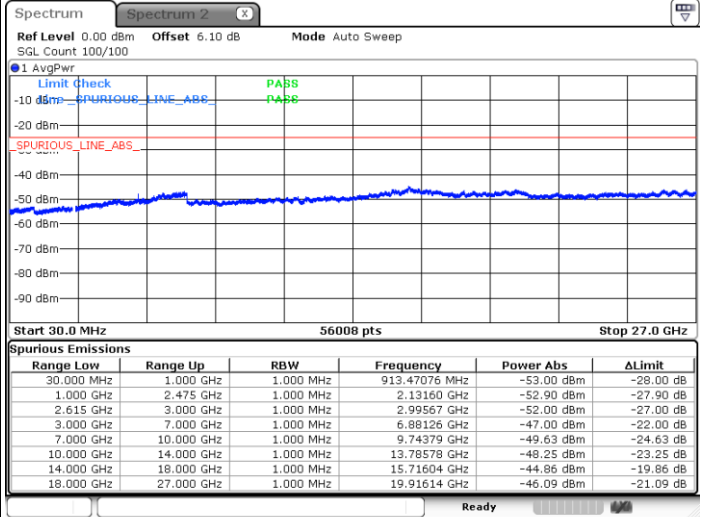
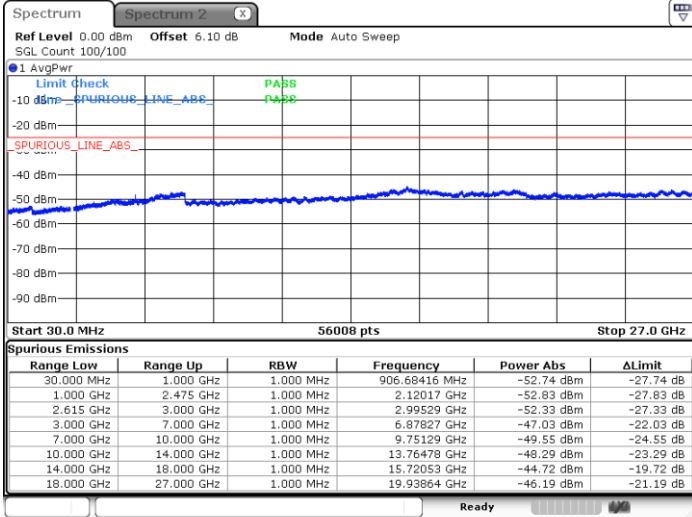




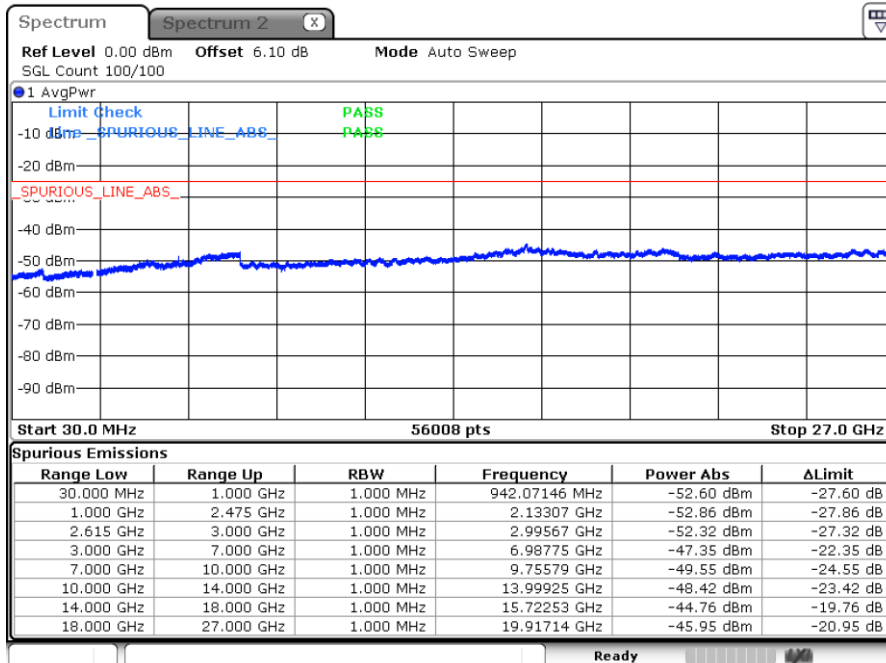
LTE Band 7C /20MHz+20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 7C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0039	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38C

26dB Bandwidth

Mode	LTE Band 38C : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.72	40.28
Mod.	QPSK	16QAM
BW	15MHz+15MHz	15MHz+15MHz
Middle CH	30.57	30.63



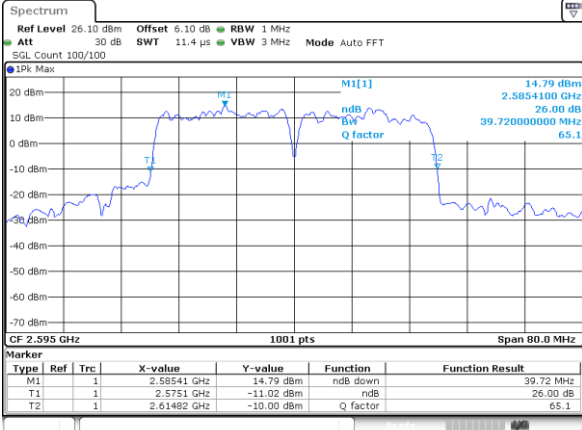
LTE Band 38C

QPSK

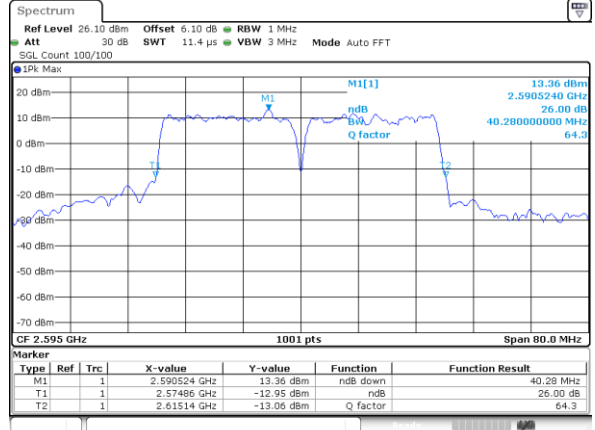
16QAM

Middle Channel / 20MHz+20MHz

Middle Channel / 20MHz+20MHz



Date: 13_MAR_2024 11:08:00



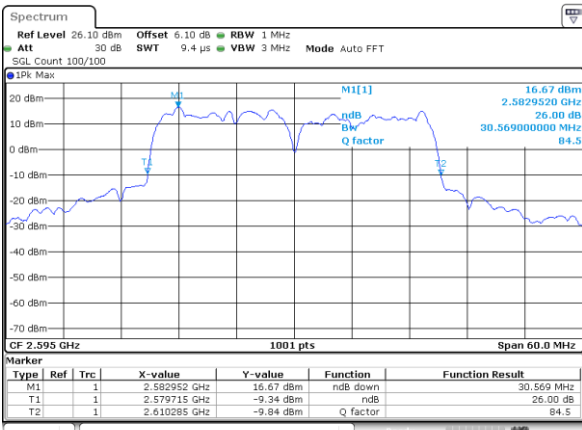
Date: 13_MAR_2024 11:09:13

QPSK

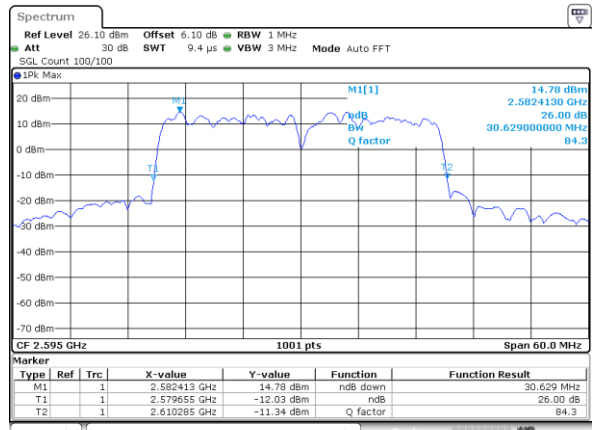
16QAM

Middle Channel / 15MHz+15MHz

Middle Channel / 15MHz+15MHz



Date: 13_MAR_2024 11:37:55



Date: 13_MAR_2024 11:33:03



Occupied Bandwidth

Mode	LTE Band 38C : 99%OBW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.88	37.96
Mod.	QPSK	16QAM
BW	15MHz+15MHz	15MHz+15MHz
Middle CH	28.41	28.65



