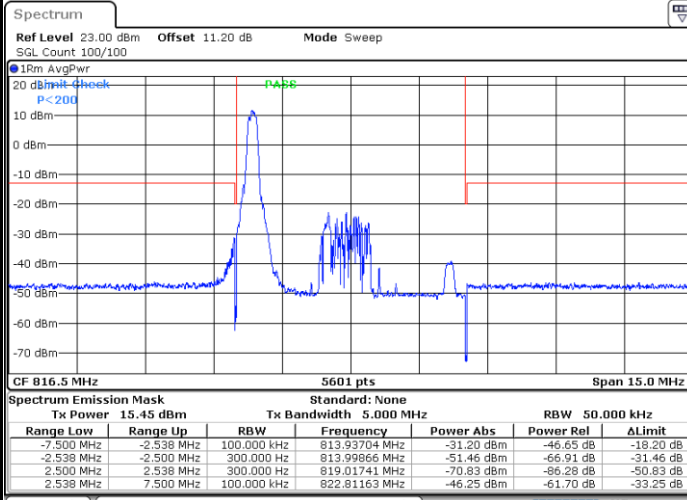




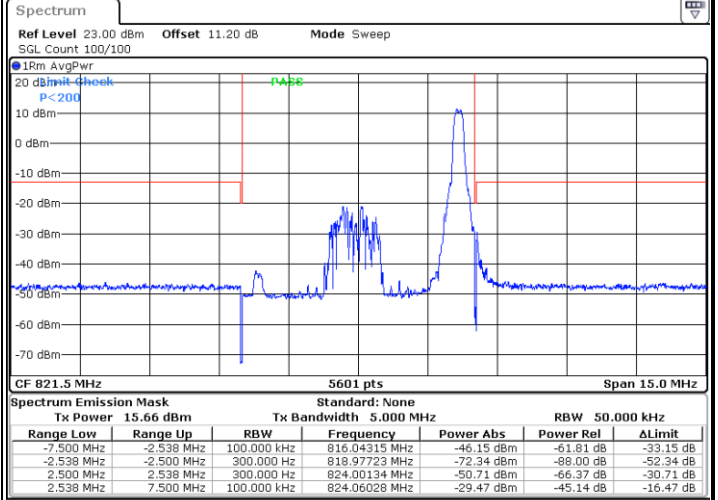
LTE Band 26 / 5MHz / 256QAM

Lowest Band Edge / 1RB



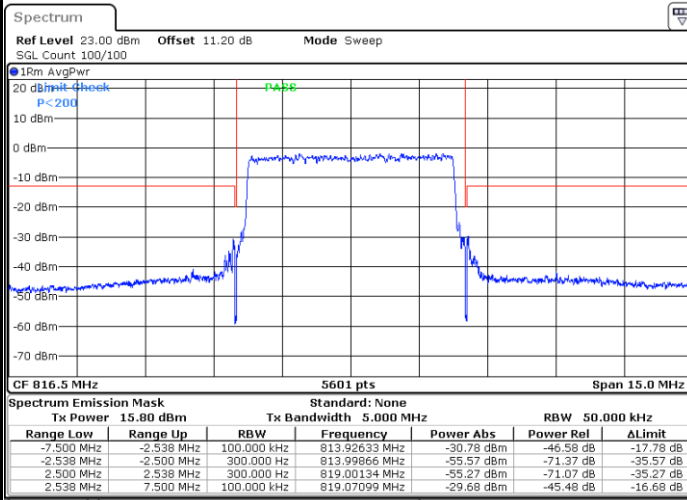
Date: 13.AUG.2022 10:25:41

Highest Band Edge / 1 RB



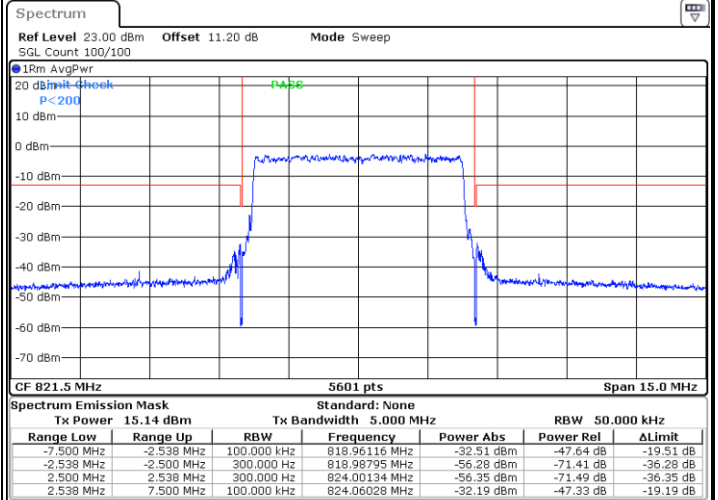
Date: 13.AUG.2022 10:27:13

Lowest Band Edge / Full RB



Date: 13.AUG.2022 10:26:27

Highest Band Edge / Full RB

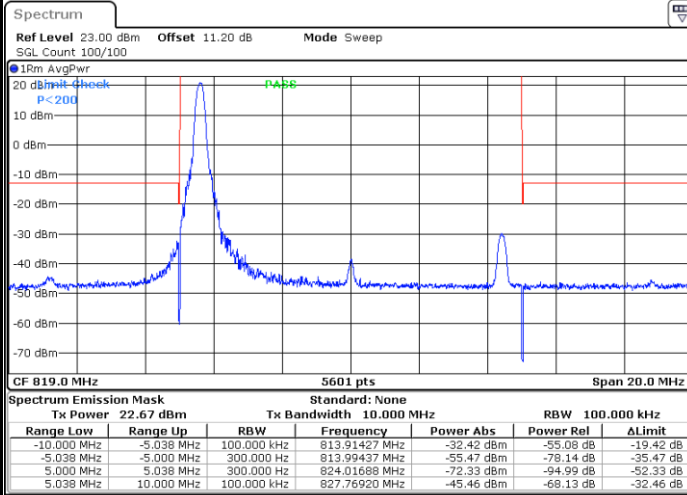


Date: 13.AUG.2022 10:27:59



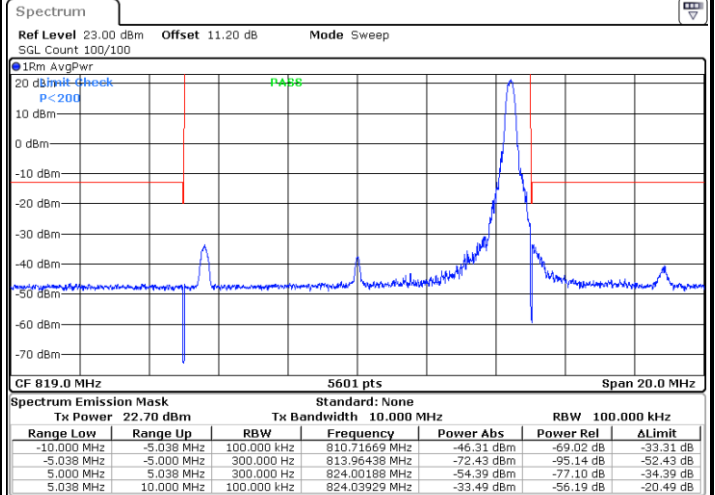
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB



