



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0056	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0078	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0015	

Note:

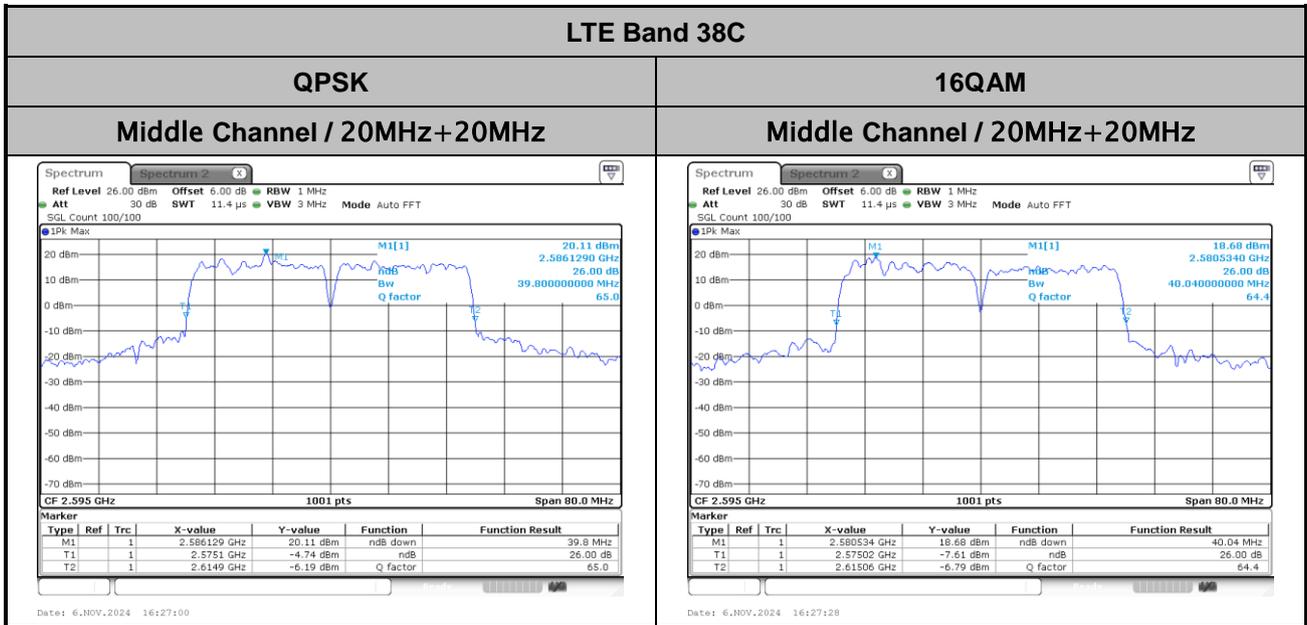
1. Normal Voltage =3.69 V. ; Battery End Point (BEP) =3.3V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

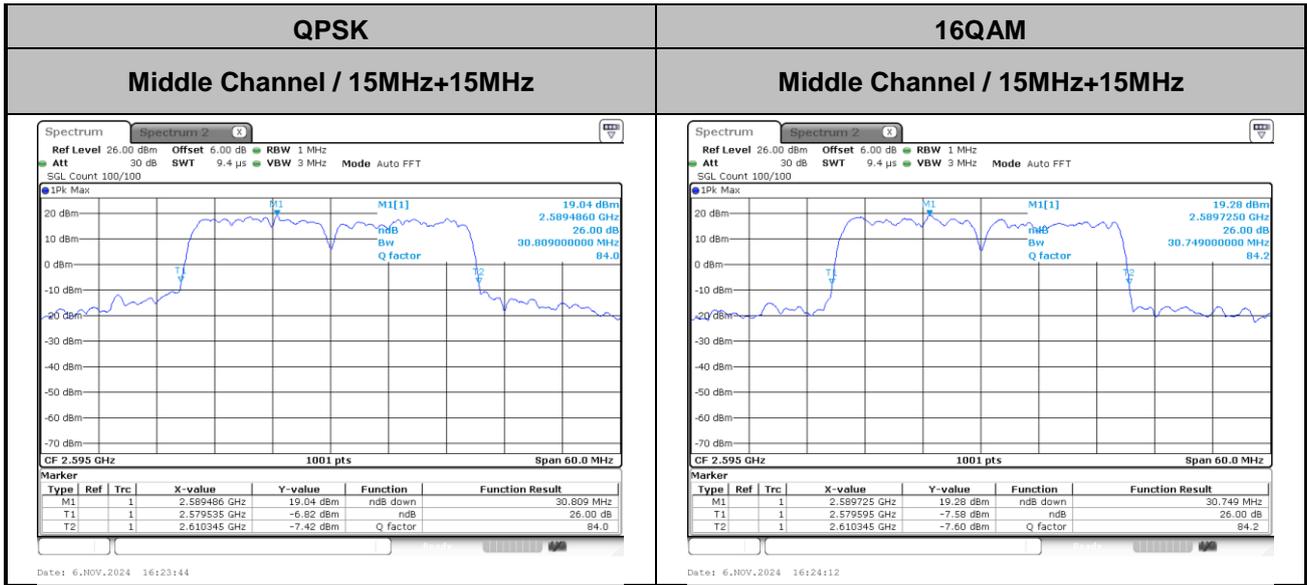


LTE Band 38C(Main PA)

26dB Bandwidth

Mode	LTE Band 38C : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.80	40.04
Mod.	QPSK	16QAM
BW	15MHz+15MHz	15MHz+15MHz
Middle CH	30.81	30.75

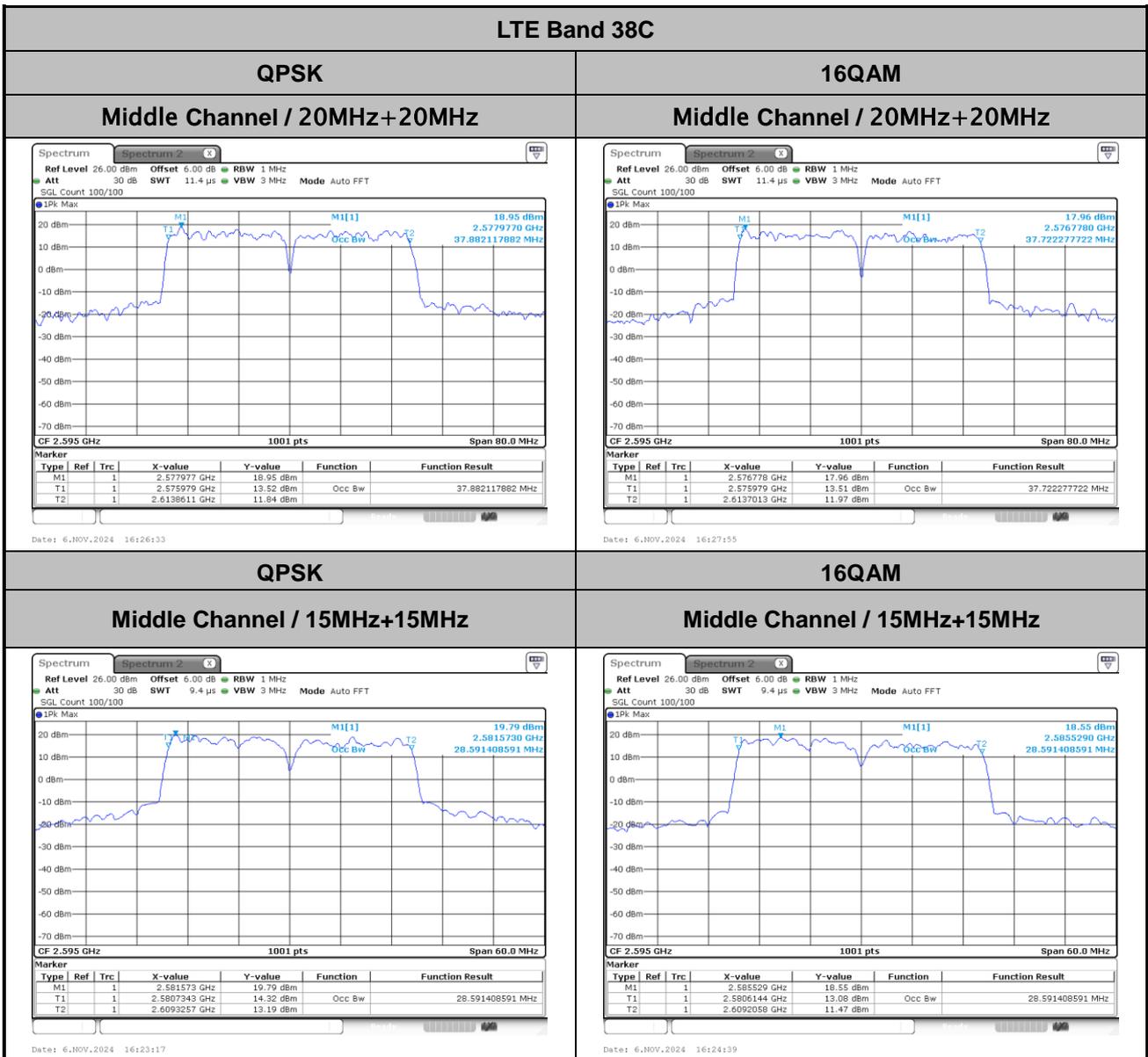






Occupied Bandwidth

Mode	LTE Band 38C : 99%OBW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.88	37.72
Mod.	QPSK	16QAM
BW	15MHz+15MHz	15MHz+15MHz
Middle CH	28.59	28.59





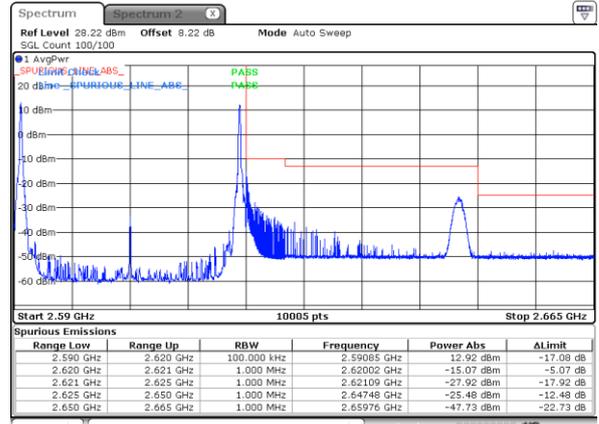
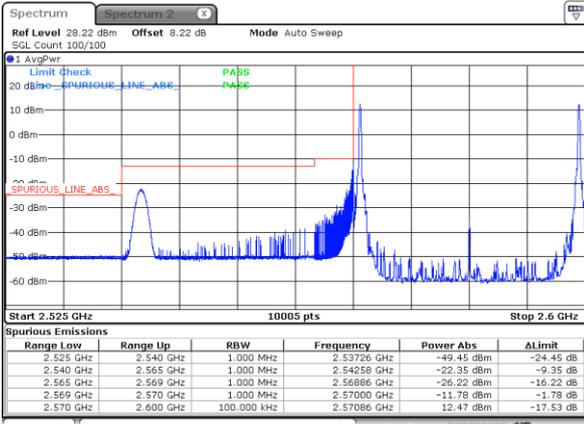
Conducted Band Edge

LTE Band 38C / 15MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

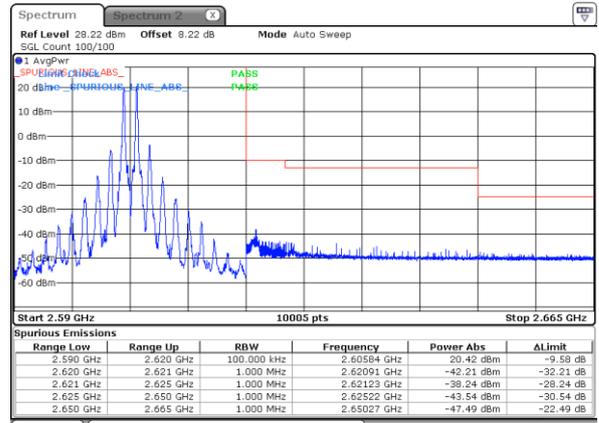
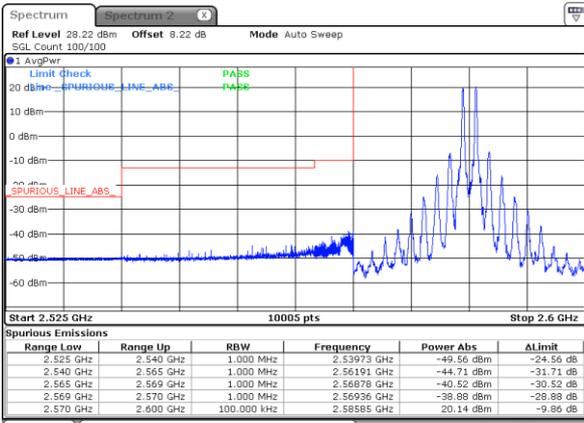


