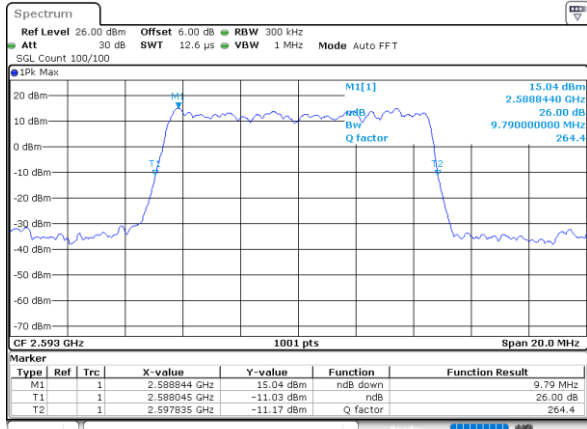




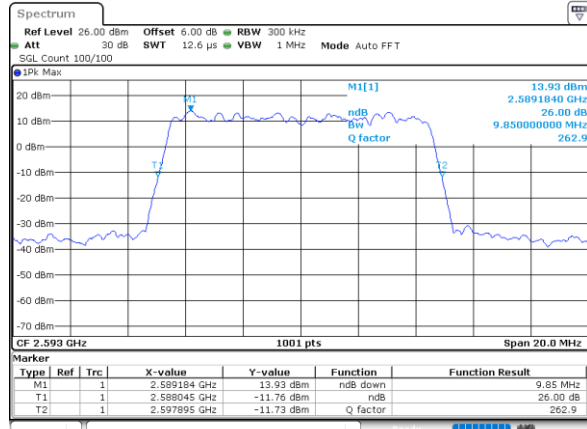
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 16 JUN 2024 22:42:10

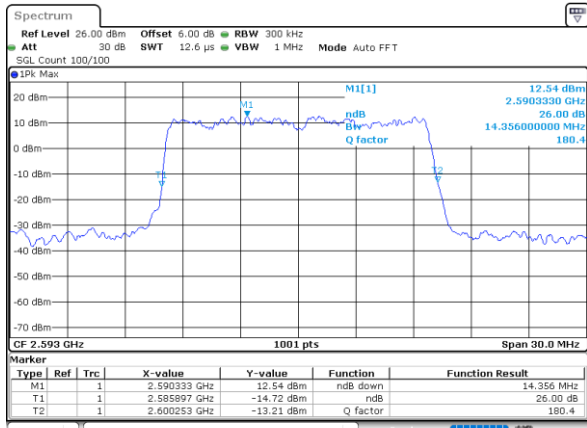
Middle Channel / 10MHz / 16QAM



Date: 16 JUN 2024 22:42:13

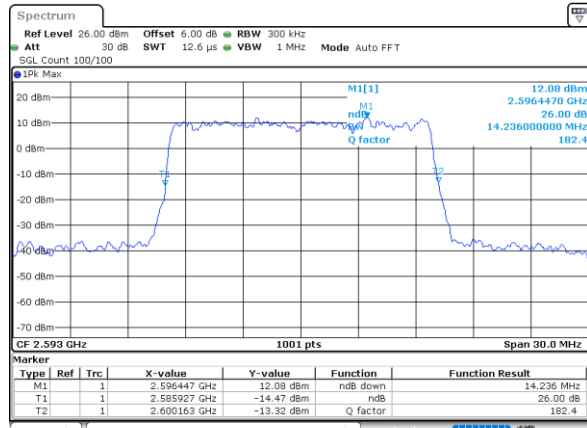
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 16 JUN 2024 23:23:26

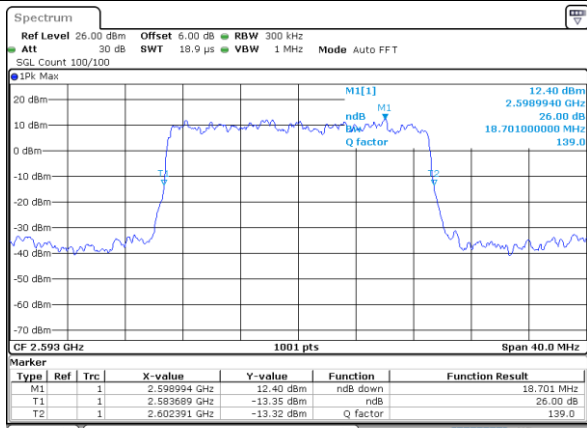
Middle Channel / 15MHz / 16QAM



Date: 16 JUN 2024 23:23:45

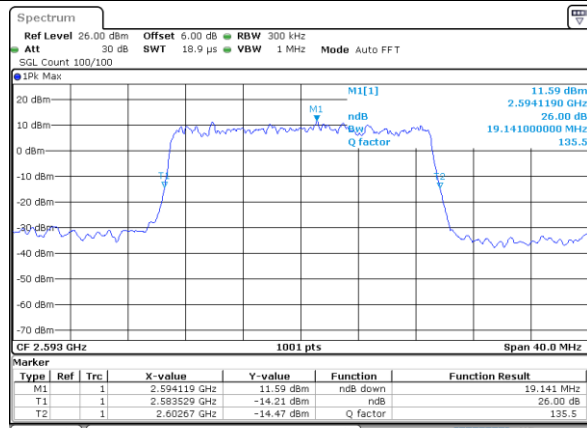
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 16 JUN 2024 23:35:40

Middle Channel / 20MHz / 16QAM

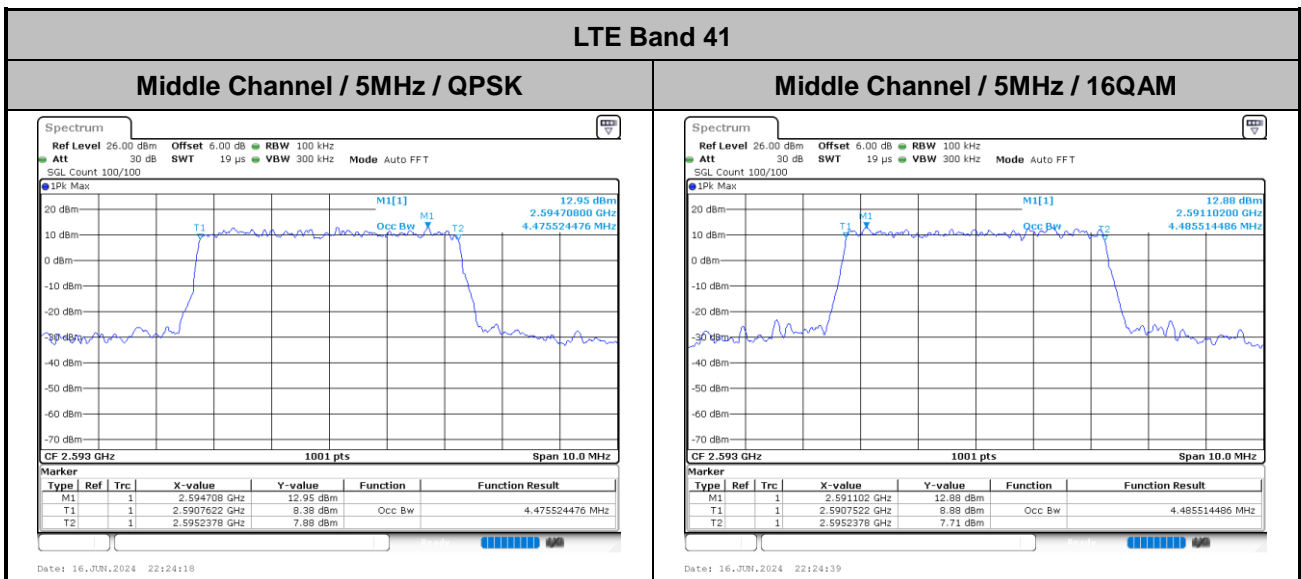


Date: 16 JUN 2024 23:36:08



# Occupied Bandwidth

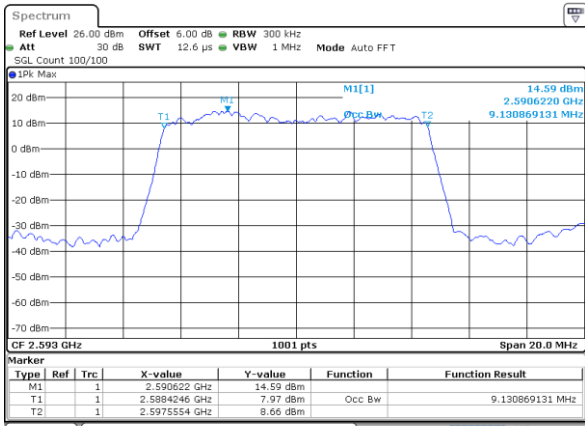
Mode	LTE Band 41 : 99%OBW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.48	4.49
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.13	9.05
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	13.46	13.34
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	17.94	17.82





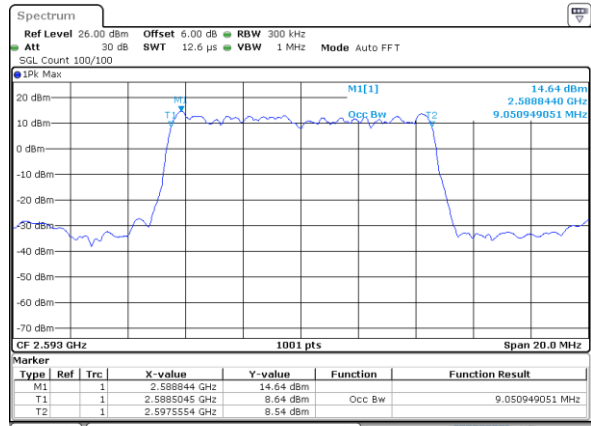
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 16 JUN 2024 22:42:17

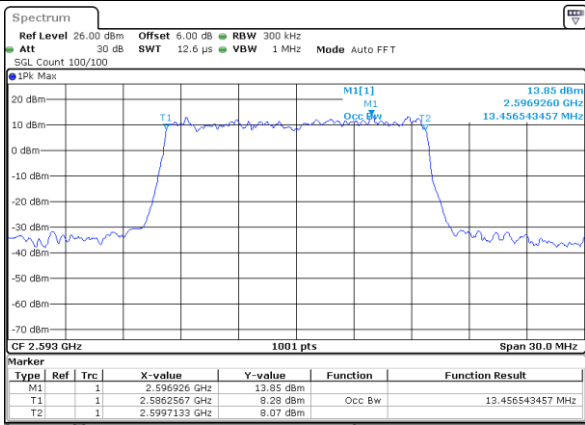
Middle Channel / 10MHz / 16QAM



Date: 16 JUN 2024 22:43:56

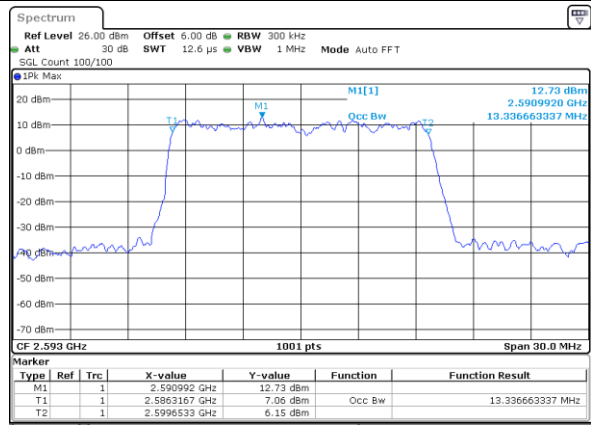
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 16 JUN 2024 23:23:33

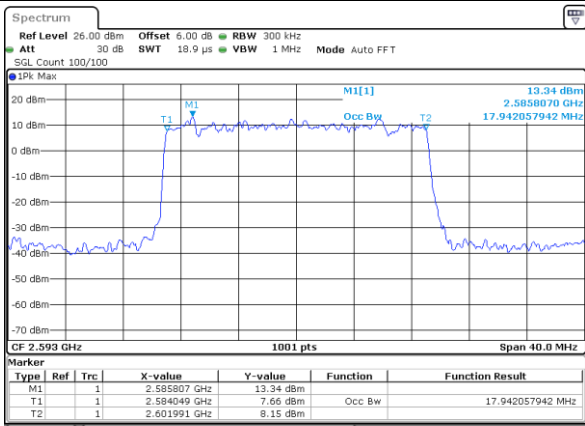
Middle Channel / 15MHz / 16QAM



Date: 16 JUN 2024 23:23:51

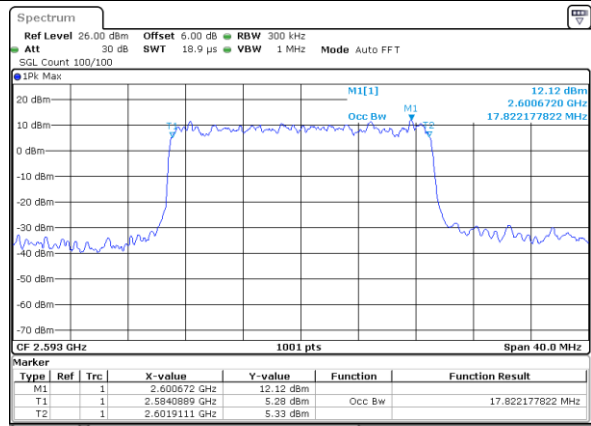
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 16 JUN 2024 23:35:48