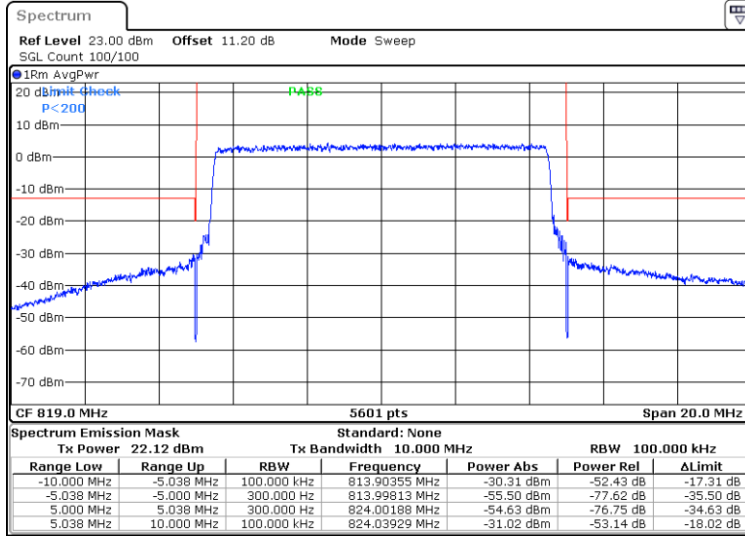
Date: 13.AUG.2022 08:48:16

Highest Band Edge / 1 RB



Date: 13.AUG.2022 08:50:13

Lowest Band Edge / Full RB

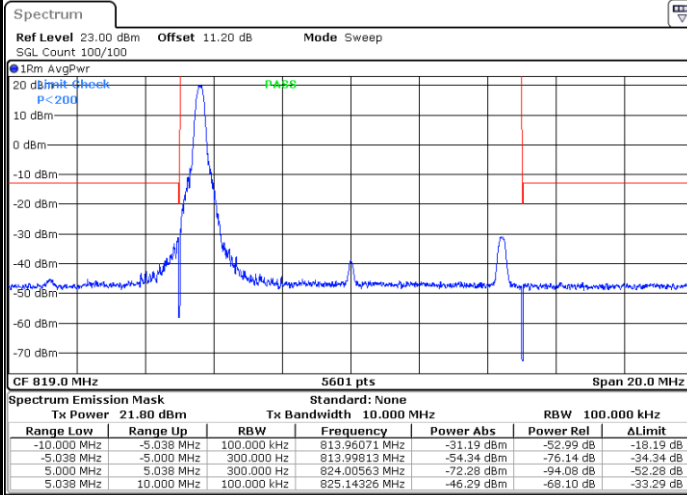


Date: 13.AUG.2022 08:52:11



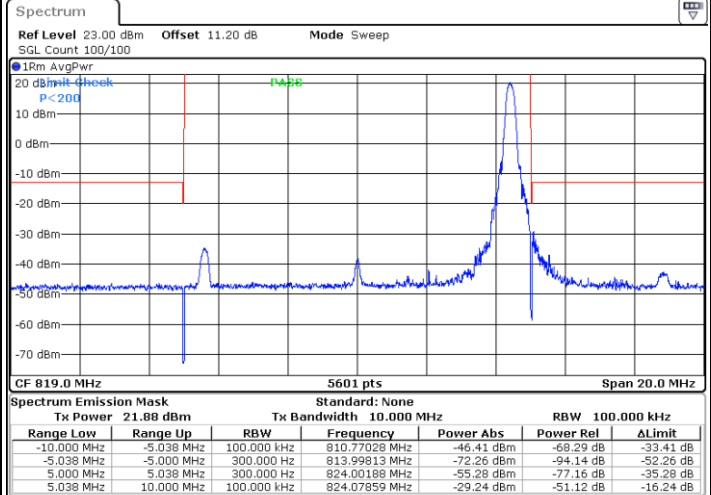
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