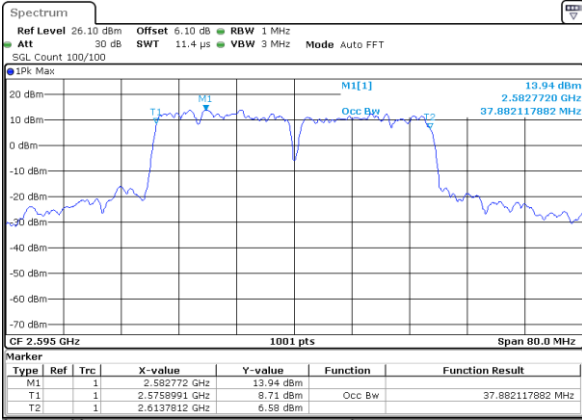
LTE Band 38C

QPSK

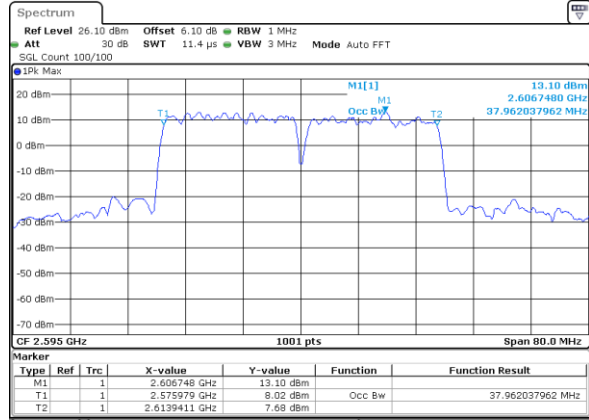
16QAM

Middle Channel / 20MHz+20MHz

Middle Channel / 20MHz+20MHz



Date: 13_MAR_2024 11:07:16



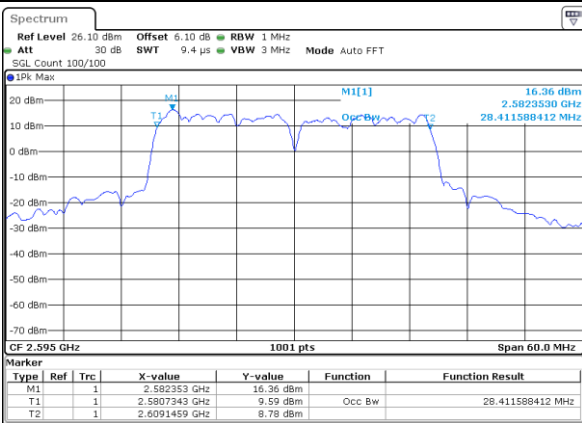
Date: 13_MAR_2024 11:08:43

QPSK

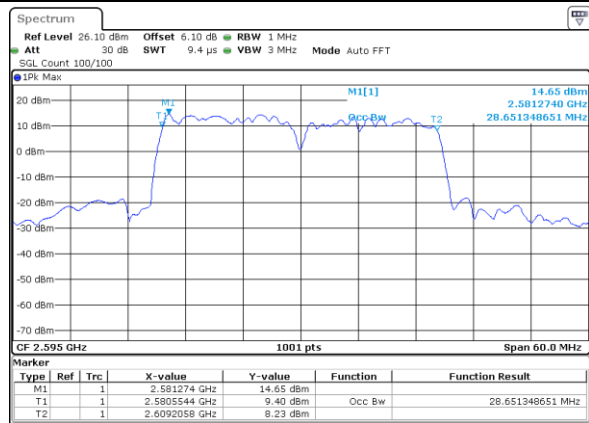
16QAM

Middle Channel / 15MHz+15MHz

Middle Channel / 15MHz+15MHz



Date: 13_MAR_2024 11:36:27



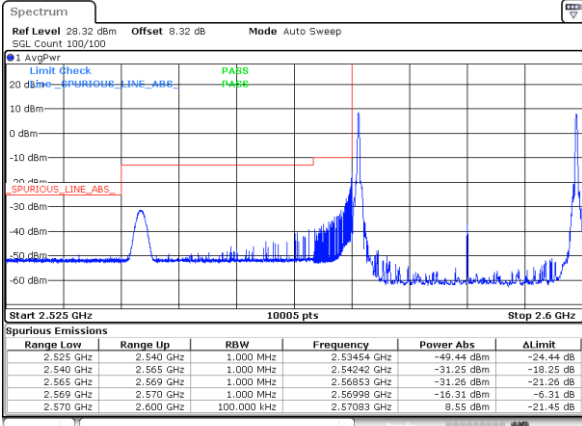
Date: 13_MAR_2024 11:29:57



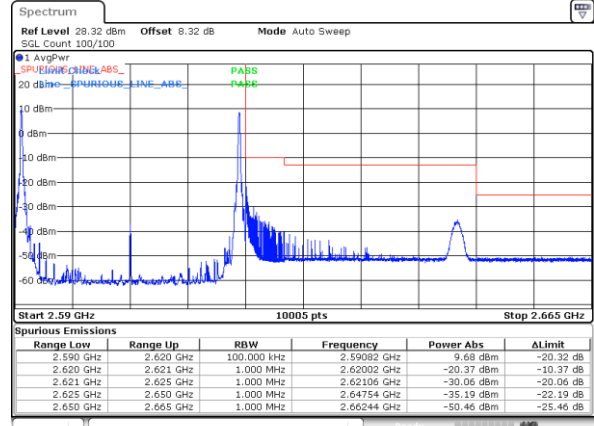
Conducted Band Edge

LTE Band 38C / 15MHz+15MHz QPSK

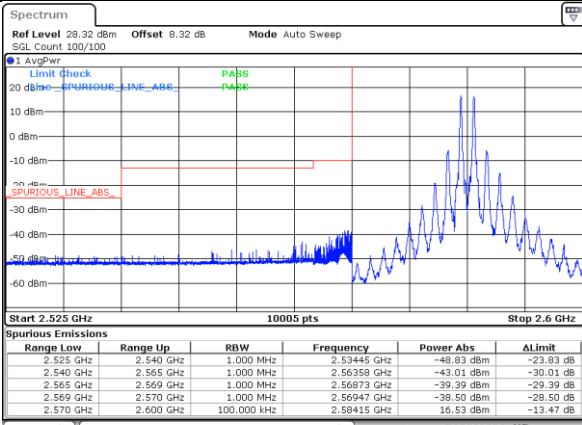
Lowest Band Edge / 1RB0 and 1RB74



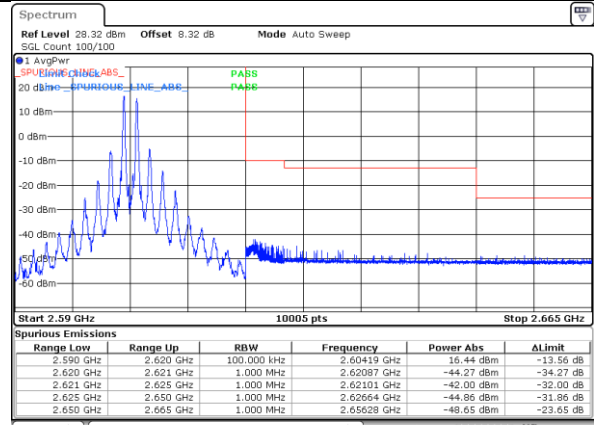
Highest Band Edge / 1RB0 and 1RB74



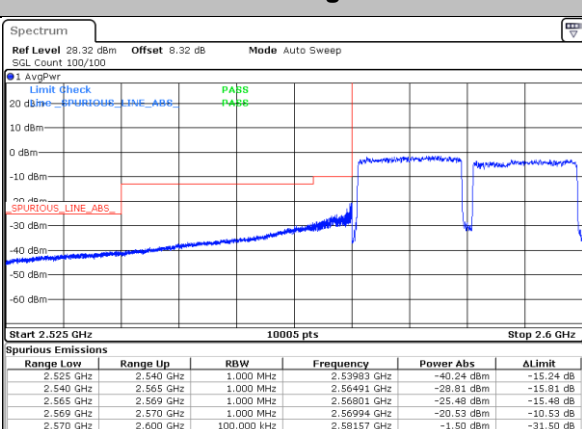
Lowest Band Edge / 1RB74 and 1RB0



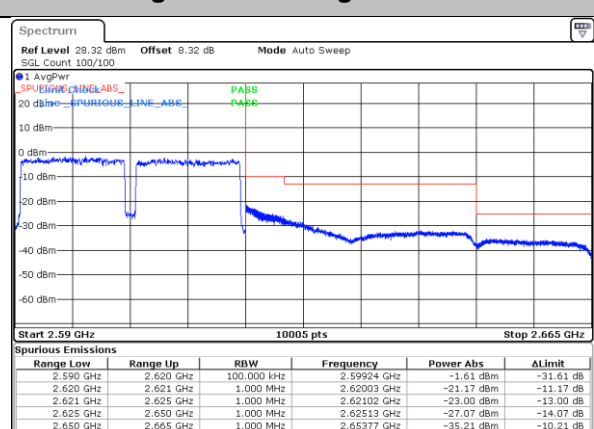
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