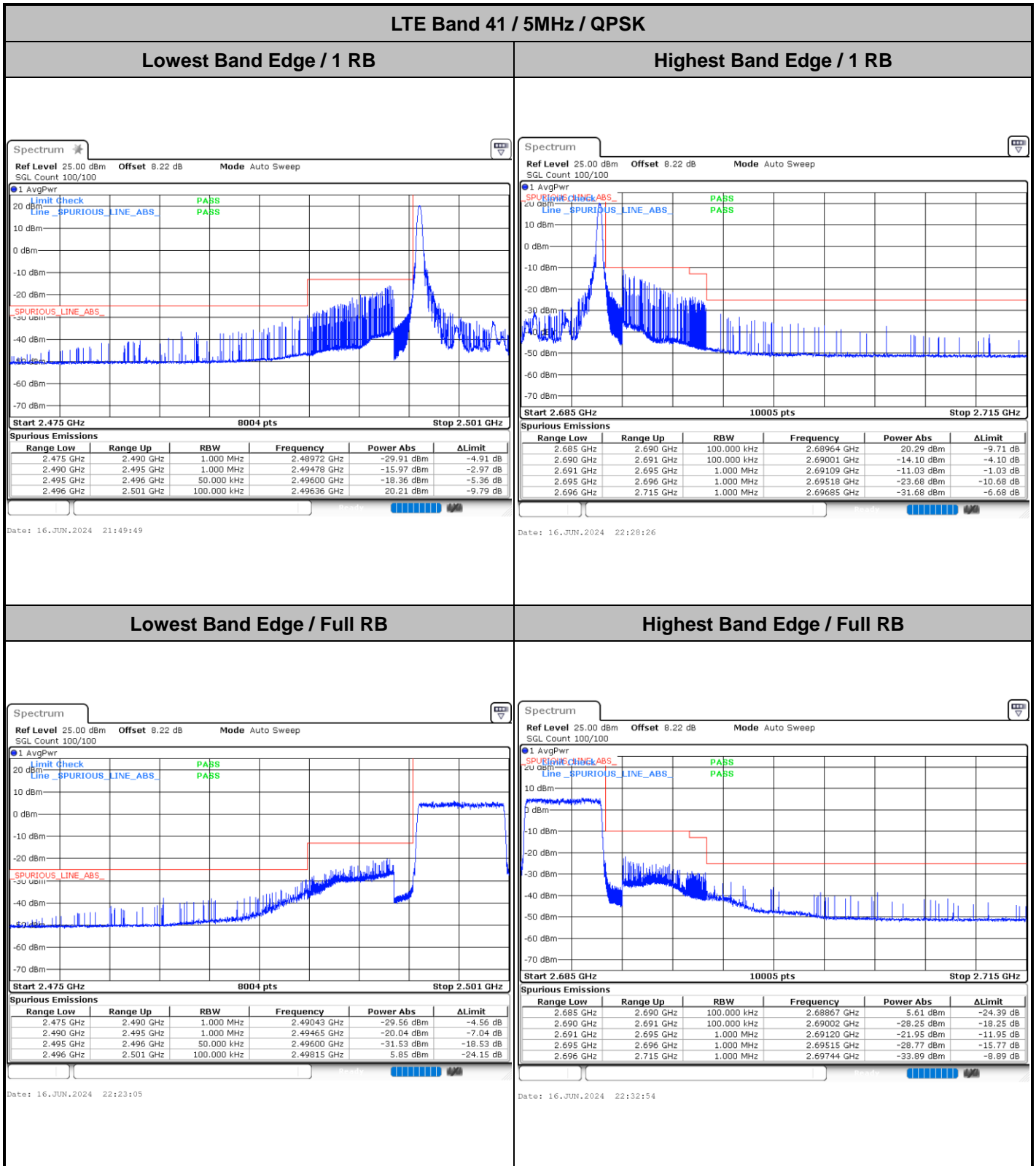
Middle Channel / 20MHz / 16QAM



Date: 16 JUN 2024 23:36:15



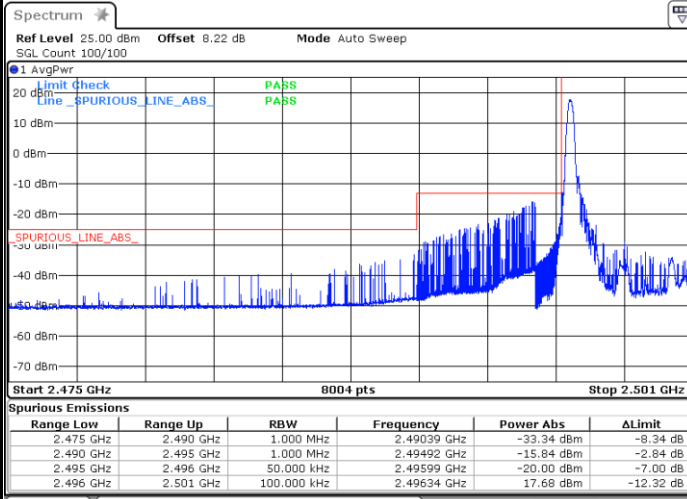
# Conducted Band Edge





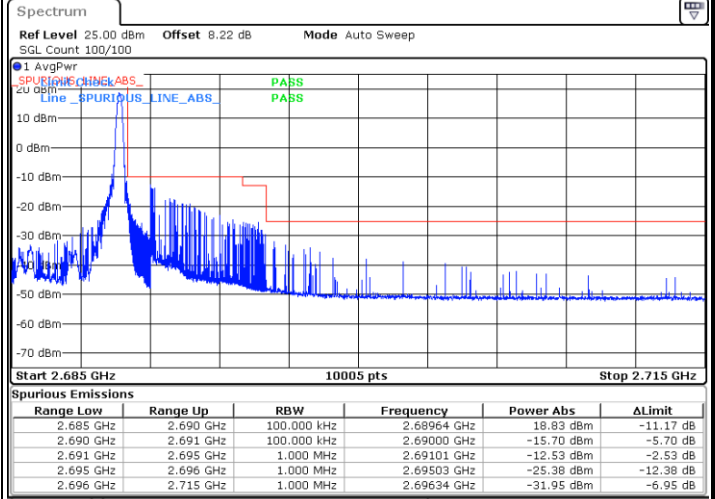
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



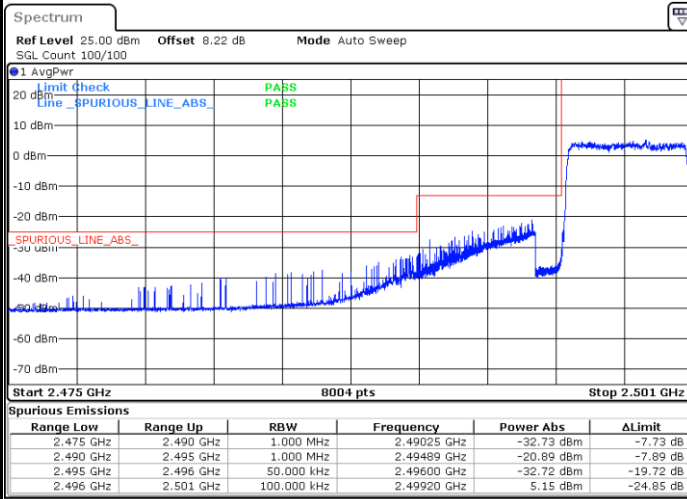
Date: 16 JUN 2024 21:50:21

Highest Band Edge / 1 RB



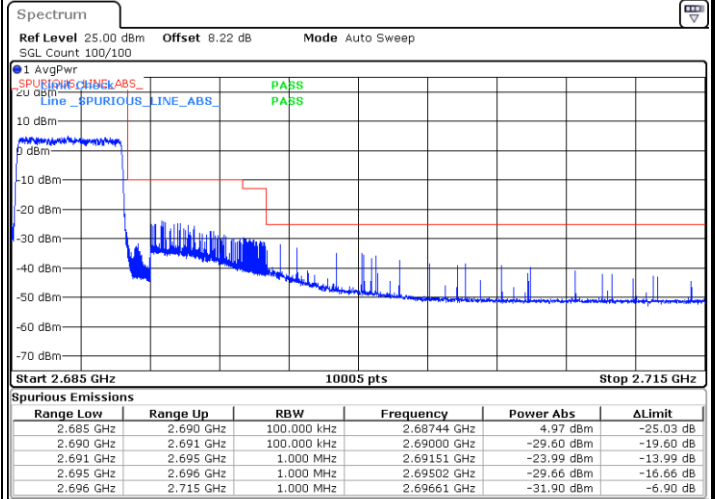
Date: 16 JUN 2024 22:28:46

Lowest Band Edge / Full RB



Date: 16 JUN 2024 22:22:15

Highest Band Edge / Full RB

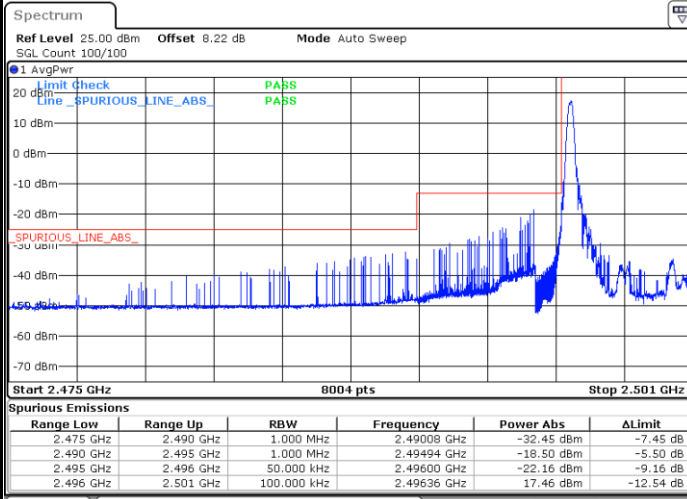


Date: 16 JUN 2024 22:32:37



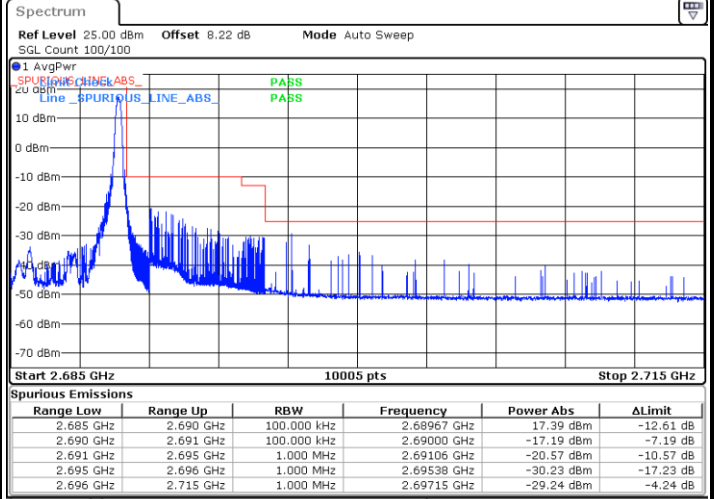
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



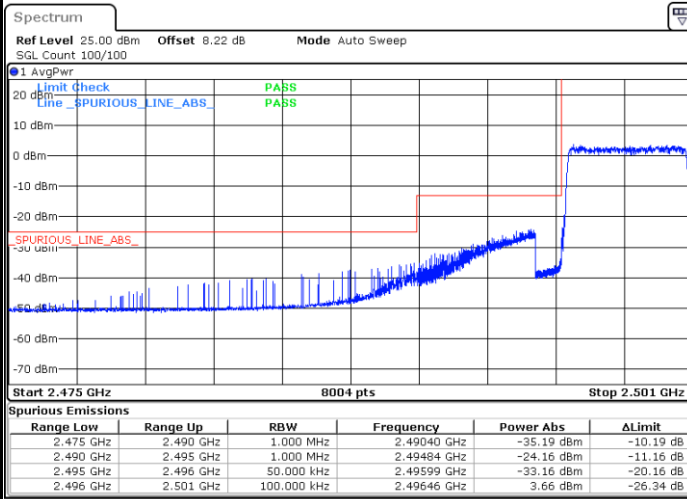
Date: 16 JUN 2024 22:17:36

Highest Band Edge / 1 RB



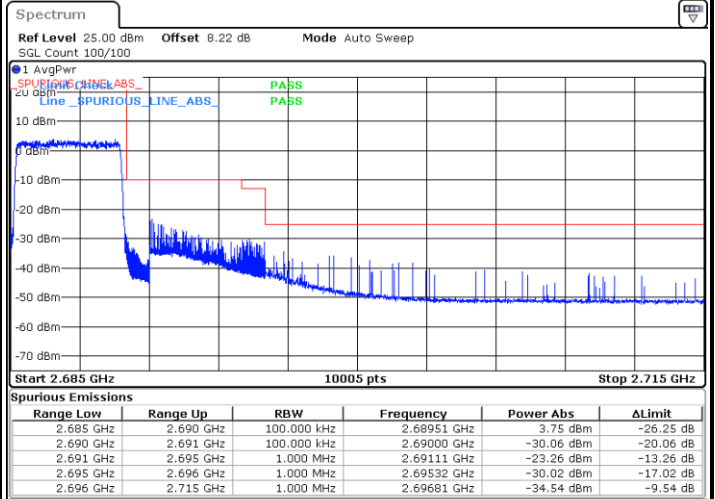
Date: 16 JUN 2024 22:29:07

Lowest Band Edge / Full RB



Date: 16 JUN 2024 22:21:47

Highest Band Edge / Full RB

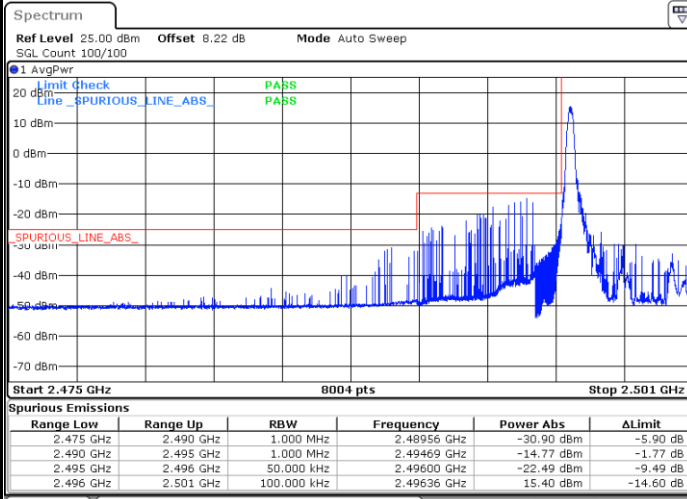


Date: 16 JUN 2024 22:32:01



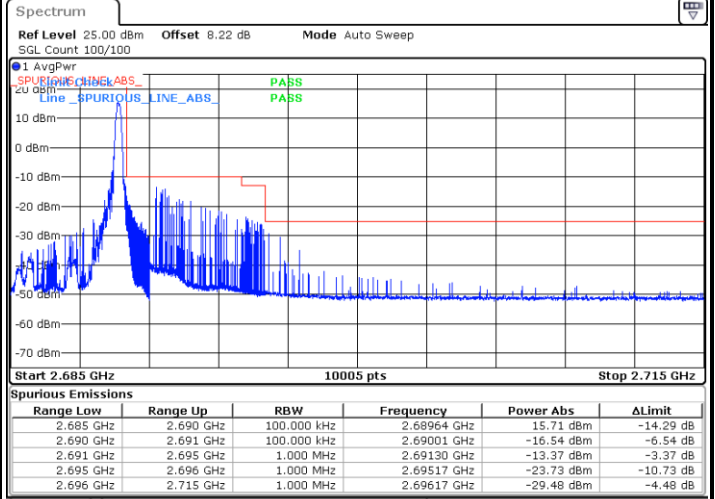
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



