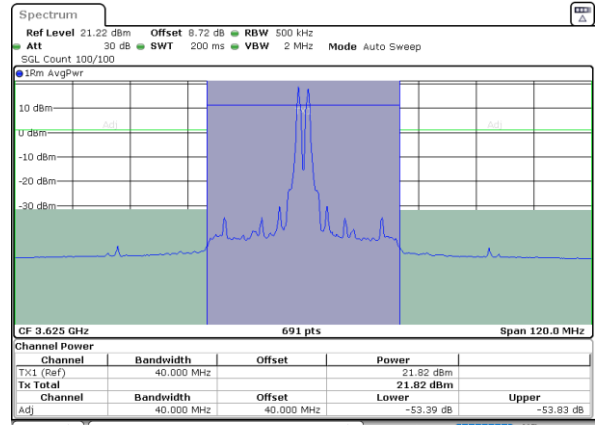
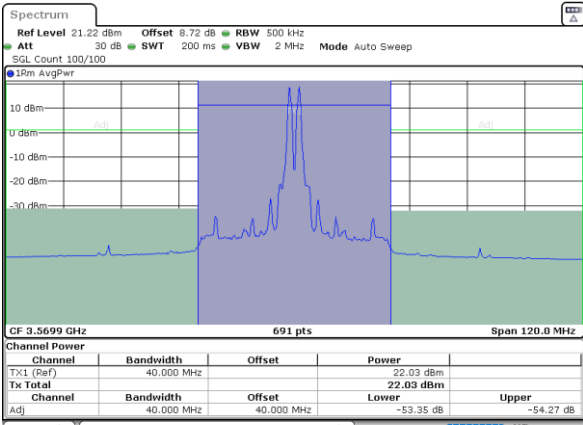


Date: 7.OCT.2022 08:13:13

Date: 7.OCT.2022 08:16:17

Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0

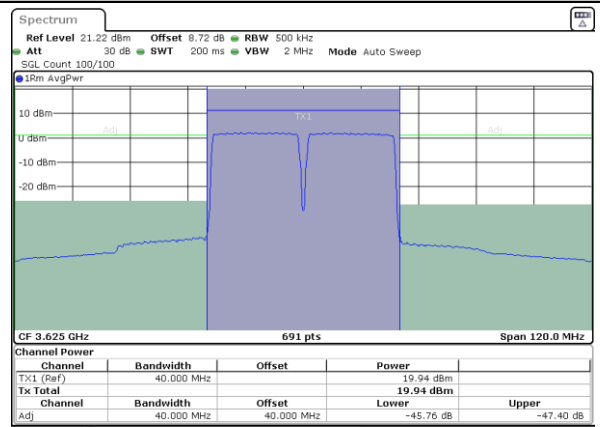
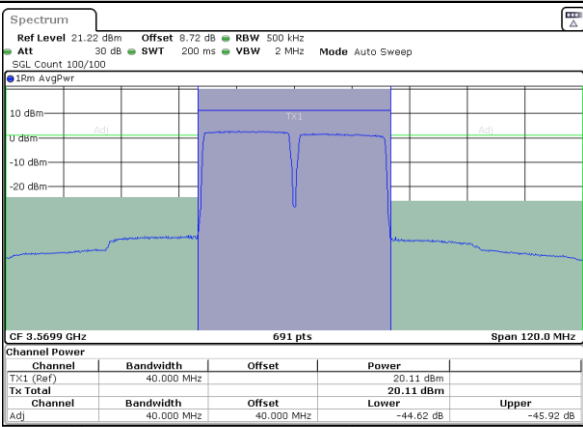


