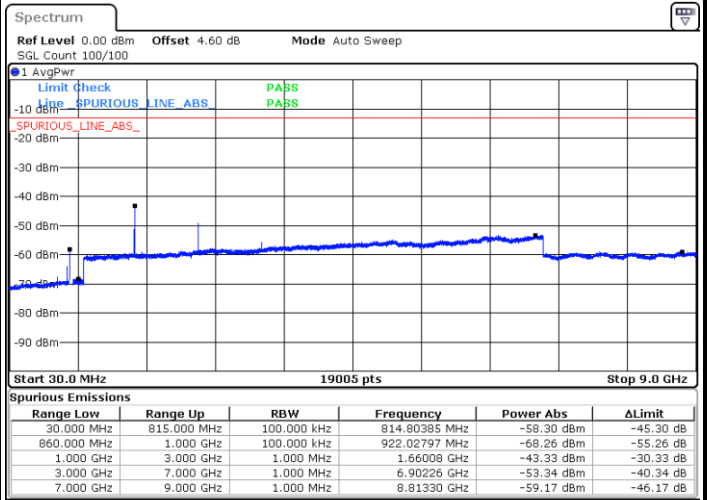
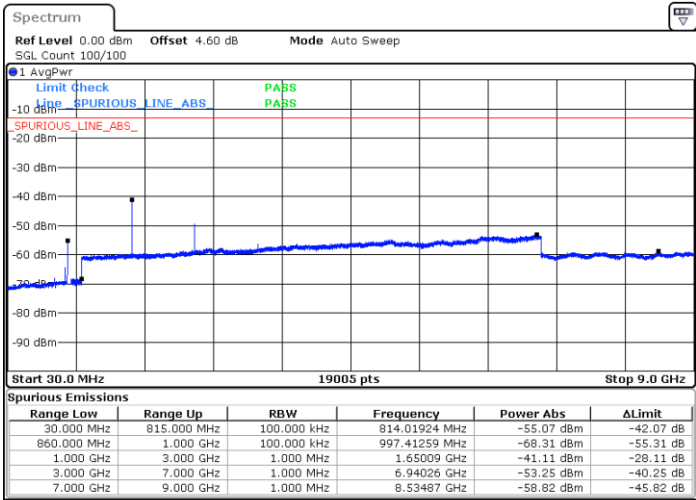




LTE Band 26 / 15MHz

Lowest Channel / QPSK

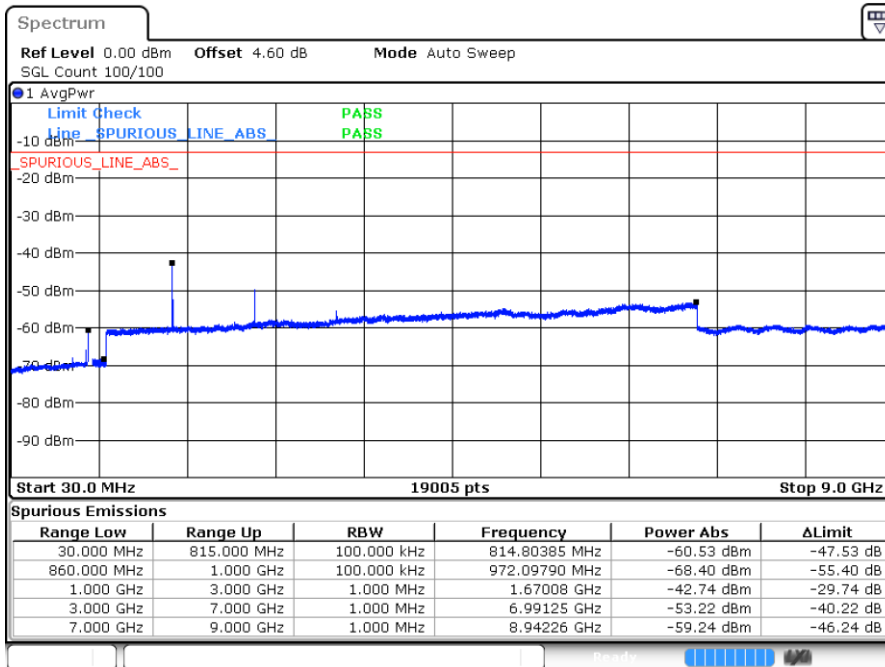
Middle Channel / QPSK



Date: 19.AUG.2022 03:29:02

Date: 19.AUG.2022 03:27:42

Highest Channel / QPSK



Date: 19.AUG.2022 03:26:22



Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0016	

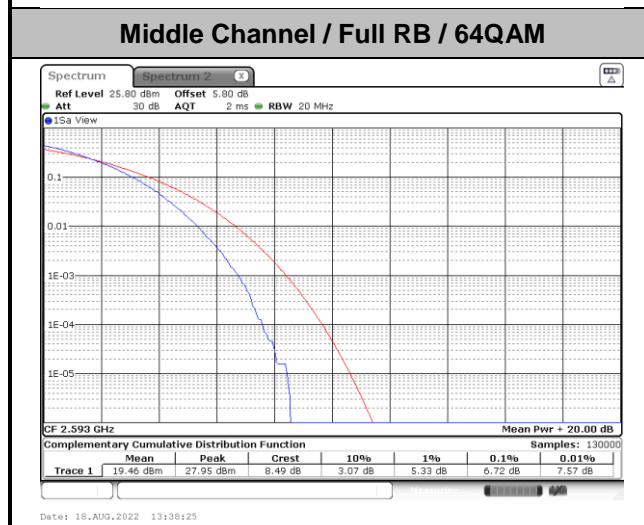
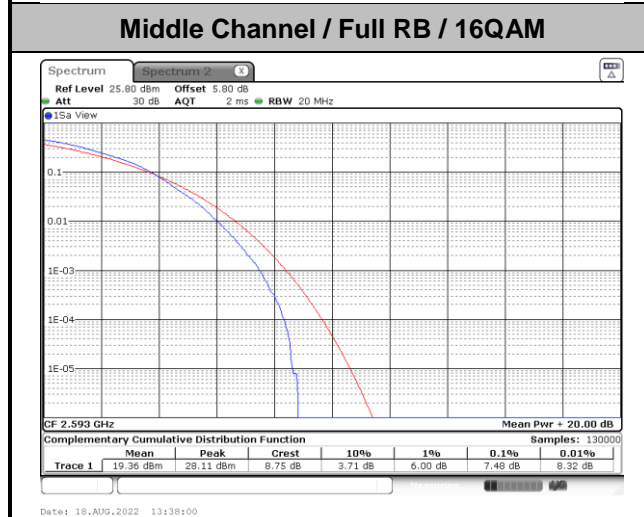
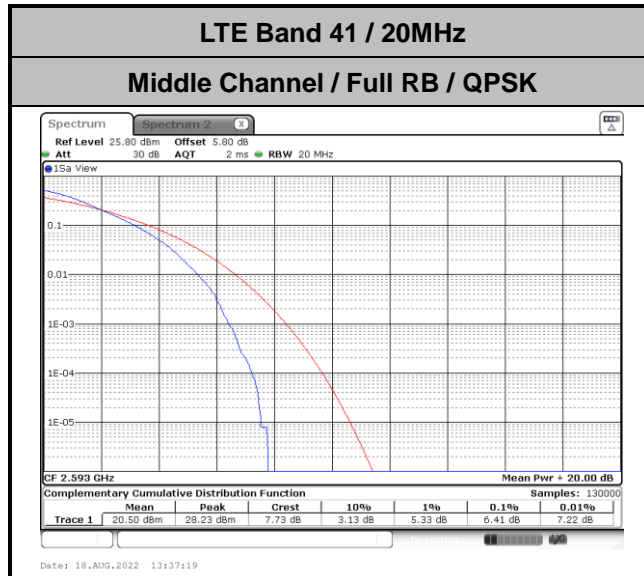
Note: Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.



## LTE Band 41

### Peak-to-Average Ratio

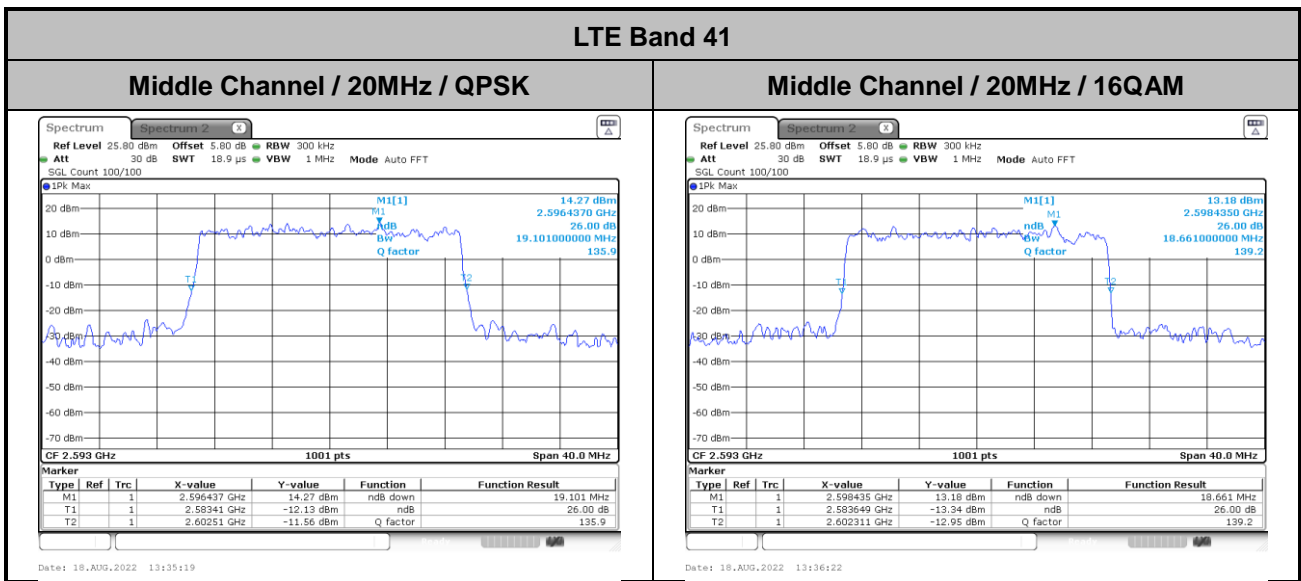
Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	6.41	7.48	6.72	<b>PASS</b>