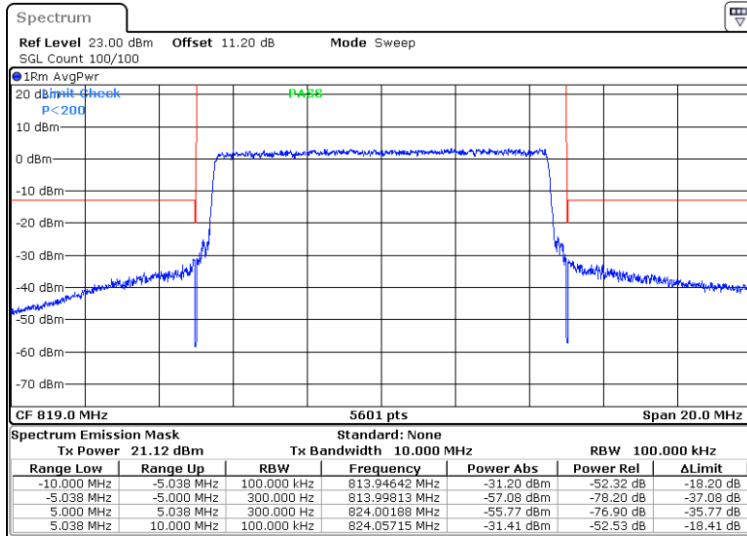
Date: 13.AUG.2022 08:49:14

Highest Band Edge / 1 RB



Date: 13.AUG.2022 08:51:12

Lowest Band Edge / Full RB

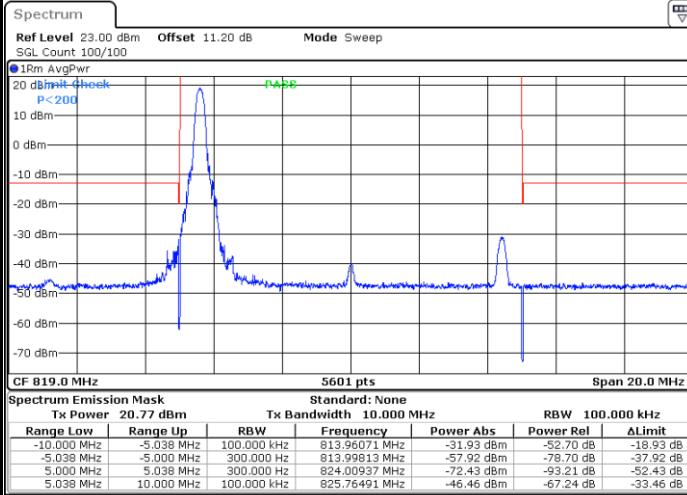


Date: 13.AUG.2022 08:53:10



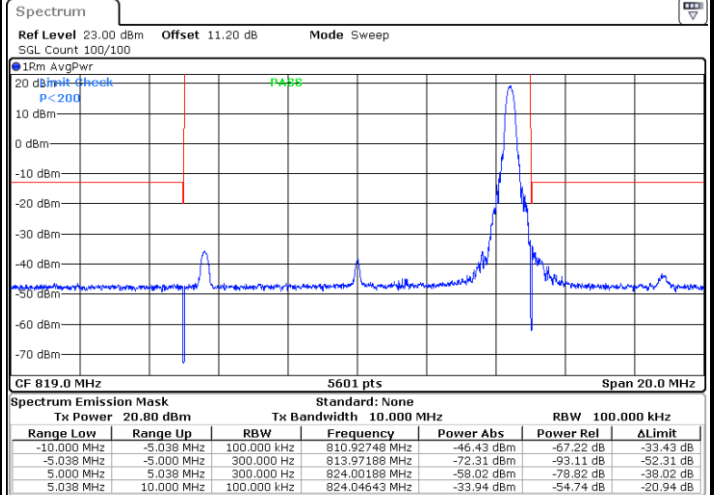
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



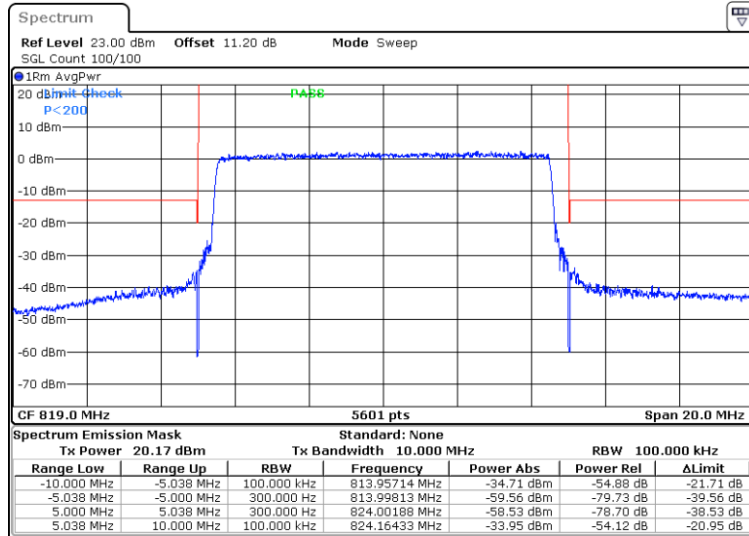
Date: 13.AUG.2022 08:54:09

Highest Band Edge / 1 RB



Date: 13.AUG.2022 08:55:07

Lowest Band Edge / Full RB

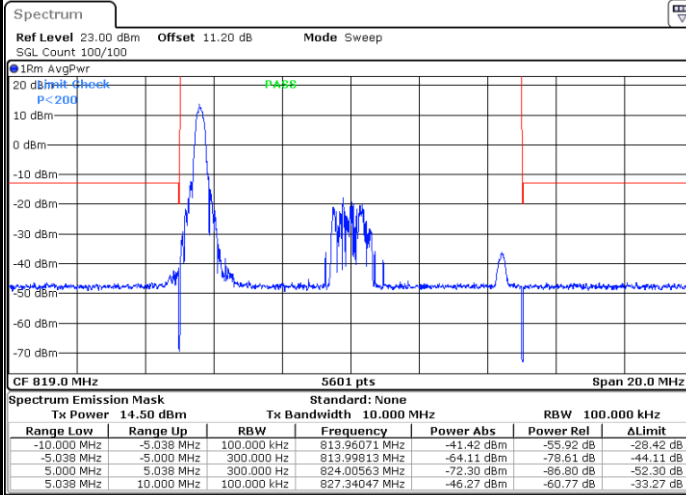


Date: 13.AUG.2022 08:56:06



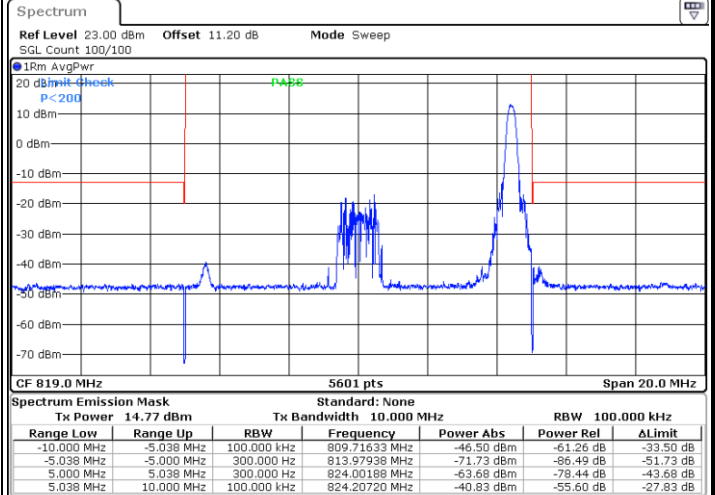
LTE Band 26 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