Date: 7.OCT.2022 08:14:17

Date: 7.OCT.2022 08:14:35

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 7.OCT.2022 08:15:50

Date: 7.OCT.2022 08:17:01

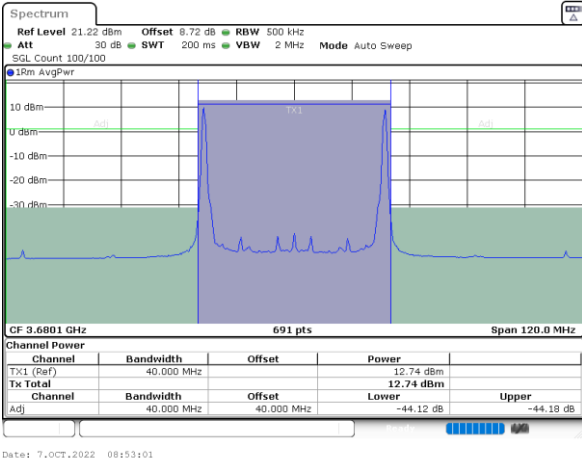


LTE Band 48C / 20MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

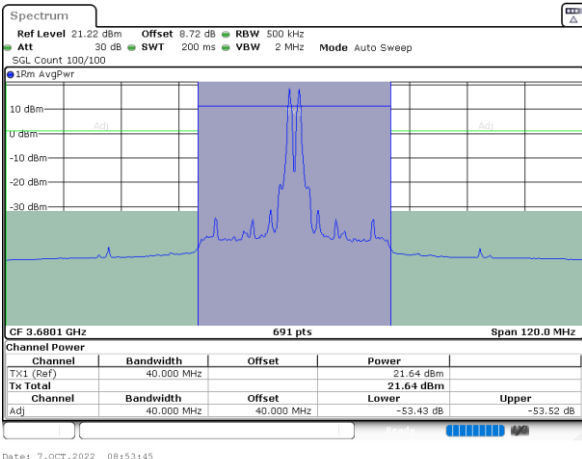
N/A



Date: 7.OCT.2022 08:53:01

Highest Band Edge / 1RB99 and 1RB0

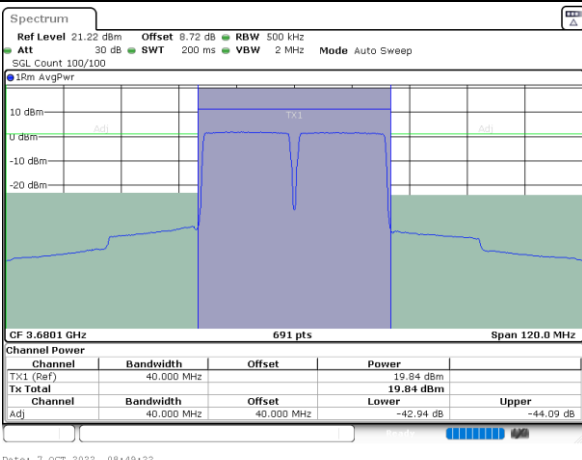
N/A



Date: 7.OCT.2022 08:53:45