## 26dB Bandwidth

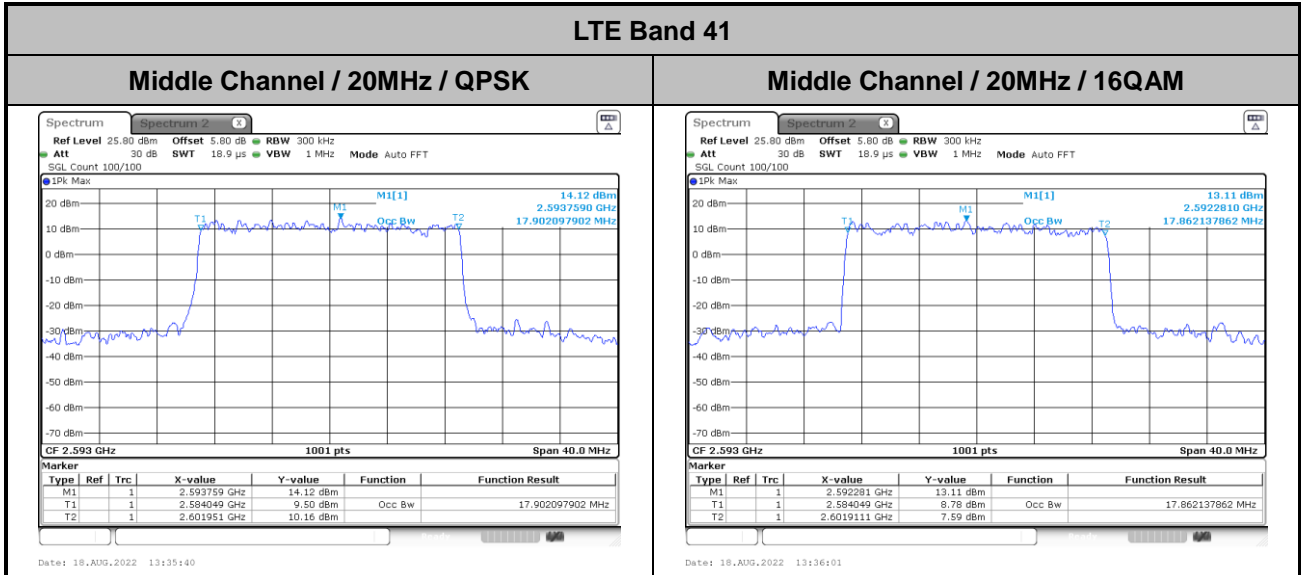
<b>Mode</b>	<b>LTE Band 41 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	19.10	18.66





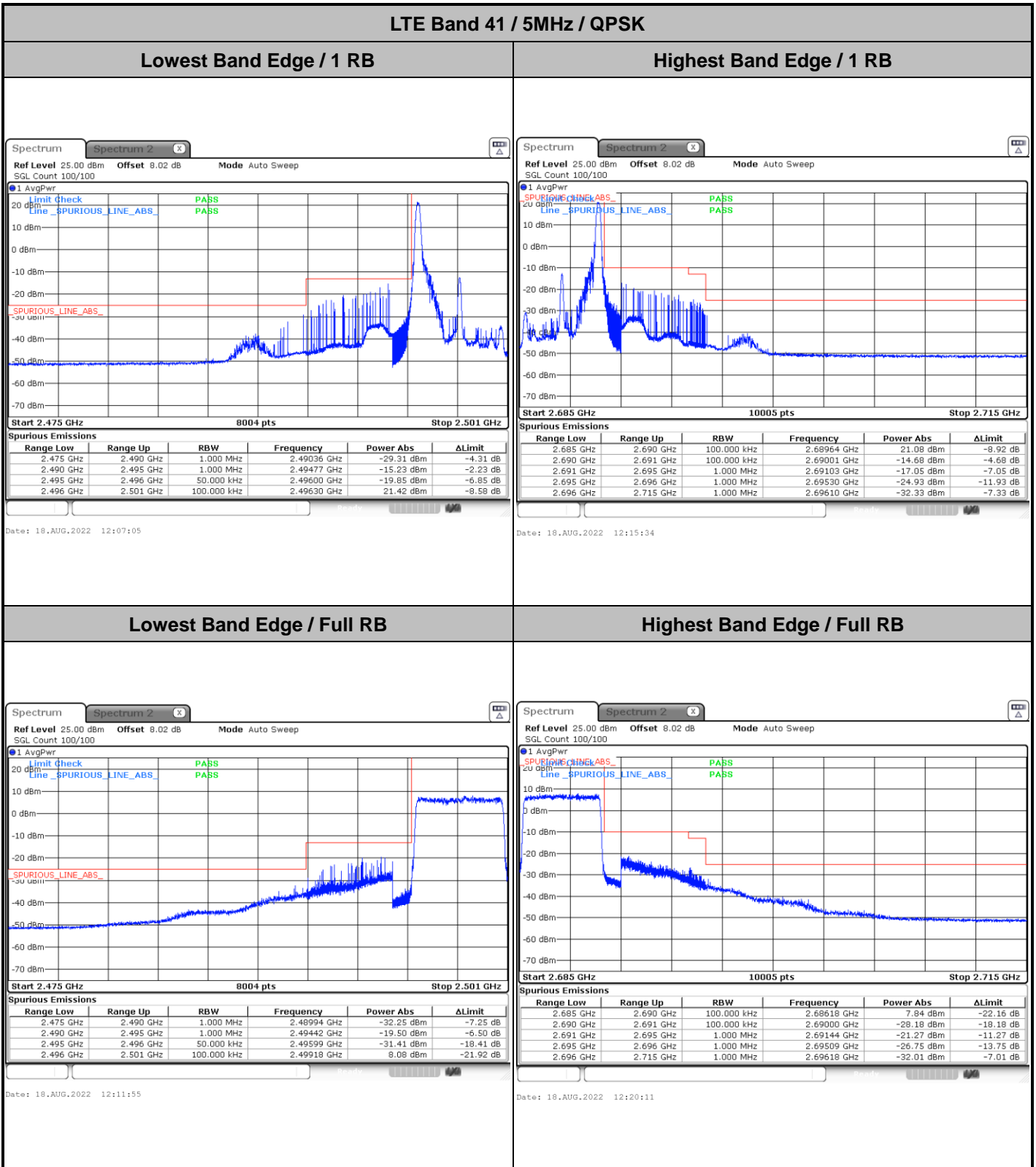
# Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.86





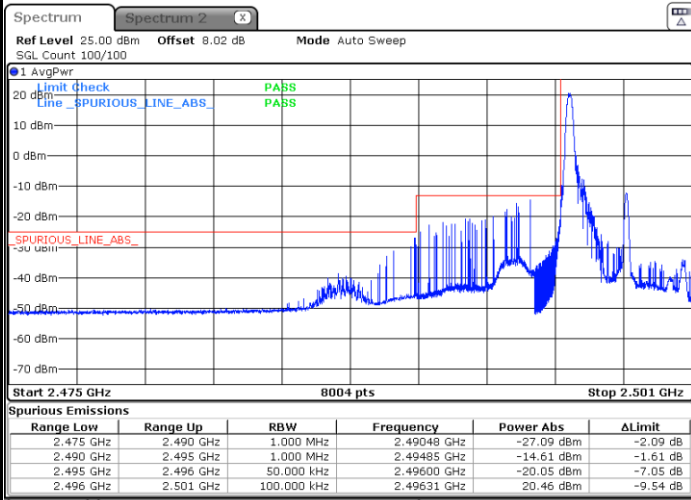
# Conducted Band Edge





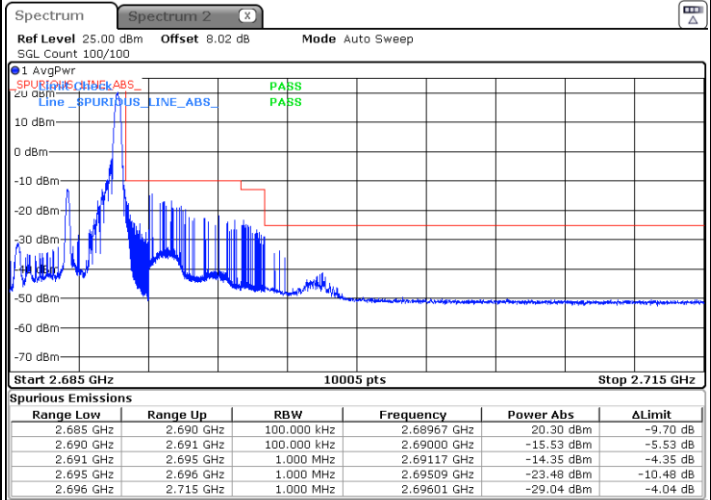
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



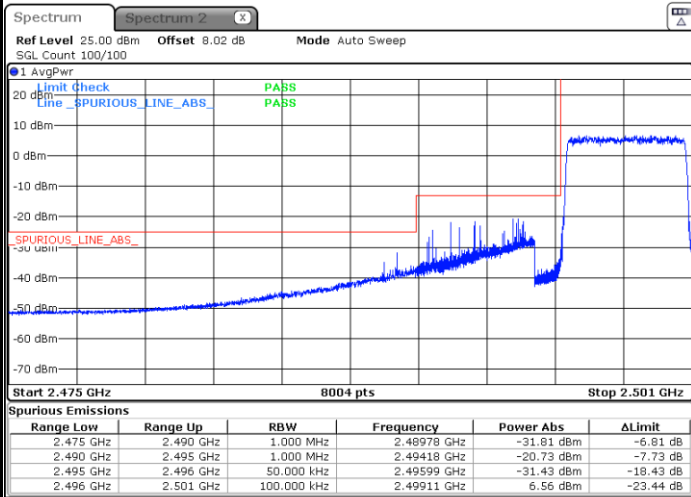
Date: 18.AUG.2022 12:08:03

Highest Band Edge / 1 RB



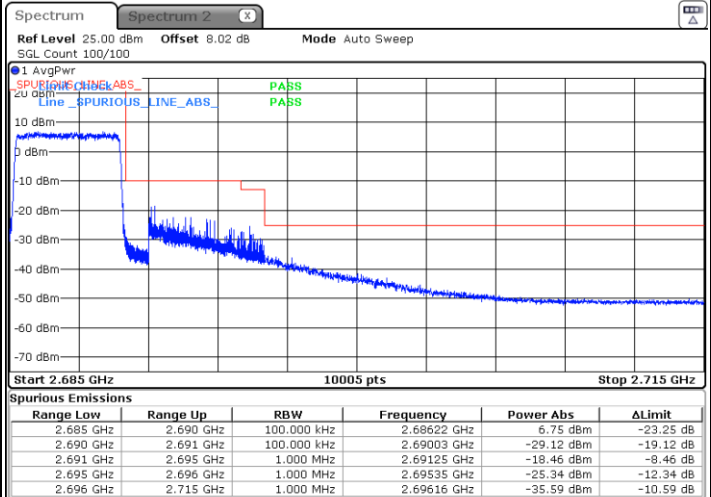
Date: 18.AUG.2022 12:16:30

Lowest Band Edge / Full RB



Date: 18.AUG.2022 12:10:57

Highest Band Edge / Full RB



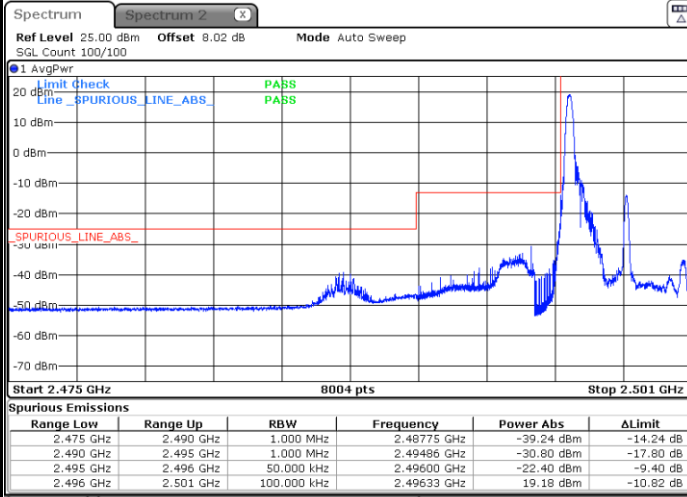
Date: 18.AUG.2022 12:19:15





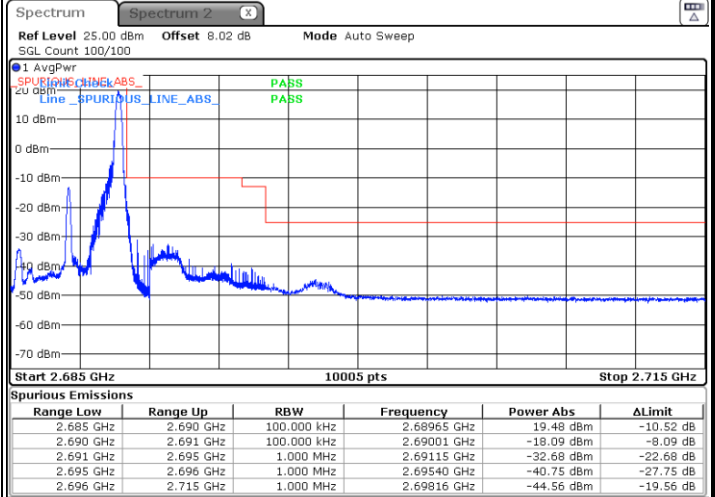
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