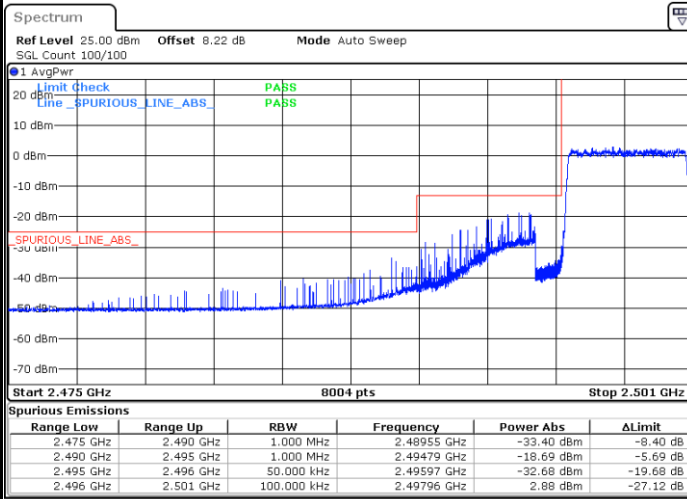
Date: 16 JUN 2024 22:18:12

Highest Band Edge / 1 RB



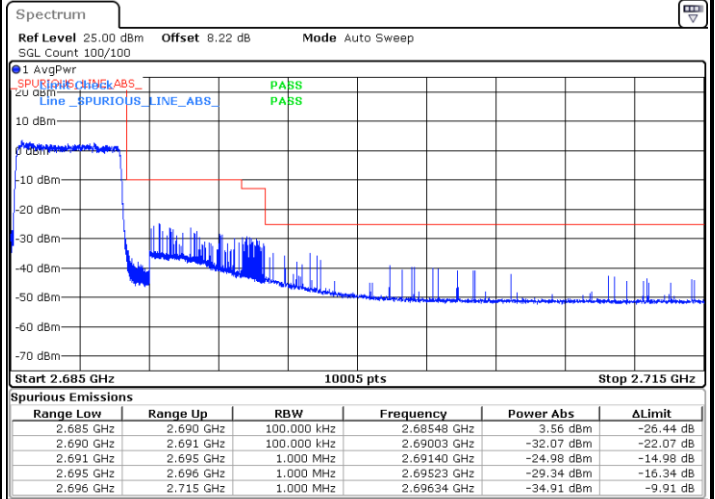
Date: 16 JUN 2024 22:30:04

Lowest Band Edge / Full RB



Date: 16 JUN 2024 22:21:18

Highest Band Edge / Full RB

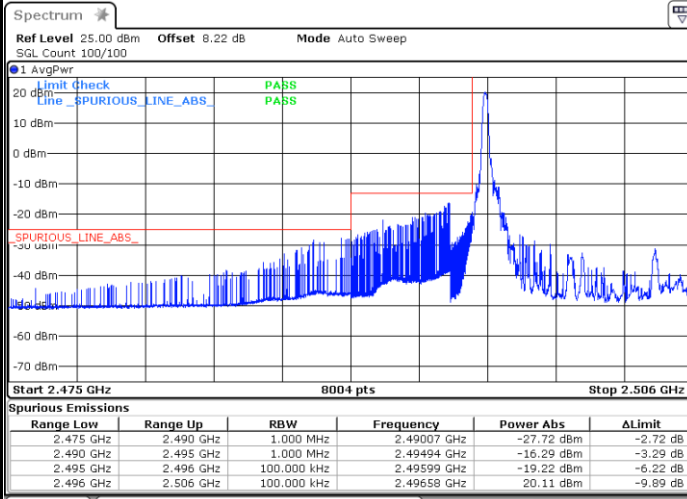


Date: 16 JUN 2024 22:30:40



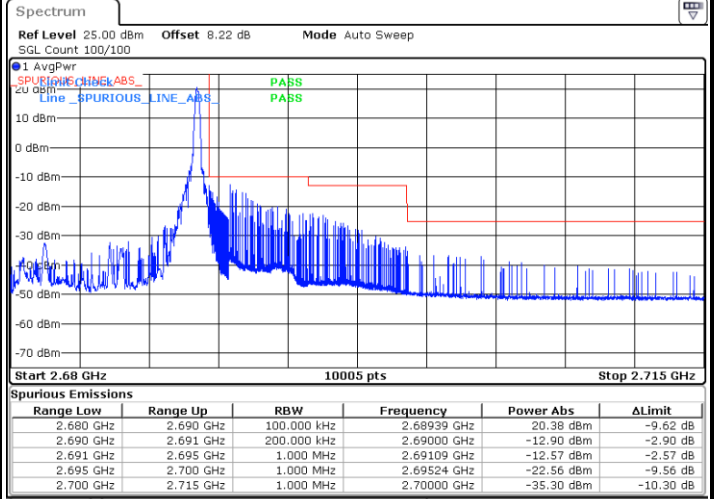
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



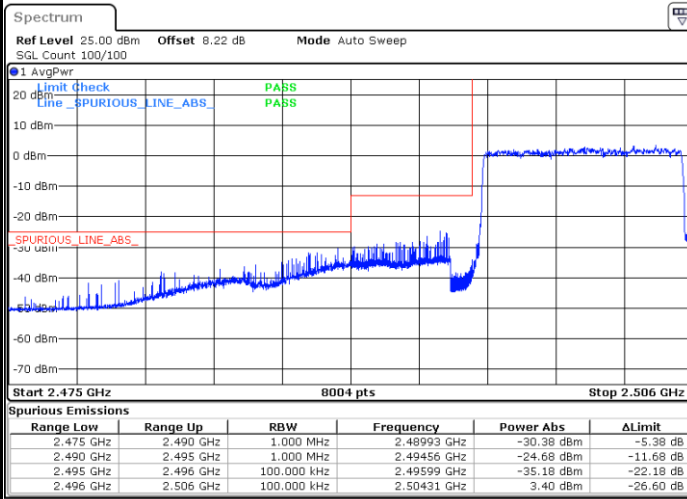
Date: 16 JUN 2024 22:35:49

Highest Band Edge / 1 RB



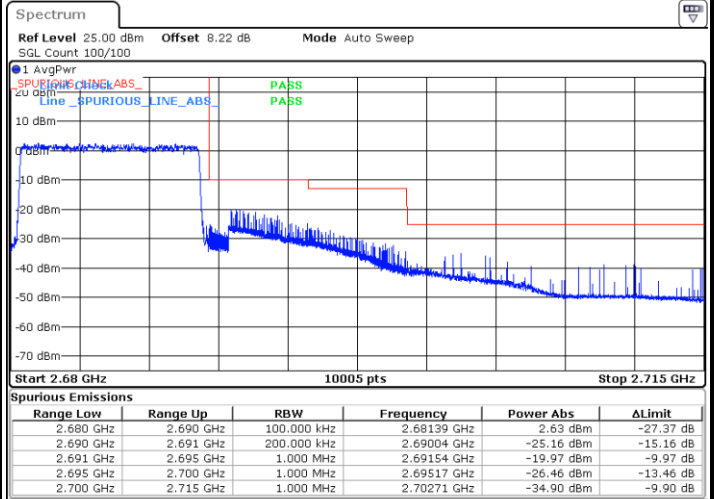
Date: 16 JUN 2024 22:55:30

Lowest Band Edge / Full RB



Date: 16 JUN 2024 22:40:07

Highest Band Edge / Full RB



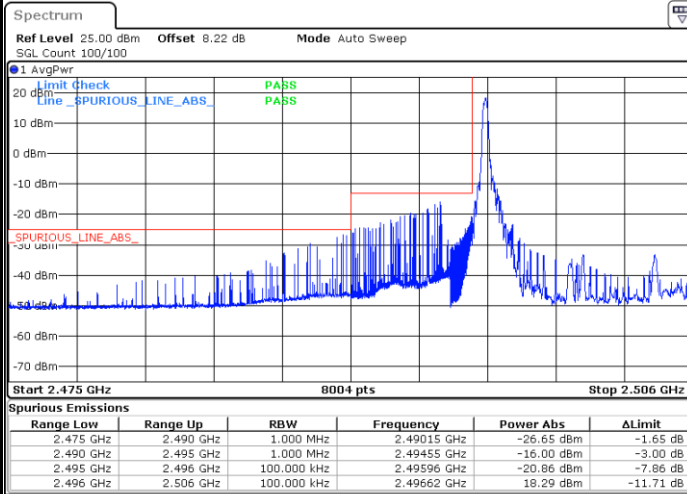
Date: 16 JUN 2024 22:59:28





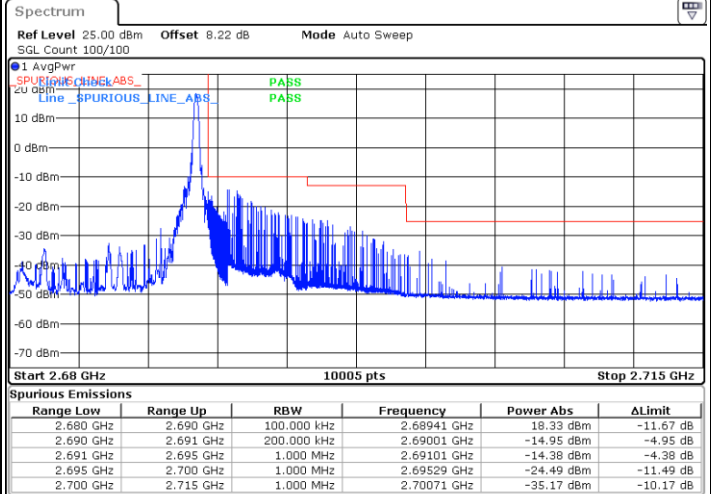
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



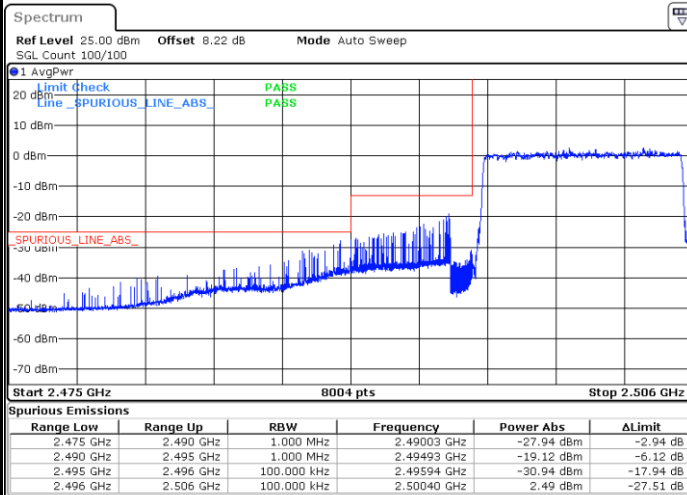
Date: 16 JUN 2024 22:36:44

Highest Band Edge / 1 RB



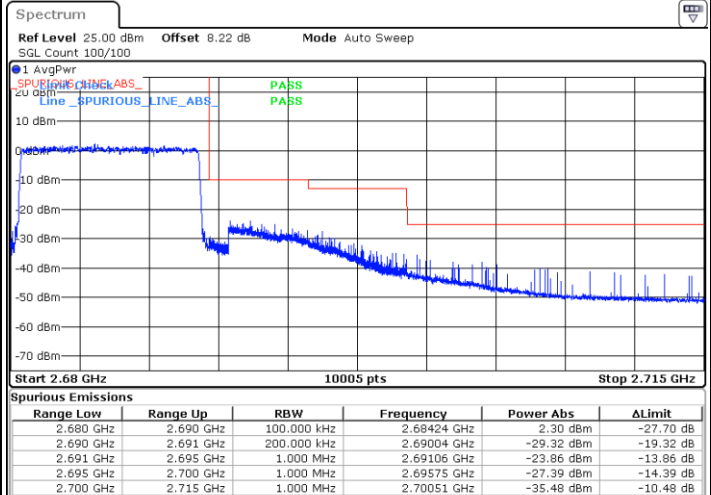
Date: 16 JUN 2024 22:56:40

Lowest Band Edge / Full RB



Date: 16 JUN 2024 22:39:33

Highest Band Edge / Full RB



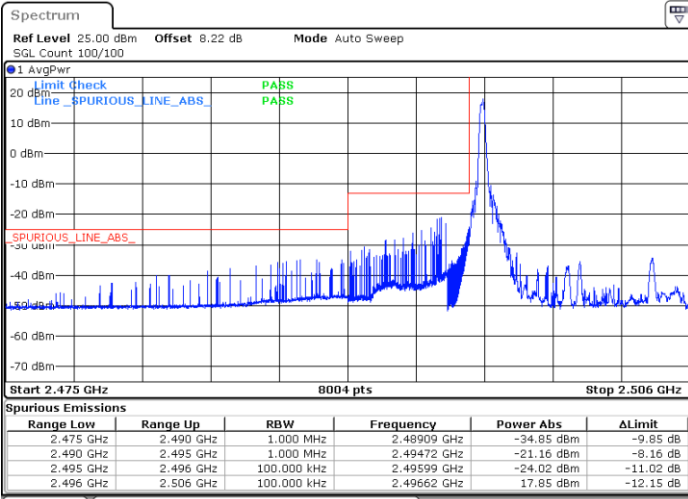
Date: 16 JUN 2024 22:59:01



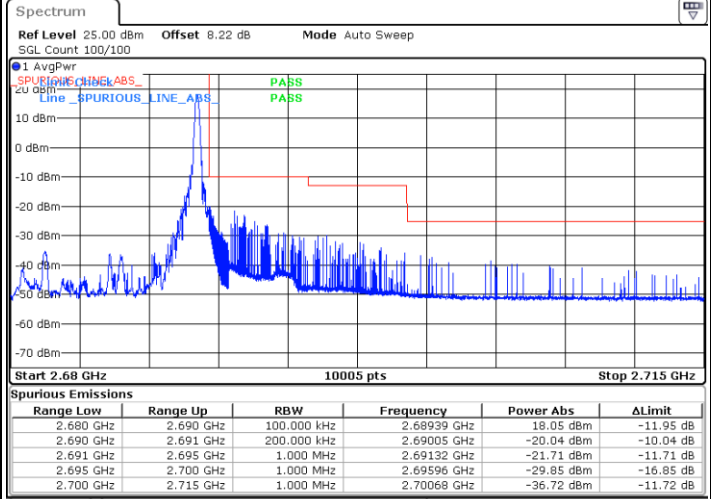
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