Highest Band Edge / Full RB

N/A



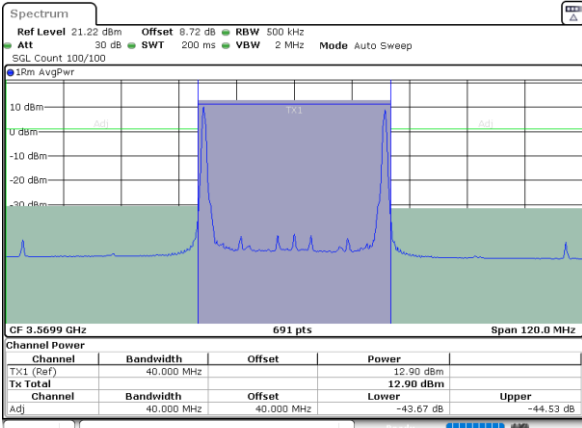
Date: 7.OCT.2022 08:49:22



LTE Band 48C / 20MHz+20MHz

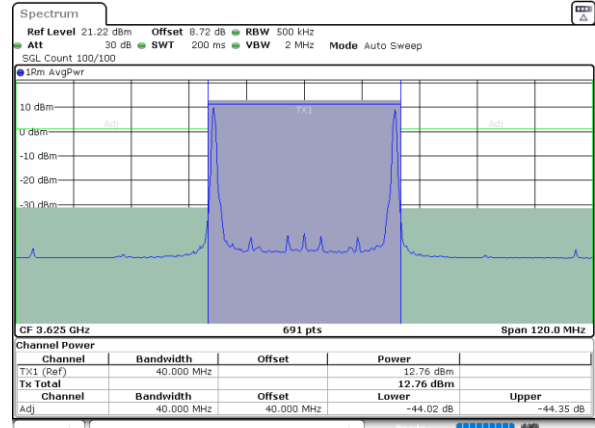
16QAM

Lowest Band Edge / 1RB0 and 1RB99



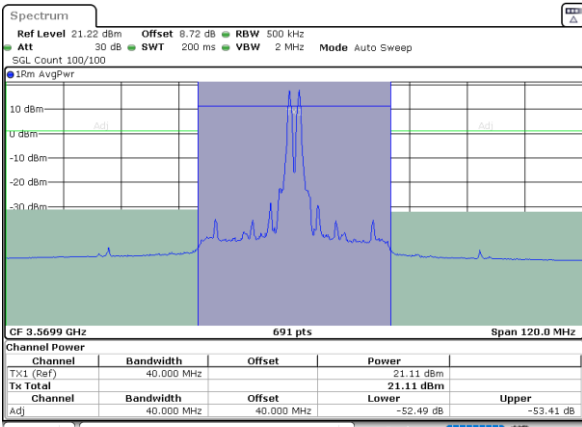
Date: 7.OCT.2022 08:13:49

Middle Band Edge / 1RB0 and 1RB99



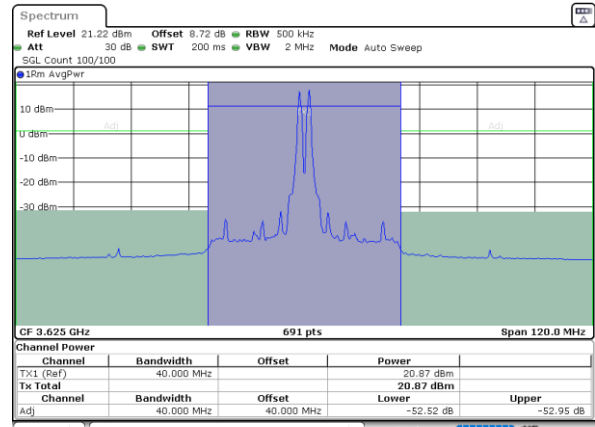
Date: 7.OCT.2022 08:45:33

Lowest Band Edge / 1RB99 and 1RB0