Date: 6.NOV.2024 15:03:50

Date: 6.NOV.2024 15:21:10

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

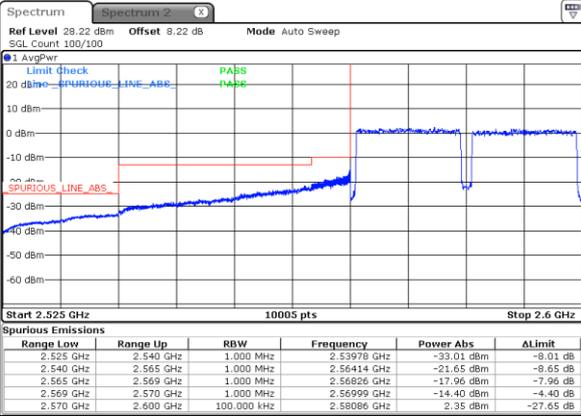


Date: 6.NOV.2024 15:07:27

Date: 6.NOV.2024 15:17:43

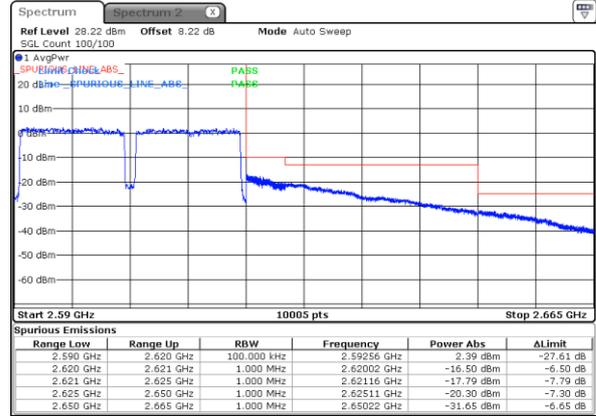


Lowest Band Edge / Full RB



Date: 6.NOV.2024 14:58:30

Highest Band Edge / Full RB



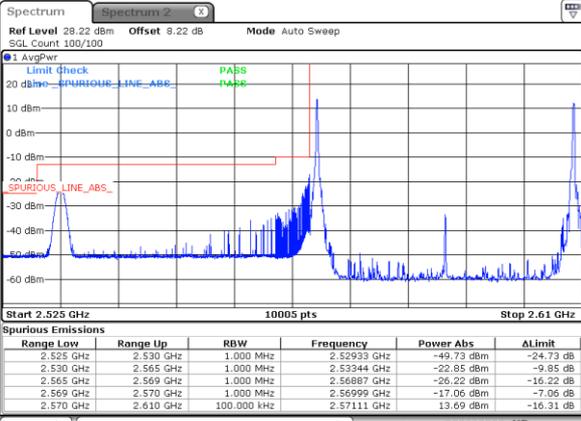
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LTE Band 38C / 20MHz+20MHz

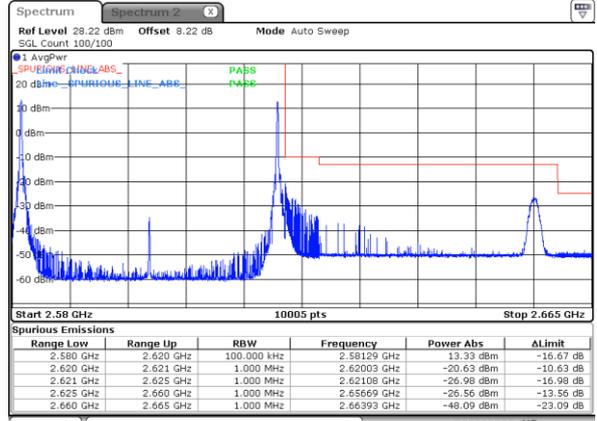
QPSK

Lowest Band Edge / 1RB0 and 1RB9



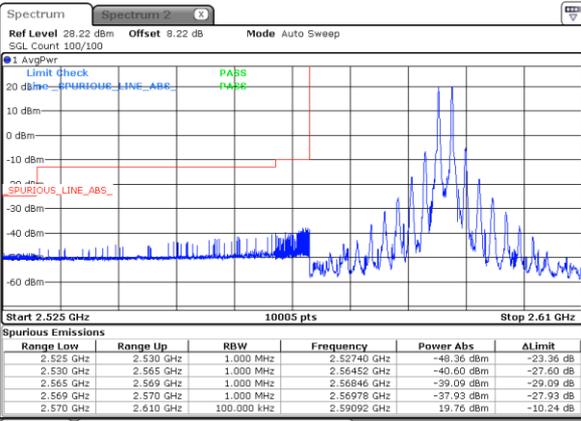
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Highest Band Edge / 1RB0 and 1RB9



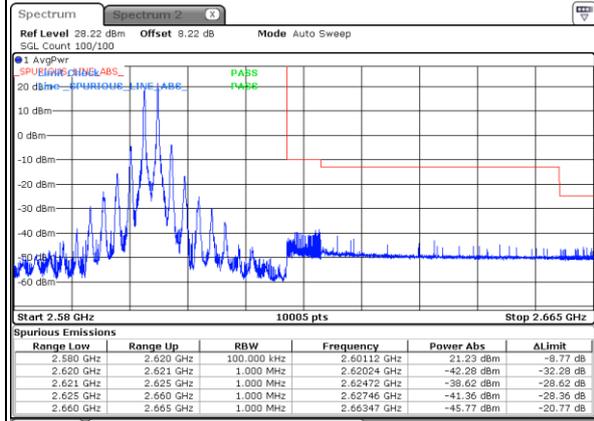
Date: 6.NOV.2024 16:07:53

Lowest Band Edge / 1RB99 and 1RB0



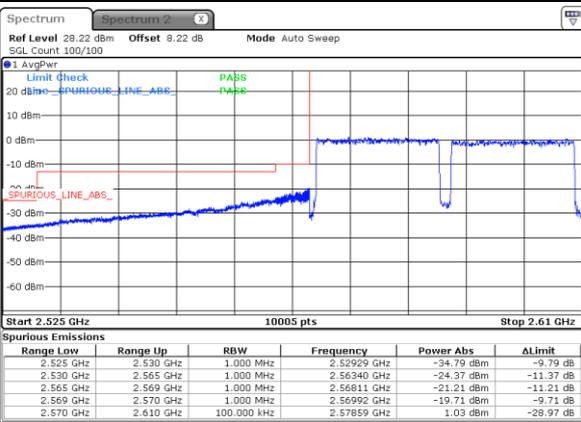
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Highest Band Edge / 1RB99 and 1RB0



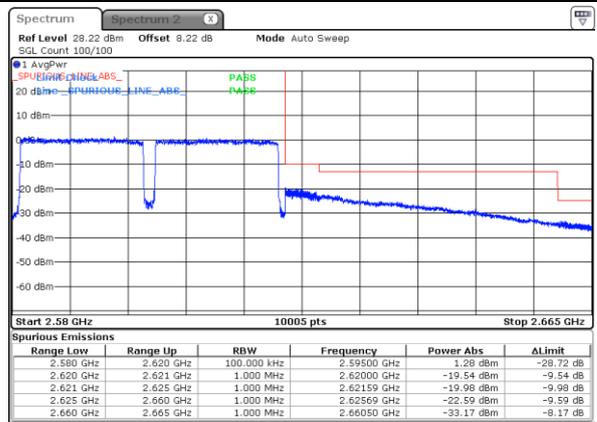
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Lowest Band Edge / Full RB



Date: 6.NOV.2024 15:30:27

Highest Band Edge / Full RB



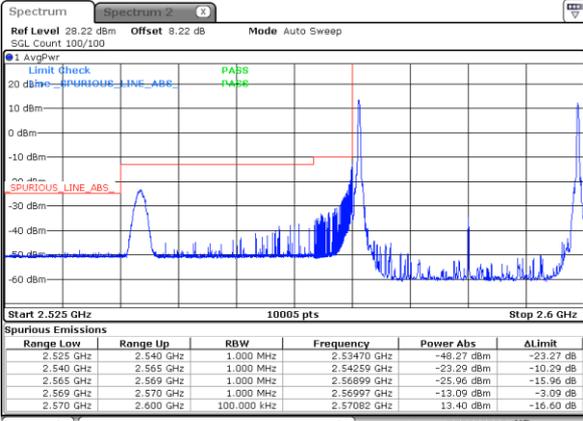
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LTE Band 38C / 15MHz+15MHz

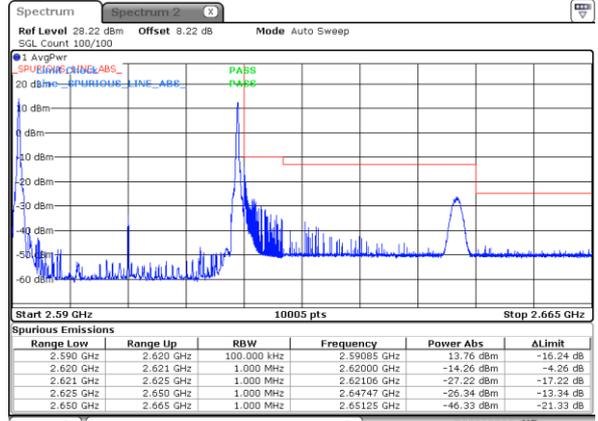
16QAM

Lowest Band Edge / 1RB0 and 1RB74



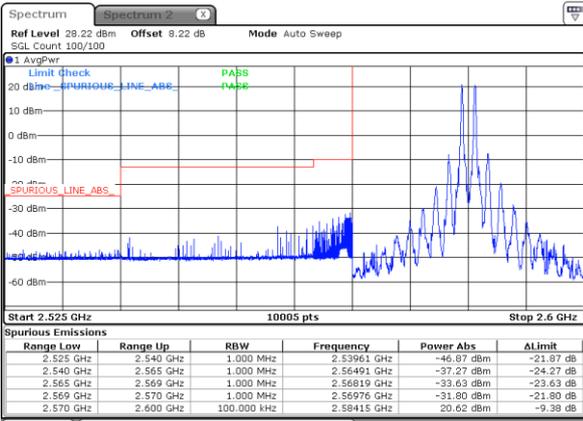
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Highest Band Edge / 1RB0 and 1RB74



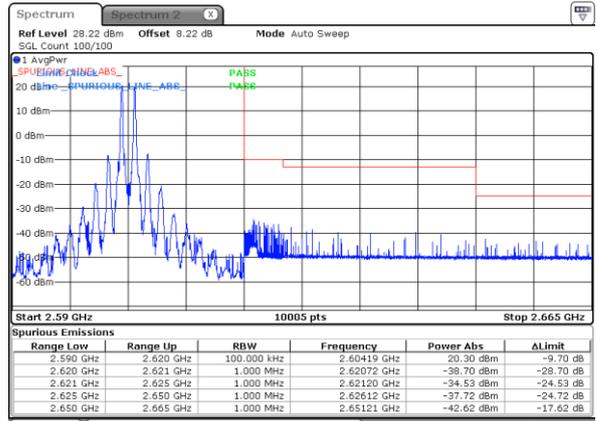
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Lowest Band Edge / 1RB74 and 1RB0



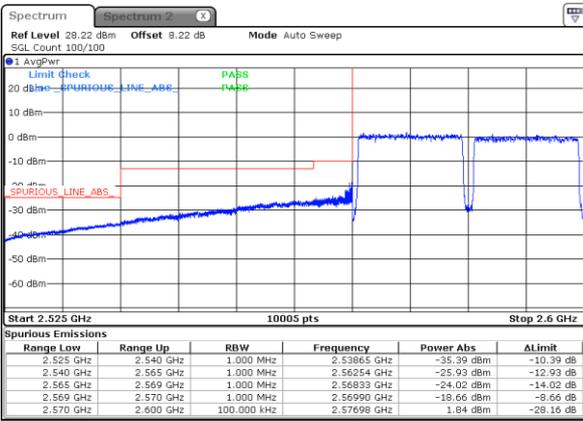
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Highest Band Edge / 1RB74 and 1RB0



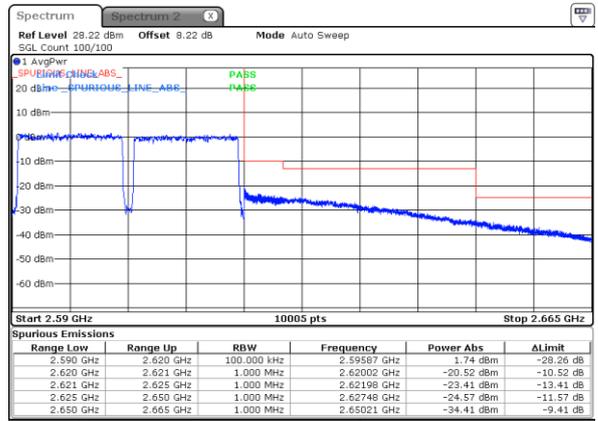
Date: 6.NOV.2024 15:18:35

Lowest Band Edge / Full RB



Date: 6.NOV.2024 15:01:06

Highest Band Edge / Full RB



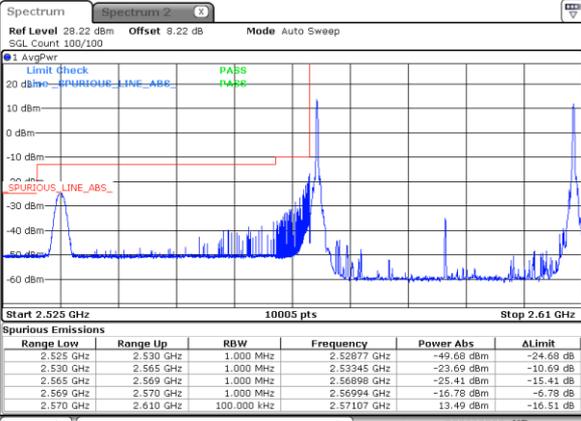
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LTE Band 38C / 20MHz+20MHz