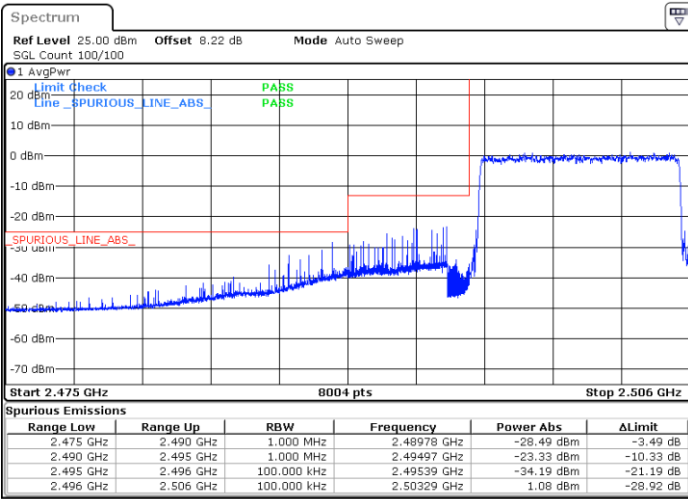
Date: 16. JUN. 2024 22:37:53



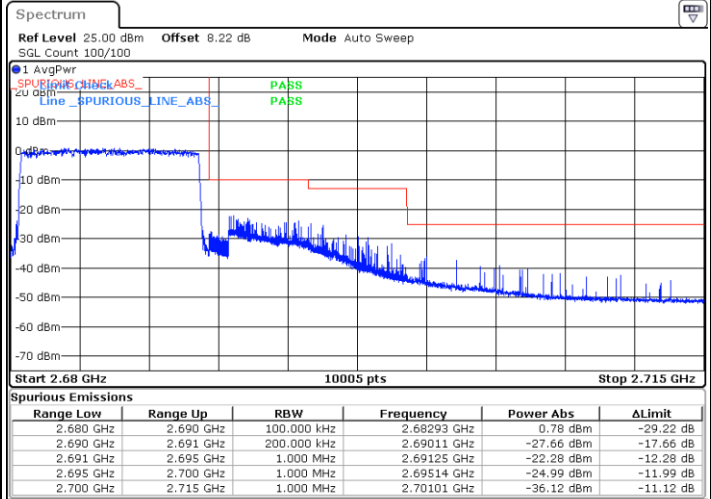
Date: 16. JUN. 2024 22:56:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16. JUN. 2024 22:39:15



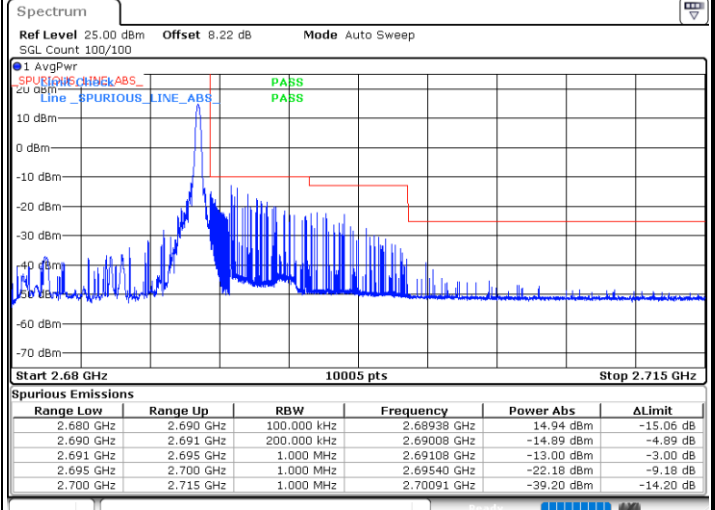
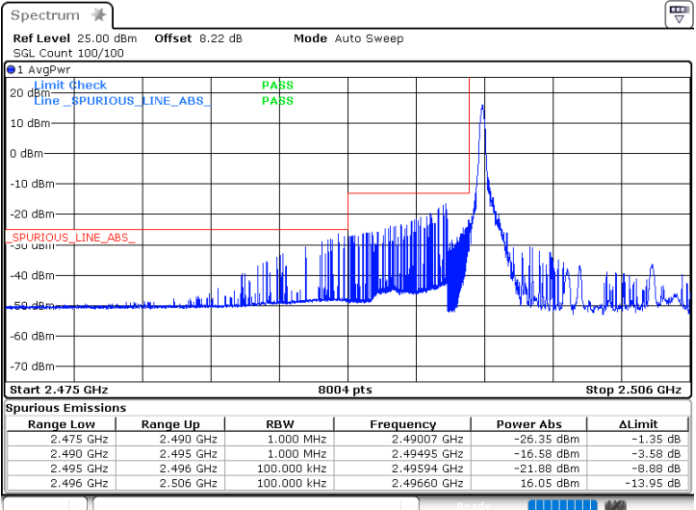
Date: 16. JUN. 2024 22:58:34



LTE Band 41 / 10MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

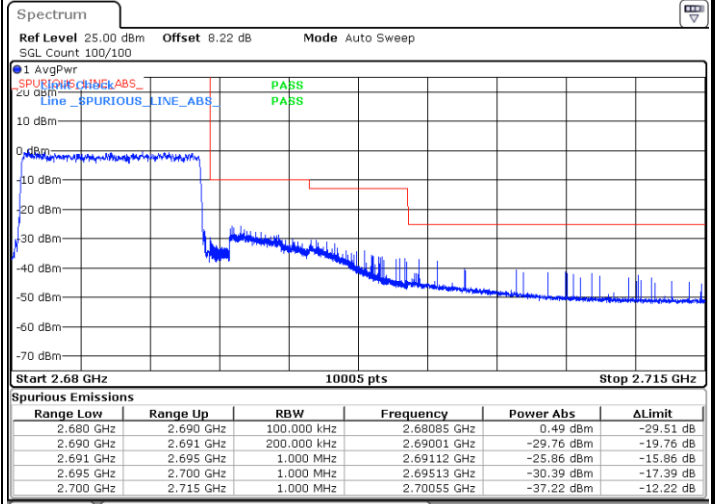
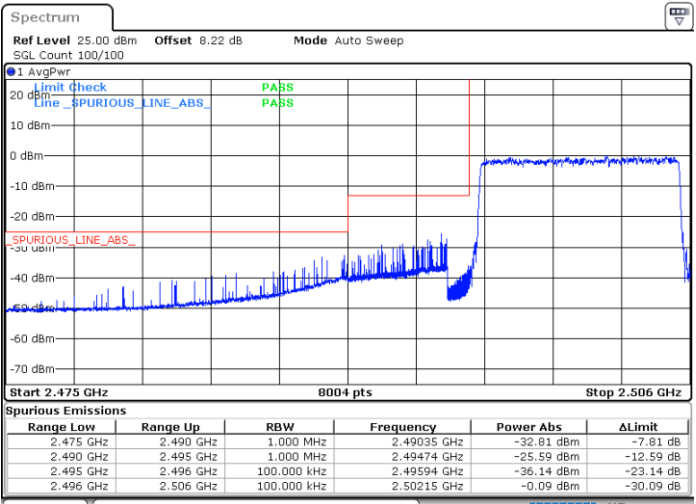


Date: 16. JUN. 2024 22:38:24

Date: 16. JUN. 2024 22:57:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



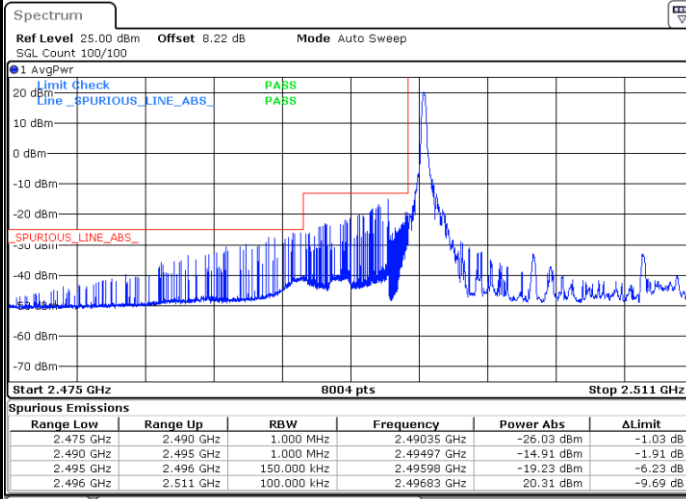
Date: 16. JUN. 2024 22:38:45

Date: 16. JUN. 2024 22:58:17



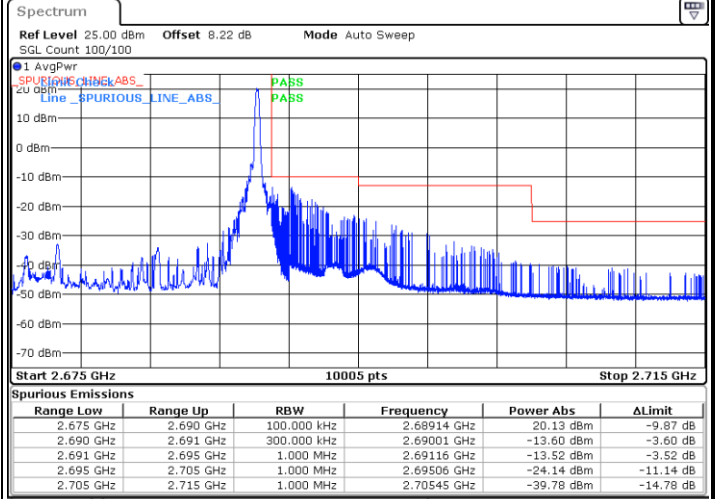
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