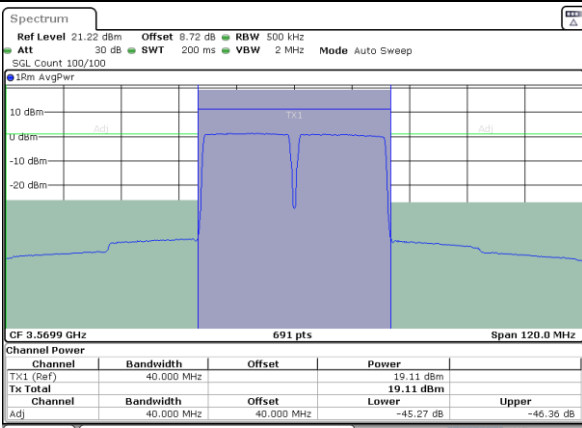
Date: 7.OCT.2022 08:41:01

Middle Band Edge / 1RB99 and 1RB0



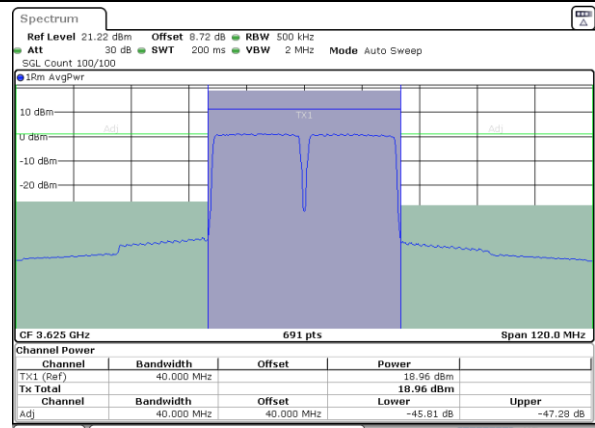
Date: 7.OCT.2022 08:43:19

Lowest Band Edge / Full RB



Date: 7.OCT.2022 08:16:14

Middle Band Edge / Full RB



Date: 7.OCT.2022 08:47:46

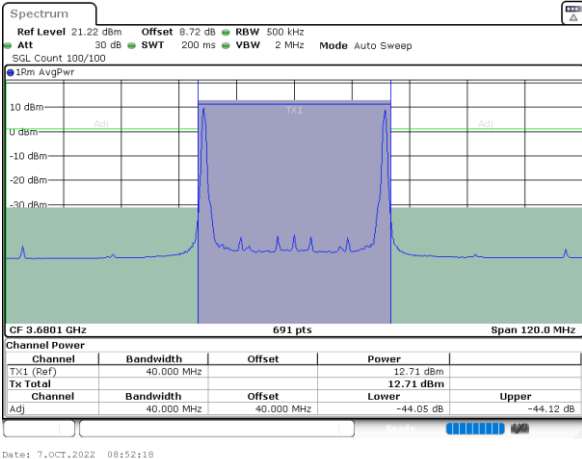


LTE Band 48C / 20MHz+20MHz

16QAM

Highest Band Edge / 1RB0 and 1RB99

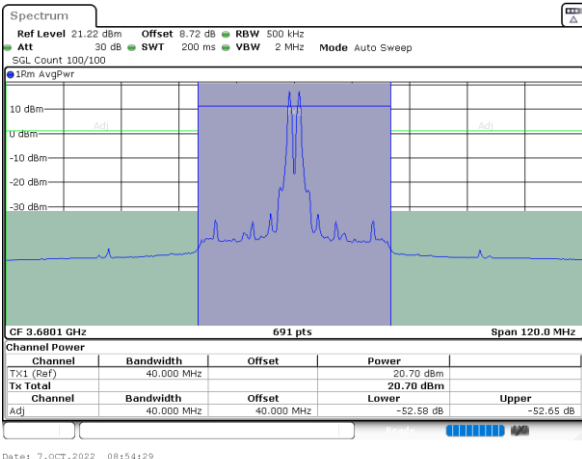
N/A