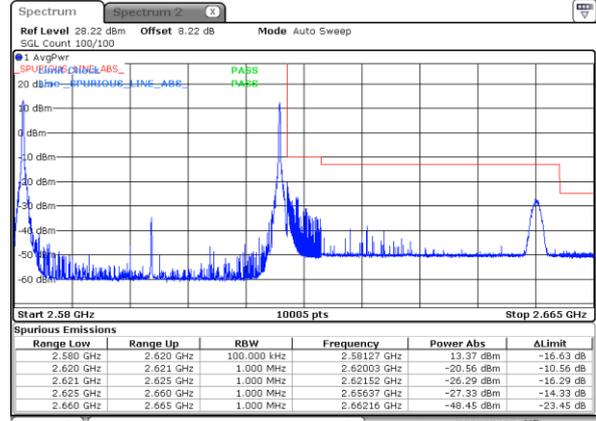
16QAM

Lowest Band Edge / 1RB0 and 1RB9



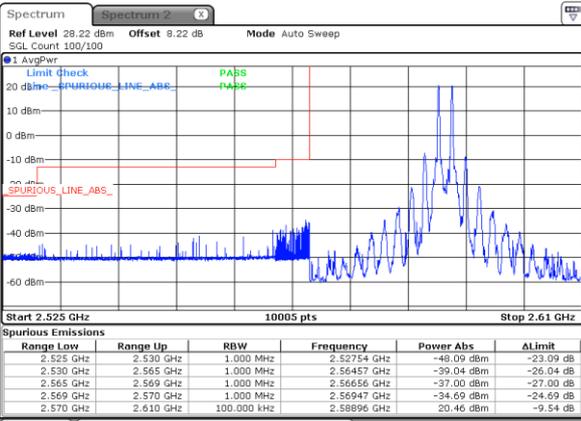
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Highest Band Edge / 1RB0 and 1RB9



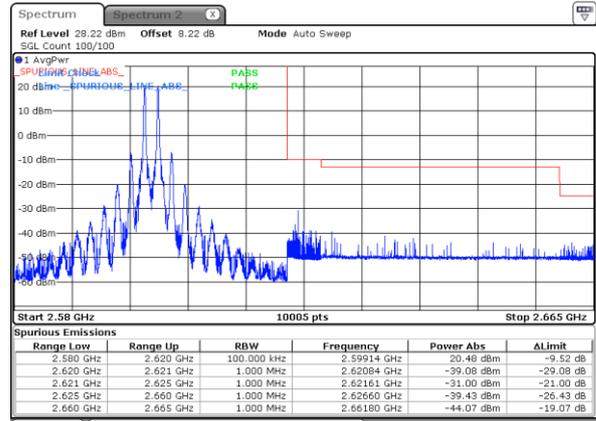
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Lowest Band Edge / 1RB99 and 1RB0



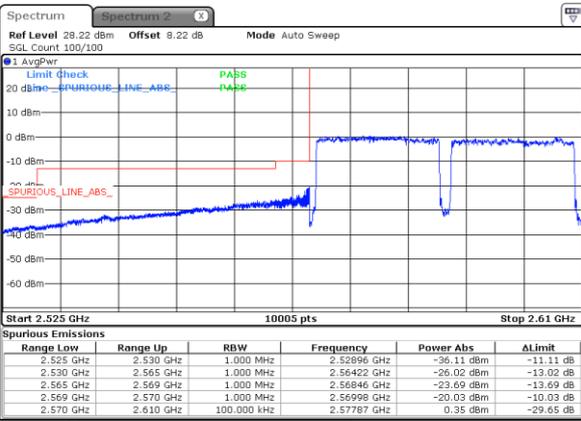
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Highest Band Edge / 1RB99 and 1RB0



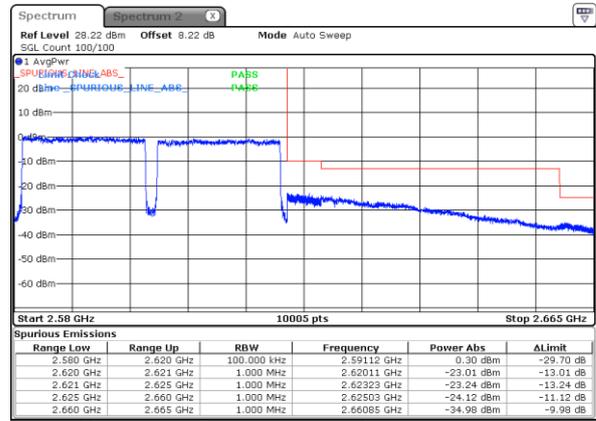
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Lowest Band Edge / Full RB



Date: 6.NOV.2024 15:31:22

Highest Band Edge / Full RB



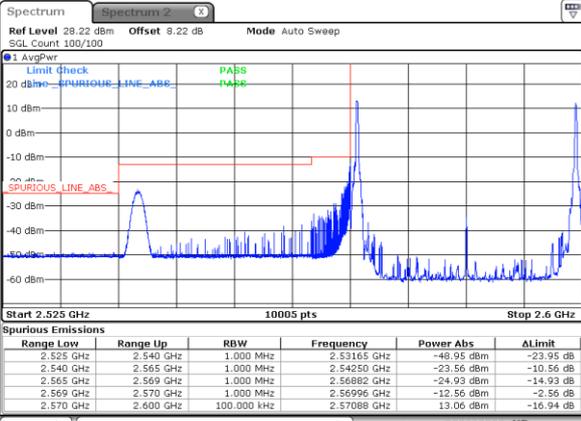
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LTE Band 38C / 15MHz+15MHz

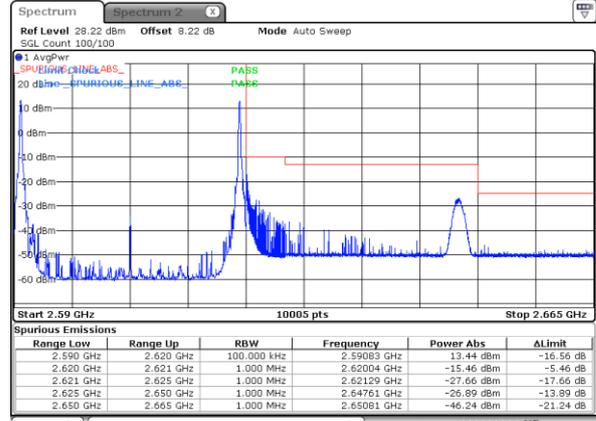
64QAM

Lowest Band Edge / 1RB0 and 1RB74



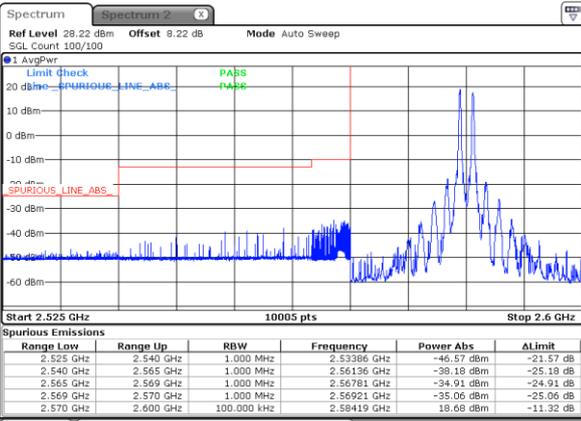
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Highest Band Edge / 1RB0 and 1RB74



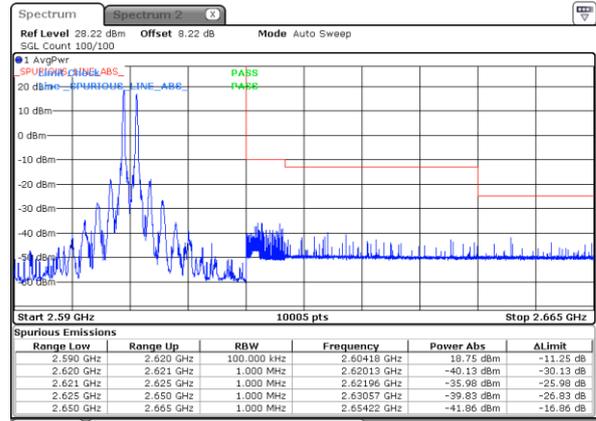
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Lowest Band Edge / 1RB74 and 1RB0



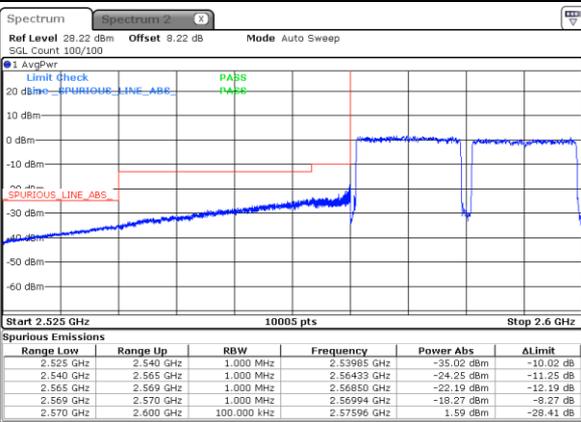
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Highest Band Edge / 1RB74 and 1RB0



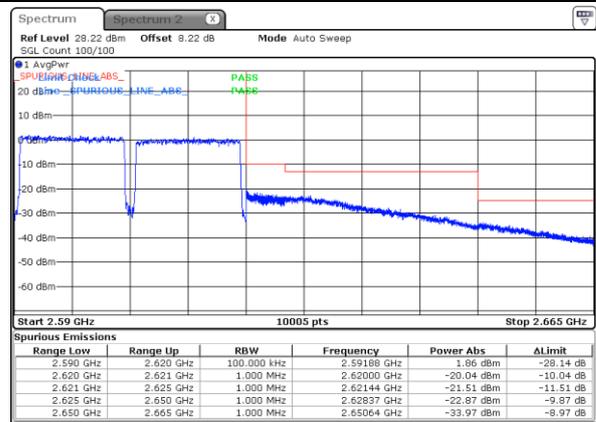
Date: 6.NOV.2024 15:19:26

Lowest Band Edge / Full RB



Date: 6.NOV.2024 15:02:01

Highest Band Edge / Full RB



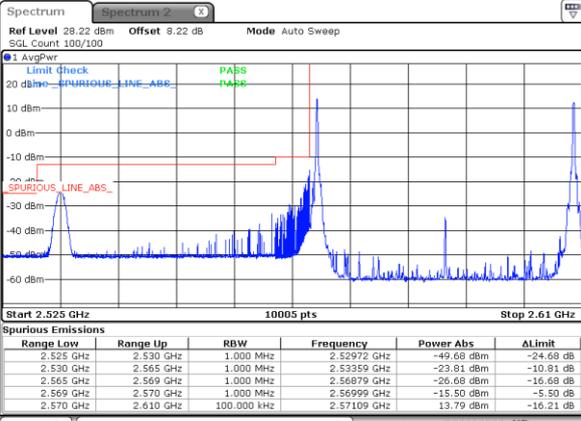
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LTE Band 38C / 20MHz+20MHz

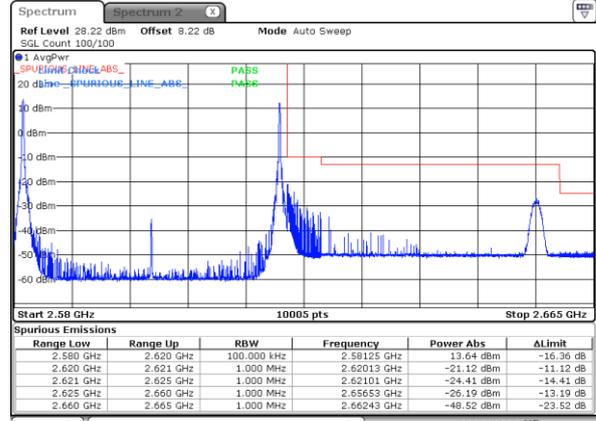
64QAM

Lowest Band Edge / 1RB0 and 1RB9



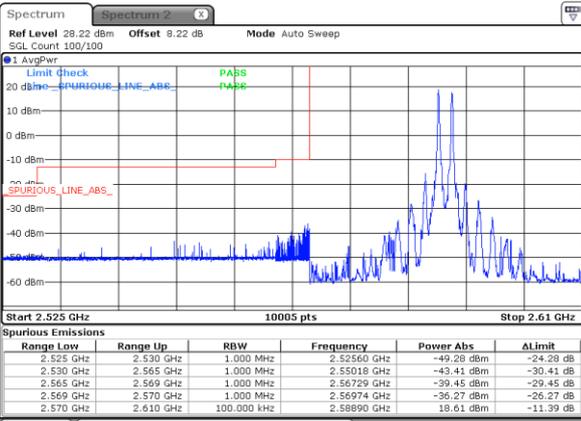
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Highest Band Edge / 1RB0 and 1RB9