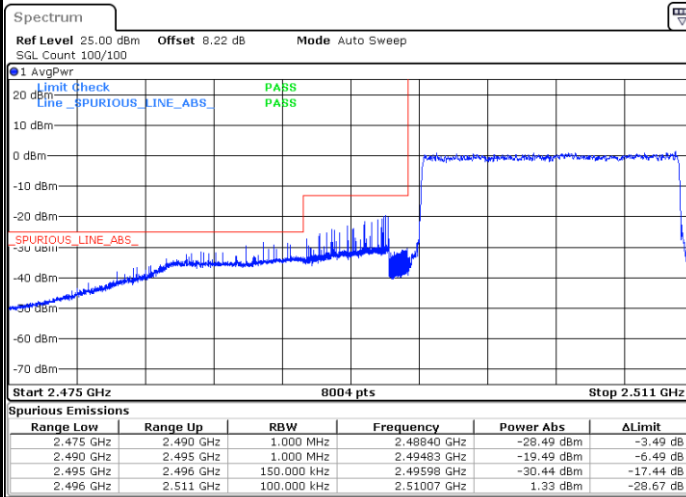
Date: 16. JUN. 2024 23:20:43

Highest Band Edge / 1 RB



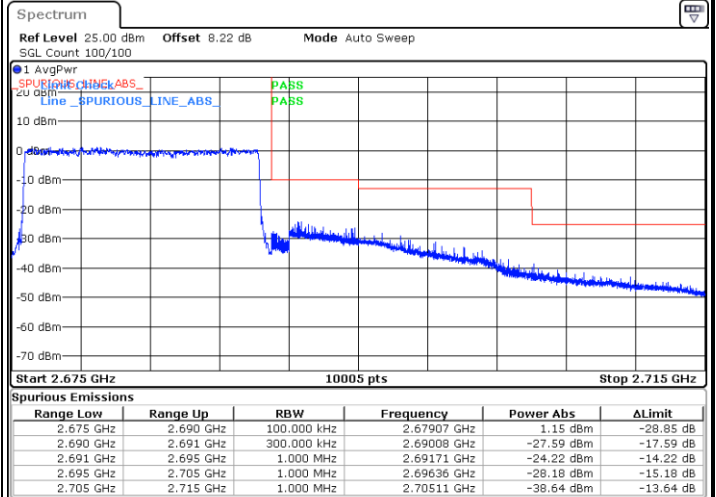
Date: 16. JUN. 2024 23:27:04

Lowest Band Edge / Full RB



Date: 16. JUN. 2024 23:22:52

Highest Band Edge / Full RB

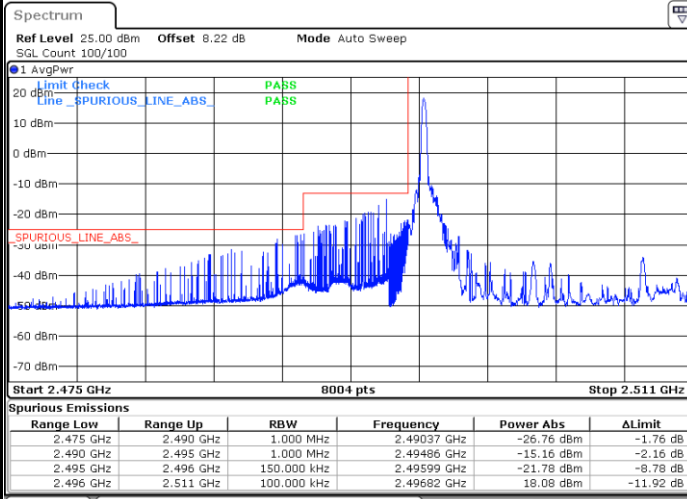


Date: 16. JUN. 2024 23:28:55



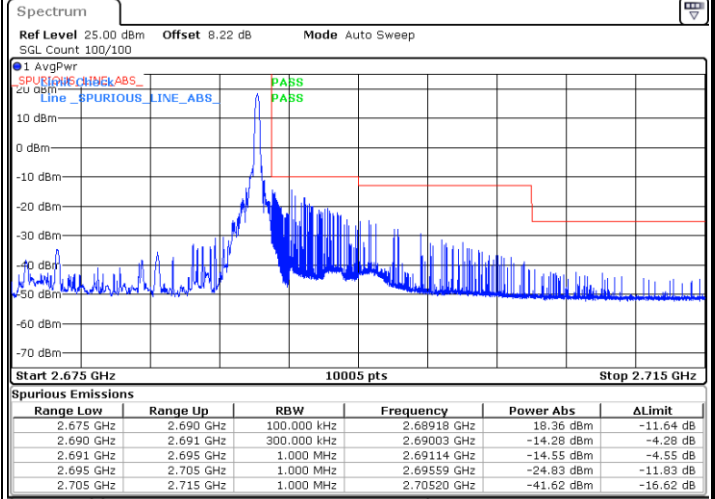
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



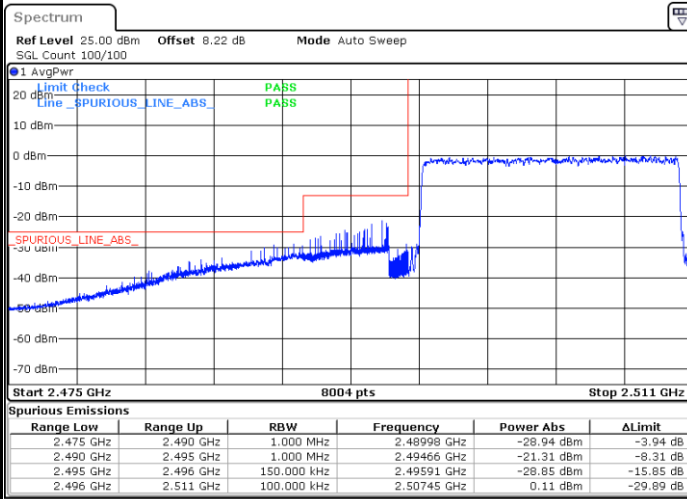
Date: 16. JUN. 2024 23:21:03

Highest Band Edge / 1 RB



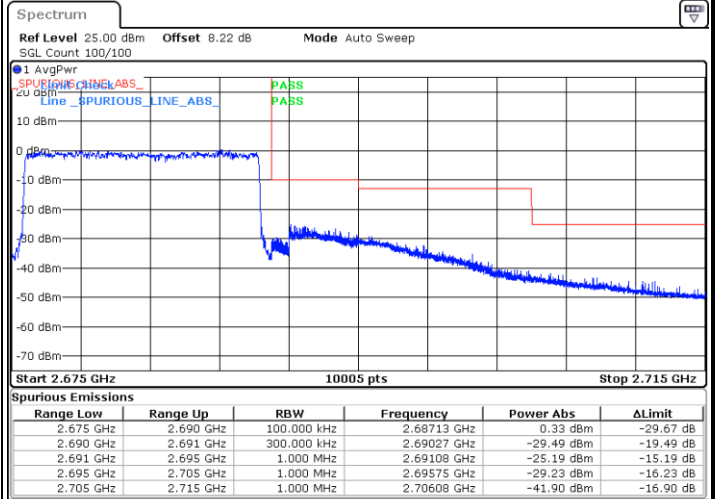
Date: 16. JUN. 2024 23:27:16

Lowest Band Edge / Full RB



Date: 16. JUN. 2024 23:22:37

Highest Band Edge / Full RB

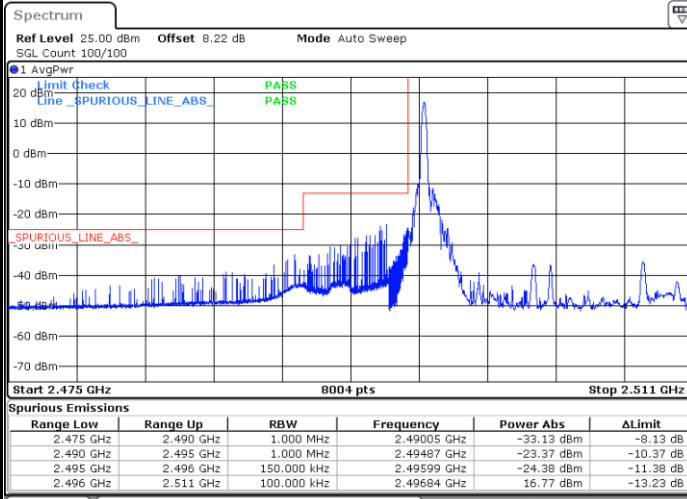


Date: 16. JUN. 2024 23:28:39



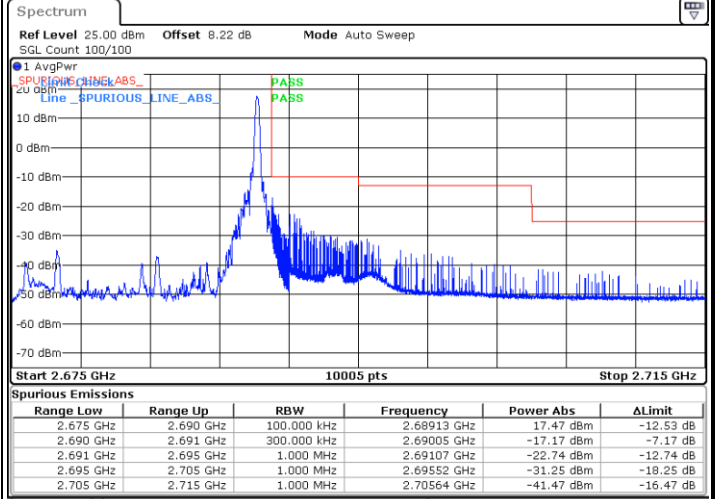
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