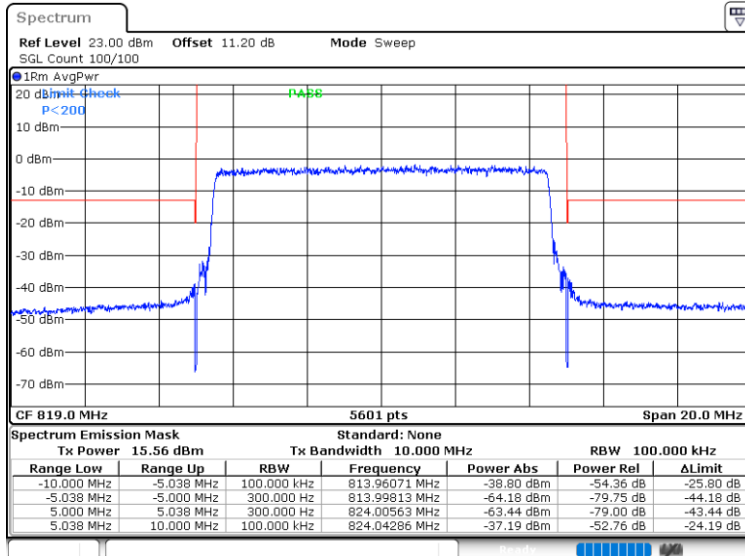
Date: 13.AUG.2022 10:31:02

Highest Band Edge / 1 RB



Date: 13.AUG.2022 10:31:48

Lowest Band Edge / Full RB



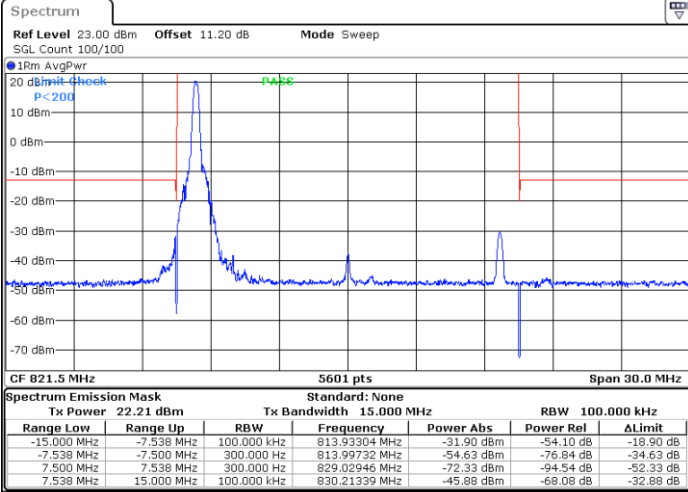
Date: 13.AUG.2022 10:32:31



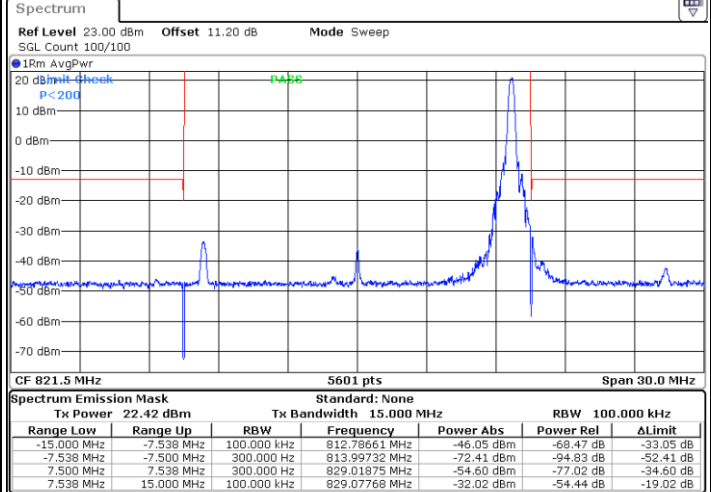
LTE Band 26 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

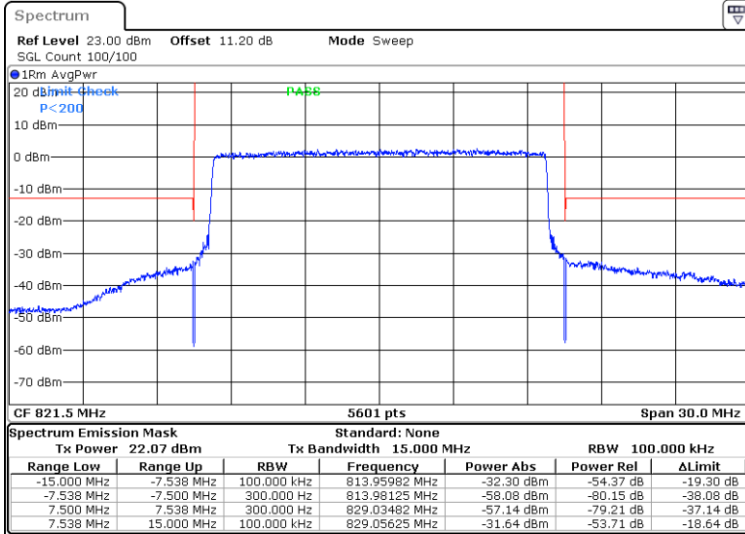


Date: 13.AUG.2022 08:57:09



Date: 13.AUG.2022 08:59:06

Lowest Band Edge / Full RB



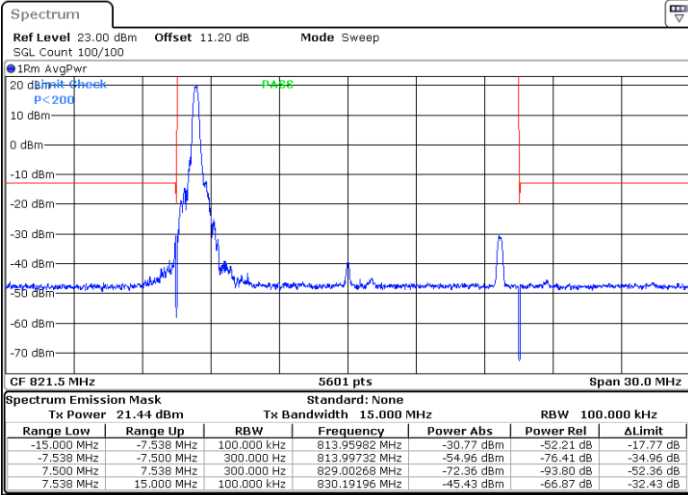
Date: 13.AUG.2022 09:01:04



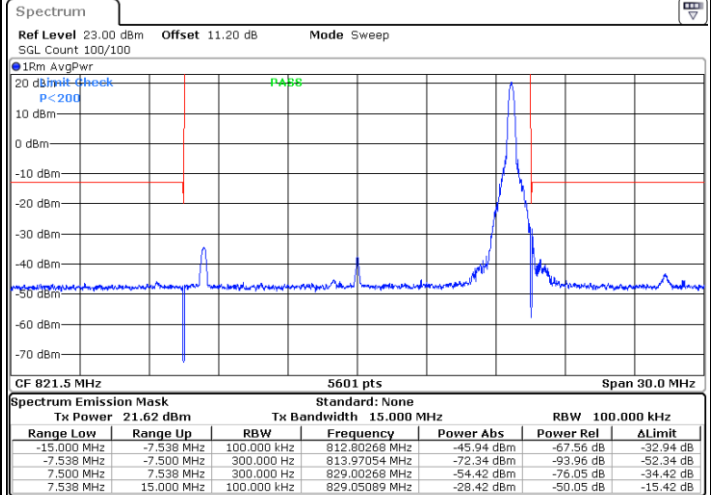
LTE Band 26 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