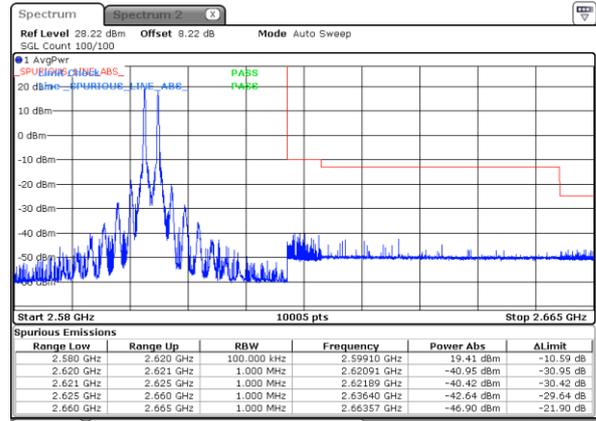
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Lowest Band Edge / 1RB99 and 1RB0



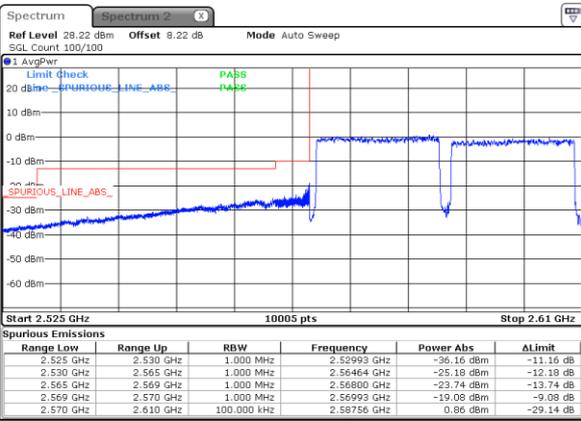
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Highest Band Edge / 1RB99 and 1RB0



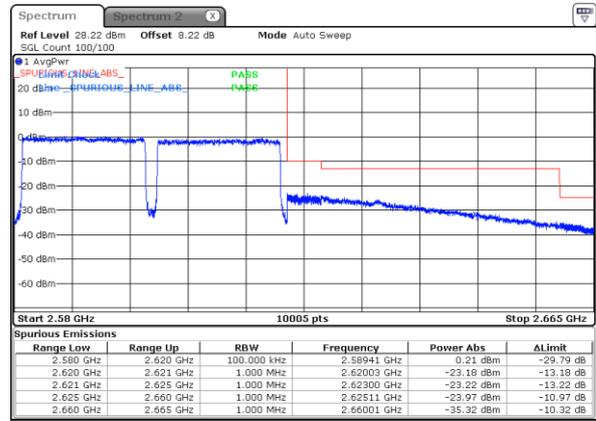
Date: 6.NOV.2024 16:06:10

Lowest Band Edge / Full RB



Date: 6.NOV.2024 15:32:16

Highest Band Edge / Full RB



Date: 6.NOV.2024 16:15:37

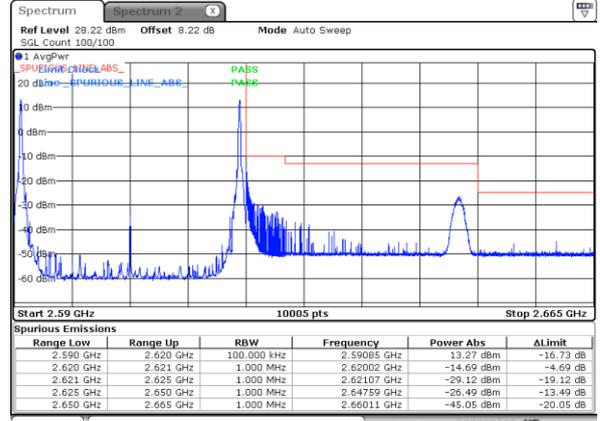
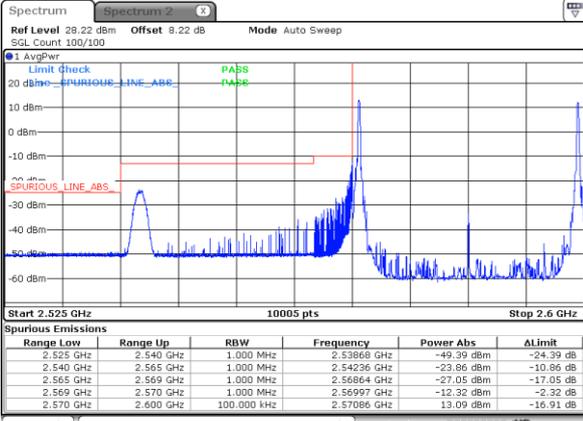


LTE Band 38C / 15MHz+15MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

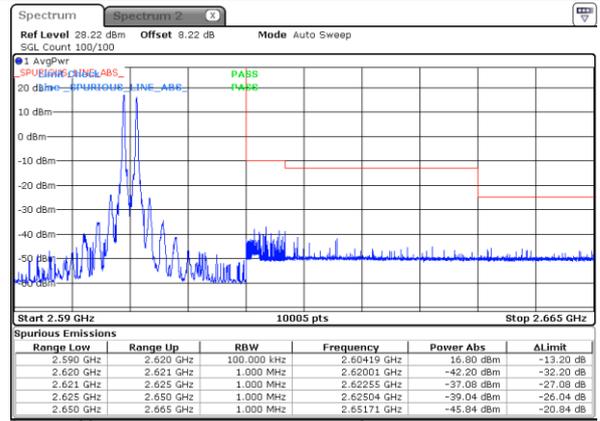
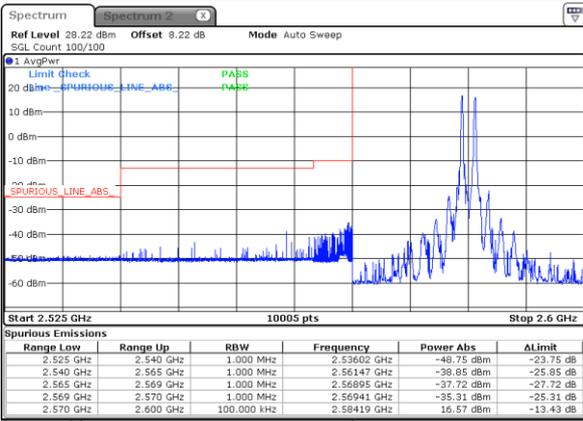


Date: 6.NOV.2024 15:10:33

Date: 6.NOV.2024 15:23:46

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

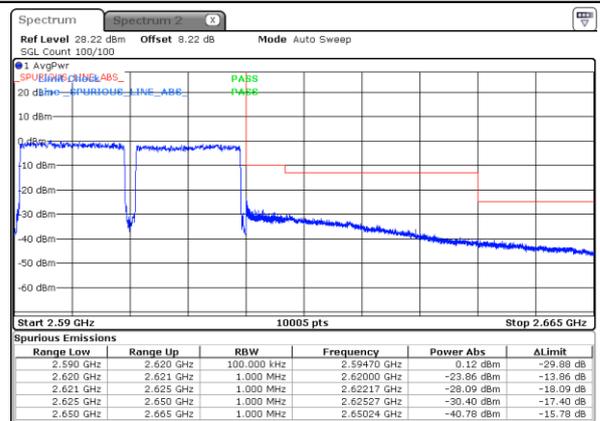
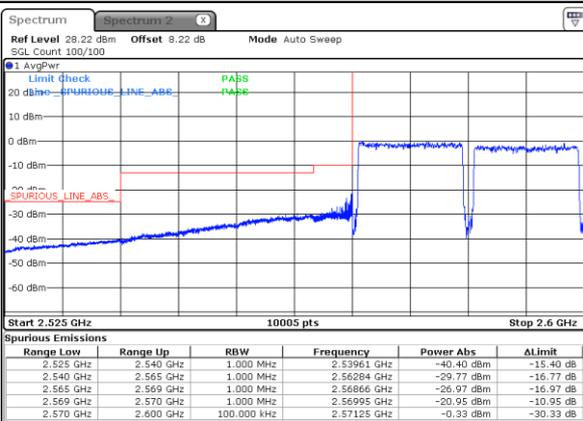


Date: 6.NOV.2024 15:10:11

Date: 6.NOV.2024 15:20:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.NOV.2024 15:02:55

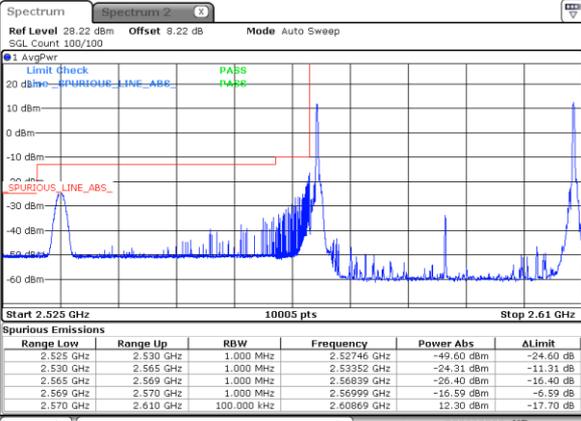
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LTE Band 38C / 20MHz+20MHz

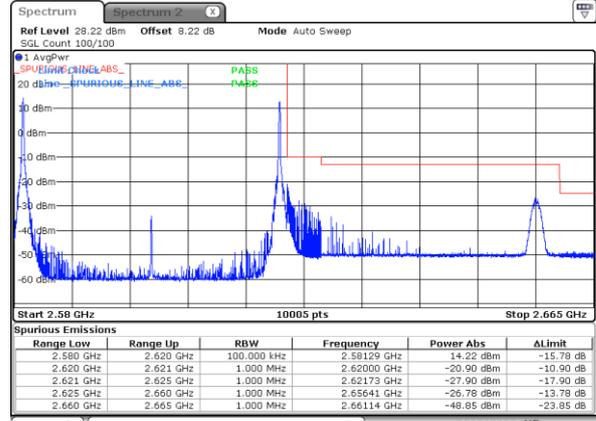
256QAM

Lowest Band Edge / 1RB0 and 1RB9



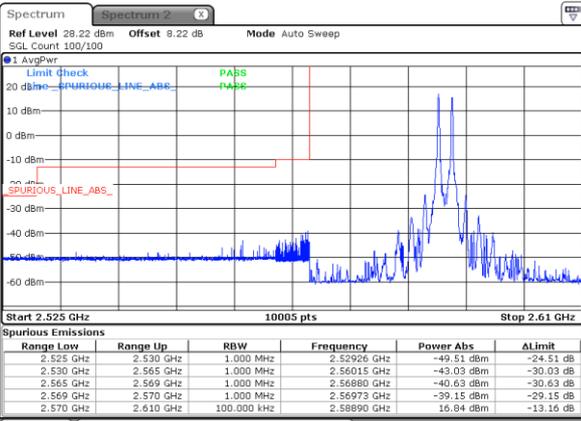
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Highest Band Edge / 1RB0 and 1RB9



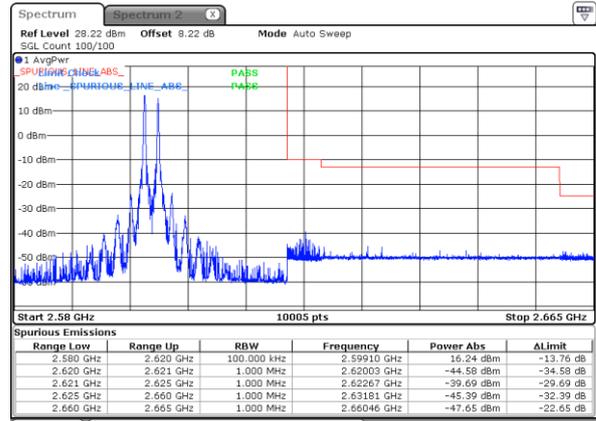
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Lowest Band Edge / 1RB99 and 1RB0



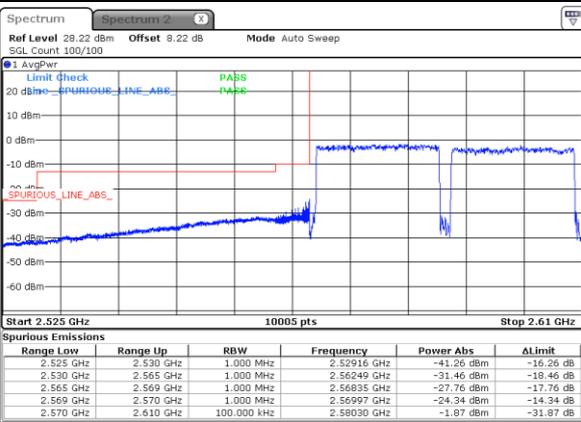
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Highest Band Edge / 1RB99 and 1RB0