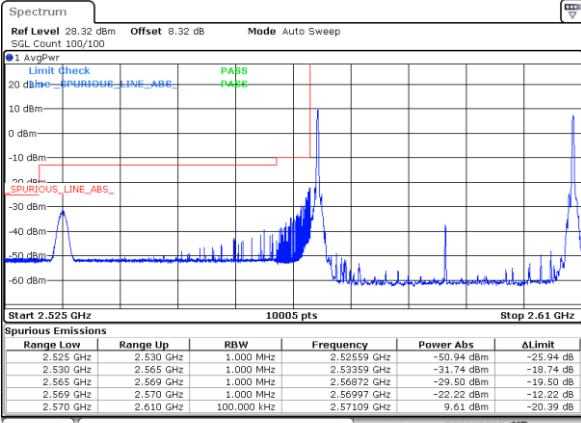




LTE Band 38C / 20MHz+20MHz

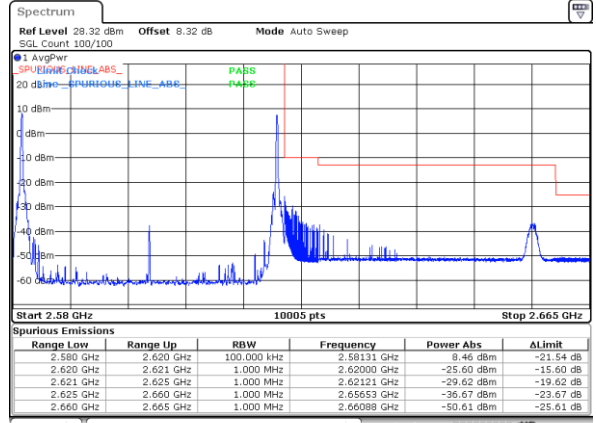
QPSK

Lowest Band Edge / 1RB0 and 1RB9



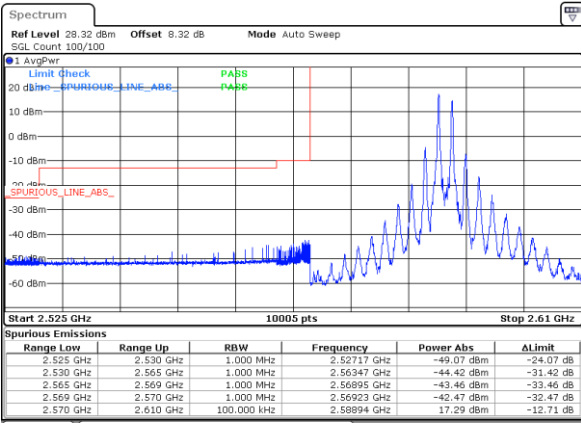
Date: 13.MAR.2024 10:13:15

Highest Band Edge / 1RB0 and 1RB9



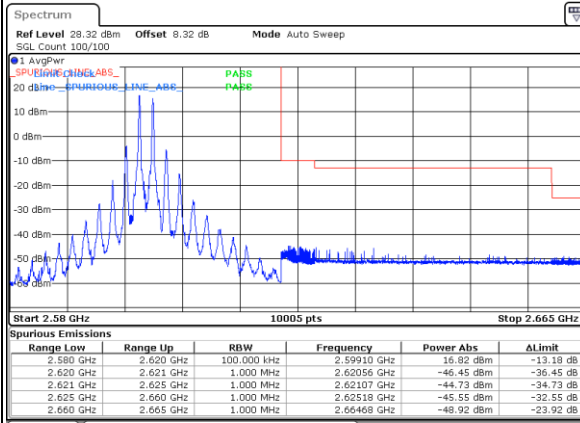
Date: 13.MAR.2024 10:15:17

Lowest Band Edge / 1RB99 and 1RB0



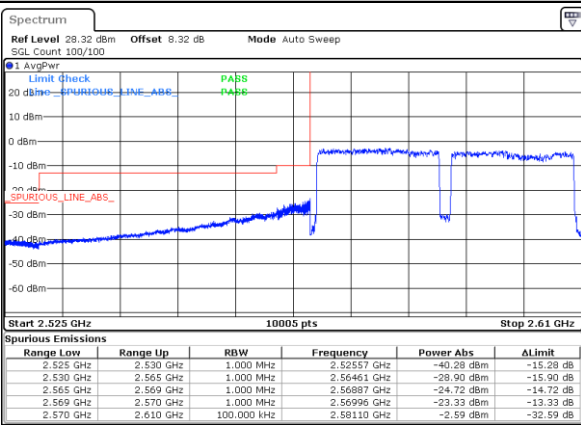
Date: 13.MAR.2024 10:41:53

Highest Band Edge / 1RB99 and 1RB0



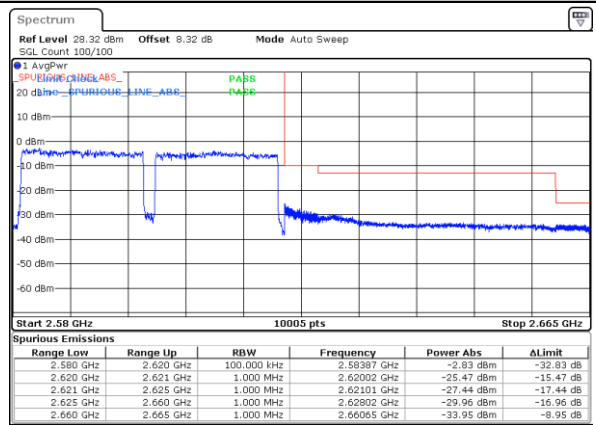
Date: 13.MAR.2024 10:15:26

Lowest Band Edge / Full RB



Date: 13.MAR.2024 10:34:36

Highest Band Edge / Full RB



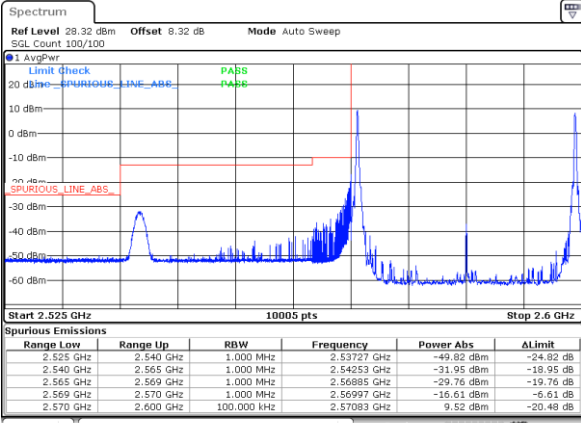
Date: 13.MAR.2024 11:01:28



LTE Band 38C / 15MHz+15MHz

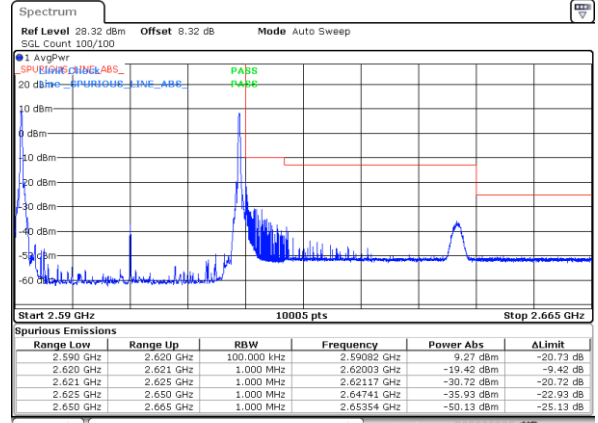
16QAM

Lowest Band Edge / 1RB0 and 1RB74



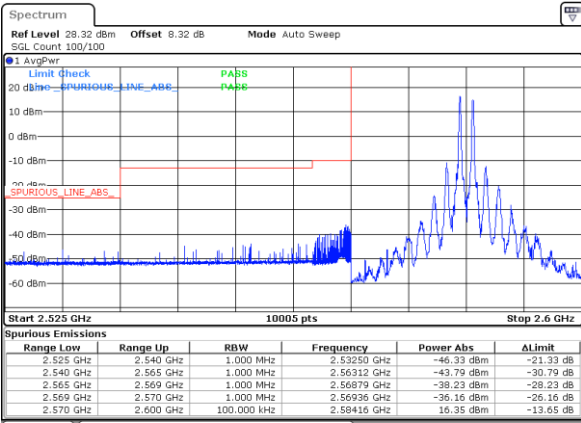
Date: 13.MAR.2024 10:10:00

Highest Band Edge / 1RB0 and 1RB74