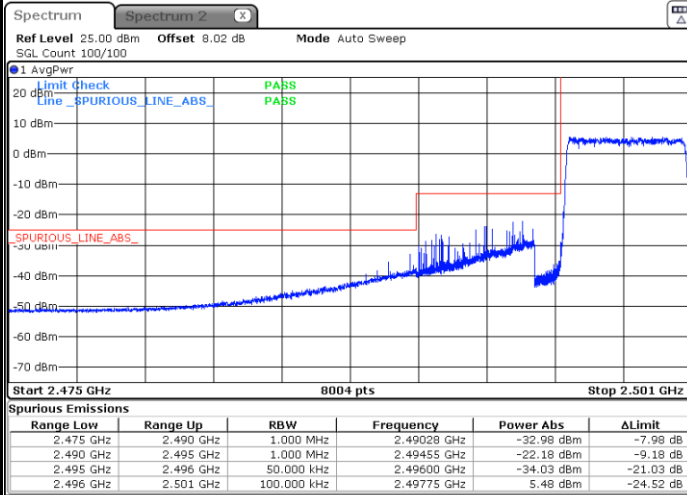
Date: 18.AUG.2022 12:09:01

Highest Band Edge / 1 RB



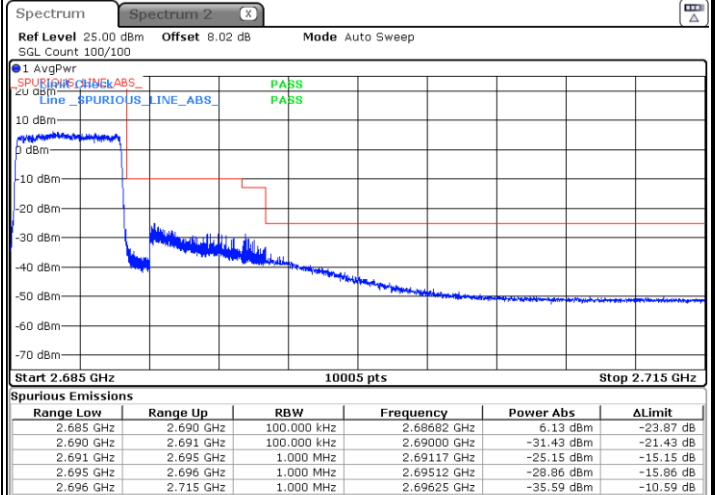
Date: 18.AUG.2022 12:17:25

Lowest Band Edge / Full RB



Date: 18.AUG.2022 12:09:59

Highest Band Edge / Full RB

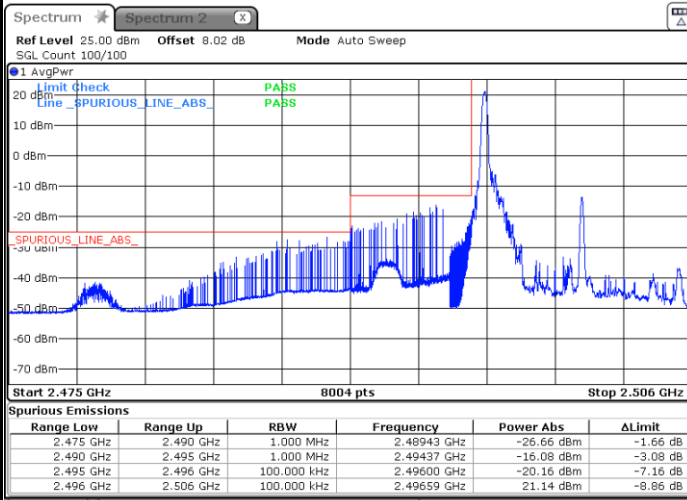


Date: 18.AUG.2022 12:18:20



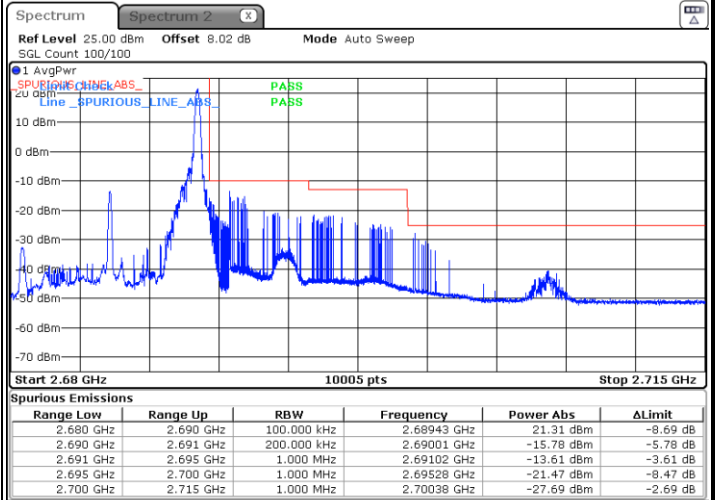
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



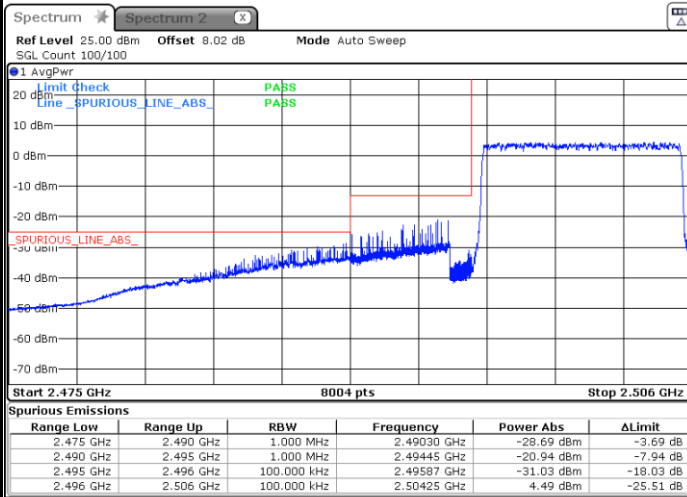
Date: 18.AUG.2022 13:23:31

Highest Band Edge / 1 RB



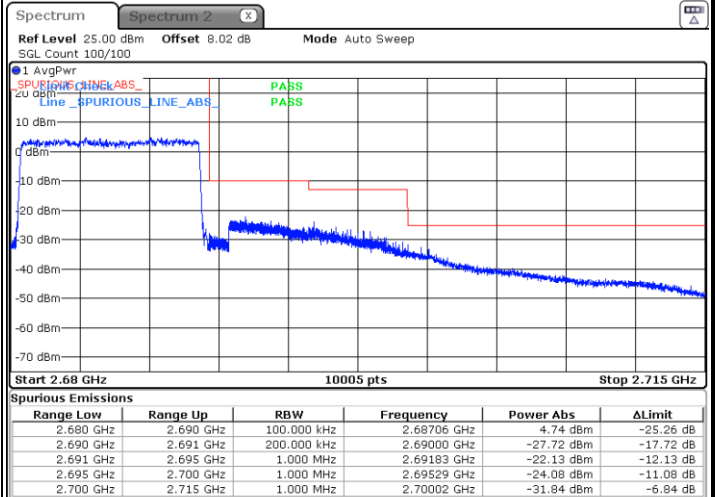
Date: 18.AUG.2022 12:31:01

Lowest Band Edge / Full RB



Date: 18.AUG.2022 13:25:27

Highest Band Edge / Full RB

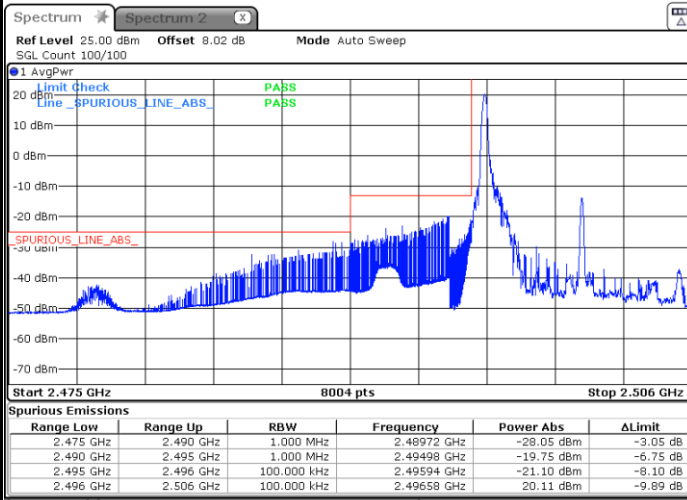


Date: 18.AUG.2022 12:35:38



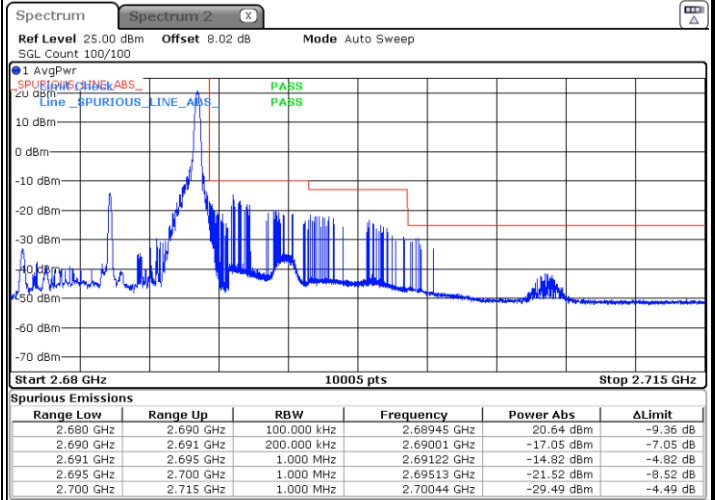
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