Date: 7.OCT.2022 08:52:18

Highest Band Edge / 1RB99 and 1RB0

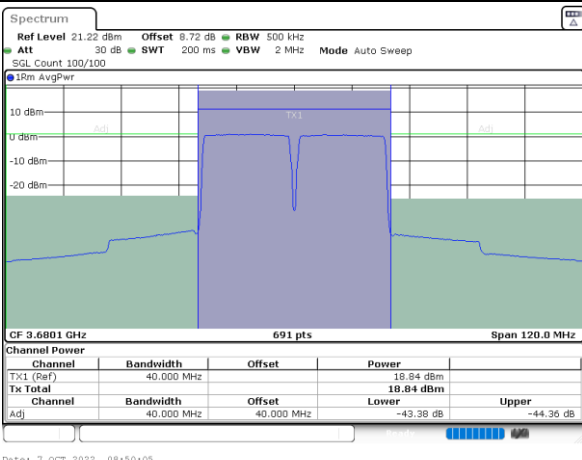
N/A



Date: 7.OCT.2022 08:54:29

Highest Band Edge / Full RB

N/A



Date: 7.OCT.2022 08:50:05

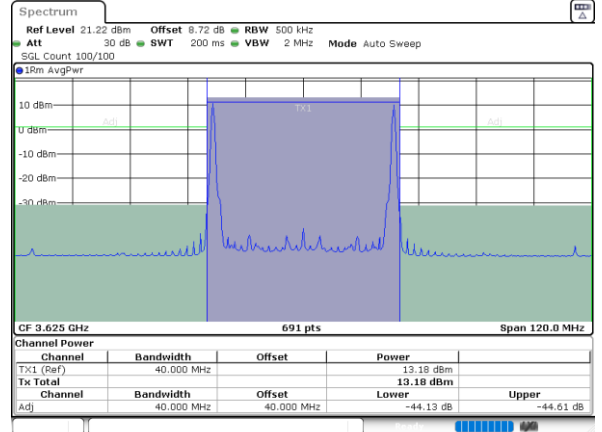
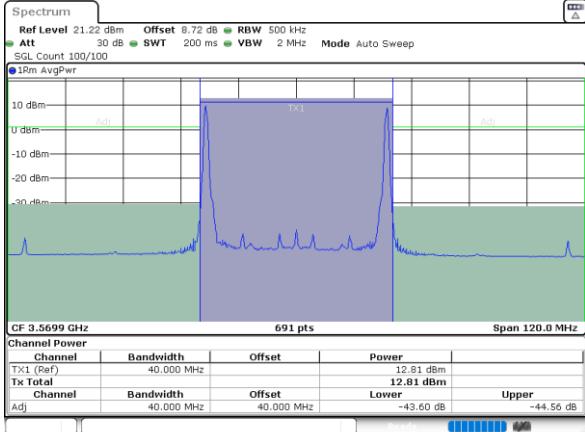


LTE Band 48C / 20MHz+20MHz

64QAM

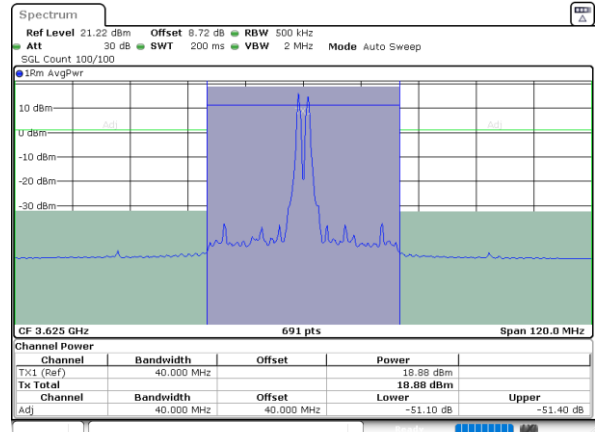
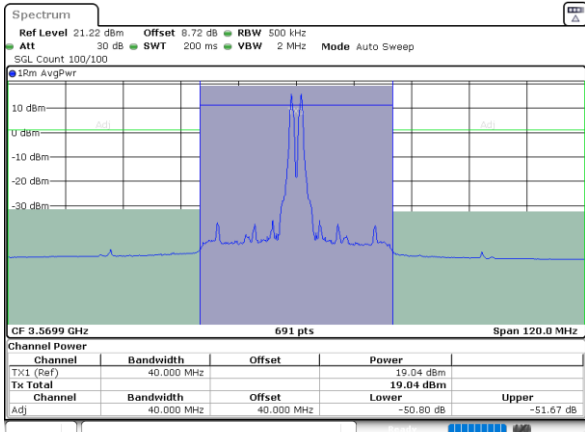
Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99