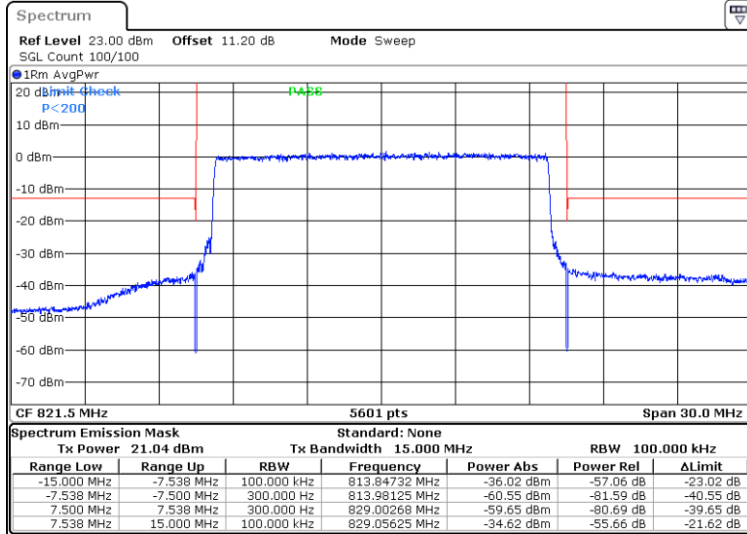


Date: 13.AUG.2022 08:58:08



Date: 13.AUG.2022 09:00:05

Lowest Band Edge / Full RB

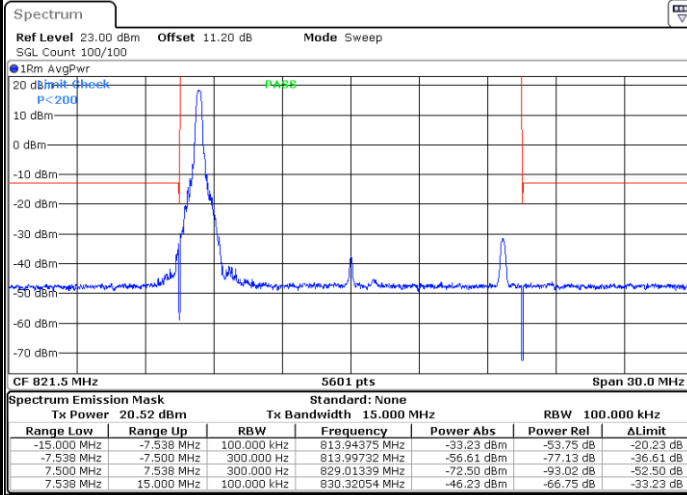


Date: 13.AUG.2022 09:02:02



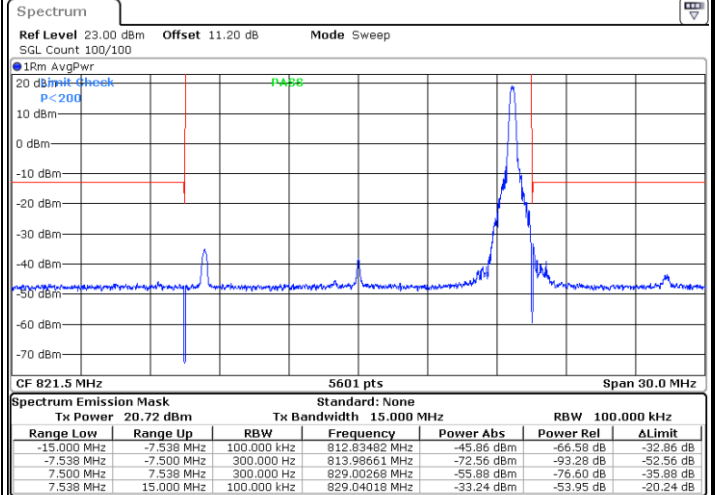
LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



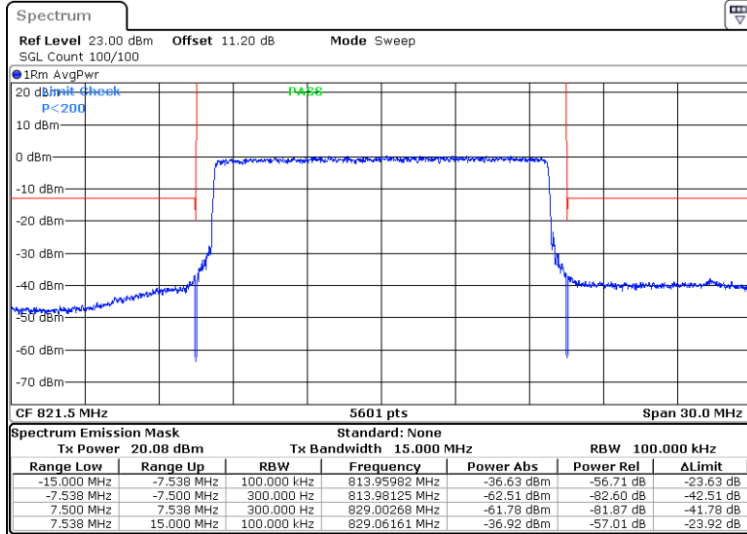
Date: 13.AUG.2022 09:03:01

Highest Band Edge / 1 RB



Date: 13.AUG.2022 09:04:00

Lowest Band Edge / Full RB



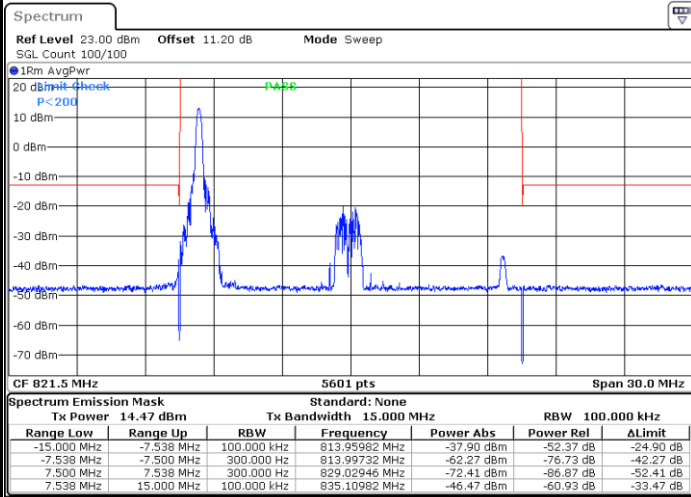
Date: 13.AUG.2022 09:04:59





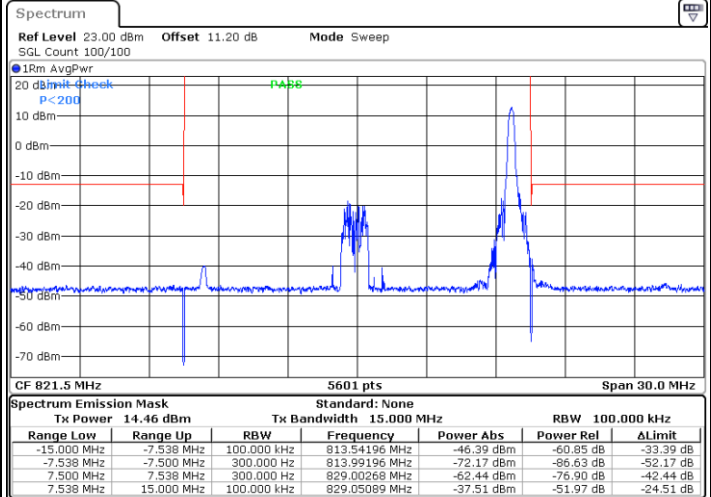
LTE Band 26 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