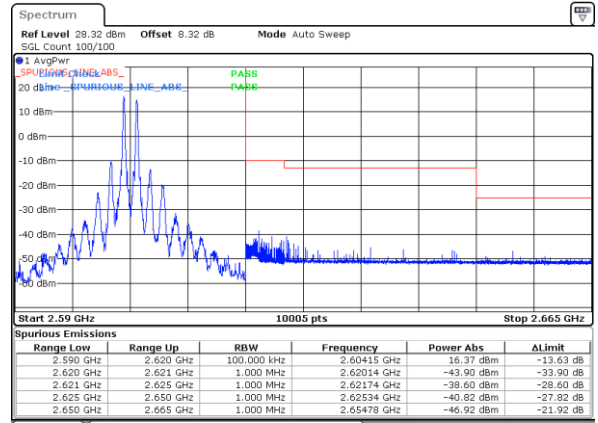
Date: 13.MAR.2024 10:12:54

Lowest Band Edge / 1RB74 and 1RB0



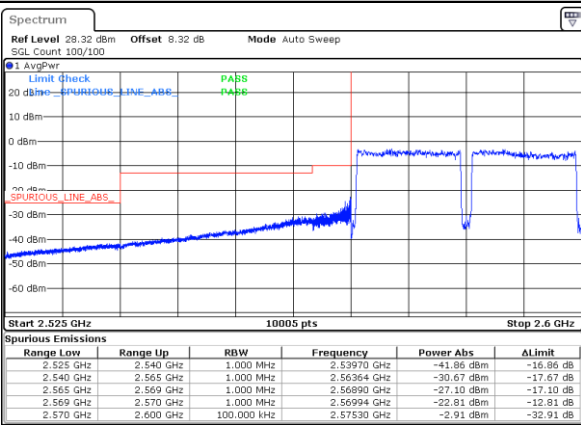
Date: 13.MAR.2024 10:09:39

Highest Band Edge / 1RB74 and 1RB0



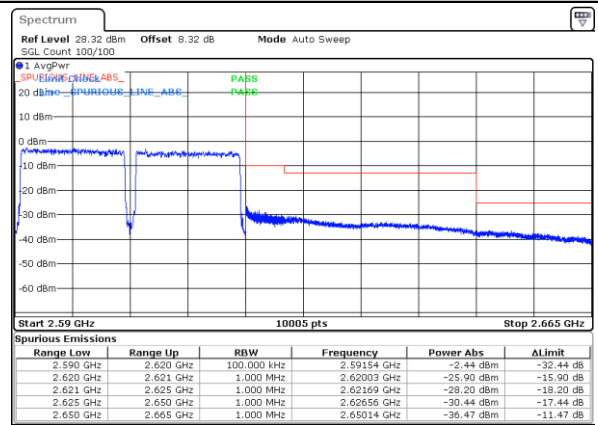
Date: 13.MAR.2024 10:21:22

Lowest Band Edge / Full RB



Date: 13.MAR.2024 09:55:15

Highest Band Edge / Full RB



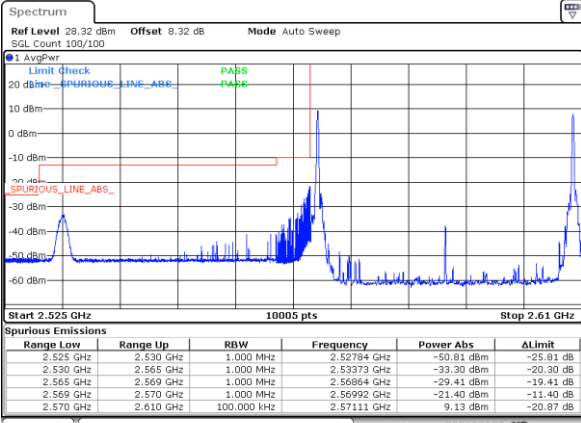
Date: 13.MAR.2024 10:28:25



LTE Band 38C / 20MHz+20MHz

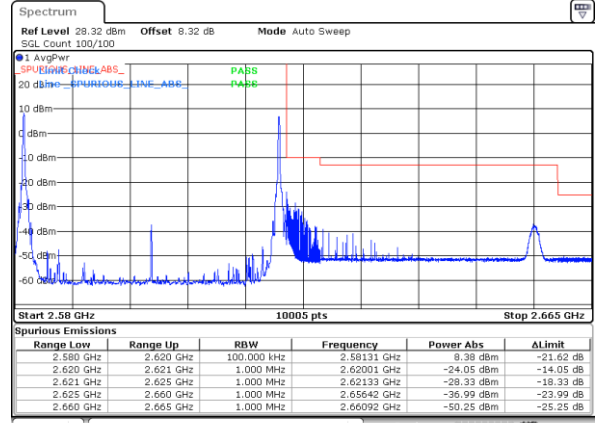
16QAM

Lowest Band Edge / 1RB0 and 1RB9



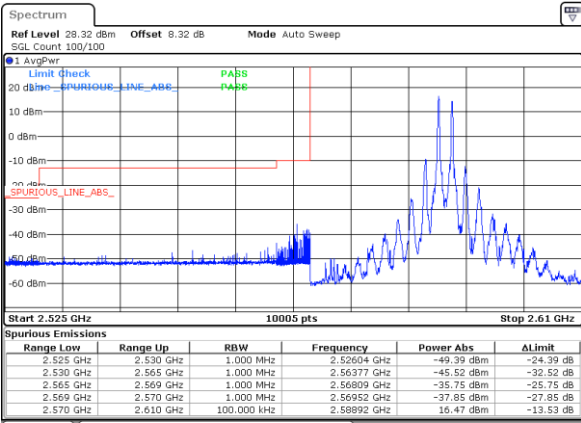
Date: 13.MAR.2024 10:19:09

Highest Band Edge / 1RB0 and 1RB9



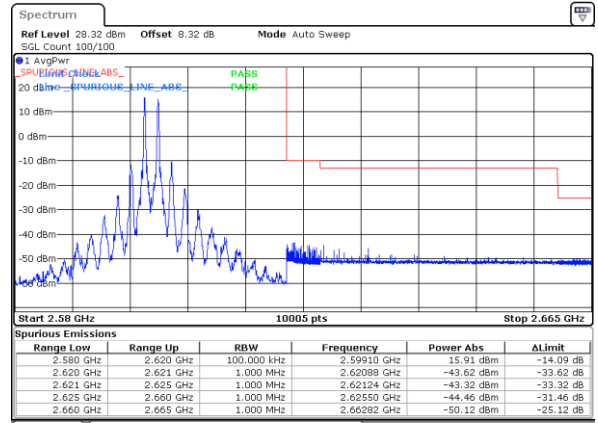
Date: 13.MAR.2024 10:58:50

Lowest Band Edge / 1RB99 and 1RB0



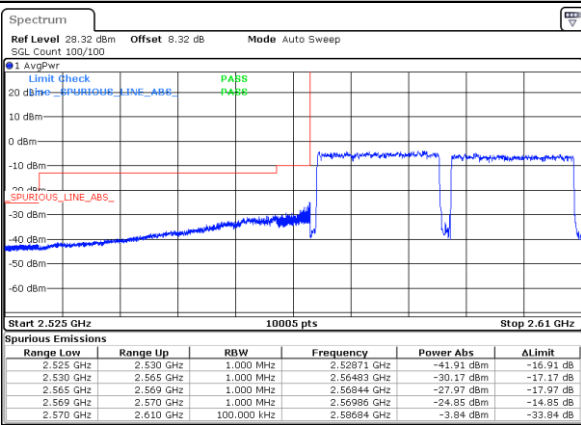
Date: 13.MAR.2024 10:42:47

Highest Band Edge / 1RB99 and 1RB0



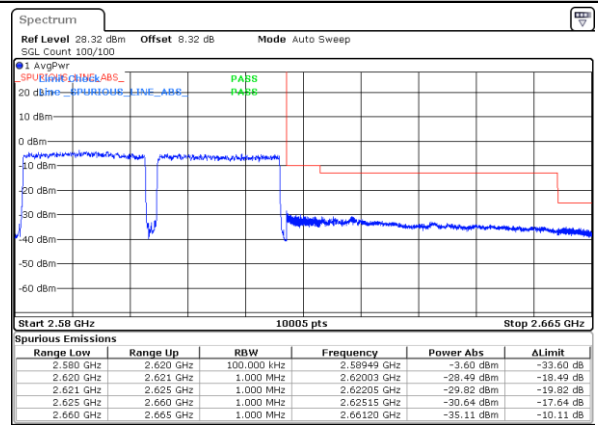
Date: 13.MAR.2024 10:55:19