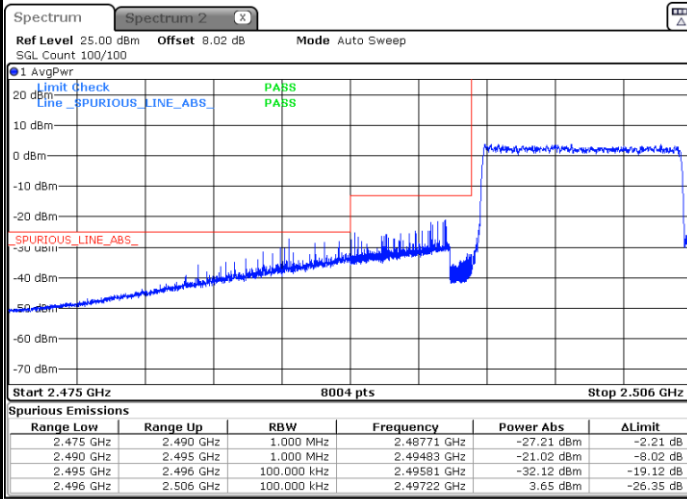
Date: 18.AUG.2022 13:24:29

Highest Band Edge / 1 RB



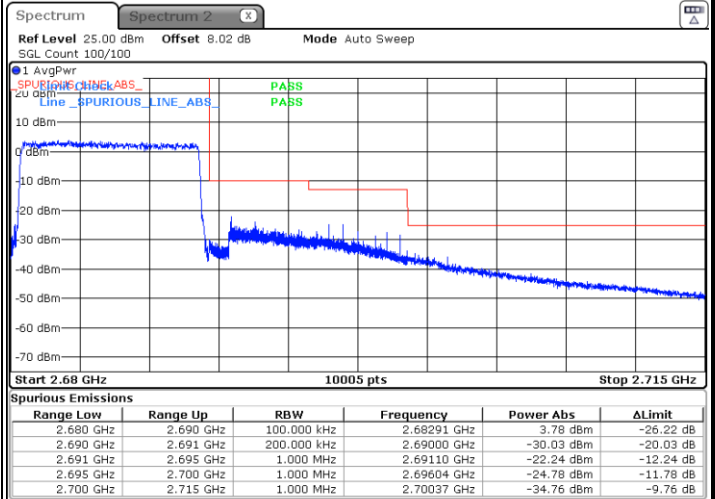
Date: 18.AUG.2022 12:31:56

Lowest Band Edge / Full RB



Date: 18.AUG.2022 13:30:54

Highest Band Edge / Full RB

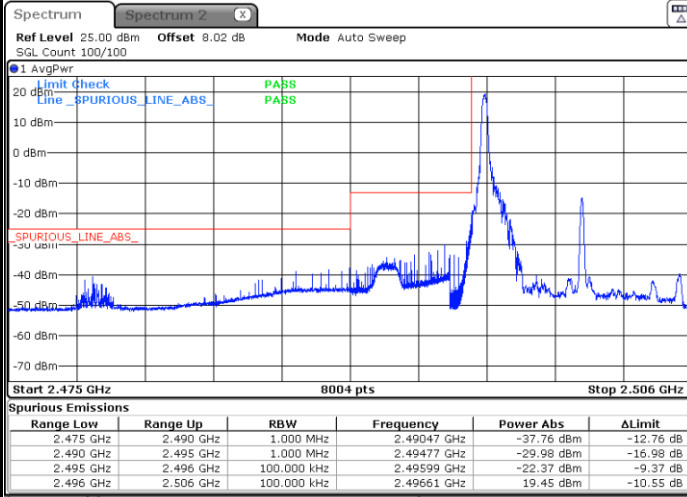


Date: 18.AUG.2022 12:34:42



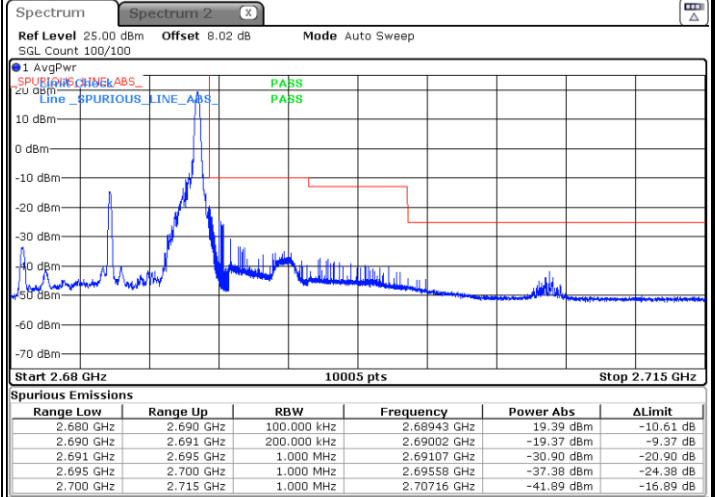
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



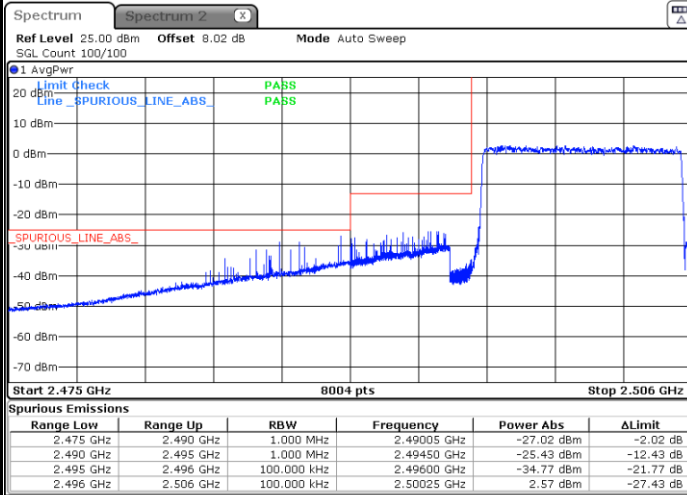
Date: 18.AUG.2022 12:24:28

Highest Band Edge / 1 RB



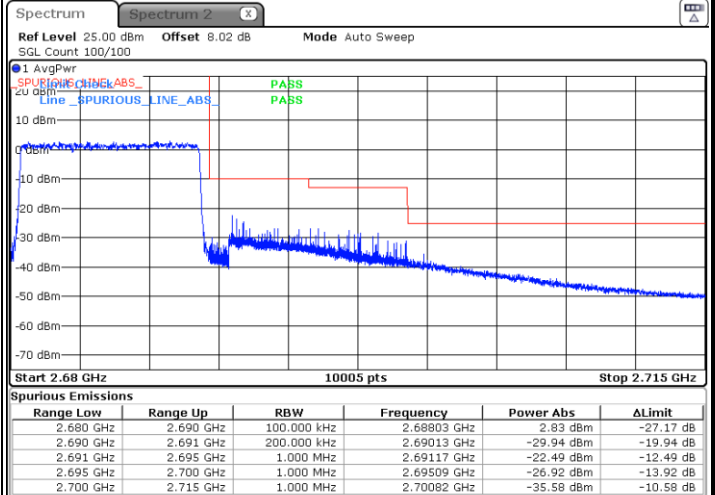
Date: 18.AUG.2022 12:32:52

Lowest Band Edge / Full RB



Date: 18.AUG.2022 12:25:26

Highest Band Edge / Full RB

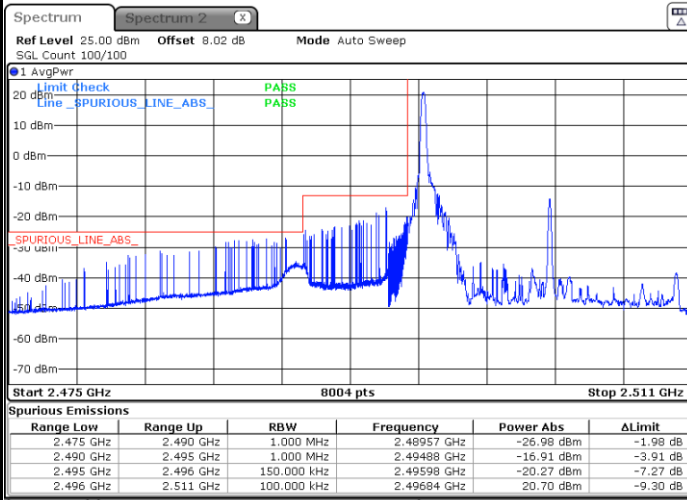


Date: 18.AUG.2022 12:33:47



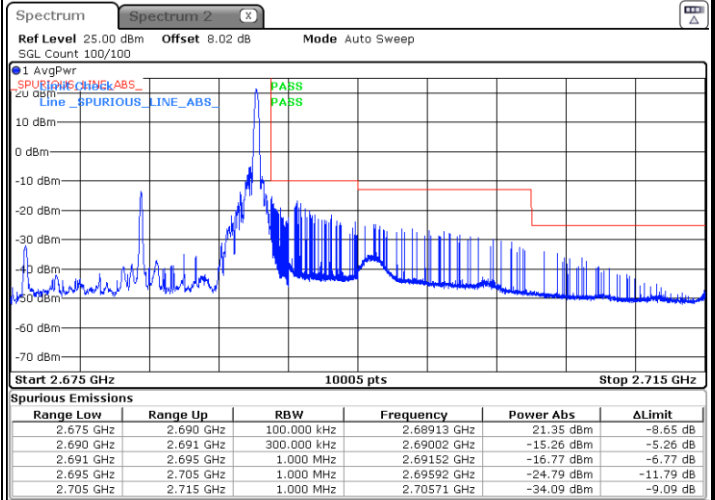
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