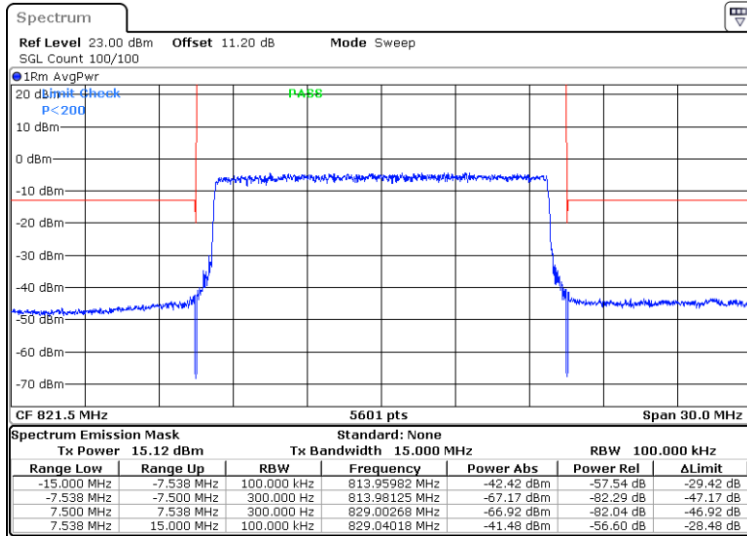
Date: 13.AUG.2022 10:33:17

Highest Band Edge / 1 RB



Date: 13.AUG.2022 10:54:59

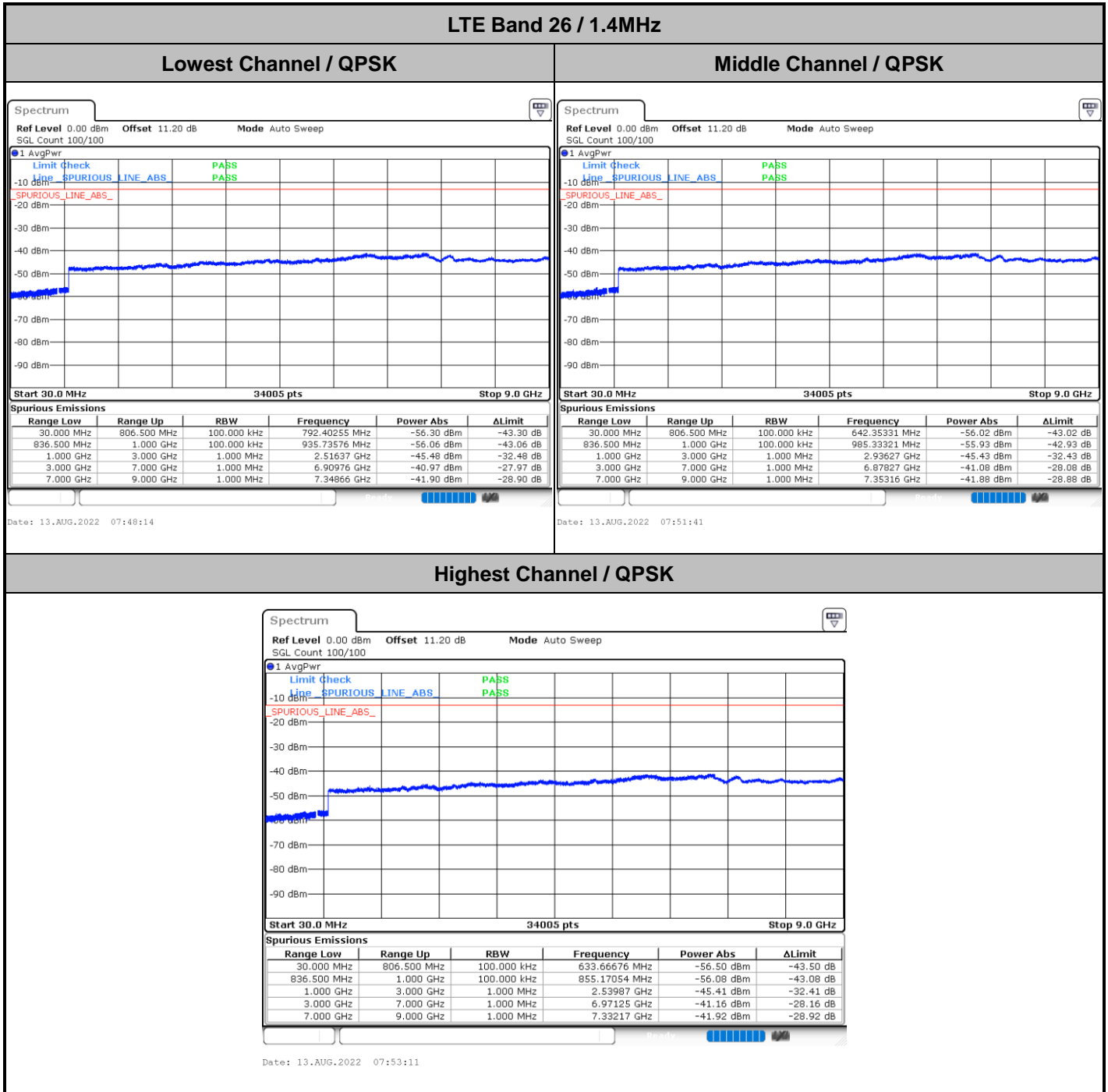
Lowest Band Edge / Full RB



Date: 13.AUG.2022 10:34:48



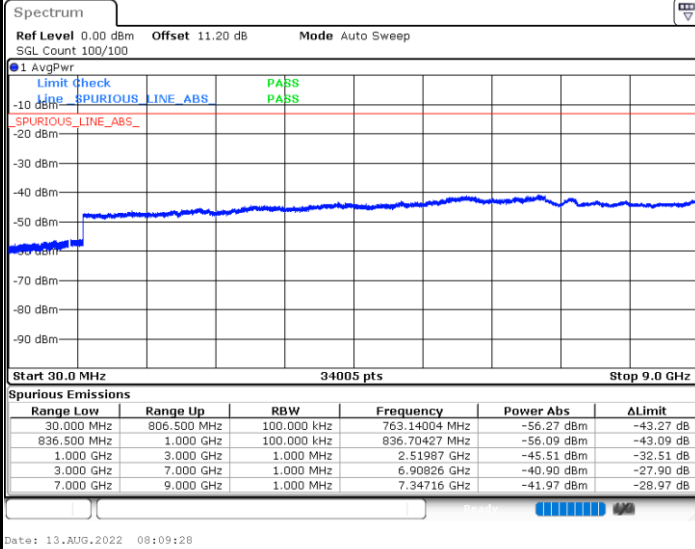
# Emission masks – Out of band emissions