Lowest Band Edge / Full RB



Date: 13.MAR.2024 10:35:30

Highest Band Edge / Full RB



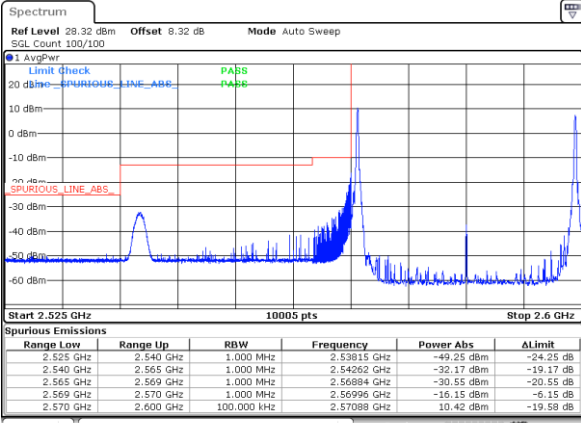
Date: 13.MAR.2024 11:02:21



LTE Band 38C / 15MHz+15MHz

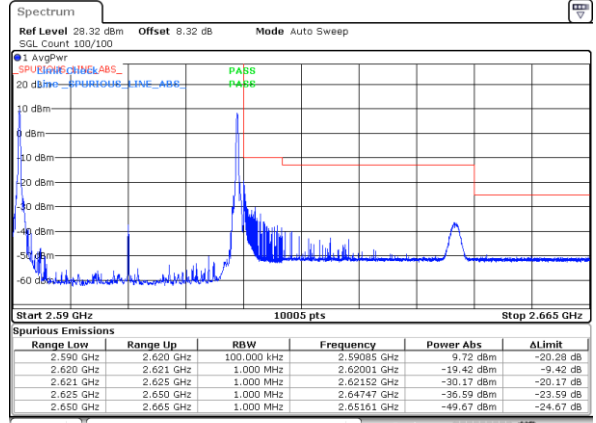
64QAM

Lowest Band Edge / 1RB0 and 1RB74



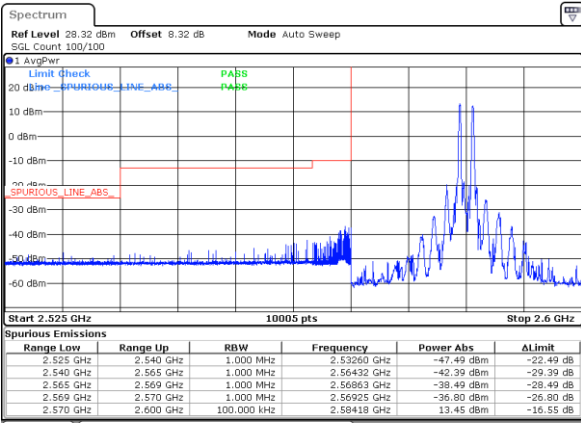
Date: 13.MAR.2024 10:10:55

Highest Band Edge / 1RB0 and 1RB74



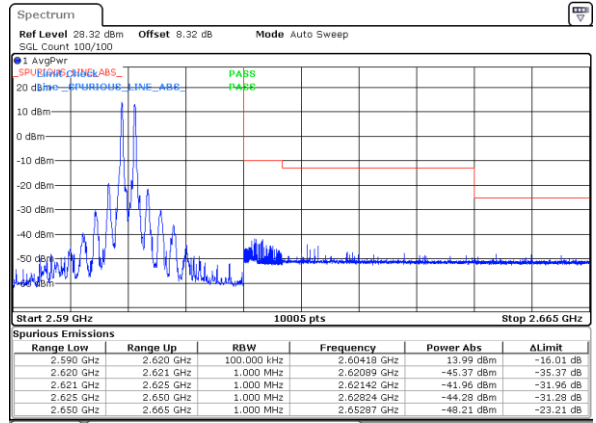
Date: 13.MAR.2024 10:25:46

Lowest Band Edge / 1RB74 and 1RB0



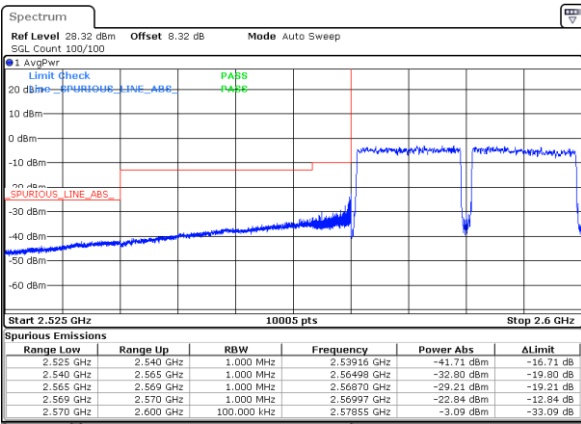
Date: 13.MAR.2024 10:10:34

Highest Band Edge / 1RB74 and 1RB0



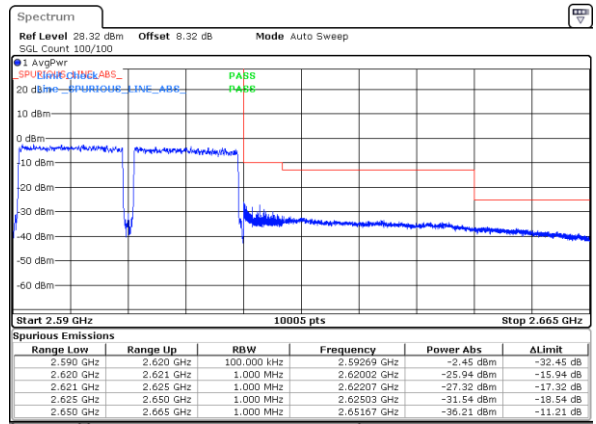
Date: 13.MAR.2024 10:22:15

Lowest Band Edge / Full RB



Date: 13.MAR.2024 09:56:10

Highest Band Edge / Full RB



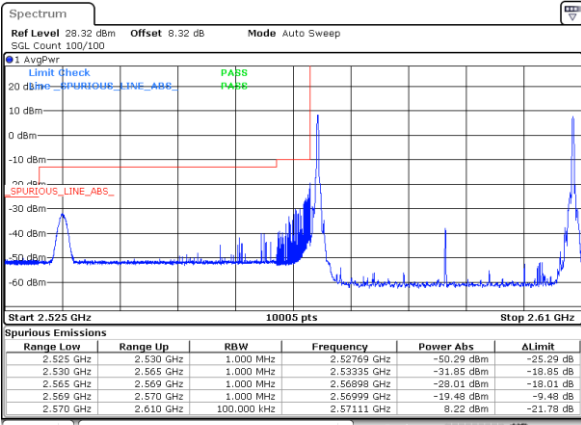
Date: 13.MAR.2024 10:29:18



LTE Band 38C / 20MHz+20MHz

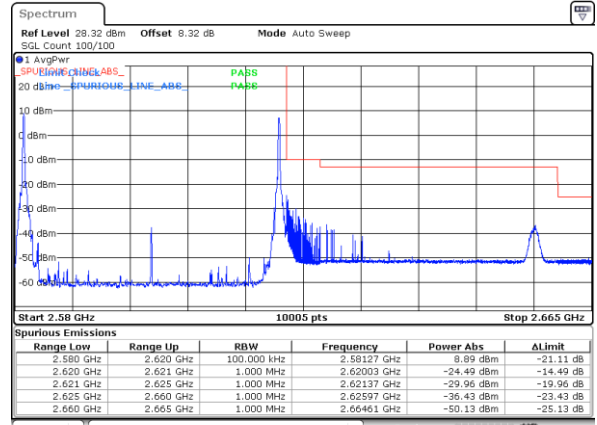
64QAM

Lowest Band Edge / 1RB0 and 1RB9