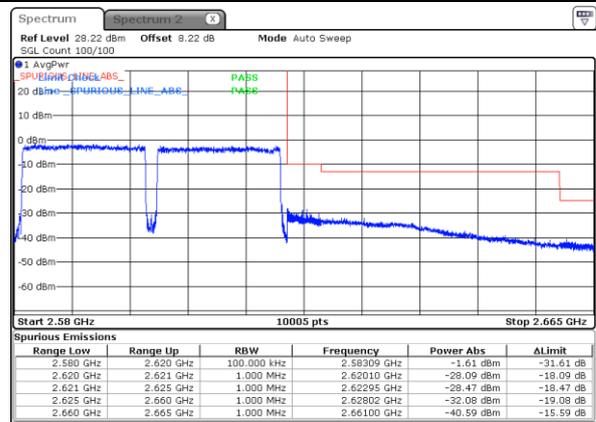
Date: 6.NOV.2024 16:07:01

Lowest Band Edge / Full RB



Date: 6.NOV.2024 15:33:11

Highest Band Edge / Full RB



Date: 6.NOV.2024 16:13:55



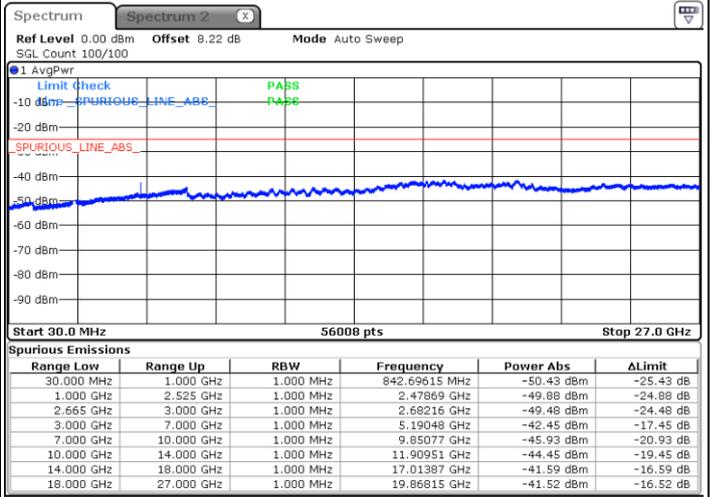
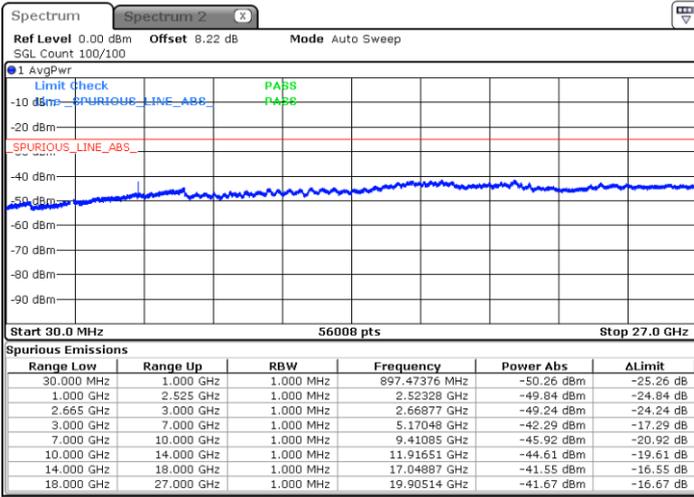
Conducted Spurious Emission

LTE Band 38C / 15MHz+15MHz

QPSK

Lowest Channel / 1RB74 and 1RB0

Middle Channel / 1RB74 and 1RB0

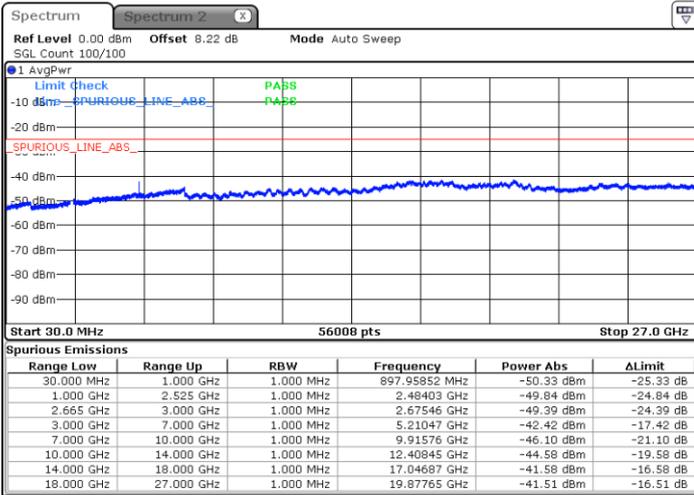


Date: 6.NOV.2024 15:12:20

Date: 6.NOV.2024 15:14:35

Highest Channel / 1RB74 and 1RB0

N/A



Date: 6.NOV.2024 15:16:51

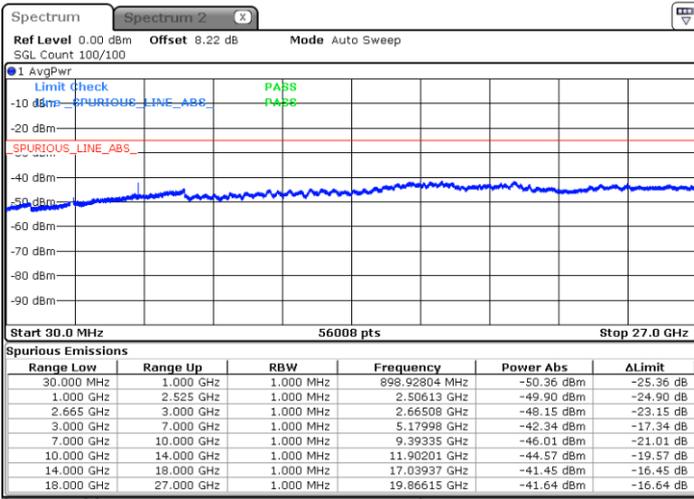


LTE Band 38C / 20MHz+20MHz

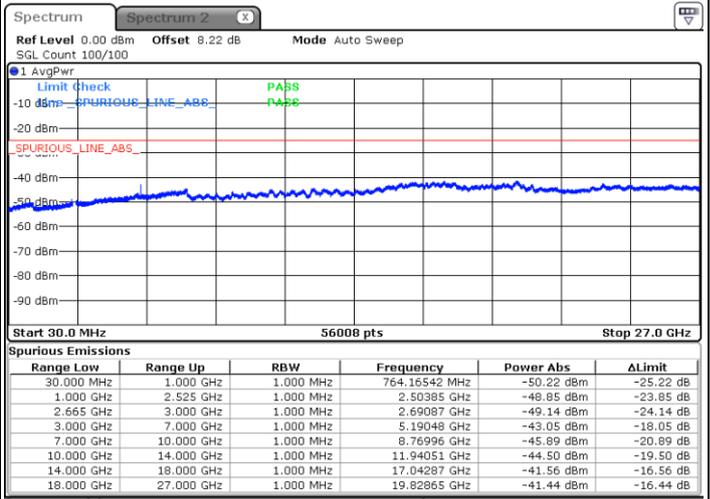
QPSK

Lowest Channel / 1RB99 and 1RB0

Middle Channel / 1RB99 and 1RB0



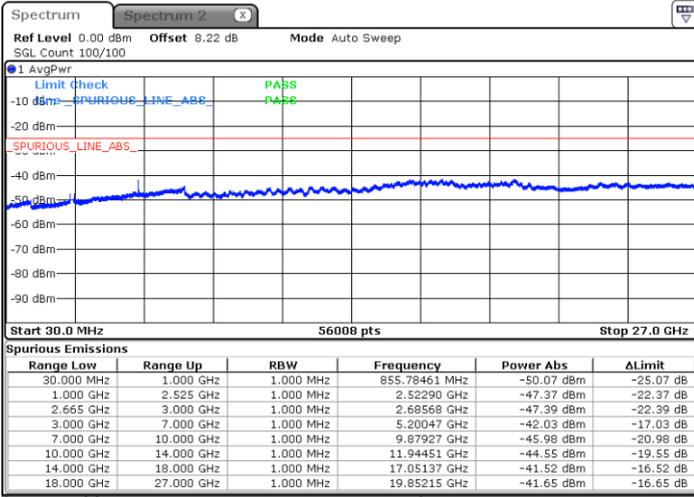
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Date: 6.NOV.2024 15:44:52

Highest Channel / 1RB99 and 1RB0

N/A



Date: 6.NOV.2024 16:03:34



Frequency Stability

Test Conditions		LTE Band 38C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0062	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0054	
-20	Normal Voltage	0.0047	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0003	

Note:

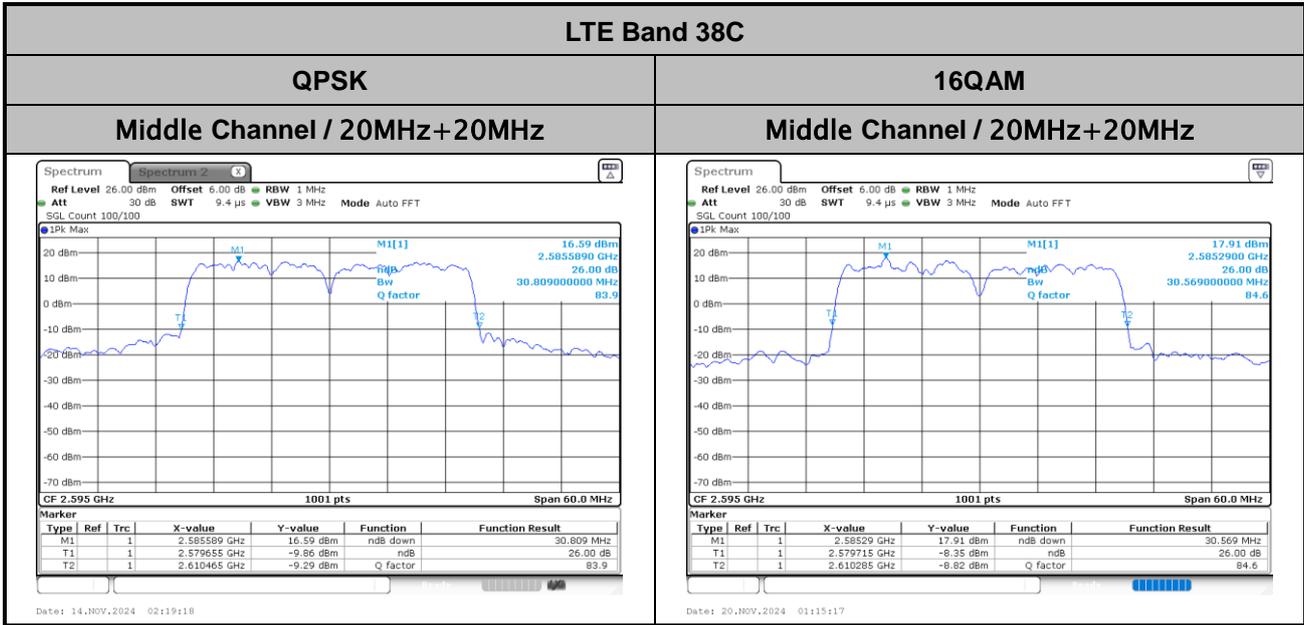
1. Normal Voltage =3.69 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38C(Other PA)

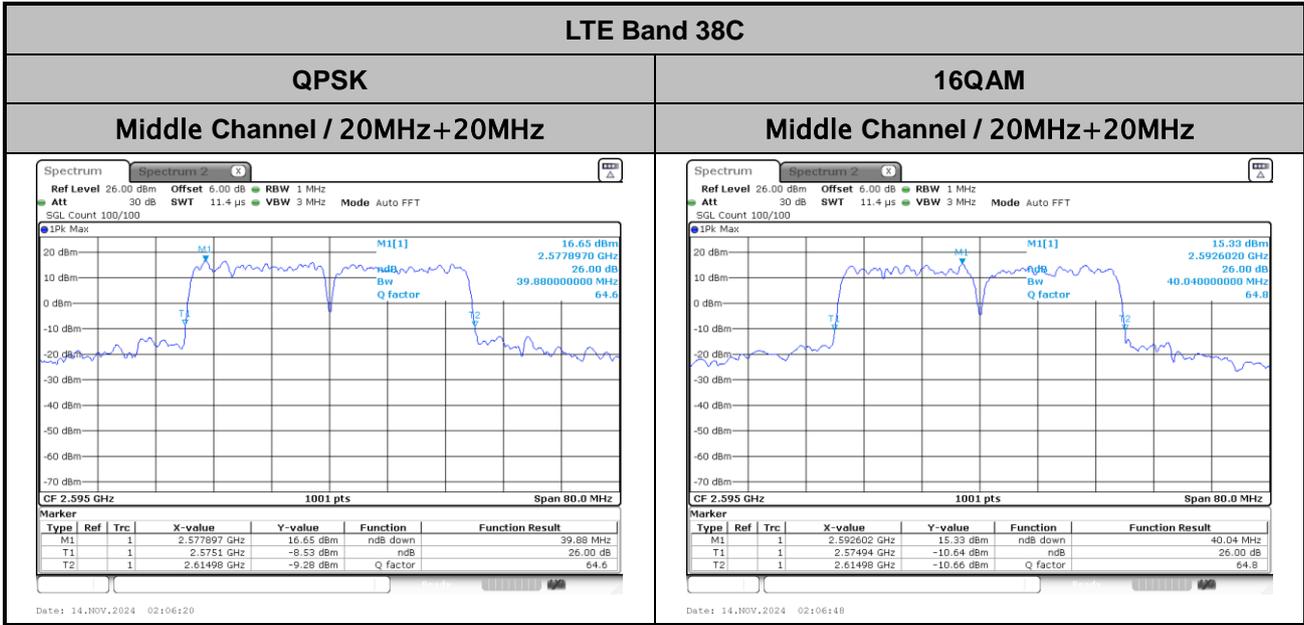
26dB Bandwidth

Mode	LTE Band 38C : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	15MHz+15MHz	15MHz+15MHz
Middle CH	30.81	30.57