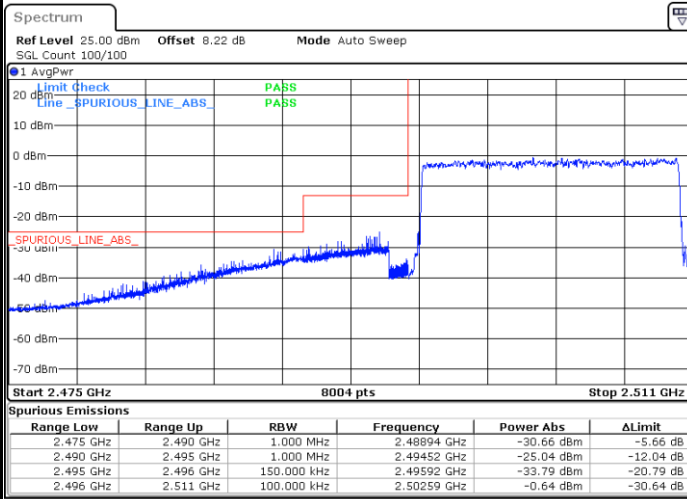
Date: 16 JUN 2024 23:21:20

Highest Band Edge / 1 RB



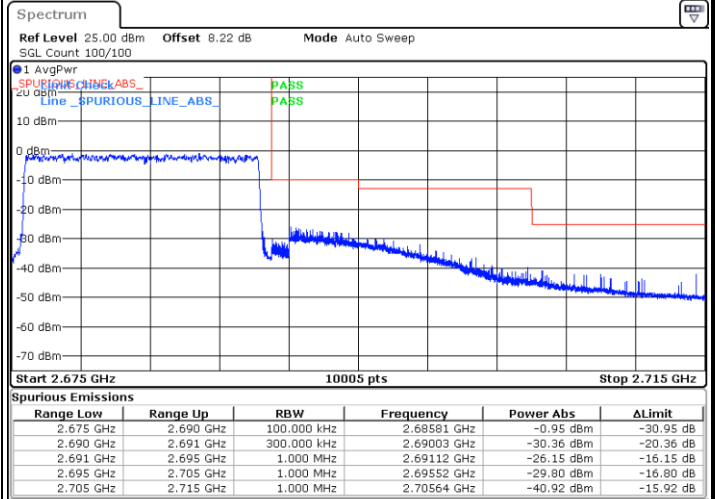
Date: 16 JUN 2024 23:27:31

Lowest Band Edge / Full RB



Date: 16 JUN 2024 23:22:19

Highest Band Edge / Full RB

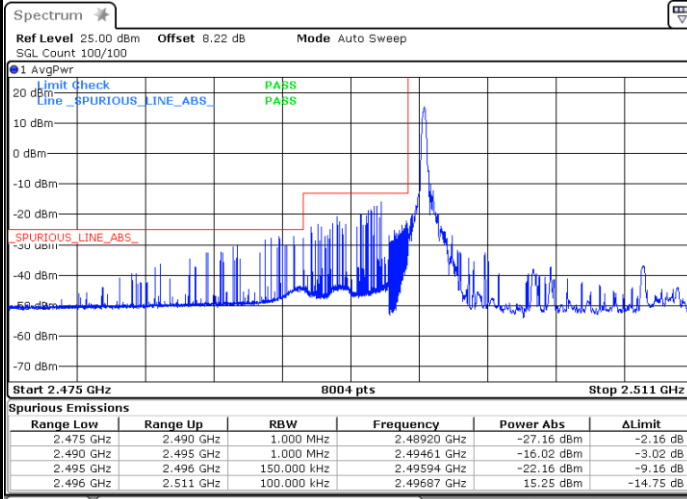


Date: 16 JUN 2024 23:28:22



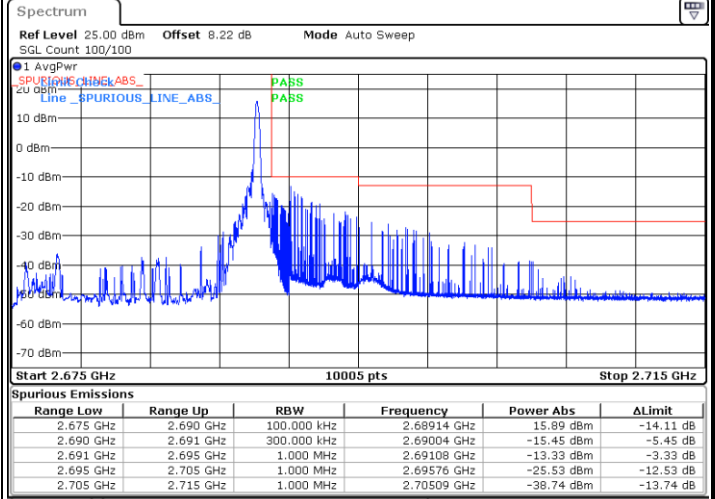
LTE Band 41 / 15MHz / 256QAM

Lowest Band Edge / 1RB



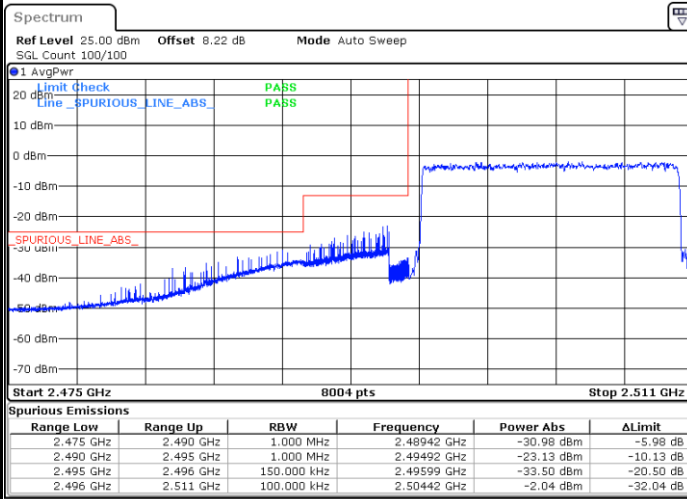
Date: 16. JUN. 2024 23:21:41

Highest Band Edge / 1 RB



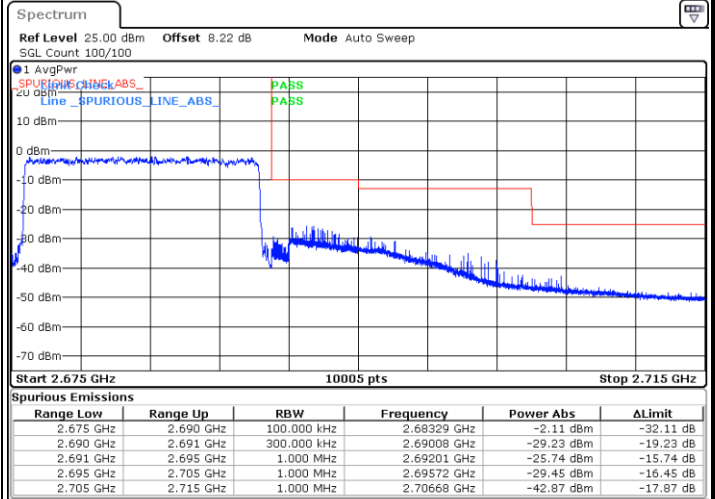
Date: 16. JUN. 2024 23:27:46

Lowest Band Edge / Full RB



Date: 16. JUN. 2024 23:22:01

Highest Band Edge / Full RB



Date: 16. JUN. 2024 23:28:06

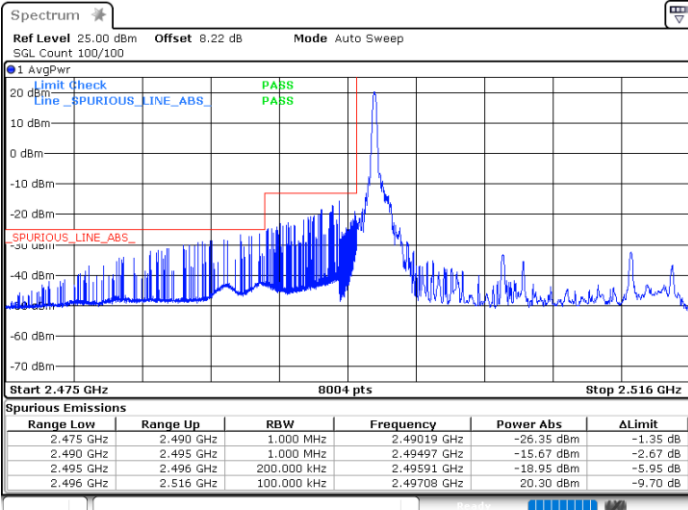




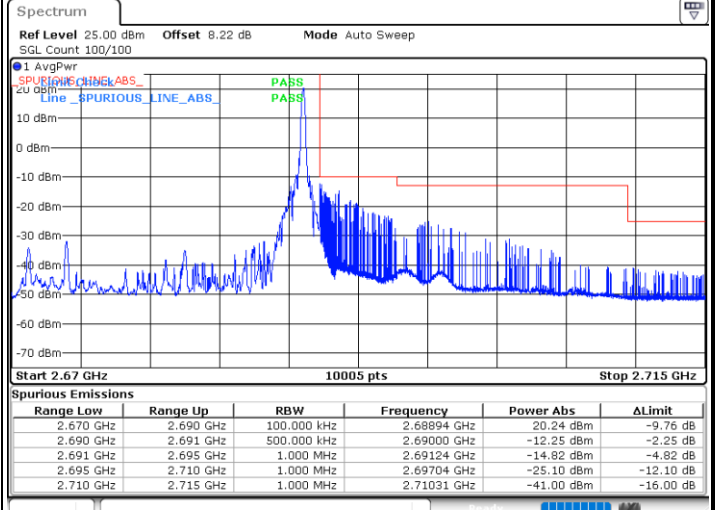
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



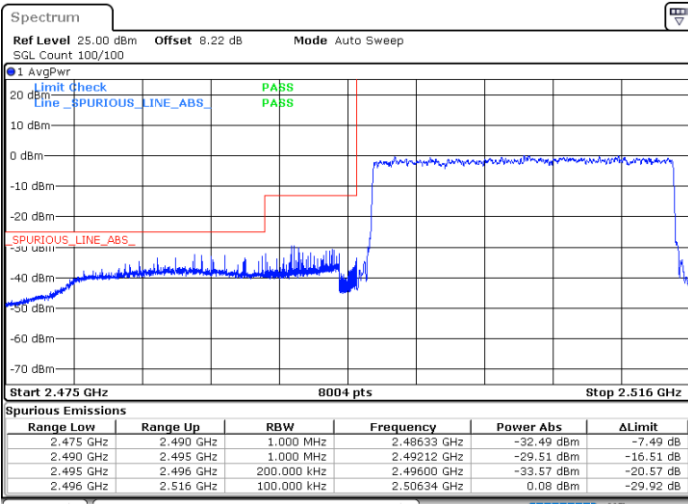
Date: 16. JUN. 2024 23:31:22



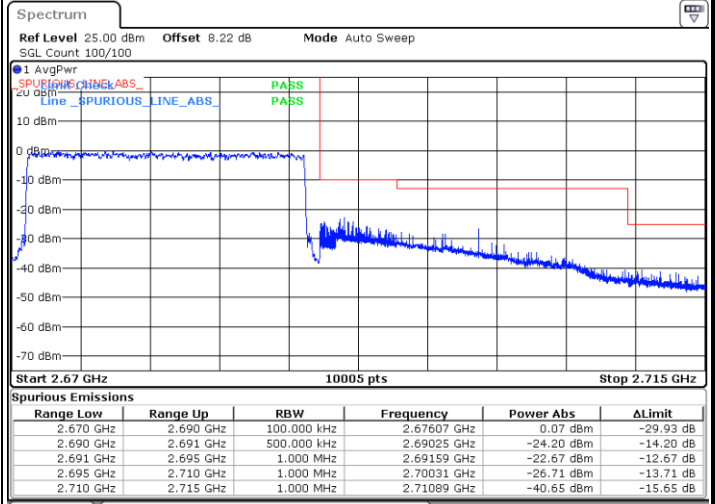
Date: 16. JUN. 2024 23:44:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16. JUN. 2024 23:35:01



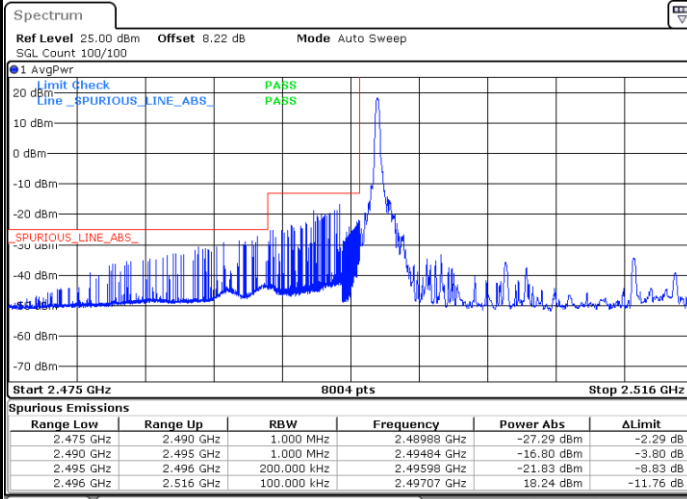
Date: 16. JUN. 2024 23:45:31





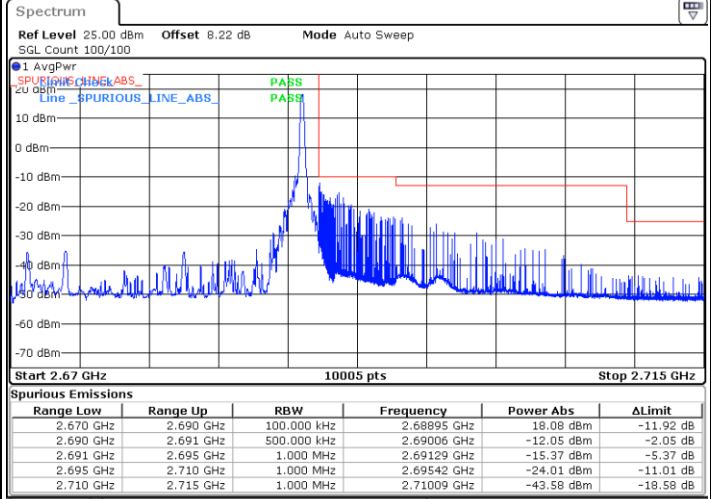
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



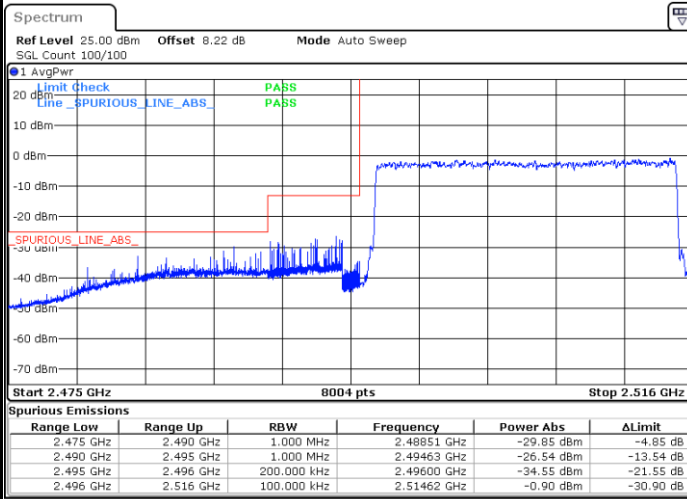
Date: 16. JUN. 2024 23:32:22

Highest Band Edge / 1 RB



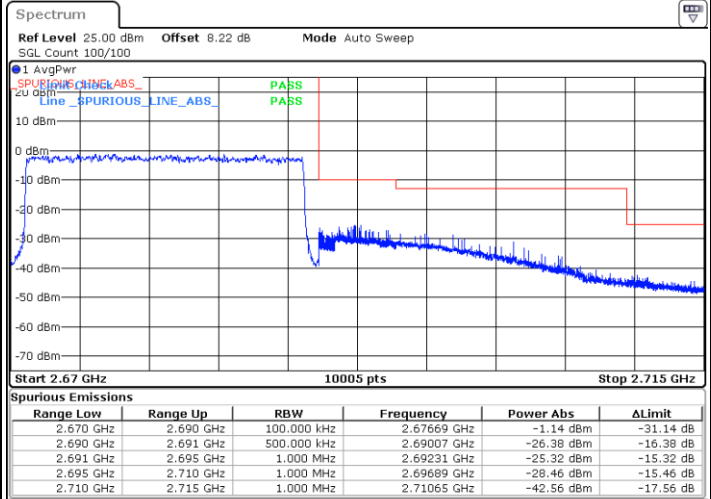
Date: 16. JUN. 2024 23:44:19

Lowest Band Edge / Full RB



Date: 16. JUN. 2024 23:34:44

Highest Band Edge / Full RB

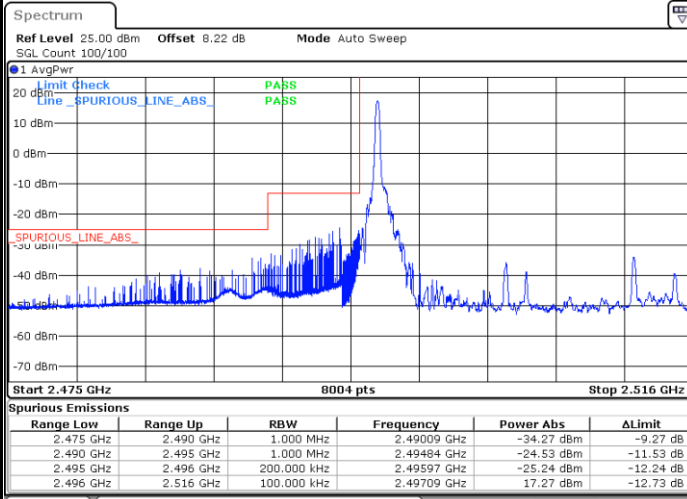


Date: 16. JUN. 2024 23:45:20



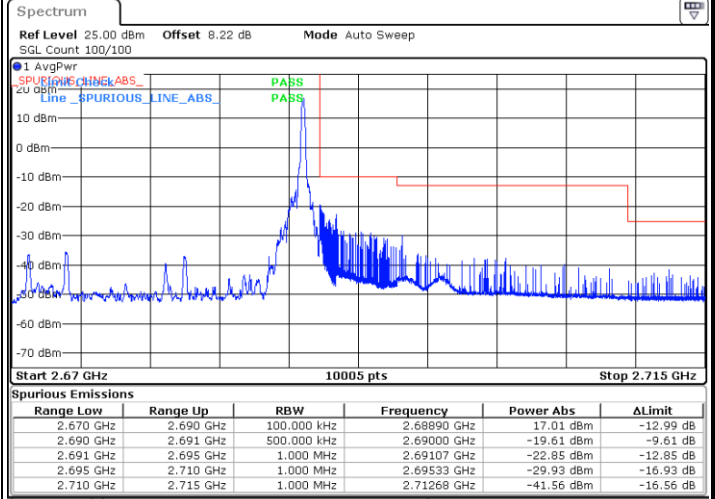
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