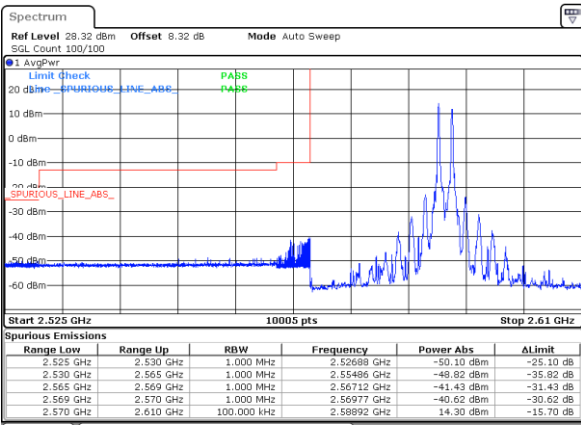
Date: 13.MAR.2024 10:40:04

Highest Band Edge / 1RB0 and 1RB9



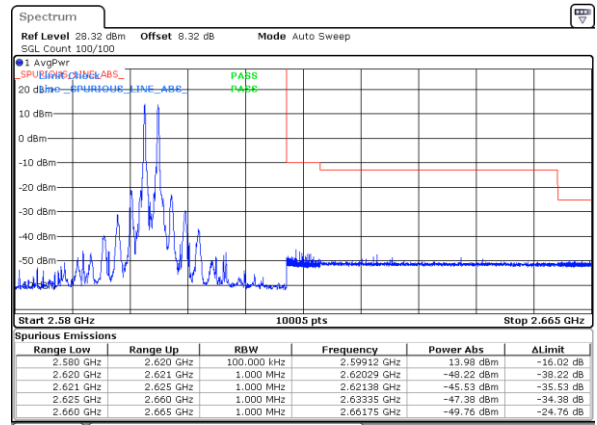
Date: 13.MAR.2024 10:59:42

Lowest Band Edge / 1RB99 and 1RB0



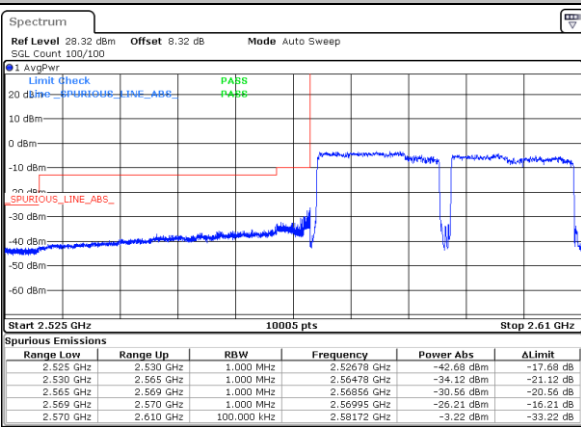
Date: 13.MAR.2024 10:43:42

Highest Band Edge / 1RB99 and 1RB0



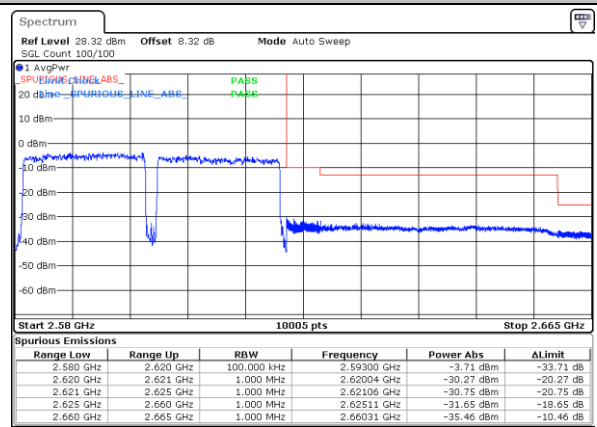
Date: 13.MAR.2024 10:56:11

Lowest Band Edge / Full RB



Date: 13.MAR.2024 10:36:25

Highest Band Edge / Full RB



Date: 13.MAR.2024 11:03:14

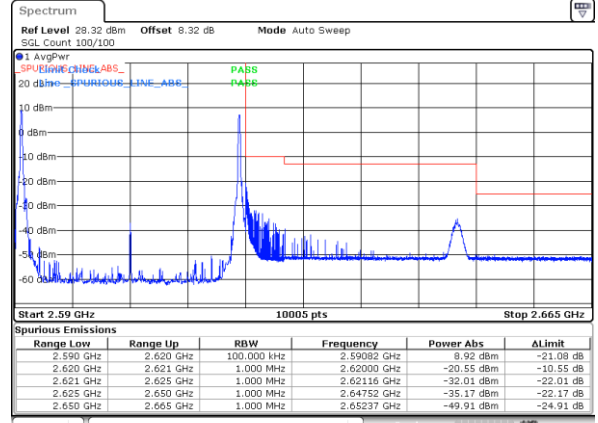
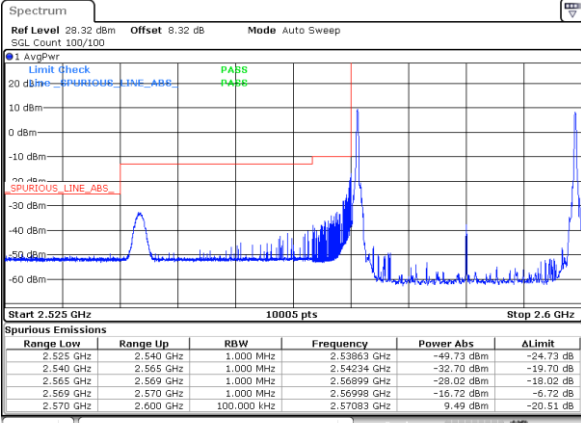


LTE Band 38C / 15MHz+15MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

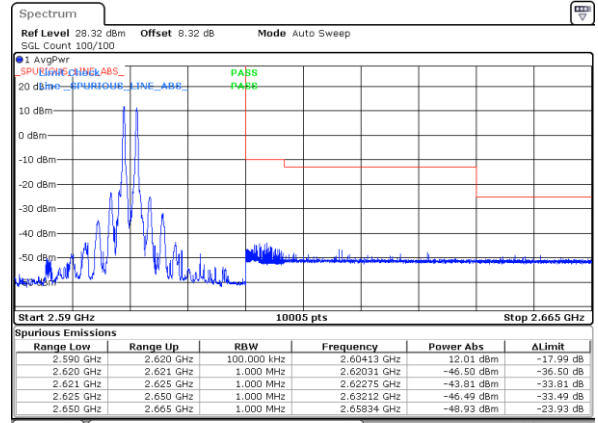
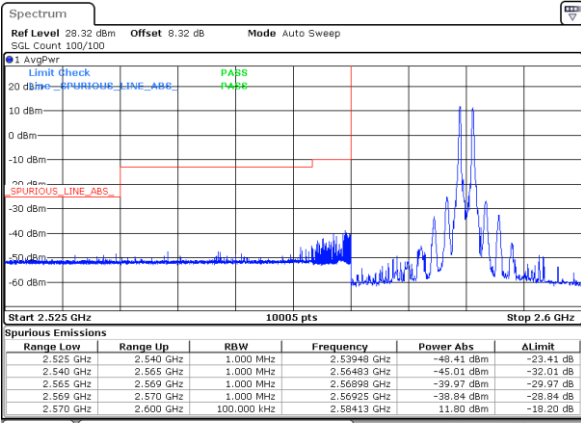


Date: 13.MAR.2024 10:07:50

Date: 13.MAR.2024 10:26:39

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

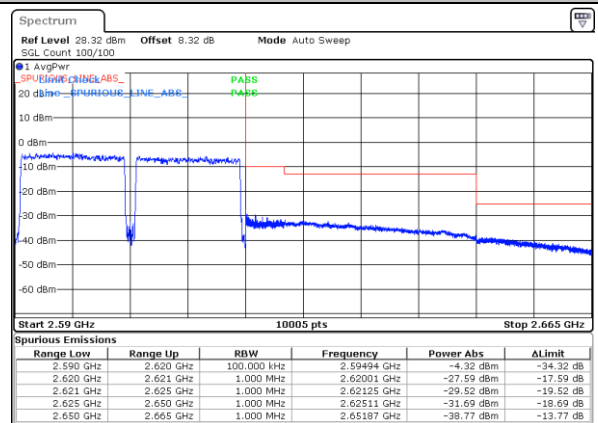
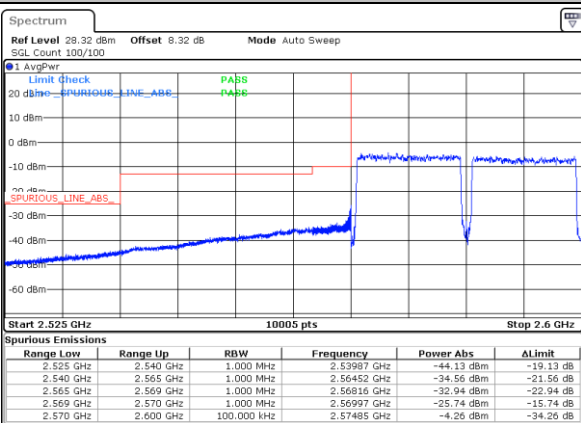