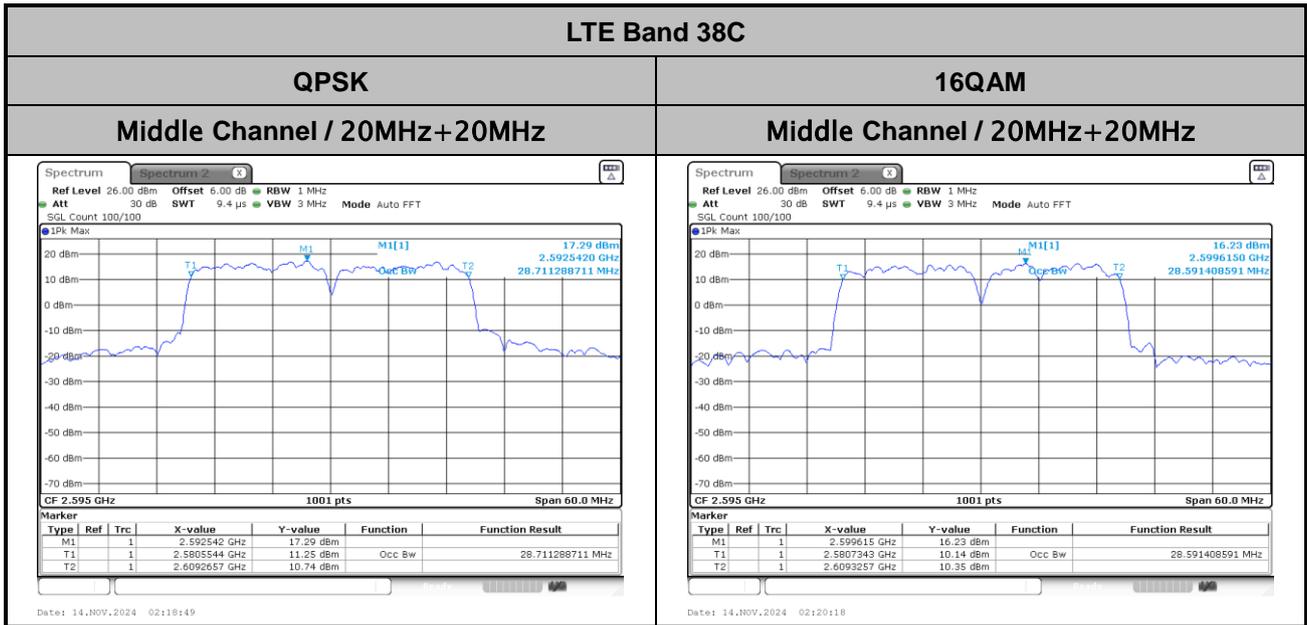
Mode	LTE Band 38C : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.88	40.04





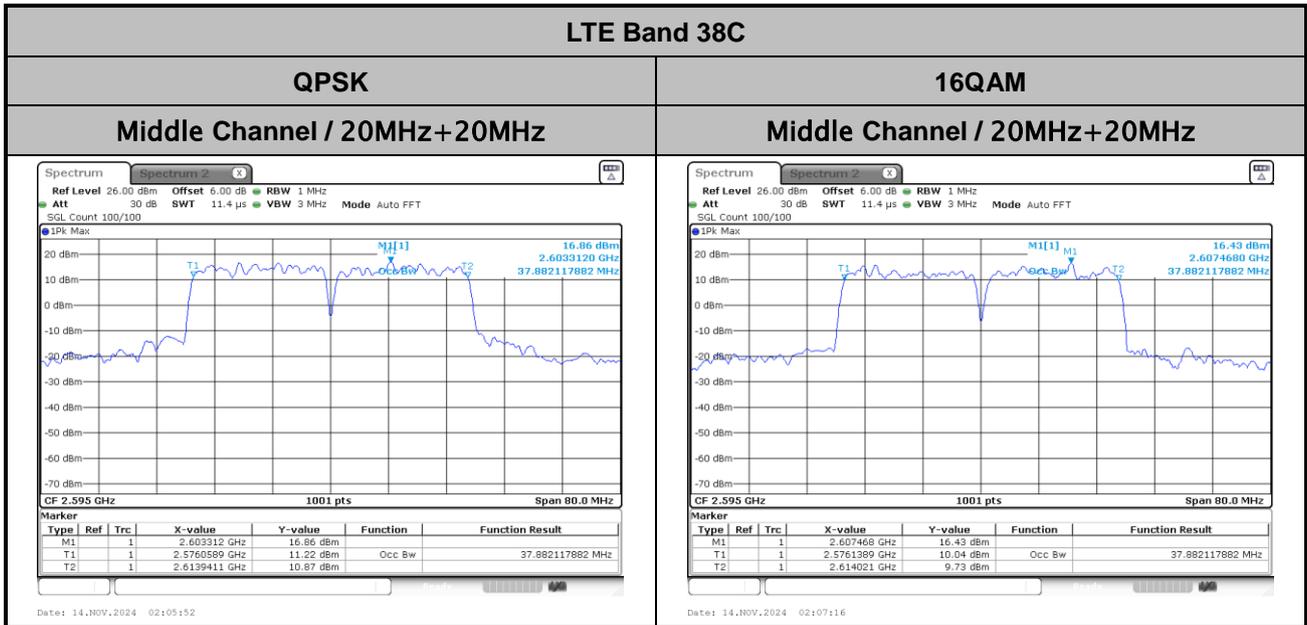
Occupied Bandwidth

Mode	LTE Band 38C : 99%OBW(MHz)	
Mod.	QPSK	16QAM
BW	15MHz+15MHz	15MHz+15MHz
Middle CH	28.71	28.59





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





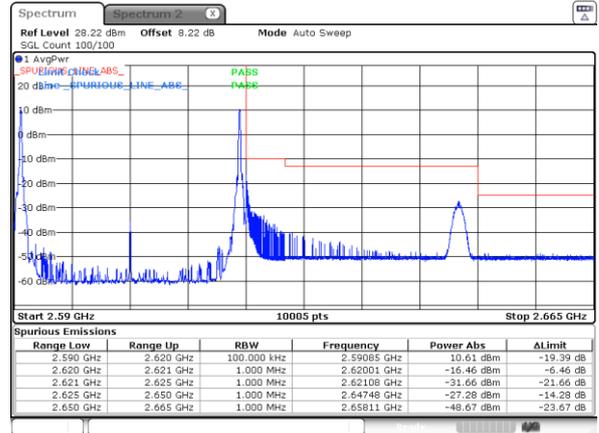
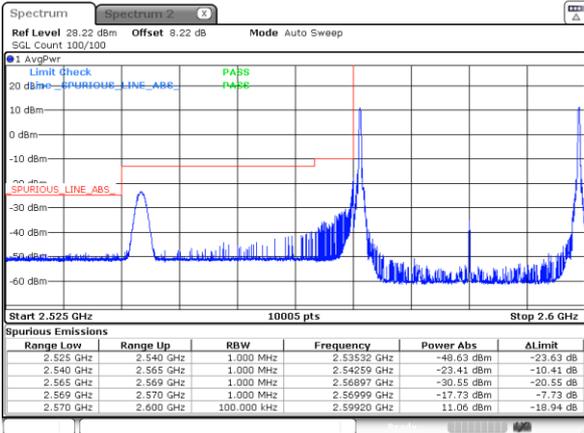
Conducted Band Edge

LTE Band 38C / 15MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

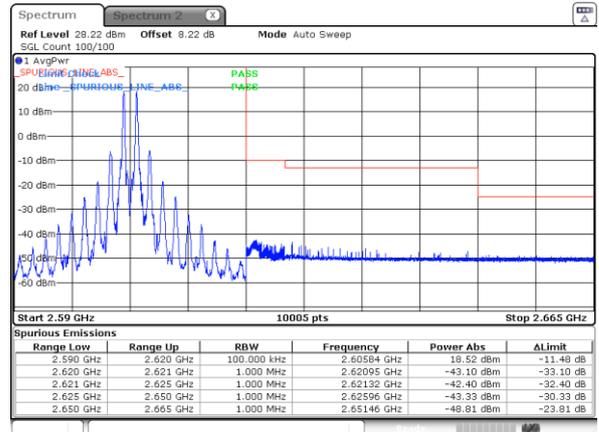
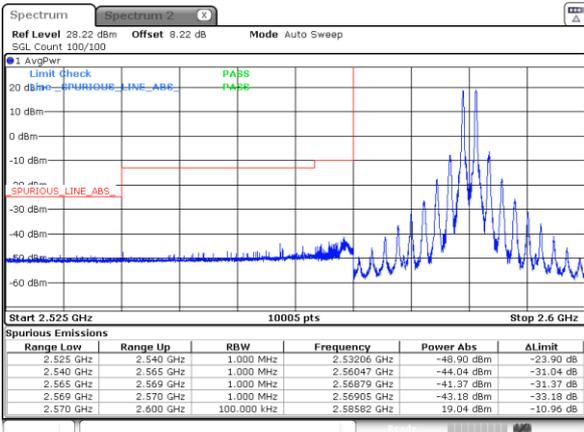


Date: 13,NOV,2024 23:28:05

Date: 14,NOV,2024 00:33:21

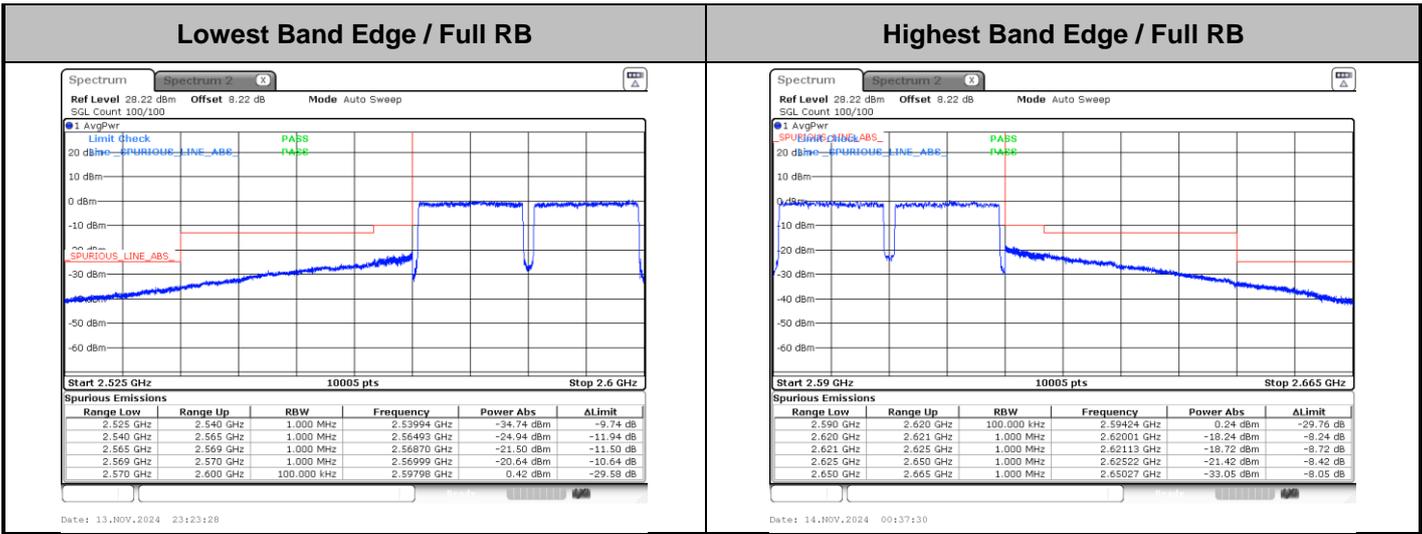
Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0