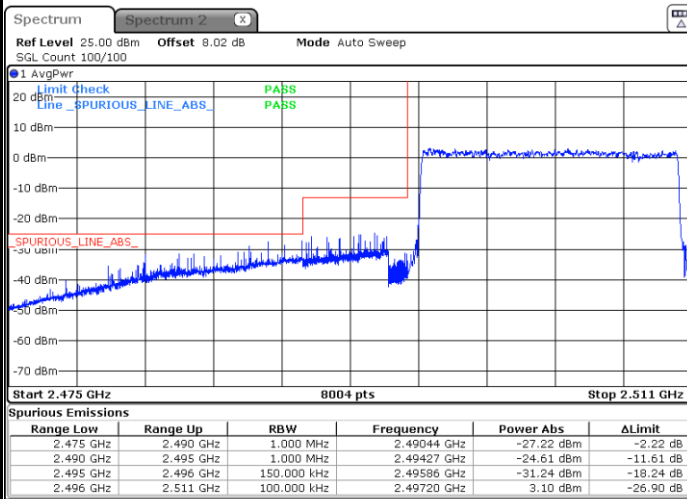
Date: 18.AUG.2022 13:26:25

Highest Band Edge / 1 RB



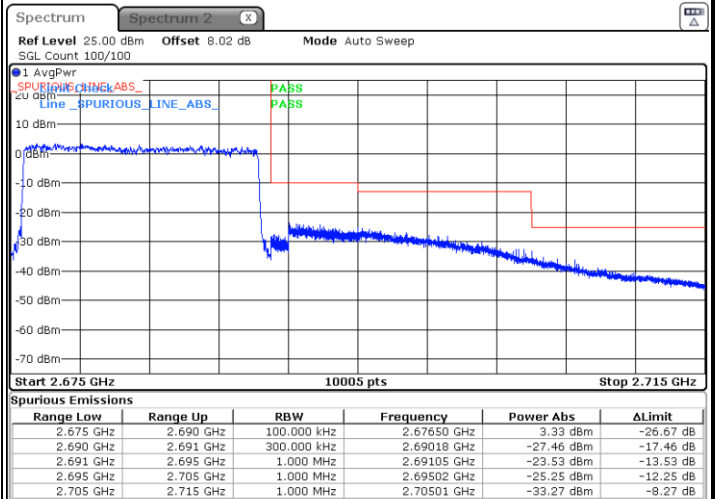
Date: 18.AUG.2022 12:46:28

Lowest Band Edge / Full RB



Date: 18.AUG.2022 12:42:48

Highest Band Edge / Full RB

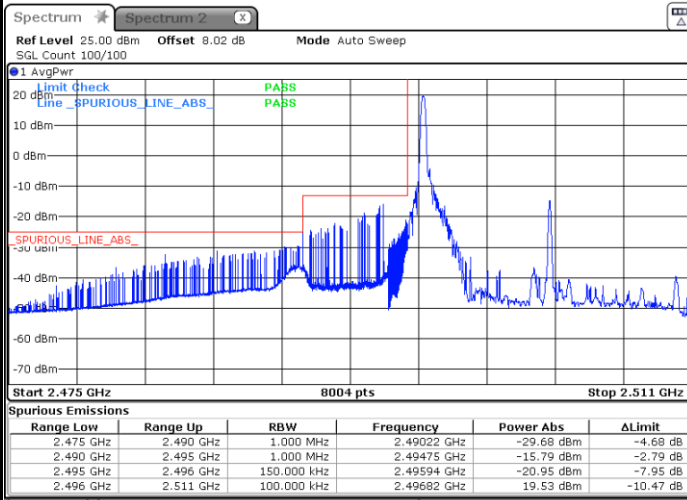


Date: 18.AUG.2022 12:51:04



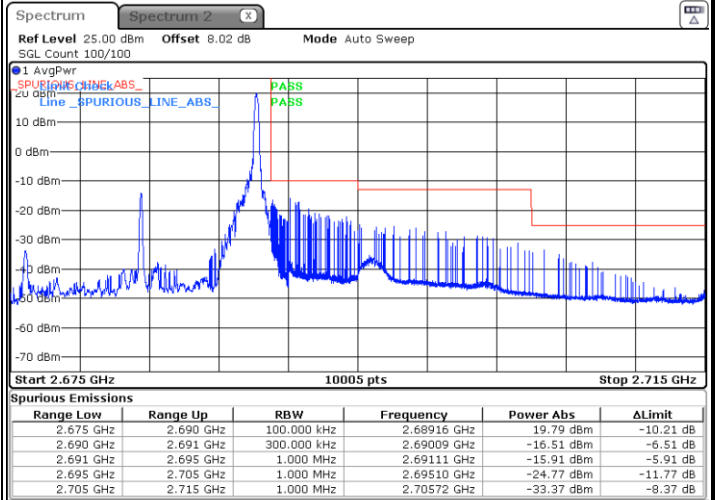
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



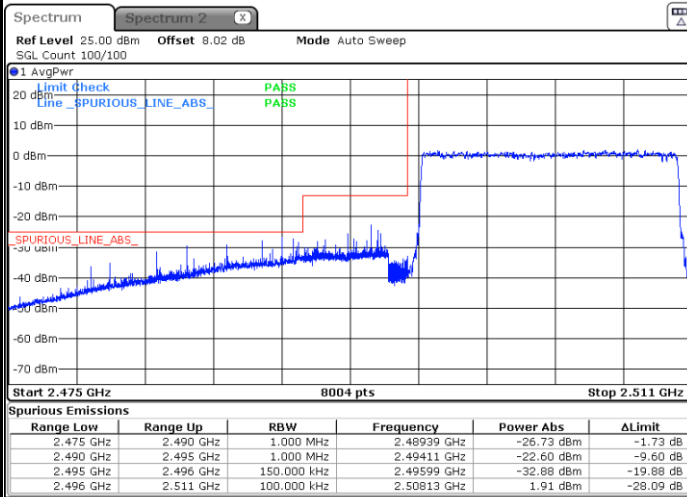
Date: 18.AUG.2022 13:27:23

Highest Band Edge / 1 RB



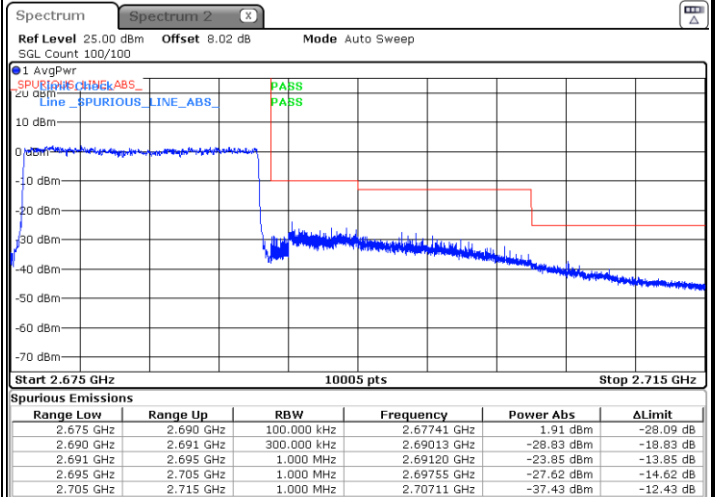
Date: 18.AUG.2022 12:47:23

Lowest Band Edge / Full RB



Date: 18.AUG.2022 12:41:51

Highest Band Edge / Full RB

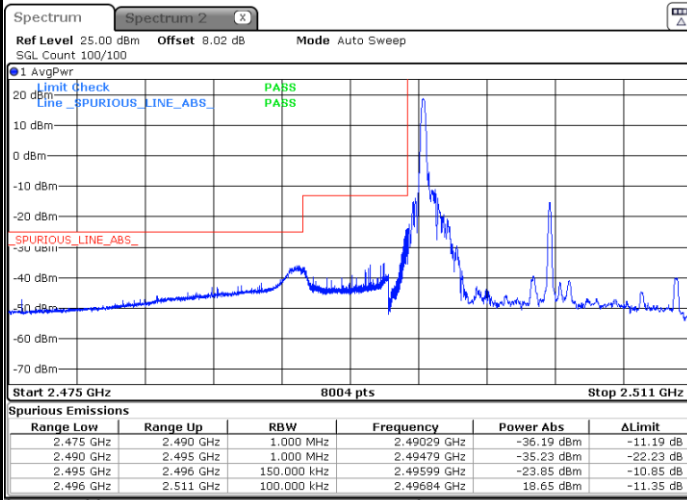


Date: 18.AUG.2022 12:50:09



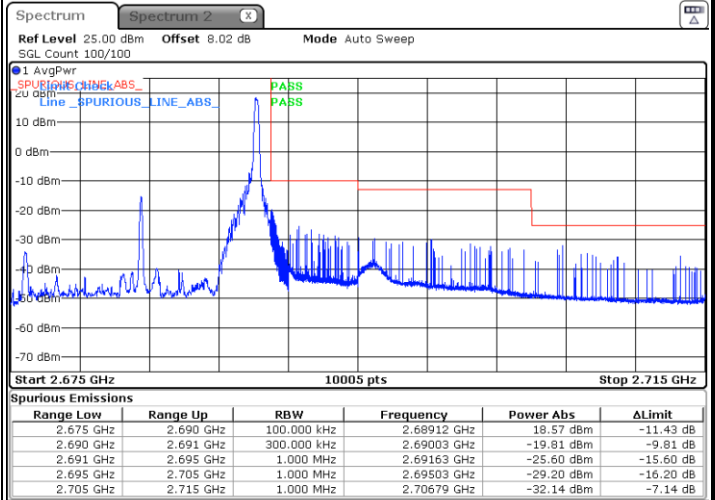
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



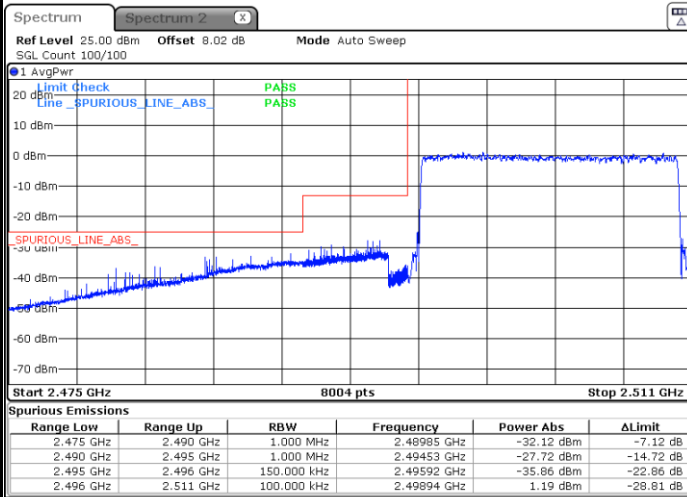
Date: 18.AUG.2022 12:39:55

Highest Band Edge / 1 RB



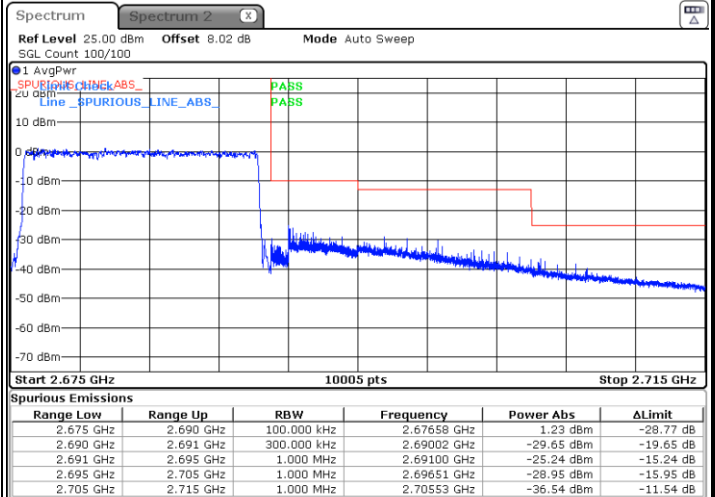
Date: 18.AUG.2022 12:48:18

Lowest Band Edge / Full RB



Date: 18.AUG.2022 12:40:53

Highest Band Edge / Full RB

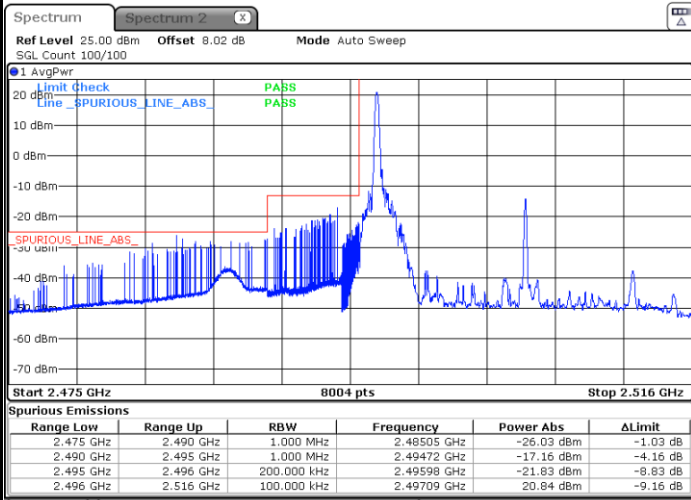


Date: 18.AUG.2022 12:49:14



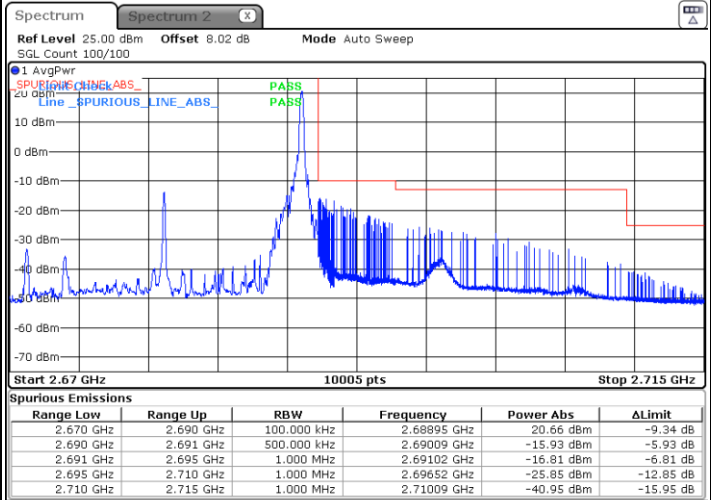
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