Date: 13.MAR.2024 10:11:28

Date: 13.MAR.2024 10:23:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.MAR.2024 10:04:11

Date: 13.MAR.2024 10:30:11

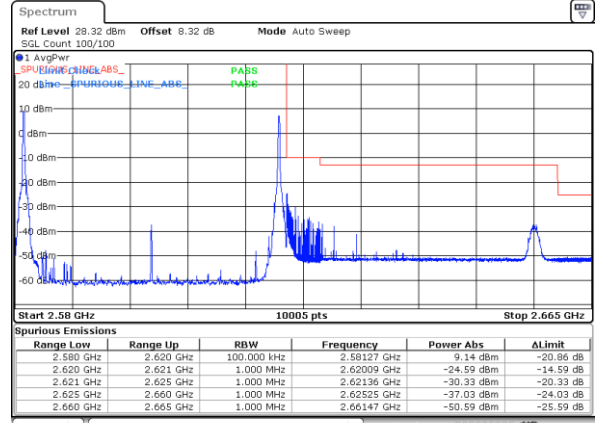
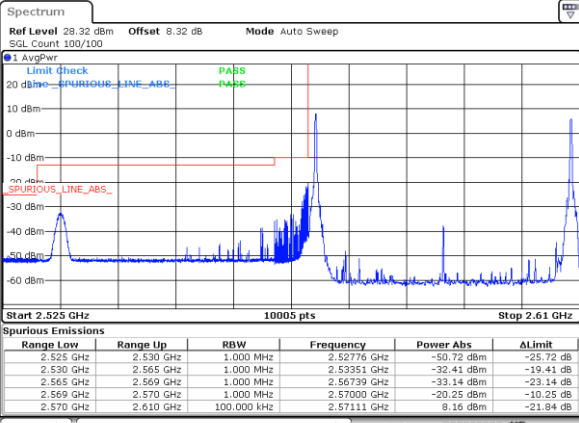


LTE Band 38C / 20MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

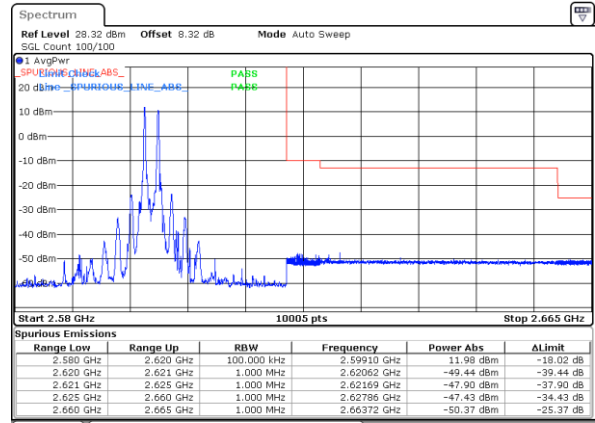
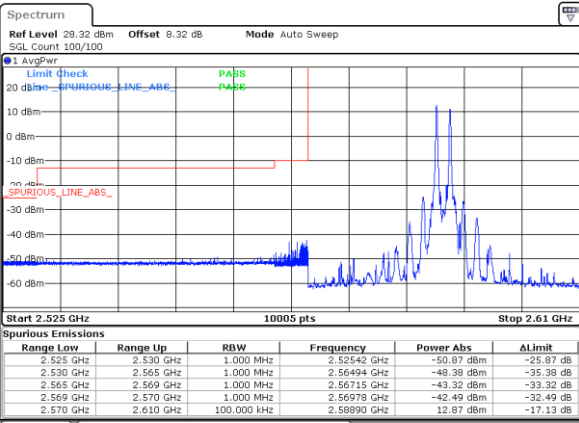


Date: 13.MAR.2024 10:40:58

Date: 13.MAR.2024 11:00:35

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

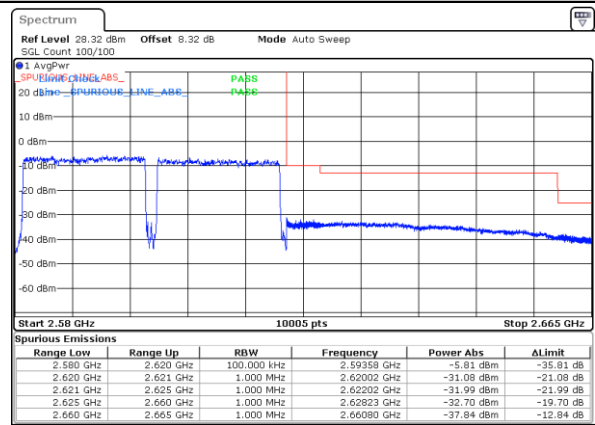
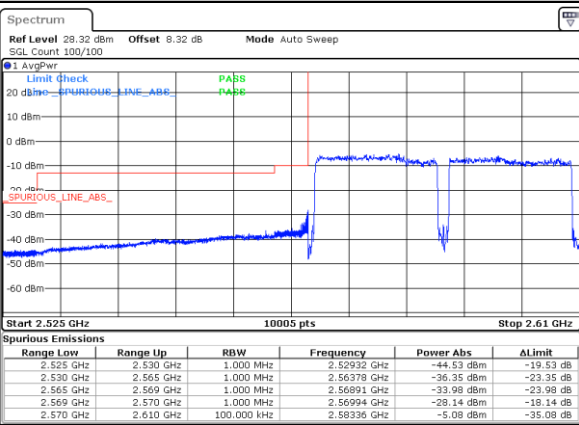


Date: 13.MAR.2024 10:44:36

Date: 13.MAR.2024 10:57:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.MAR.2024 10:37:19

Date: 13.MAR.2024 11:04:06



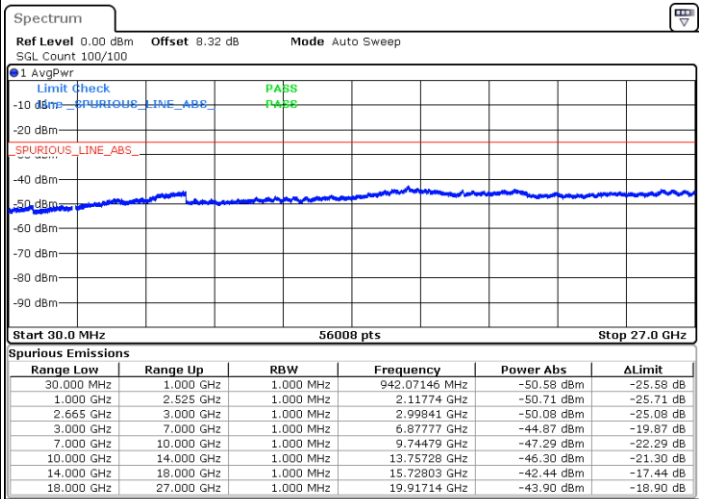
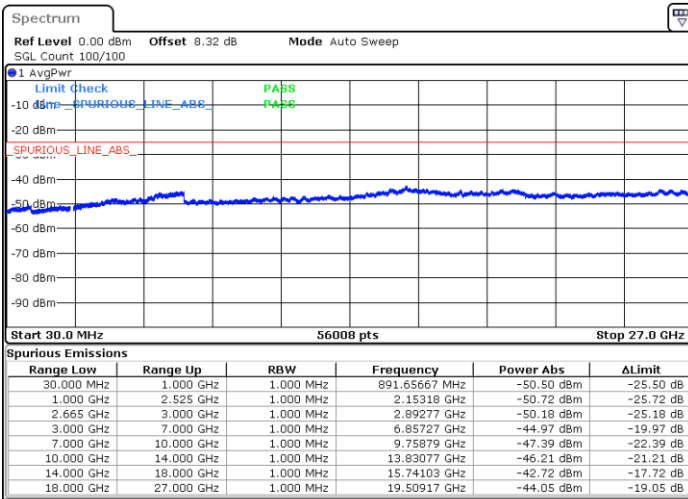
Conducted Spurious Emission