Date: 13,NOV,2024 23:32:38

Date: 14,NOV,2024 00:29:10

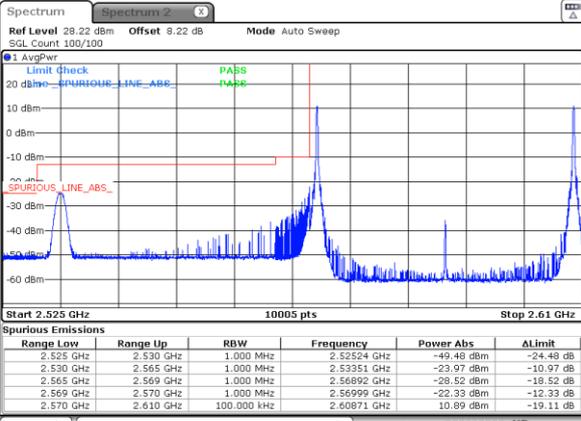




LTE Band 38C / 20MHz+20MHz

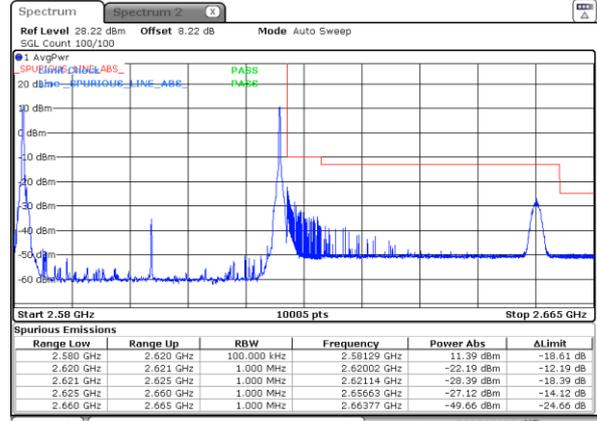
QPSK

Lowest Band Edge / 1RB0 and 1RB9



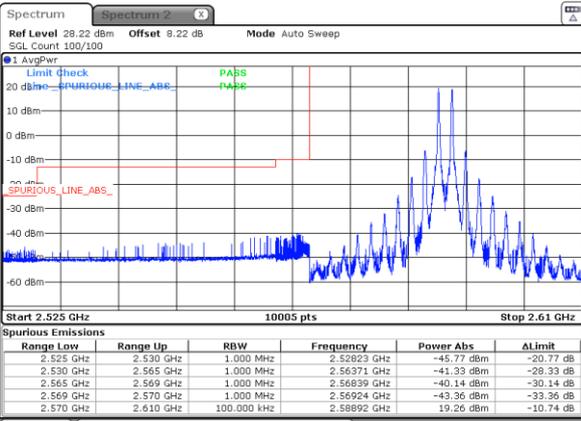
Date: 14.NOV.2024 01:05:48

Highest Band Edge / 1RB0 and 1RB9



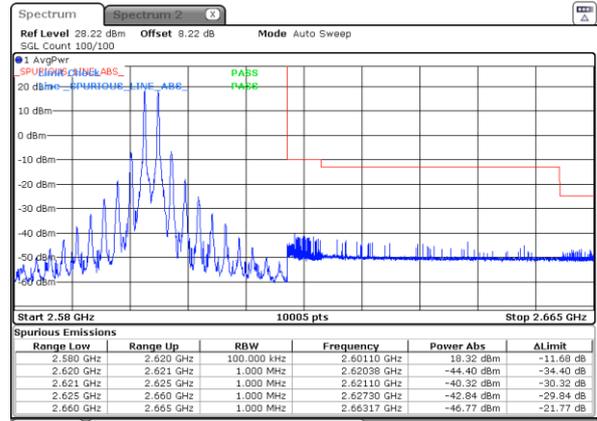
Date: 14.NOV.2024 01:12:19

Lowest Band Edge / 1RB99 and 1RB0



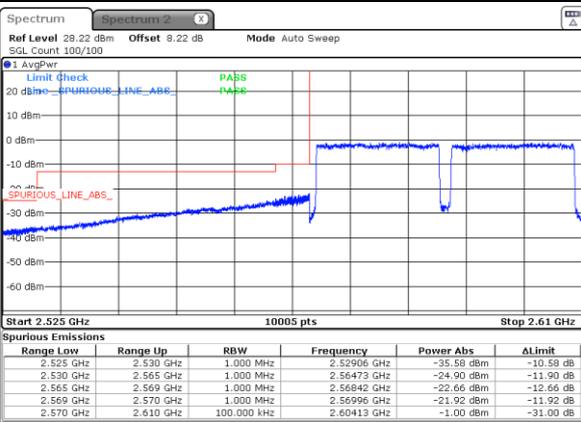
Date: 14.NOV.2024 01:10:01

Highest Band Edge / 1RB99 and 1RB0



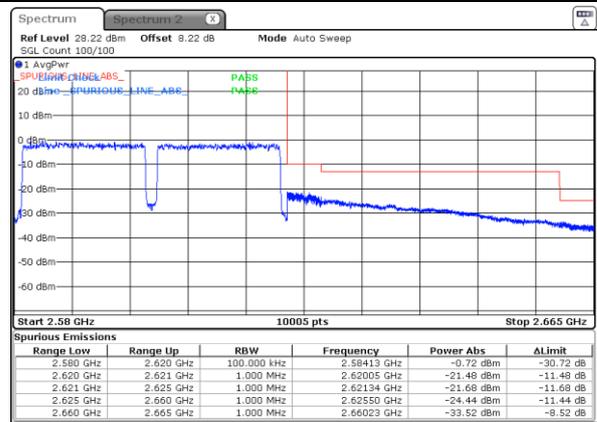
Date: 14.NOV.2024 01:19:57

Lowest Band Edge / Full RB



Date: 14.NOV.2024 01:01:35

Highest Band Edge / Full RB



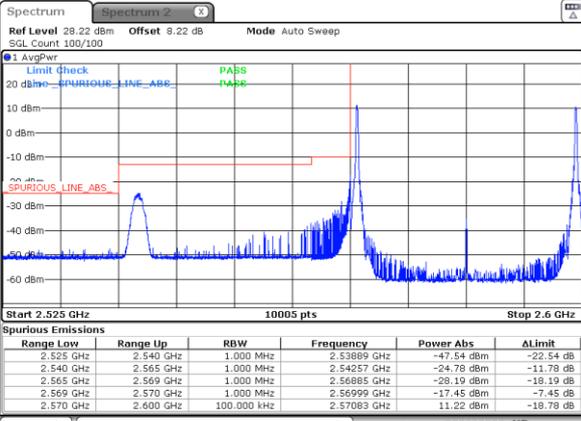
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LTE Band 38C / 15MHz+15MHz

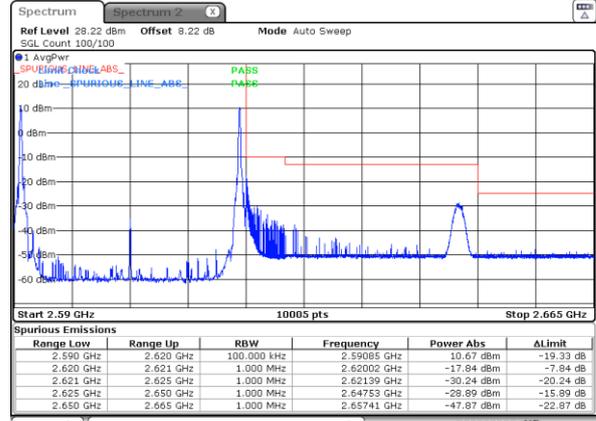
16QAM

Lowest Band Edge / 1RB0 and 1RB74



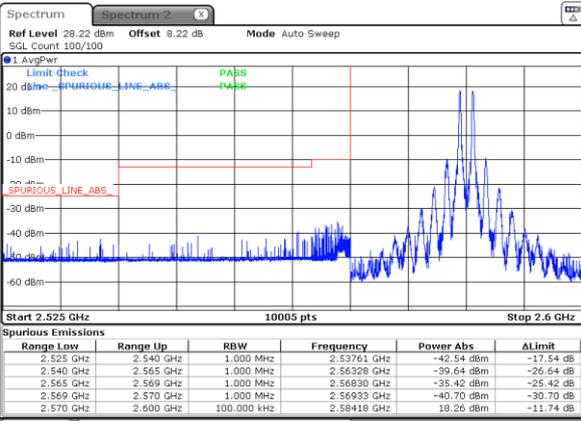
Date: 13,NOV,2024 23:29:13

Highest Band Edge / 1RB0 and 1RB74



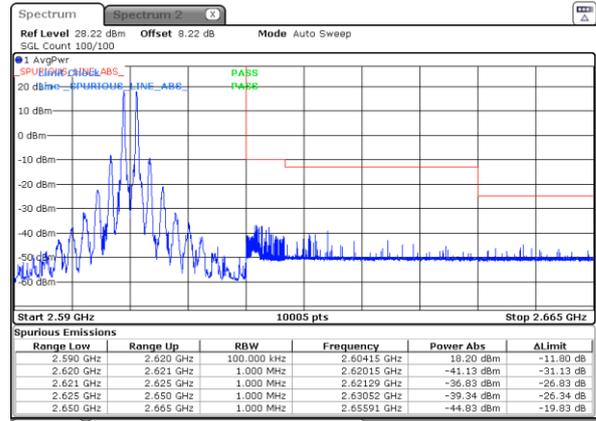
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Lowest Band Edge / 1RB74 and 1RB0