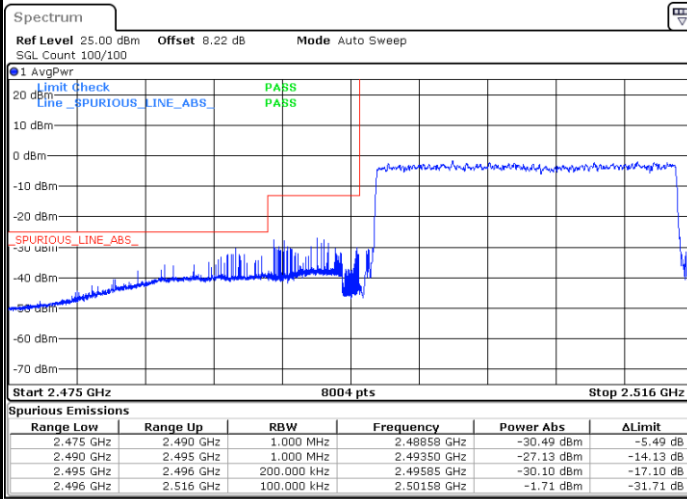
Date: 16 JUN 2024 23:33:03

Highest Band Edge / 1 RB



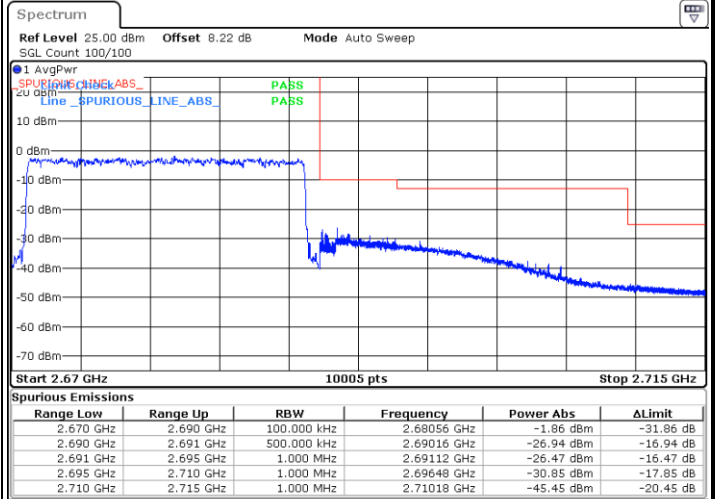
Date: 16 JUN 2024 23:44:30

Lowest Band Edge / Full RB



Date: 16 JUN 2024 23:34:31

Highest Band Edge / Full RB

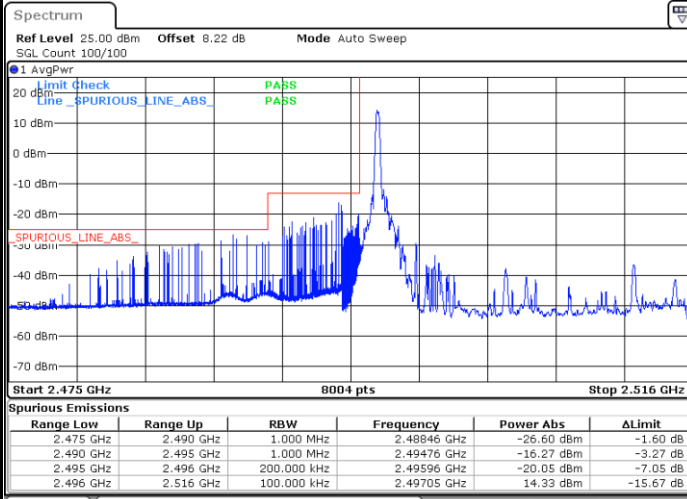


Date: 16 JUN 2024 23:45:09



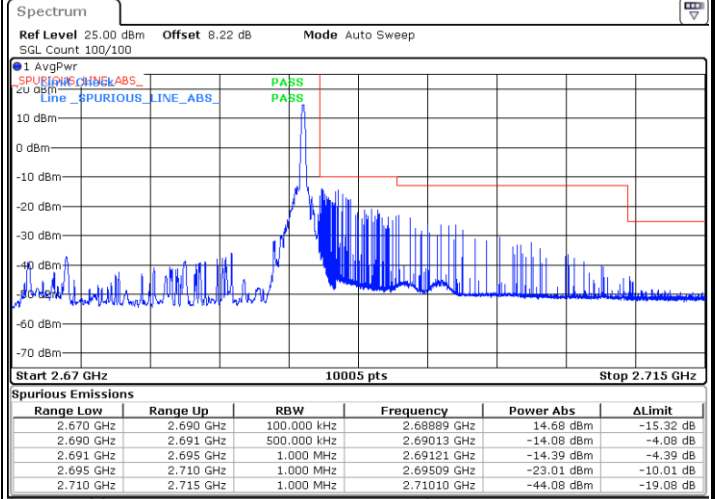
LTE Band 41 / 20MHz / 256QAM

Lowest Band Edge / 1RB



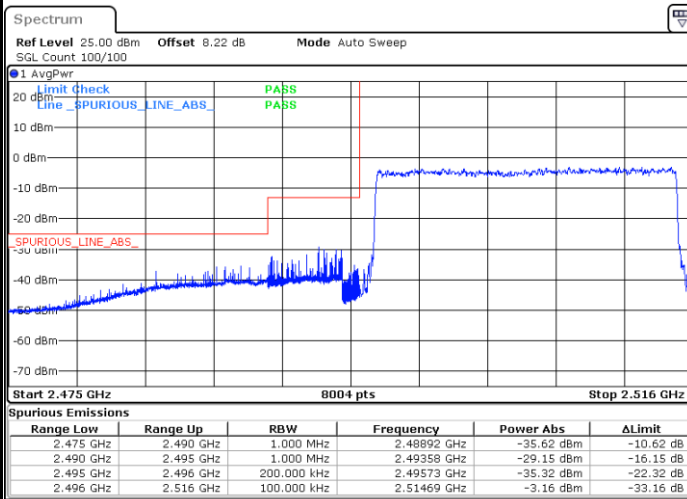
Date: 16. JUN. 2024 23:33:51

Highest Band Edge / 1 RB



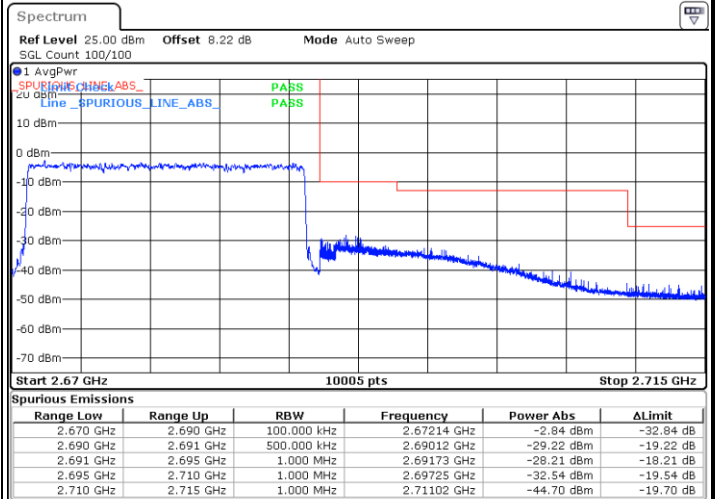
Date: 16. JUN. 2024 23:44:44

Lowest Band Edge / Full RB



Date: 16. JUN. 2024 23:34:13

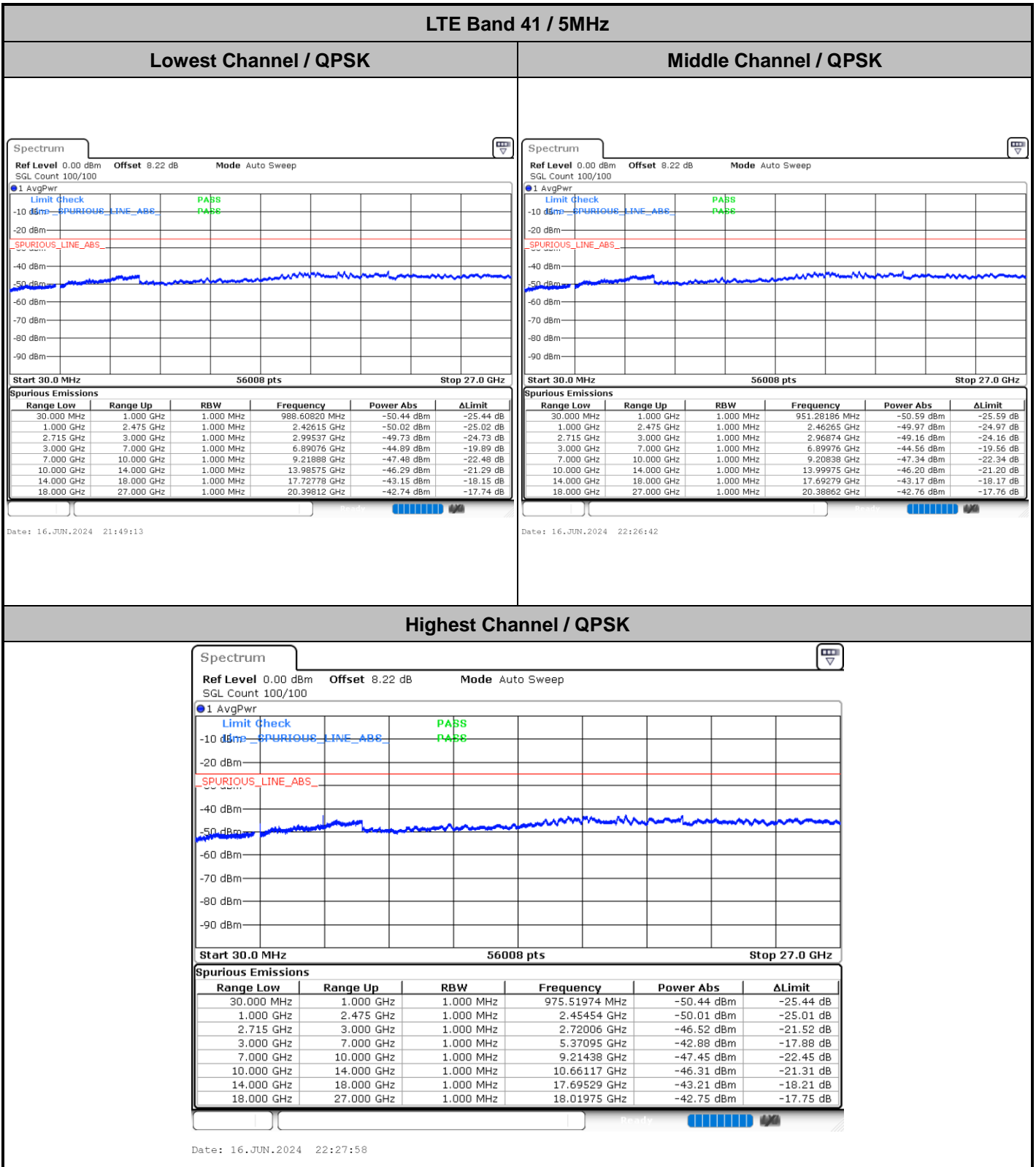
Highest Band Edge / Full RB



Date: 16. JUN. 2024 23:44:58



# Conducted Spurious Emission

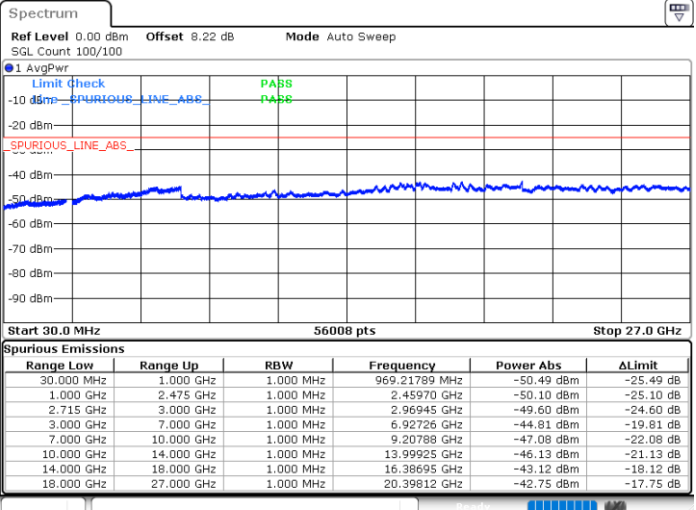
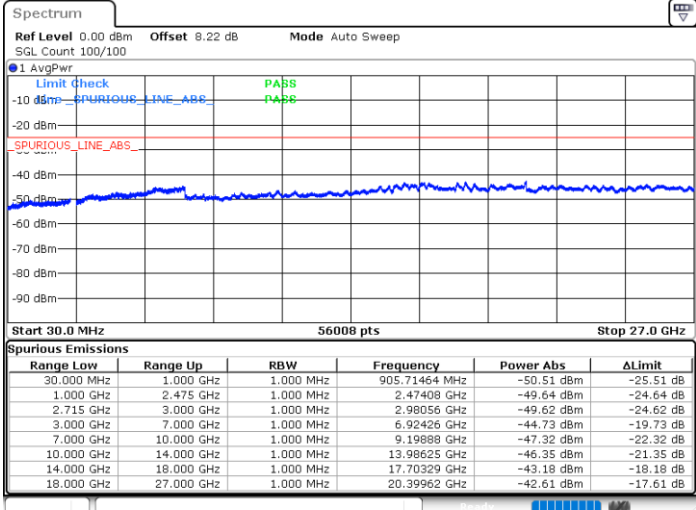