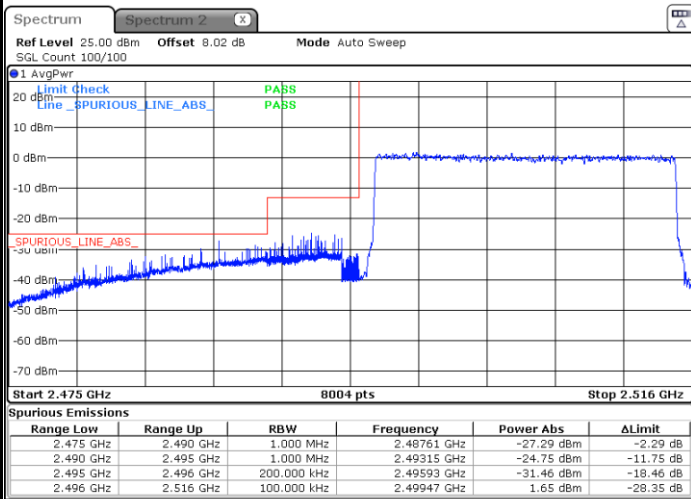
Date: 18.AUG.2022 12:53:24

Highest Band Edge / 1 RB



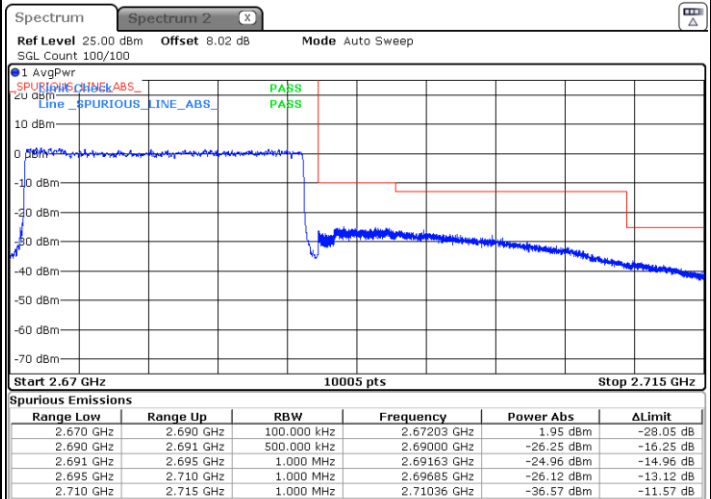
Date: 18.AUG.2022 13:01:51

Lowest Band Edge / Full RB



Date: 18.AUG.2022 12:58:12

Highest Band Edge / Full RB



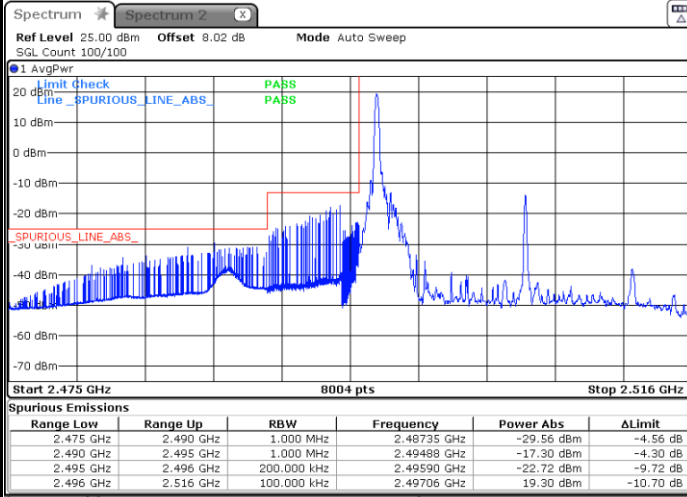
Date: 18.AUG.2022 13:06:28





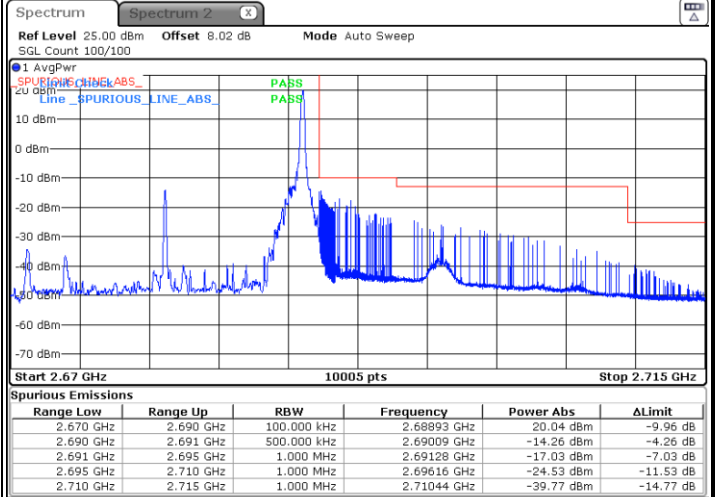
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



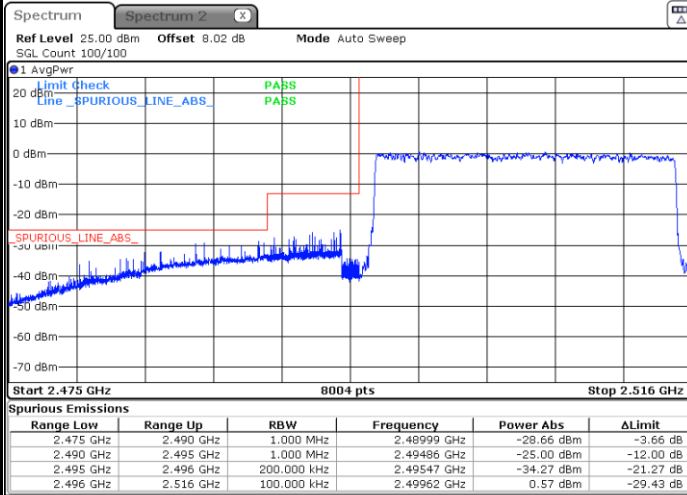
Date: 18.AUG.2022 13:28:21

Highest Band Edge / 1 RB



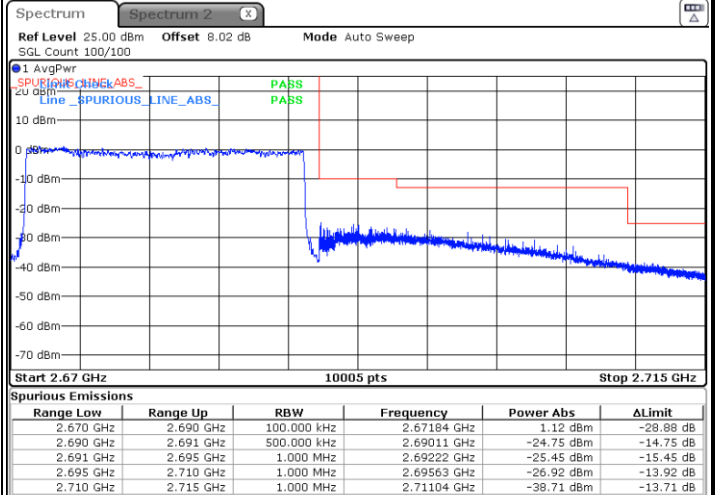
Date: 18.AUG.2022 13:02:47

Lowest Band Edge / Full RB



Date: 18.AUG.2022 12:57:15

Highest Band Edge / Full RB

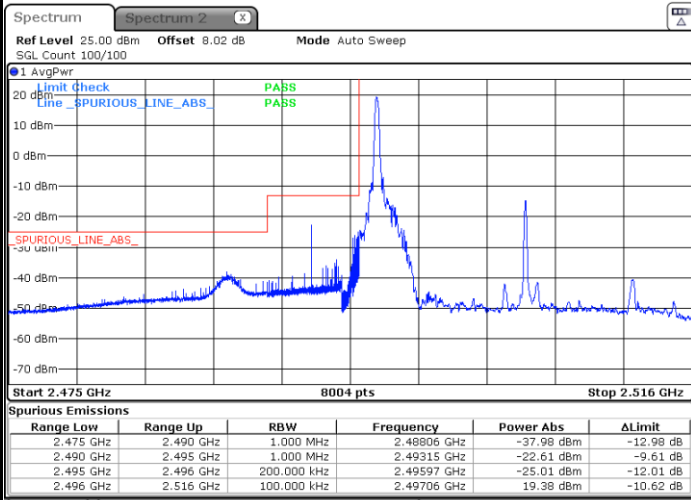


Date: 18.AUG.2022 13:05:33



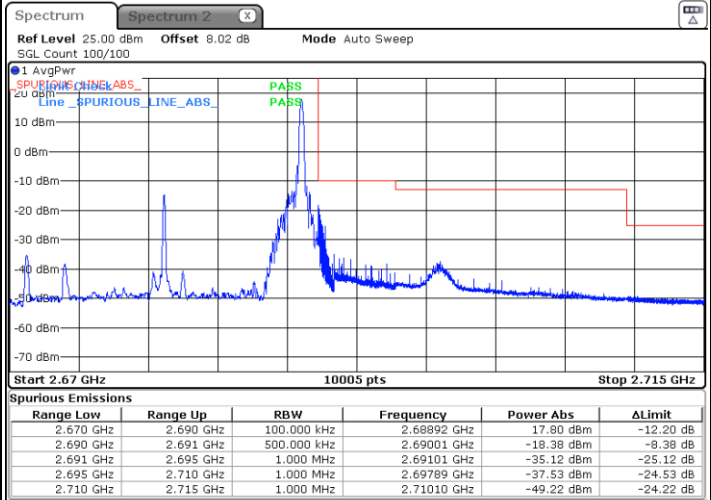
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