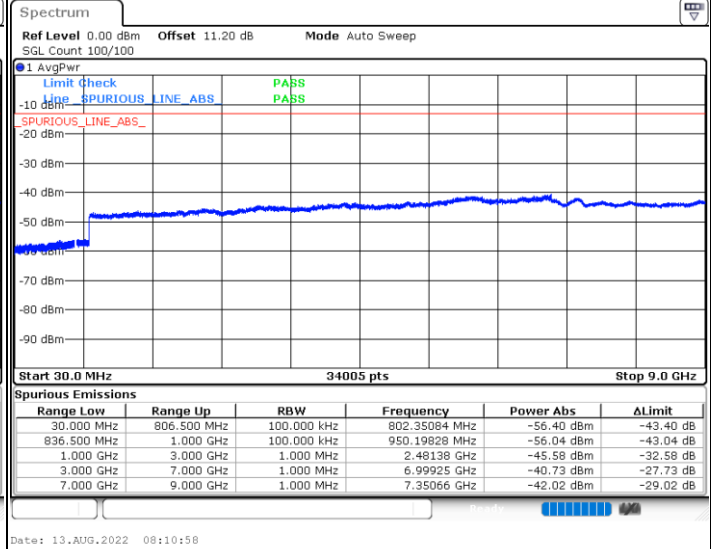


LTE Band 26 / 3MHz

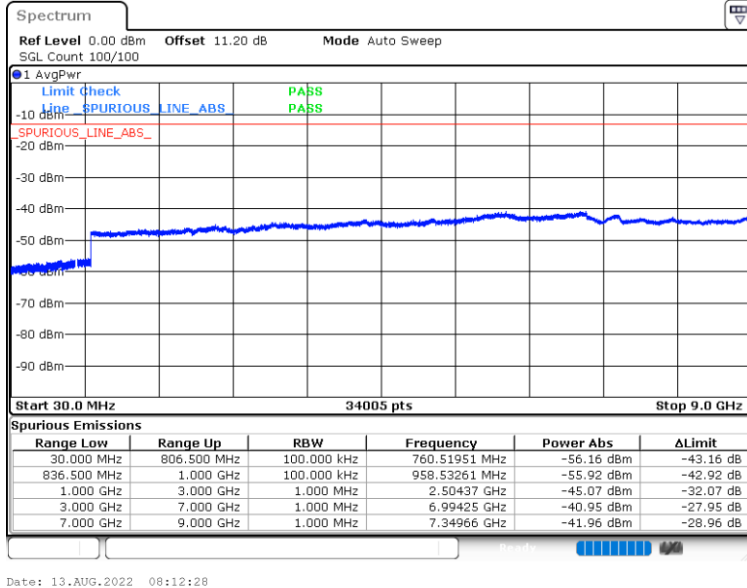
Lowest Channel / QPSK



Middle Channel / QPSK



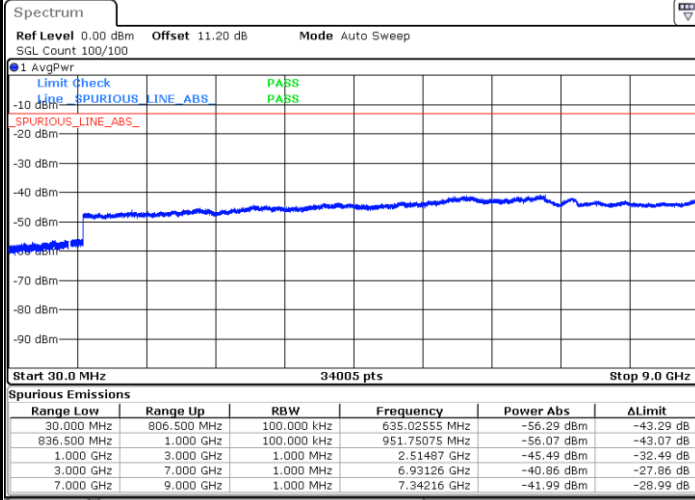
Highest Channel / QPSK





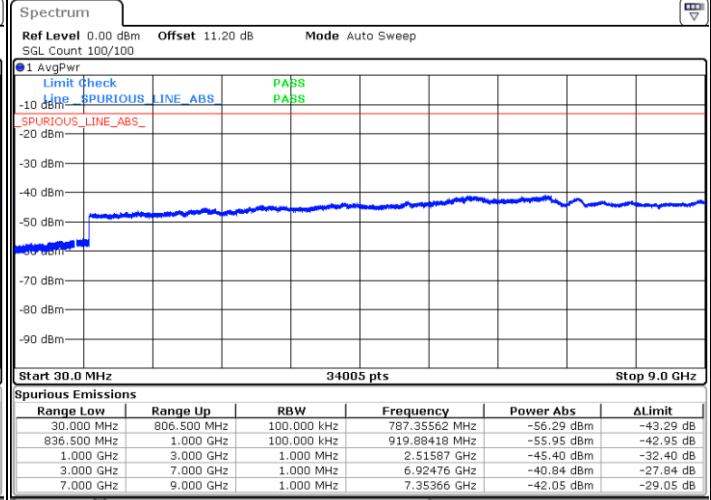
LTE Band 26 / 5MHz

Lowest Channel / QPSK



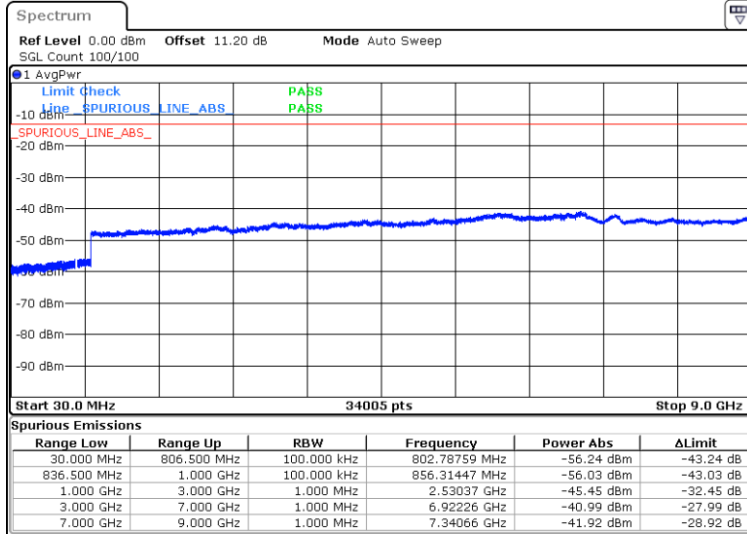
Date: 13.AUG.2022 08:26:34

Middle Channel / QPSK



Date: 13.AUG.2022 08:30:02

Highest Channel / QPSK

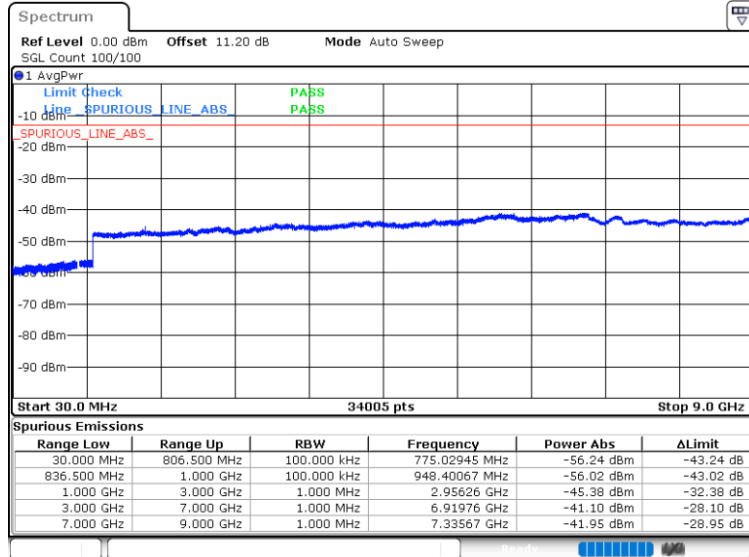


Date: 13.AUG.2022 08:31:32



LTE Band 26 / 10MHz

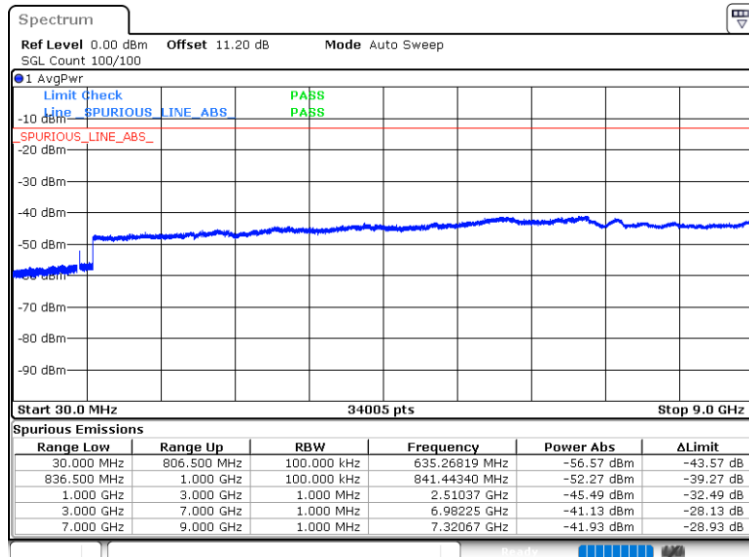
Middle Channel / QPSK



Date: 13.AUG.2022 08:47:33

LTE Band 26 / 15MHz

Middle Channel / QPSK



Date: 13.AUG.2022 09:08:24



### Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0056	PASS
40	Normal Voltage	0.0133	