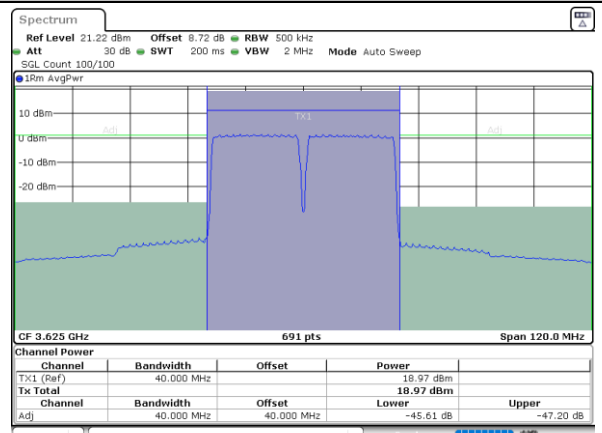
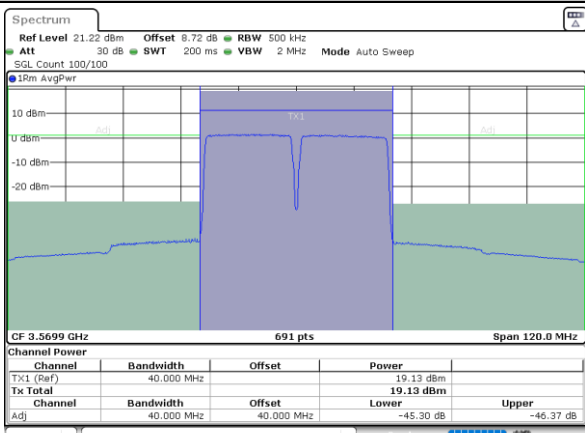
Lowest Band Edge / 1RB99 and 1RB0

Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB

Middle Band Edge / Full RB



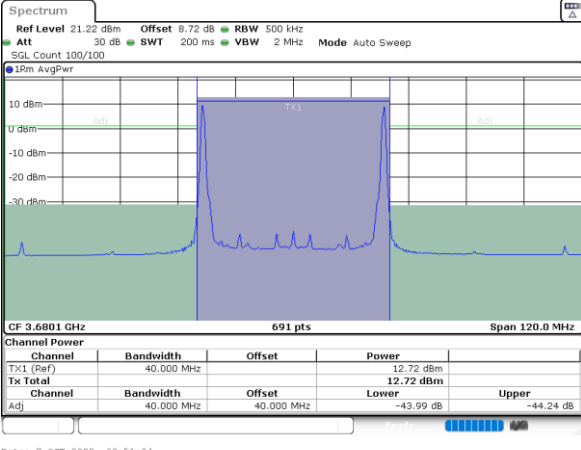


LTE Band 48C / 20MHz+20MHz

64QAM

Highest Band Edge / 1RB0 and 1RB99

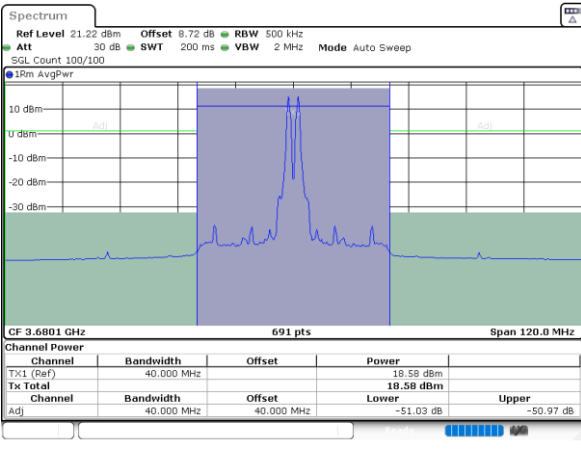
N/A



Date: 7.OCT.2022 08:51:34

Highest Band Edge / 1RB99 and 1RB0

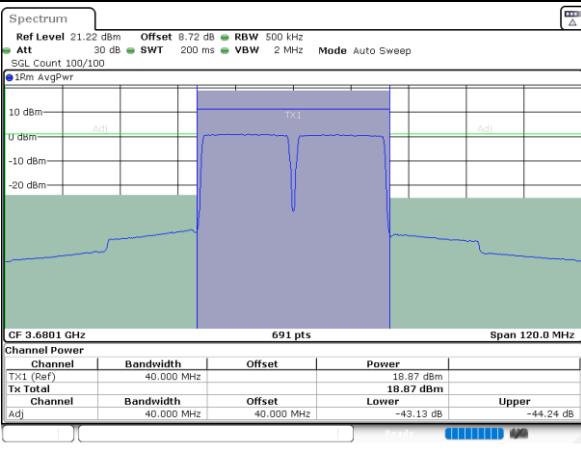
N/A



Date: 7.OCT.2022 08:55:13

Highest Band Edge / Full RB

N/A



Date: 7.OCT.2022 08:50:49



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0012	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.48 V.
2. Note: 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	-52.71	-40	-12.71	-64.17	2.84	14.30	H
	10656	-62.31	-40	-22.31	-72.25	3.49	13.43	H
	14202	-59.71	-40	-19.71	-69.95	3.85	14.09	H
	7104	-54.22	-40	-14.22	-65.68	2.84	14.30	V
	10656	-60.27	-40	-20.27	-70.21	3.49	13.43	V
	14202	-58.21	-40	-18.21	-68.45	3.85	14.09	V
Middle	7230	-58.00	-40	-18.00	-69.46	2.84	14.30	H
	10848	-60.15	-40	-20.15	-70.09	3.49	13.43	H
	14466	-58.62	-40	-18.62	-68.86	3.85	14.09	H
	7230	-54.59	-40	-14.59	-66.05	2.84	14.30	V
	10848	-60.19	-40	-20.19	-70.13	3.49	13.43	V
	14466	-58.54	-40	-18.54	-68.78	3.85	14.09	V
Highest	7362	-60.03	-40	-20.03	-71.49	2.84	14.30	H
	11040	-60.44	-40	-20.44	-70.38	3.49	13.43	H
	14724	-58.96	-40	-18.96	-69.20	3.85	14.09	H
	7362	-59.61	-40	-19.61	-71.07	2.84	14.30	V
	11040	-60.15	-40	-20.15	-70.09	3.49	13.43	V
	14724	-59.35	-40	-19.35	-69.59	3.85	14.09	V