LTE Band 38C / 15MHz+15MHz

QPSK

Lowest Channel / 1RB74 and 1RB0

Middle Channel / 1RB74 and 1RB0

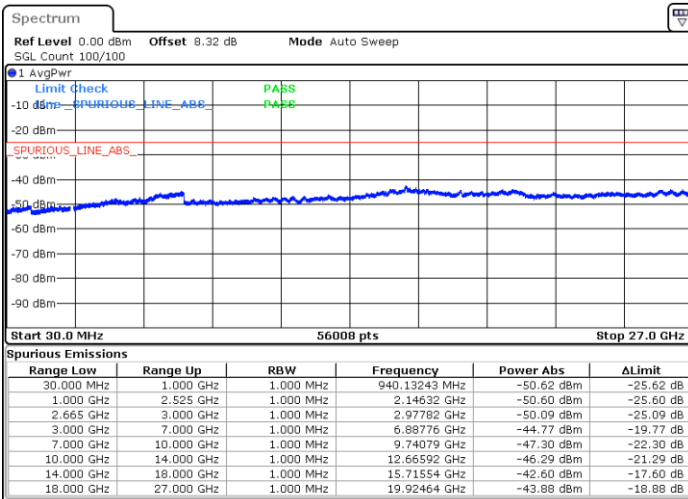


Date: 13.MAR.2024 10:13:37

Date: 13.MAR.2024 10:16:59

Highest Channel / 1RB74 and 1RB0

N/A



Date: 13.MAR.2024 10:19:37

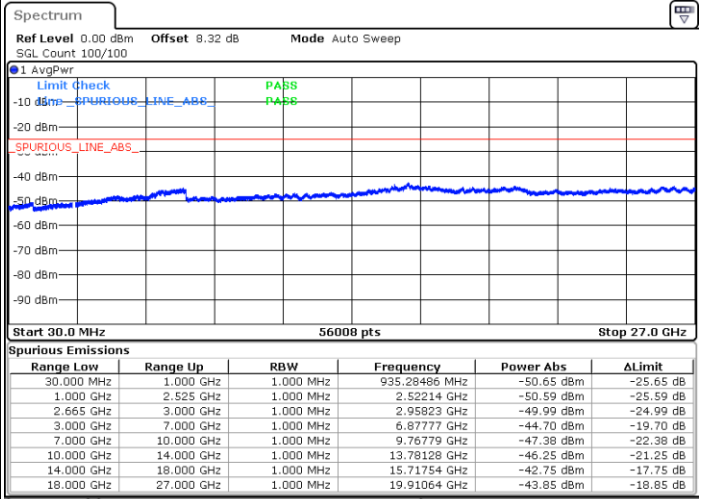
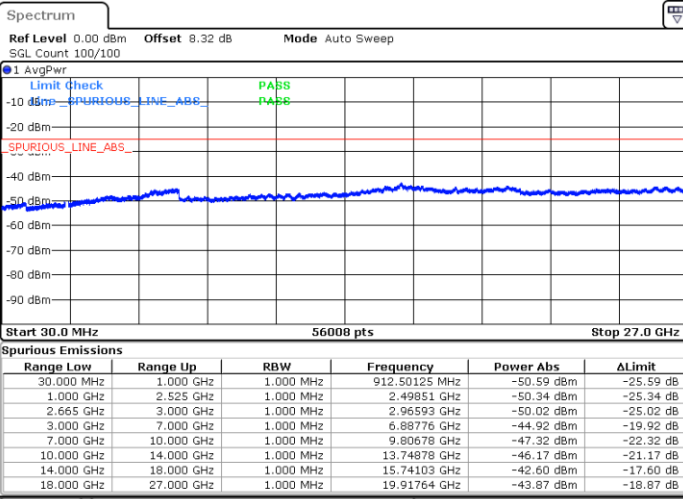


LTE Band 38C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

Middle Channel / 1RB99 and 1RB0

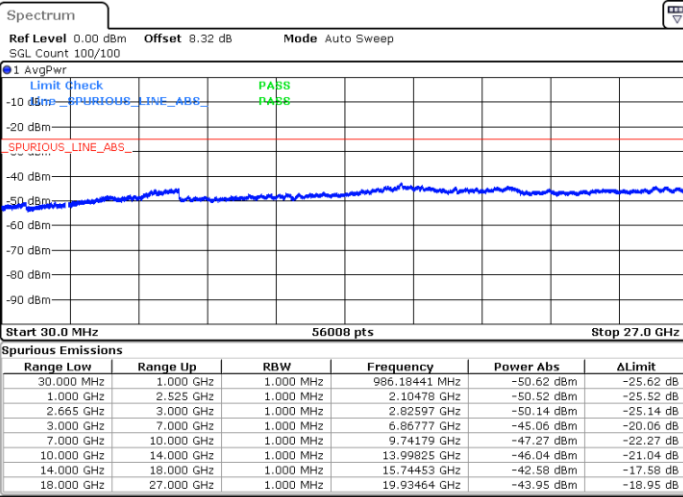


Date: 13.MAR.2024 10:46:45

Date: 13.MAR.2024 10:49:00

Highest Channel / 1RB99 and 1RB0

N/A



Date: 13.MAR.2024 10:53:34



Frequency Stability

Test Conditions		LTE Band 38C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0054	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0044	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0032	
20	Battery End Point	0.0024	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 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 :	Carl Ni	Temperature :	23~25°C
		Relative Humidity :	41~42%

Note:

1. Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test.
2. For LTE B7/41 other PA, please refer to the related test results of ENDC_7A_n66A, ENDC_7A/41A_n78A in the separate 5G NR report.

LTE Band 7 / 20MHz / QPSK / ANT4								
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	5050	-67.23	-25	-42.23	-77.44	3.03	13.24	H
	7584	-60.97	-25	-35.97	-70.42	3.56	13.01	H
	10104	-55.67	-25	-30.67	-65.19	3.92	13.44	H
	12624	-47.34	-25	-22.34	-57.26	4.44	14.36	H
	5050	-66.82	-25	-41.82	-77.03	3.03	13.24	V
	7584	-65.06	-25	-40.06	-74.51	3.56	13.01	V
	10104	-53.52	-25	-28.52	-63.04	3.92	13.44	V
	12624	-49.79	-25	-24.79	-59.71	4.44	14.36	V

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

LTE Band 7C / 20+20MHz / QPSK/ ANT4								
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	5036	-62.34	-25	-37.34	-72.55	3.03	13.24	H
	7542	-60.67	-25	-35.67	-70.12	3.56	13.01	H
	10062	-60.28	-25	-35.28	-69.80	3.92	13.44	H
	5078	-62.60	-25	-37.60	-72.81	3.03	13.24	H
	7612	-60.89	-25	-35.89	-70.34	3.56	13.01	H
	10146	-60.45	-25	-35.45	-69.97	3.92	13.44	H
	5036	-62.58	-25	-37.58	-72.79	3.03	13.24	V
	7542	-60.86	-25	-35.86	-70.31	3.56	13.01	V
	10062	-60.98	-25	-35.98	-70.50	3.92	13.44	V
	5078	-62.73	-25	-37.73	-72.94	3.03	13.24	V
	7612	-60.91	-25	-35.91	-70.36	3.56	13.01	V
	10146	-60.29	-25	-35.29	-69.81	3.92	13.44	V

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



LTE Band 38C / 20+20MHz / QPSK/ ANT4								
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	5148	-67.03	-25	-42.03	-77.24	3.03	13.24	H
	7724	-64.56	-25	-39.56	-74.01	3.56	13.01	H
	10300	-63.05	-25	-38.05	-72.57	3.92	13.44	H
	5190	-66.80	-25	-41.80	-77.01	3.03	13.24	H
	7794	-64.85	-25	-39.85	-74.30	3.56	13.01	H
	10384	-62.74	-25	-37.74	-72.26	3.92	13.44	H
	5148	-66.89	-25	-41.89	-77.10	3.03	13.24	V
	7724	-64.33	-25	-39.33	-73.78	3.56	13.01	V
	10300	-63.90	-25	-38.90	-73.42	3.92	13.44	V
	5190	-66.57	-25	-41.57	-76.78	3.03	13.24	V
	7794	-64.35	-25	-39.35	-73.80	3.56	13.01	V
	10384	-63.29	-25	-38.29	-72.81	3.92	13.44	V

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

LTE Band 41 / 20MHz / QPSK / ANT4								
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	5162	-64.38	-25	-39.38	-74.59	3.03	13.24	H
	7752	-59.99	-25	-34.99	-69.44	3.56	13.01	H
	10342	-54.50	-25	-29.50	-64.02	3.92	13.44	H
	12918	-49.05	-25	-24.05	-58.97	4.44	14.36	H
	5162	-63.03	-25	-38.03	-73.24	3.03	13.24	V
	7752	-62.30	-25	-37.30	-71.75	3.56	13.01	V
	10342	-55.32	-25	-30.32	-64.84	3.92	13.44	V
	12918	-49.83	-25	-24.83	-59.75	4.44	14.36	V

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