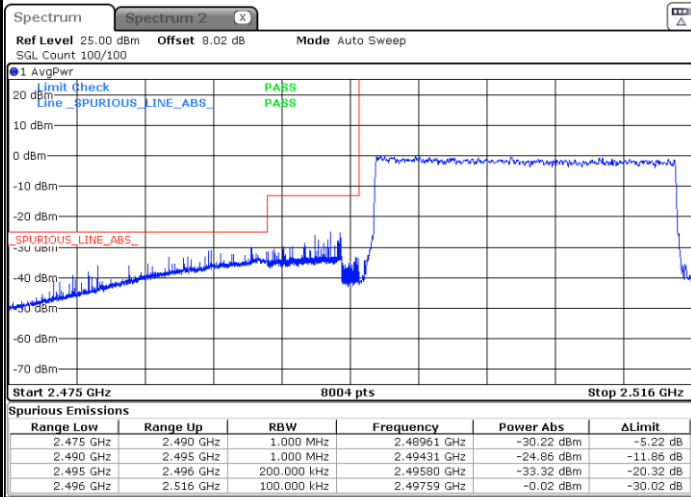
Date: 18.AUG.2022 12:55:19

Highest Band Edge / 1 RB



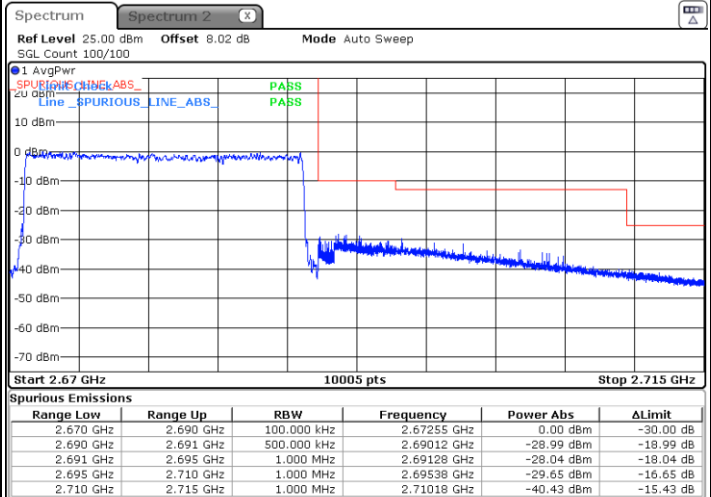
Date: 18.AUG.2022 13:03:42

Lowest Band Edge / Full RB



Date: 18.AUG.2022 12:56:17

Highest Band Edge / Full RB



Date: 18.AUG.2022 13:04:38

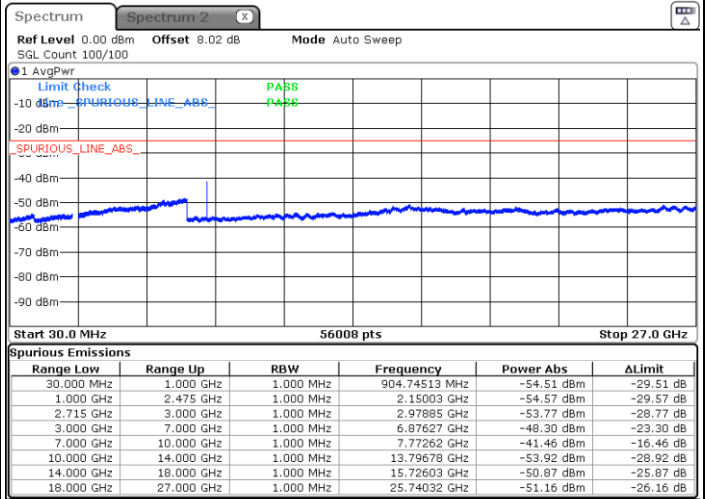
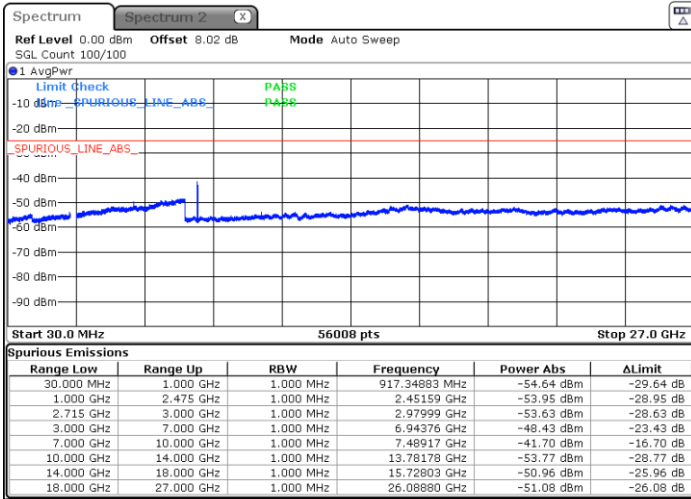


# Conducted Spurious Emission

## LTE Band 41 / 5MHz

### Lowest Channel / QPSK

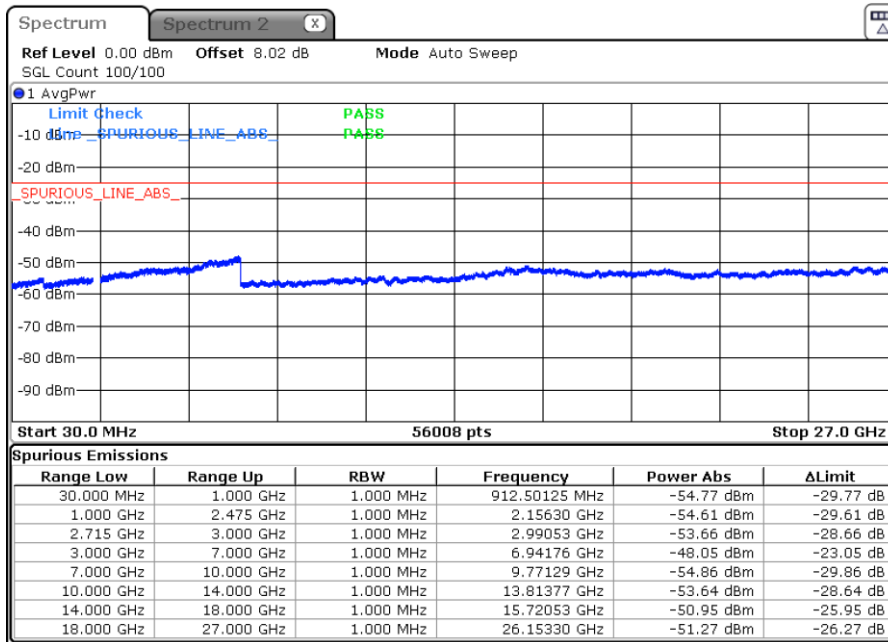
### Middle Channel / QPSK



Date: 18.AUG.2022 12:06:03

Date: 18.AUG.2022 12:13:17

### Highest Channel / QPSK

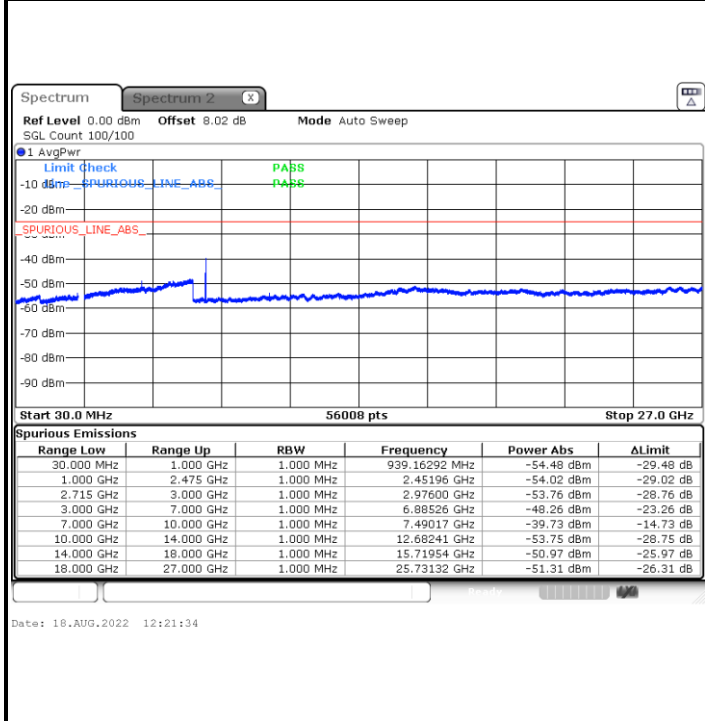


Date: 18.AUG.2022 12:14:39

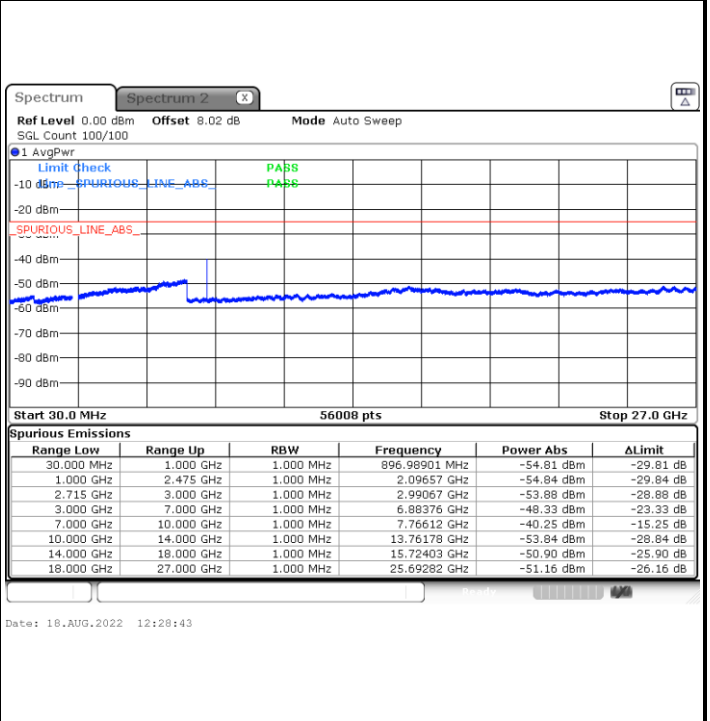


**LTE Band 41 / 10MHz**

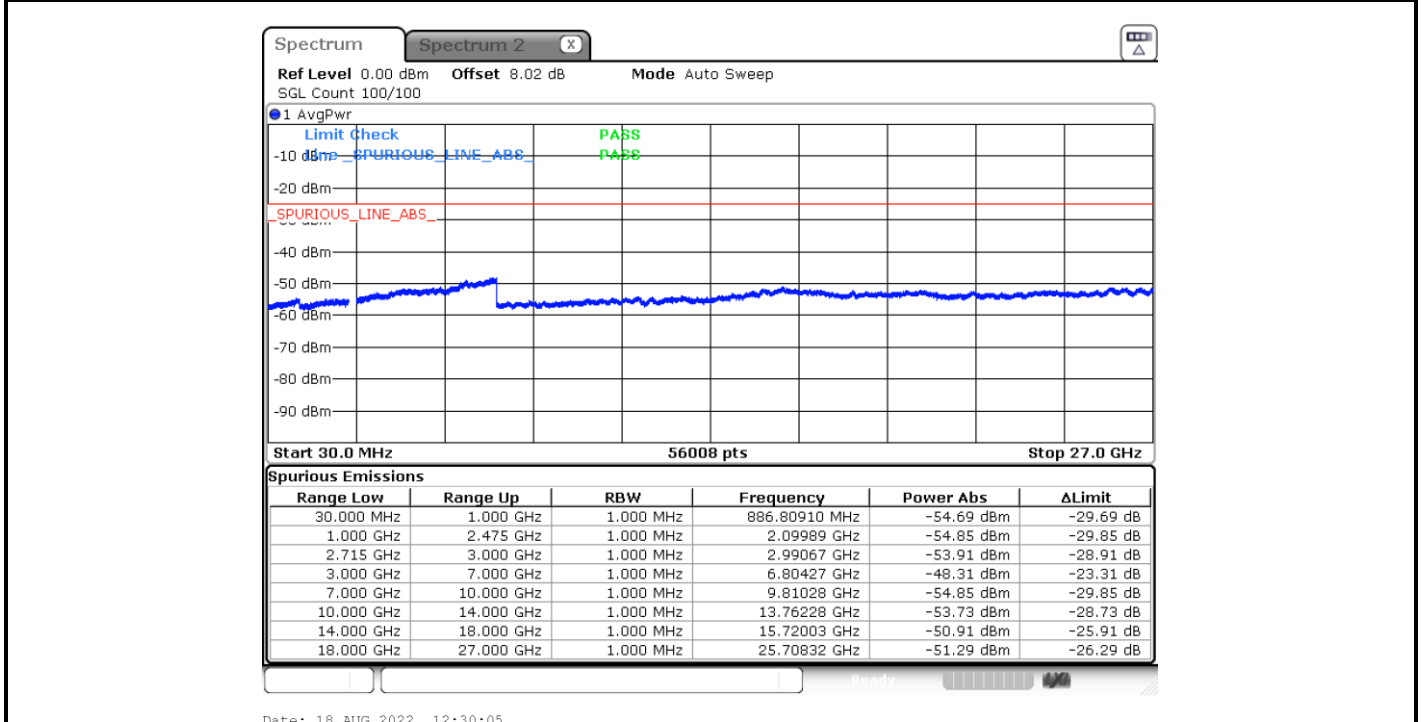
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