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



LTE Band CA_48B / 10MHz+10MHz / 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)	7224	-63.08	-40	-23.08	-74.54	2.84	14.30	H
	10836	-61.48	-40	-21.48	-71.42	3.49	13.43	H
	14442	-62.68	-40	-22.68	-72.92	3.85	14.09	H
	7224	-63.50	-40	-23.50	-74.96	2.84	14.30	V
	10836	-61.79	-40	-21.79	-71.73	3.49	13.43	V
	14442	-62.41	-40	-22.41	-72.65	3.85	14.09	V
Lowest (1RBMAX)	7260	-62.97	-40	-22.97	-74.43	2.84	14.30	H
	10884	-61.62	-40	-21.62	-71.56	3.49	13.43	H
	14514	-60.35	-40	-20.35	-70.59	3.85	14.09	H
	7260	-63.06	-40	-23.06	-74.52	2.84	14.30	V
	10884	-61.20	-40	-21.20	-71.14	3.49	13.43	V
	14514	-60.85	-40	-20.85	-71.09	3.85	14.09	V
Middle (1RB0)	7092	-63.59	-40	-23.59	-75.05	2.84	14.30	H
	10638	-61.91	-40	-21.91	-71.85	3.49	13.43	H
	14184	-61.70	-40	-21.70	-71.94	3.85	14.09	H
	7092	-63.58	-40	-23.58	-75.04	2.84	14.30	V
	10638	-62.62	-40	-22.62	-72.56	3.49	13.43	V
	14184	-61.79	-40	-21.79	-72.03	3.85	14.09	V
Middle (1RBMAX)	7128	-63.91	-40	-23.91	-75.37	2.84	14.30	H
	10692	-62.00	-40	-22.00	-71.94	3.49	13.43	H
	14256	-61.25	-40	-21.25	-71.49	3.85	14.09	H
	7128	-63.67	-40	-23.67	-75.13	2.84	14.30	V
	10692	-62.67	-40	-22.67	-72.61	3.49	13.43	V
	14256	-61.90	-40	-21.90	-72.14	3.85	14.09	V
Highest (1RB0)	7350	-63.71	-40	-23.71	-75.17	2.84	14.30	H
	11028	-61.80	-40	-21.80	-71.74	3.49	13.43	H
	14706	-60.70	-40	-20.70	-70.94	3.85	14.09	H
	7350	-63.73	-40	-23.73	-75.19	2.84	14.30	V
	11028	-61.77	-40	-21.77	-71.71	3.49	13.43	V
	14706	-60.64	-40	-20.64	-70.88	3.85	14.09	V
Highest (1RBMAX)	7350	-63.71	-40	-23.71	-75.17	2.84	14.30	H
	11028	-61.80	-40	-21.80	-71.74	3.49	13.43	H
	14706	-60.70	-40	-20.70	-70.94	3.85	14.09	H
	7350	-63.73	-40	-23.73	-75.19	2.84	14.30	V
	11028	-61.77	-40	-21.77	-71.71	3.49	13.43	V
	14706	-60.64	-40	-20.64	-70.88	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	-52.61	-40	-12.61	-64.07	2.84	14.30	H
	10656	-62.05	-40	-22.05	-71.99	3.49	13.43	H
	14202	-58.04	-40	-18.04	-68.28	3.85	14.09	H
	7104	-54.68	-40	-14.68	-66.14	2.84	14.30	V
	10656	-61.80	-40	-21.80	-71.74	3.49	13.43	V
	14202	-58.50	-40	-18.50	-68.74	3.85	14.09	V
Lowest (1RBMAX)	7140	-63.94	-40	-23.94	-75.40	2.84	14.30	H
	10704	-61.84	-40	-21.84	-71.78	3.49	13.43	H
	14274	-59.92	-40	-19.92	-70.16	3.85	14.09	H
	7140	-64.10	-40	-24.10	-75.56	2.84	14.30	V
	10704	-61.76	-40	-21.76	-71.70	3.49	13.43	V
	14274	-60.04	-40	-20.04	-70.28	3.85	14.09	V
Middle (1RB0)	7182	-55.52	-40	-15.52	-66.98	2.84	14.30	H
	10776	-61.24	-40	-21.24	-71.18	3.49	13.43	H
	14364	-56.91	-40	-16.91	-67.15	3.85	14.09	H
	7182	-55.80	-40	-15.80	-67.26	2.84	14.30	V
	10776	-60.98	-40	-20.98	-70.92	3.49	13.43	V
	14364	-59.33	-40	-19.33	-69.57	3.85	14.09	V
Middle (1RBMAX)	7218	-63.09	-40	-23.09	-74.55	2.84	14.30	H
	10824	-61.19	-40	-21.19	-71.13	3.49	13.43	H
	14436	-60.77	-40	-20.77	-71.01	3.85	14.09	H
	7218	-63.08	-40	-23.08	-74.54	2.84	14.30	V
	10824	-60.82	-40	-20.82	-70.76	3.49	13.43	V
	14436	-60.96	-40	-20.96	-71.20	3.85	14.09	V
Highest (1RB0)	7224	-56.95	-40	-16.95	-68.41	2.84	14.30	H
	10836	-60.66	-40	-20.66	-70.60	3.49	13.43	H
	14442	-59.51	-40	-19.51	-69.75	3.85	14.09	H
	7224	-57.79	-40	-17.79	-69.25	2.84	14.30	V
	10836	-58.18	-40	-18.18	-68.12	3.49	13.43	V
	14442	-59.24	-40	-19.24	-69.48	3.85	14.09	V
Highest (1RBMAX)	7260	-63.23	-40	-23.23	-74.69	2.84	14.30	H
	10884	-61.02	-40	-21.02	-70.96	3.49	13.43	H
	14514	-59.64	-40	-19.64	-69.88	3.85	14.09	H
	7260	-63.19	-40	-23.19	-74.65	2.84	14.30	V
	10884	-61.27	-40	-21.27	-71.21	3.49	13.43	V
	14514	-59.47	-40	-19.47	-69.71	3.85	14.09	V

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