LTE Band 41 / 10MHz

Lowest Channel / QPSK

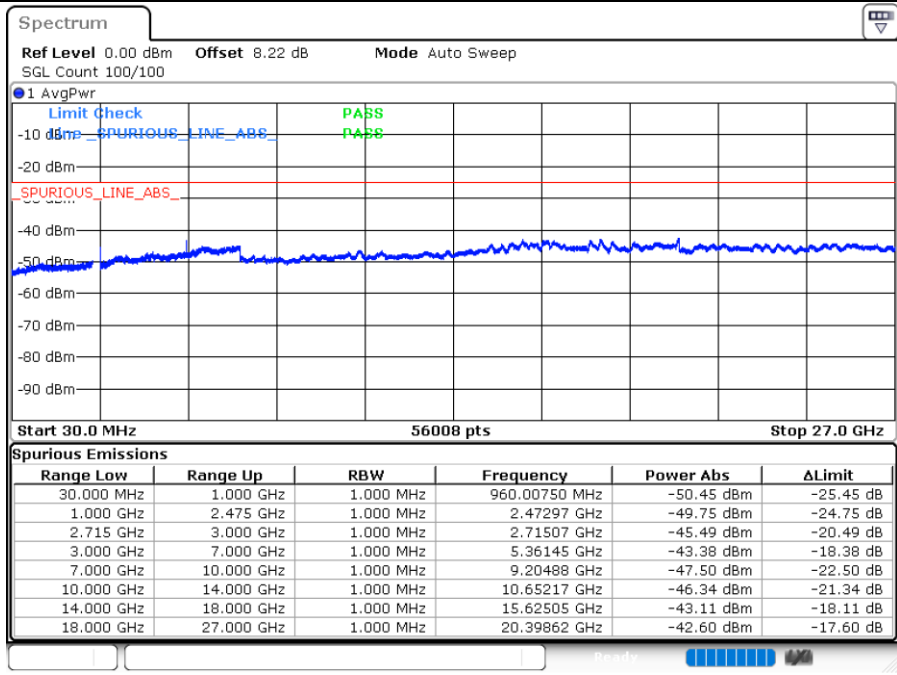
Middle Channel / QPSK



Date: 16.JUN.2024 22:35:15

Date: 16.JUN.2024 22:45:28

Highest Channel / QPSK



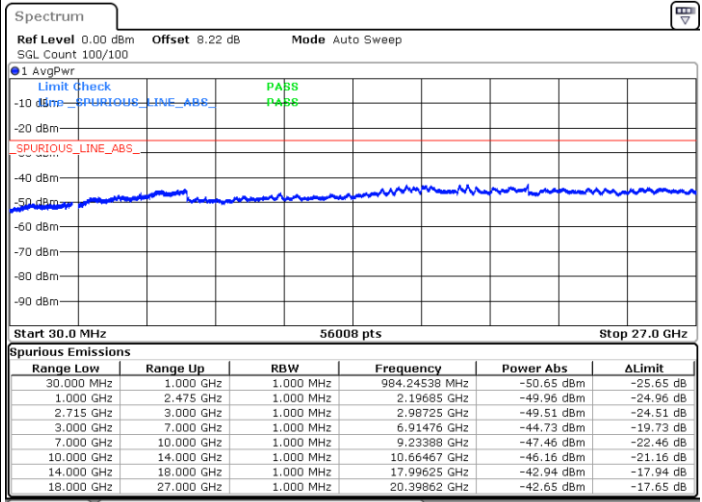
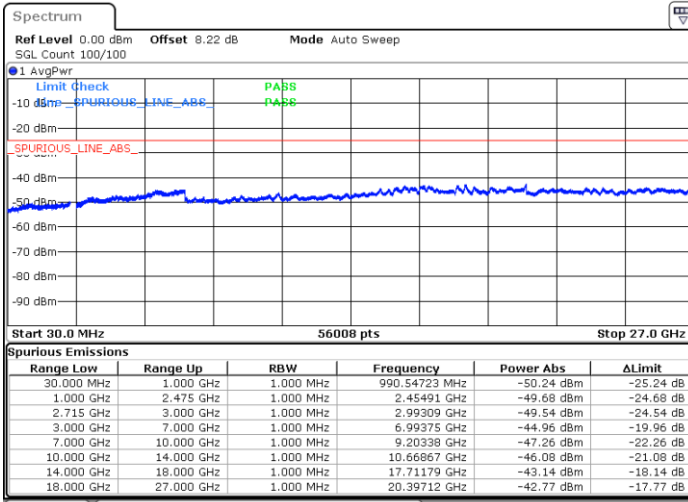
Date: 16.JUN.2024 23:01:09



LTE Band 41 / 15MHz

Lowest Channel / QPSK

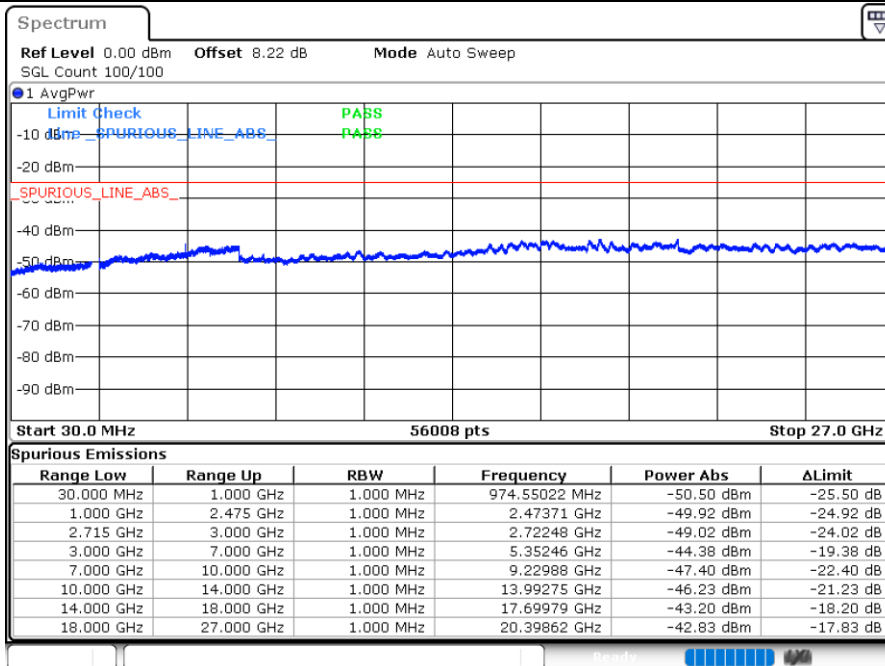
Middle Channel / QPSK



Date: 16.JUN.2024 23:05:08

Date: 16.JUN.2024 23:25:03

Highest Channel / QPSK



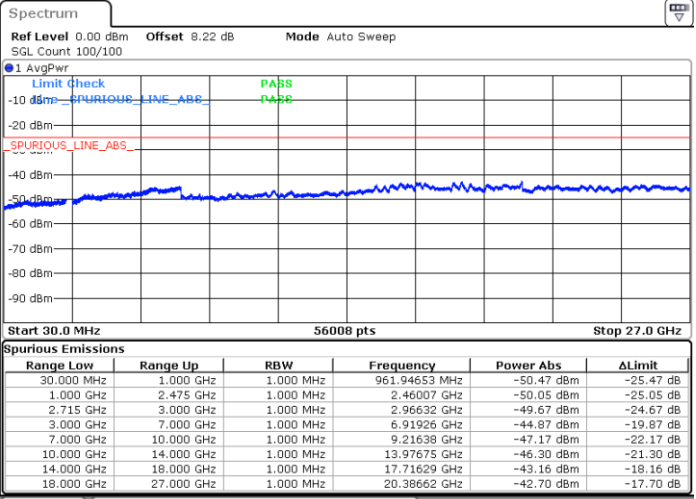
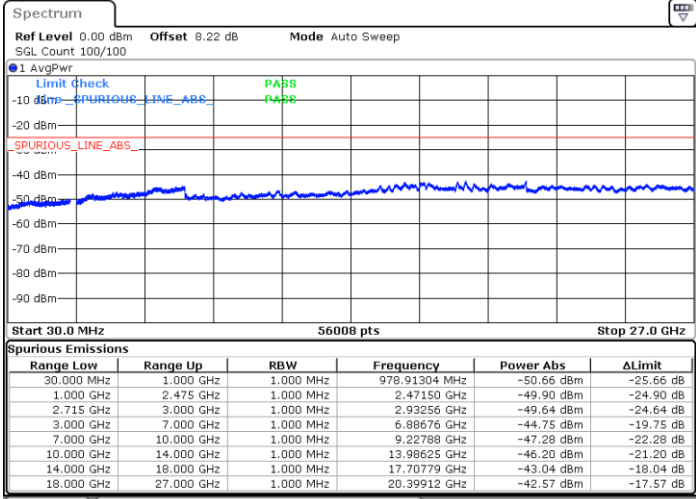
Date: 16.JUN.2024 23:26:25



LTE Band 41 / 20MHz

Lowest Channel / QPSK

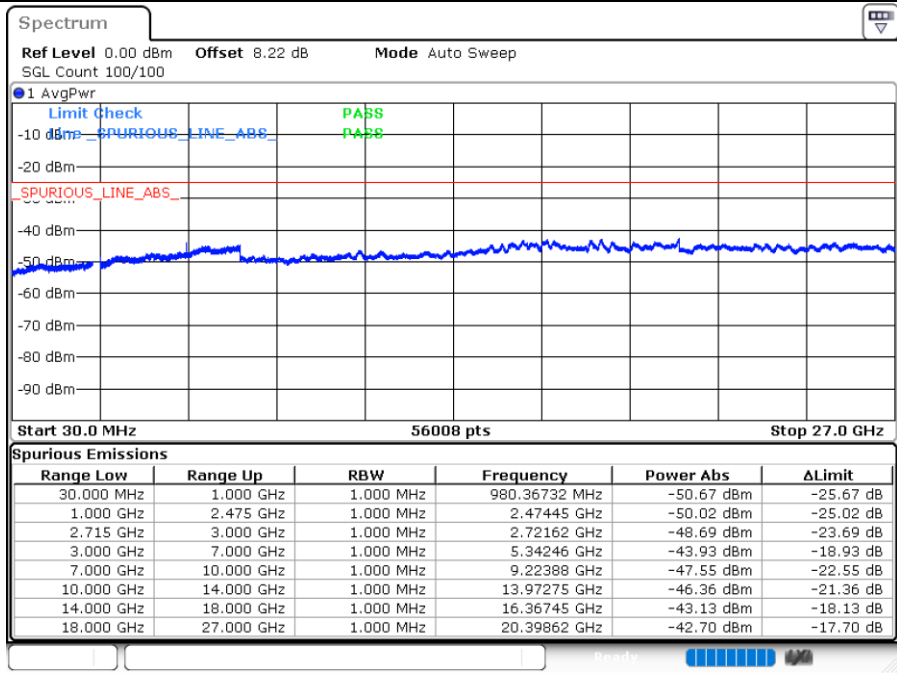
Middle Channel / QPSK



Date: 16.JUN.2024 23:30:45

Date: 16.JUN.2024 23:43:22

Highest Channel / QPSK



Date: 16.JUN.2024 23:42:08



### Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0049	PASS
40	Normal Voltage	0.0041	
30	Normal Voltage	0.0026	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0047	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0037	
20	Battery End Point	0.0024	

**Note:**

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.5V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

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

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to test.

LTE Band 7 / 20MHz / QPSK / Ant. 1								
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	-56.41	-25	-31.41	-66.62	3.03	13.24	H
	7584	-47.22	-25	-22.22	-56.67	3.56	13.01	H
	10104	-60.45	-25	-35.45	-69.97	3.92	13.44	H
	5050	-57.46	-25	-32.46	-67.67	3.03	13.24	V
	7584	-52.86	-25	-27.86	-62.31	3.56	13.01	V
	10104	-60.82	-25	-35.82	-70.34	3.92	13.44	V

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

LTE Band 7C / 20MHz+20MHz / QPSK / Ant. 1								
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 (PCC)	5036	-59.29	-25	-34.29	-69.50	3.03	13.24	H
	7542	-55.05	-25	-30.05	-64.50	3.56	13.01	H
	10062	-62.29	-25	-37.29	-71.81	3.92	13.44	H
	5036	-62.25	-25	-37.25	-72.46	3.03	13.24	V
	7542	-59.44	-25	-34.44	-68.89	3.56	13.01	V
	10062	-62.14	-25	-37.14	-71.66	3.92	13.44	V
Middle (SCC)	5078	-63.48	-25	-38.48	-73.69	3.03	13.24	H
	7612	-62.52	-25	-37.52	-71.97	3.56	13.01	H
	10146	-62.06	-25	-37.06	-71.58	3.92	13.44	H
	5078	-63.85	-25	-38.85	-74.06	3.03	13.24	V
	7612	-62.03	-25	-37.03	-71.48	3.56	13.01	V
	10146	-62.44	-25	-37.44	-71.96	3.92	13.44	V

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



LTE Band 41 / 20MHz / QPSK / Ant. 1								
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	-49.41	-25	-24.41	-59.62	3.03	13.24	H
	7752	-41.51	-25	-16.51	-50.96	3.56	13.01	H
	10342	-59.80	-25	-34.80	-69.32	3.92	13.44	H
	5162	-54.30	-25	-29.30	-64.51	3.03	13.24	V
	7752	-48.52	-25	-23.52	-57.97	3.56	13.01	V
	10342	-61.28	-25	-36.28	-70.80	3.92	13.44	V

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

LTE Band 41C / 20MHz+20MHz / QPSK / Ant. 1								
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 (PCC)	5148	-59.09	-25	-34.09	-69.30	3.03	13.24	H
	7724	-49.12	-25	-24.12	-58.57	3.56	13.01	H
	10300	-61.44	-25	-36.44	-70.96	3.92	13.44	H
	5148	-59.98	-25	-34.98	-70.19	3.03	13.24	V
	7724	-55.92	-25	-30.92	-65.37	3.56	13.01	V
	10300	-61.44	-25	-36.44	-70.96	3.92	13.44	V
Middle (SCC)	5190	-62.35	-25	-37.35	-72.56	3.03	13.24	H
	7780	-62.61	-25	-37.61	-72.06	3.56	13.01	H
	10370	-61.29	-25	-36.29	-70.81	3.92	13.44	H
	5190	-63.81	-25	-38.81	-74.02	3.03	13.24	V
	7780	-62.51	-25	-37.51	-71.96	3.56	13.01	V
	10370	-61.37	-25	-36.37	-70.89	3.92	13.44	V

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



LTE Band 7 / 20MHz / QPSK / Ant. 1 – other PA								
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	-65.92	-25	-40.92	-76.13	3.03	13.24	H
	7584	-56.40	-25	-31.40	-65.85	3.56	13.01	H
	10104	-62.98	-25	-37.98	-72.50	3.92	13.44	H
	5050	-65.01	-25	-40.01	-75.22	3.03	13.24	V
	7584	-49.16	-25	-24.16	-58.61	3.56	13.01	V
	10104	-63.14	-25	-38.14	-72.66	3.92	13.44	V

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

LTE Band 41 / 20MHz / QPSK / Ant. 1 – other PA								
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	-65.58	-25	-40.58	-75.79	3.03	13.24	H
	7752	-57.58	-25	-32.58	-67.03	3.56	13.01	H
	10342	-62.03	-25	-37.03	-71.55	3.92	13.44	H
	5162	-65.73	-25	-40.73	-75.94	3.03	13.24	V
	7752	-47.07	-25	-22.07	-56.52	3.56	13.01	V
	10342	-62.11	-25	-37.11	-71.63	3.92	13.44	V

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