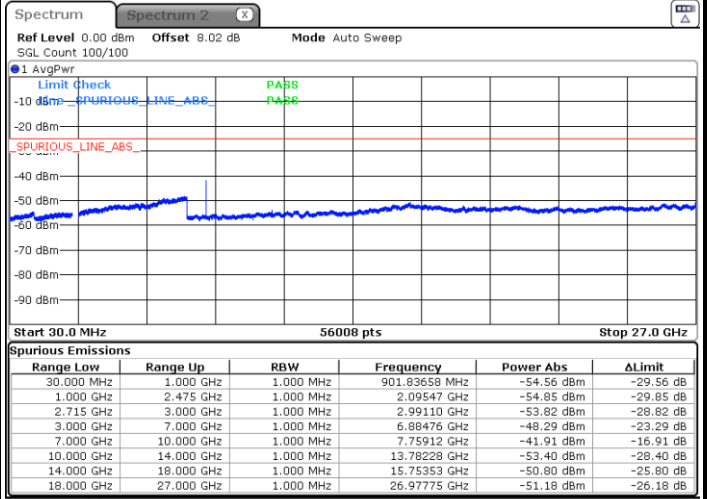
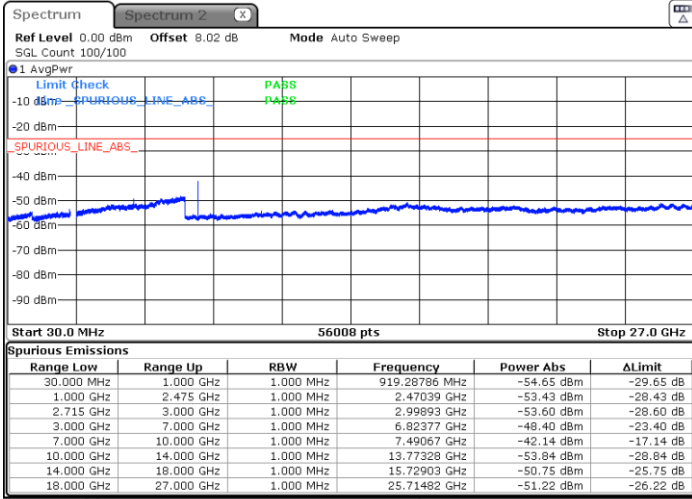




LTE Band 41 / 15MHz

Lowest Channel / QPSK

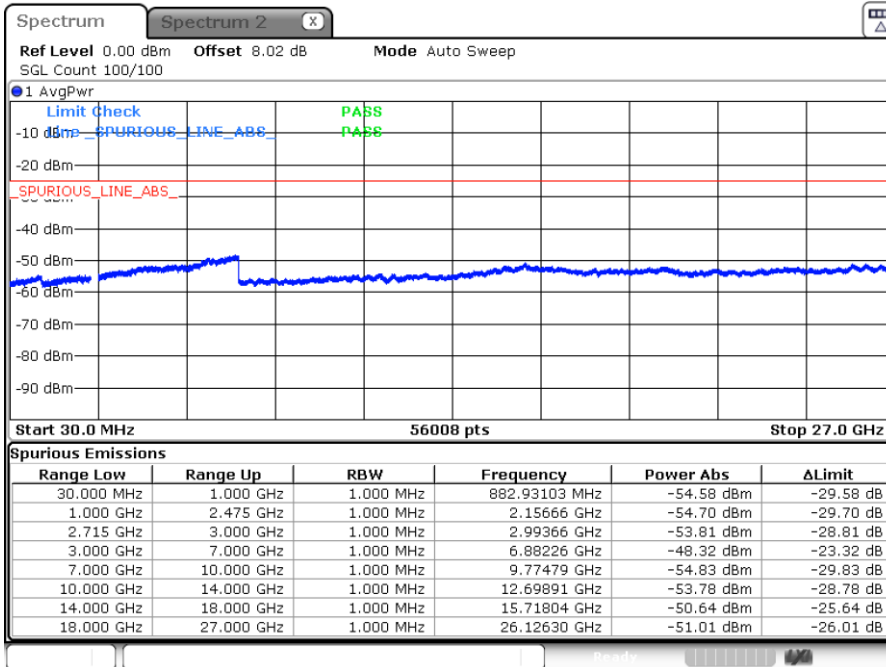
Middle Channel / QPSK



Date: 18.AUG.2022 12:37:00

Date: 18.AUG.2022 12:44:10

Highest Channel / QPSK



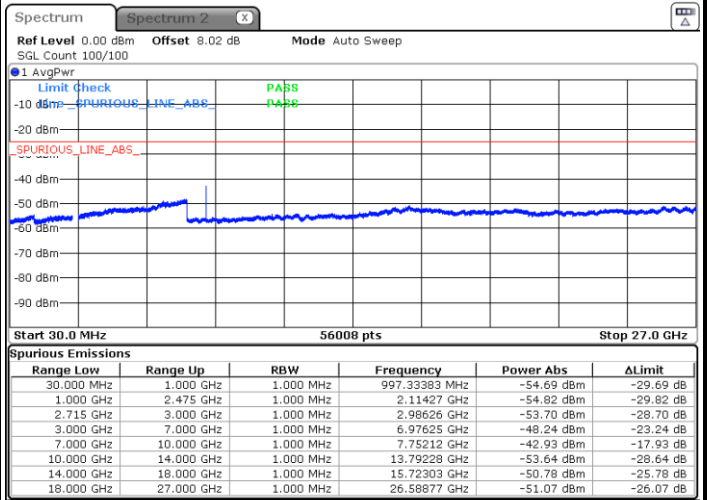
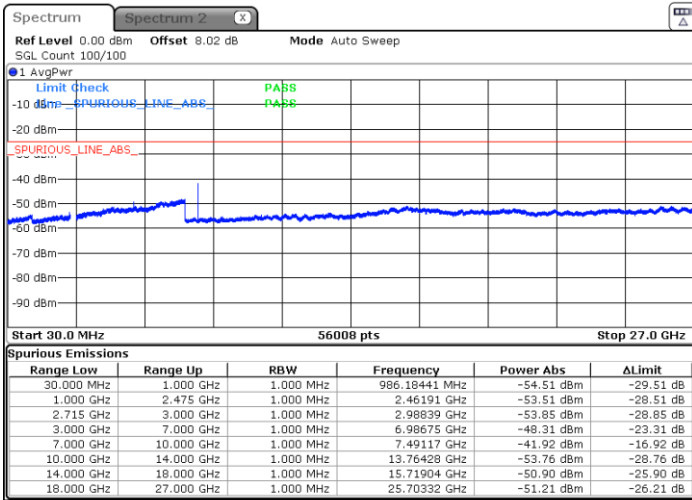
Date: 18.AUG.2022 12:45:32



LTE Band 41 / 20MHz

Lowest Channel / QPSK

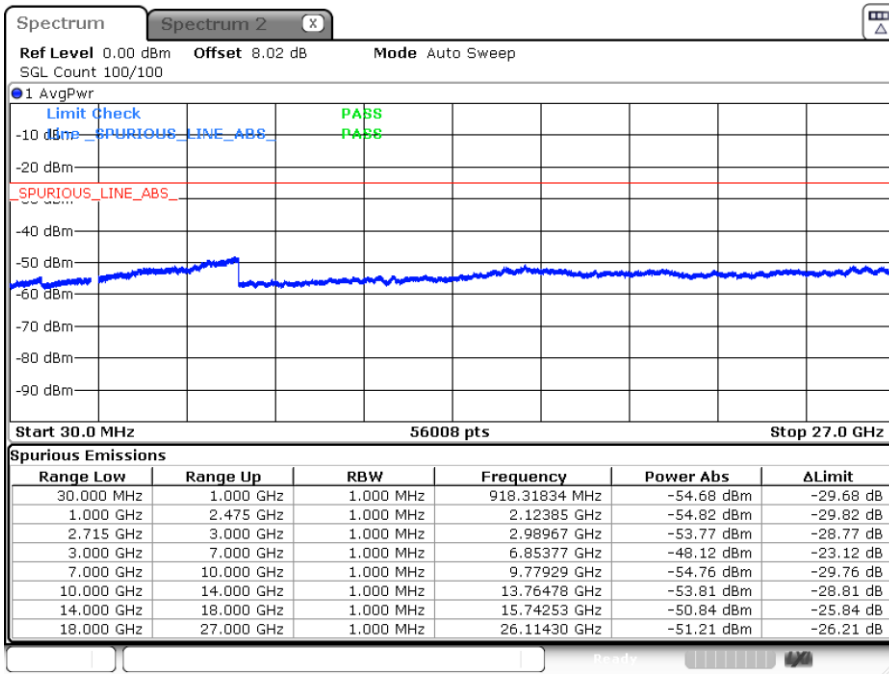
Middle Channel / QPSK



Date: 18.AUG.2022 12:52:26

Date: 18.AUG.2022 12:59:34

Highest Channel / QPSK



Date: 18.AUG.2022 13:00:56



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	0.0021	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0017	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 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 :	Levi zhuo	Temperature :	22~23°C
		Relative Humidity :	41~42%

LTE Band 2 / 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)
Middle	3735	-49.98	-13	-36.98	-62.24	2.64	14.90	H
	5610	-45.43	-13	-32.43	-57.29	2.94	14.80	H
	7485	-52.24	-13	-39.24	-62.01	3.39	13.16	H
	3735	-51.04	-13	-38.04	-63.30	2.64	14.90	V
	5610	-41.83	-13	-28.83	-53.69	2.94	14.80	V
	7485	-52.71	-13	-39.71	-62.48	3.39	13.16	V

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

LTE Band 4 / 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)
Middle	3450	-46.29	-13	-33.29	-57.03	2.604	13.34	H
	5175	-43.09	-13	-30.09	-53.60	3.011	13.52	H
	6900	-52.51	-13	-39.51	-62.71	3.271	13.47	H
	3450	-48.18	-13	-35.18	-58.92	2.604	13.34	V
	5175	-41.23	-13	-28.23	-51.74	3.011	13.52	V
	6900	-53.22	-13	-40.22	-63.42	3.271	13.47	V

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

LTE Band 7 / 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)
Middle	5052	-62.07	-25	-37.07	-72.28	3.03	13.24	H
	7576	-51.73	-25	-26.73	-61.18	3.56	13.01	H
	10100	-61.48	-25	-36.48	-71.00	3.92	13.44	H
	5052	-63.71	-25	-38.71	-73.92	3.03	13.24	V
	7576	-55.33	-25	-30.33	-64.78	3.56	13.01	V
	10100	-61.35	-25	-36.35	-70.87	3.92	13.44	V

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





LTE Band 26 / 15MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1659	-46.95	-13	-33.95	-53.92	1.58	10.70	H
	2489	-42.77	-13	-29.77	-51.02	2.102	12.50	H
	3319	-60.28	-13	-47.28	-69.17	2.856	13.90	H
	1659	-48.22	-13	-35.22	-55.19	1.58	10.70	V
	2489	-44.27	-13	-31.27	-52.52	2.10	12.50	V
	3319	-60.26	-13	-47.26	-69.15	2.86	13.90	V

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

LTE Band 41 / 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)
Middle	5168	-63.58	-25	-38.58	-73.79	3.03	13.24	H
	7752	-60.12	-25	-35.12	-69.57	3.56	13.01	H
	10340	-61.26	-25	-36.26	-70.78	3.92	13.44	H
	5168	-62.55	-25	-37.55	-72.76	3.03	13.24	V
	7752	-59.57	-25	-34.57	-69.02	3.56	13.01	V
	10340	-61.98	-25	-36.98	-71.50	3.92	13.44	V

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