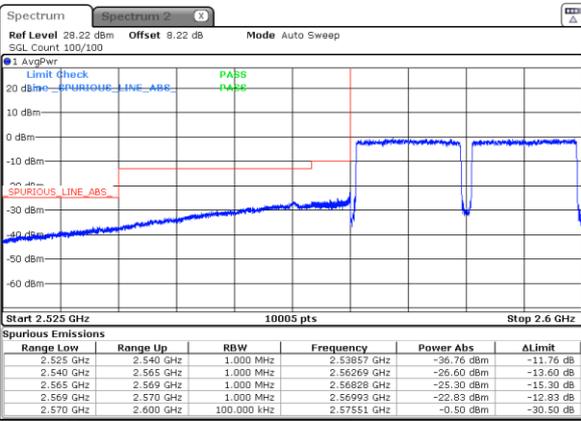
Date: 13,NOV,2024 23:33:46

Highest Band Edge / 1RB74 and 1RB0



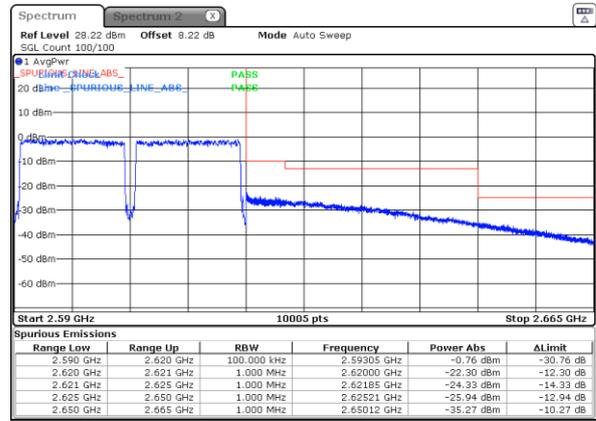
Date: 14,NOV,2024 00:30:12

Lowest Band Edge / Full RB



Date: 13,NOV,2024 23:24:36

Highest Band Edge / Full RB



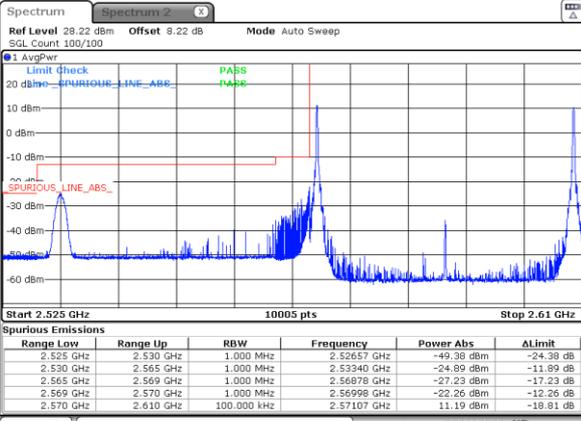
Date: 14,NOV,2024 00:38:33



LTE Band 38C / 20MHz+20MHz

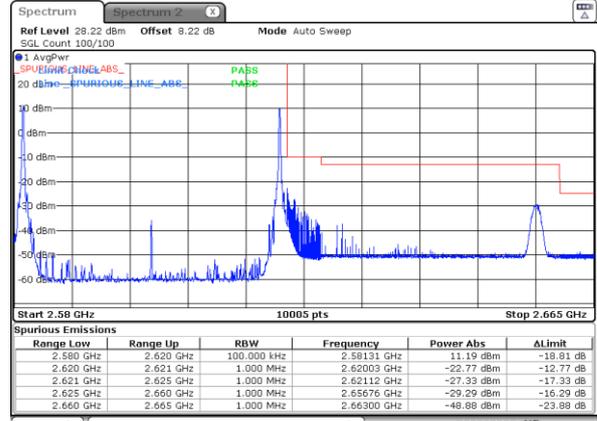
16QAM

Lowest Band Edge / 1RB0 and 1RB9



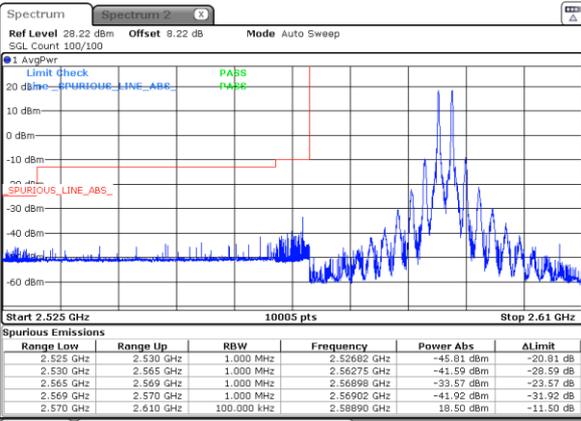
Date: 14.NOV.2024 01:10:52

Highest Band Edge / 1RB0 and 1RB9



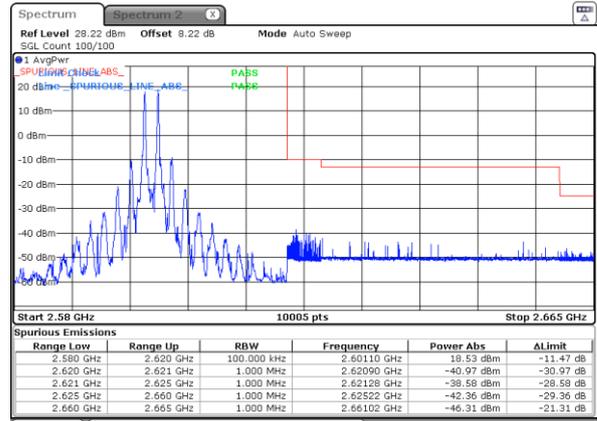
Date: 14.NOV.2024 01:25:22

Lowest Band Edge / 1RB99 and 1RB0



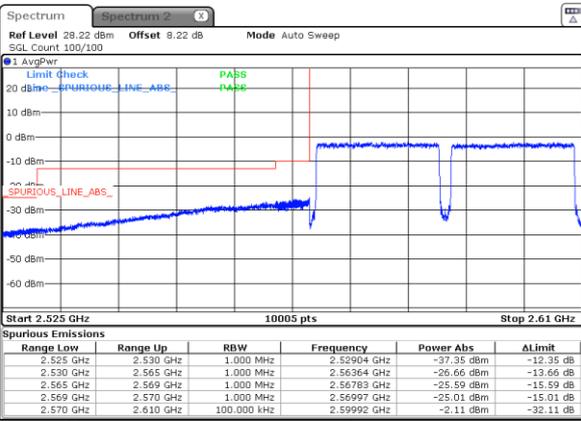
Date: 14.NOV.2024 01:11:04

Highest Band Edge / 1RB99 and 1RB0



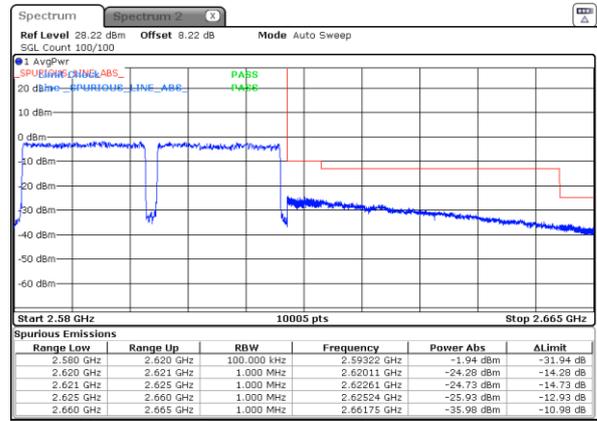
Date: 14.NOV.2024 01:20:59

Lowest Band Edge / Full RB



Date: 14.NOV.2024 01:02:38

Highest Band Edge / Full RB



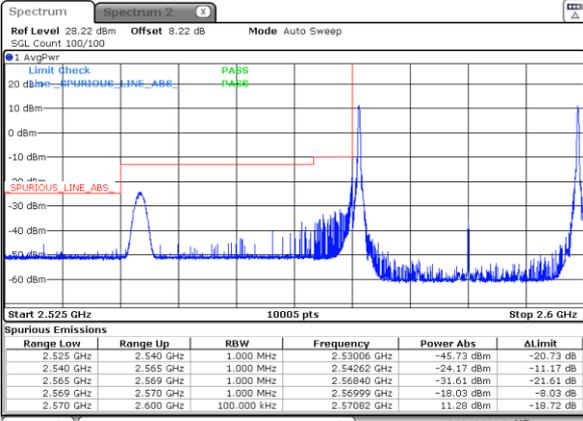
Date: 14.NOV.2024 01:29:32



LTE Band 38C / 15MHz+15MHz

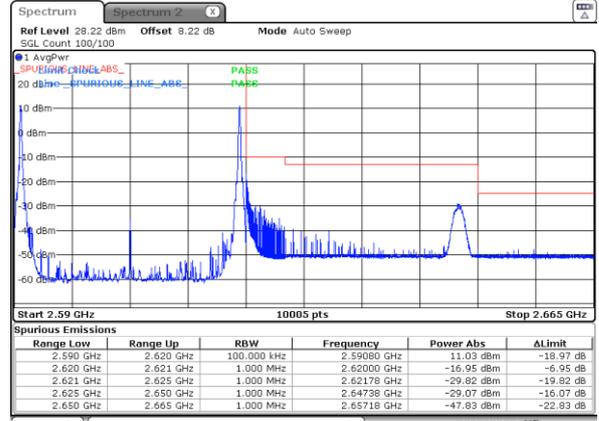
64QAM

Lowest Band Edge / 1RB0 and 1RB74



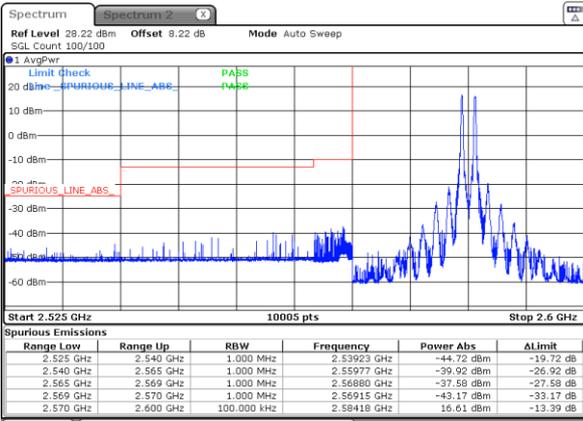
Date: 13,NOV,2024 23:30:21

Highest Band Edge / 1RB0 and 1RB74



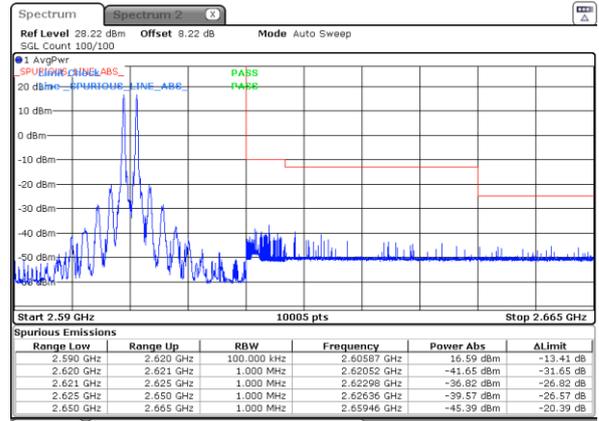
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Lowest Band Edge / 1RB74 and 1RB0



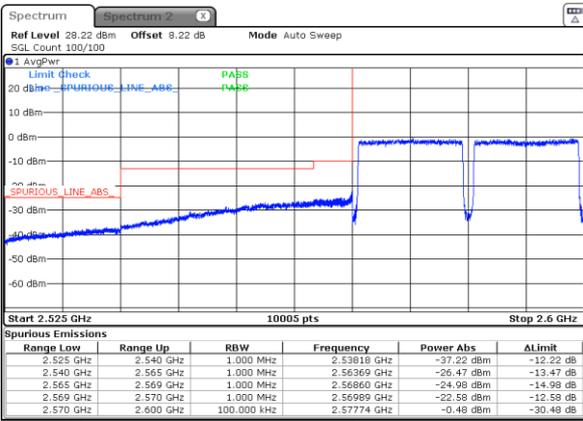
Date: 13,NOV,2024 23:34:54

Highest Band Edge / 1RB74 and 1RB0



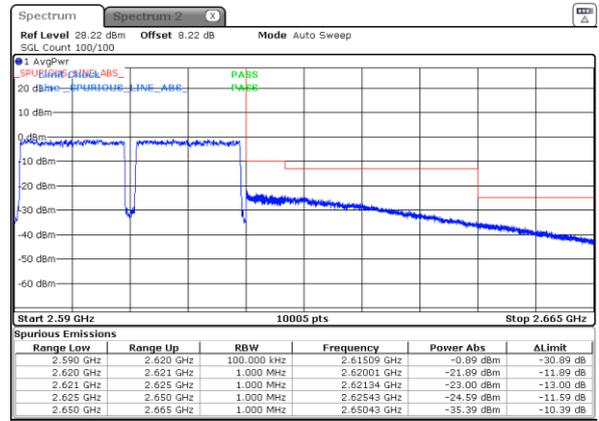
Date: 14,NOV,2024 00:31:15

Lowest Band Edge / Full RB



Date: 13,NOV,2024 23:25:46

Highest Band Edge / Full RB



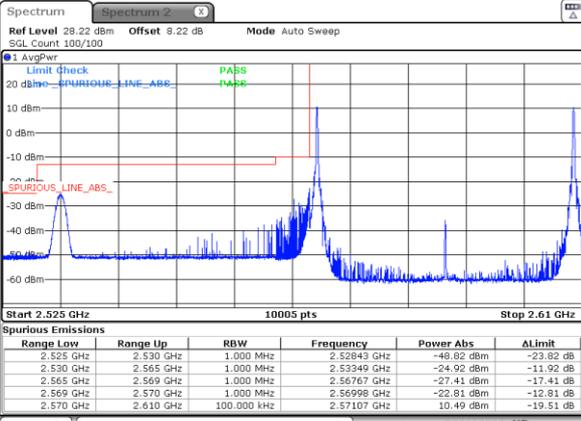
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LTE Band 38C / 20MHz+20MHz

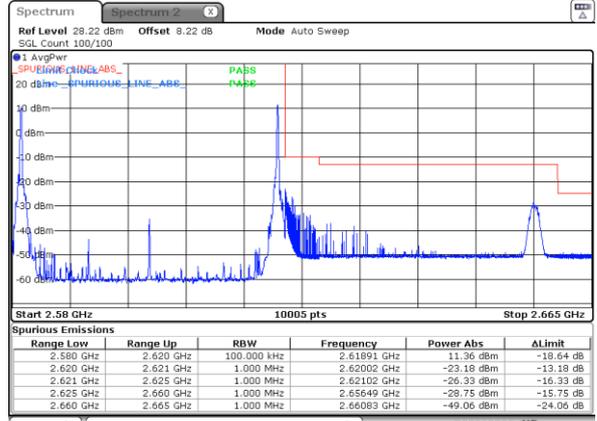
64QAM

Lowest Band Edge / 1RB0 and 1RB9



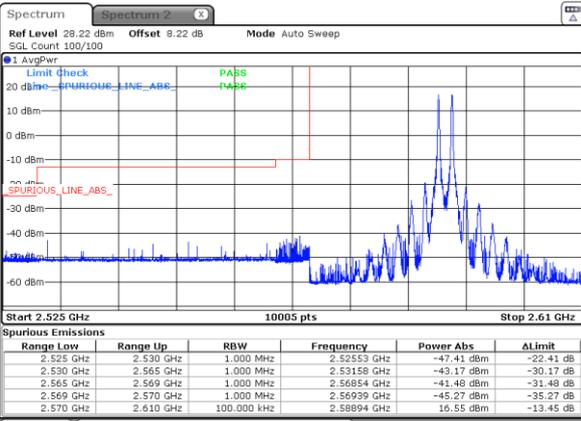
Date: 14.NOV.2024 01:08:58

Highest Band Edge / 1RB0 and 1RB9



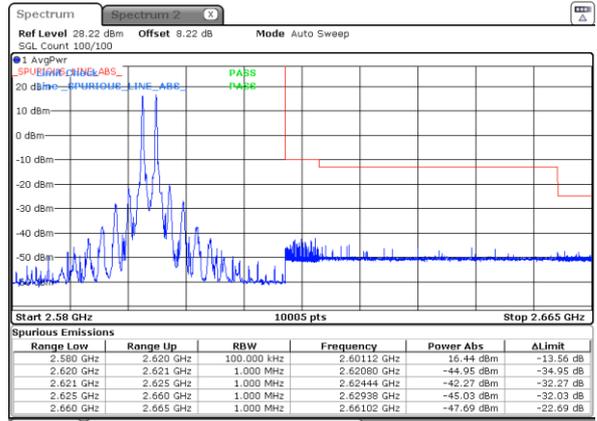
Date: 14.NOV.2024 01:26:24

Lowest Band Edge / 1RB99 and 1RB0



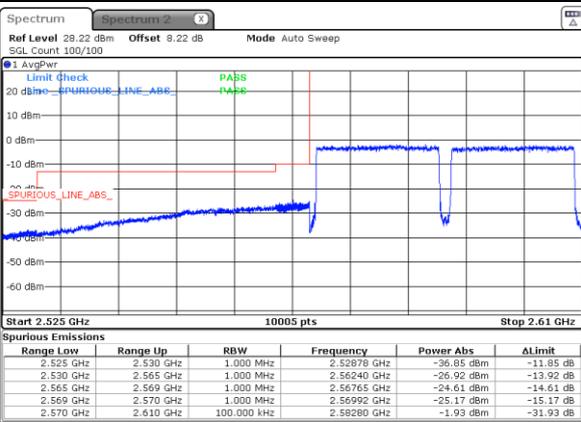
Date: 14.NOV.2024 01:12:07

Highest Band Edge / 1RB99 and 1RB0



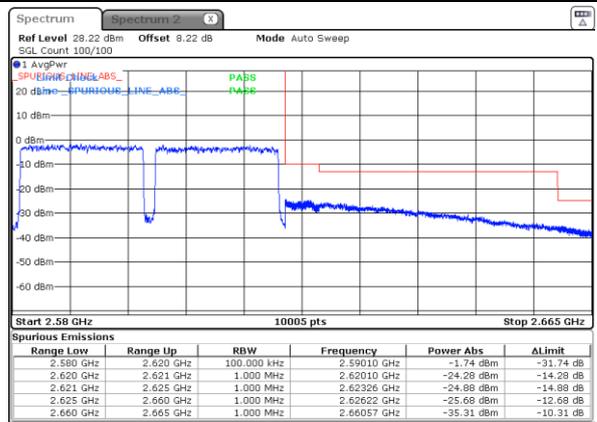
Date: 14.NOV.2024 01:22:14

Lowest Band Edge / Full RB



Date: 14.NOV.2024 01:03:42

Highest Band Edge / Full RB



Date: 14.NOV.2024 01:30:34