30	Normal Voltage	0.0091	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0106	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0052	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0023	

**Note:**

- 1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0201	PASS
40	Normal Voltage	0.0121	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0155	
0	Normal Voltage	0.0225	
-10	Normal Voltage	0.0172	
-20	Normal Voltage	0.0154	
-30	Normal Voltage	0.0175	
20	Maximum Voltage	0.0132	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

**Note:**

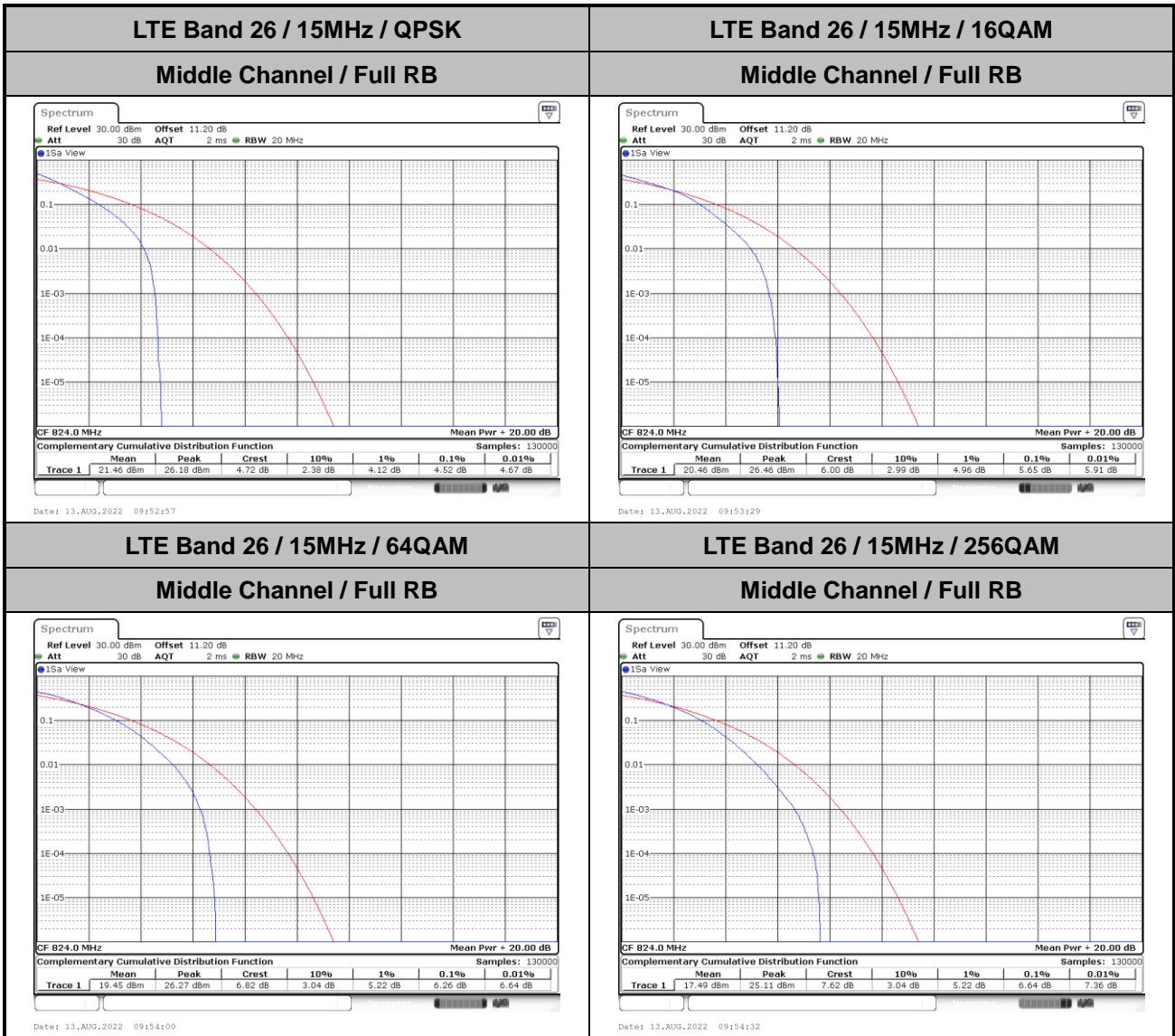
- 1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.15 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 26\_824MHz

## Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.52	5.65	6.26	6.64	PASS







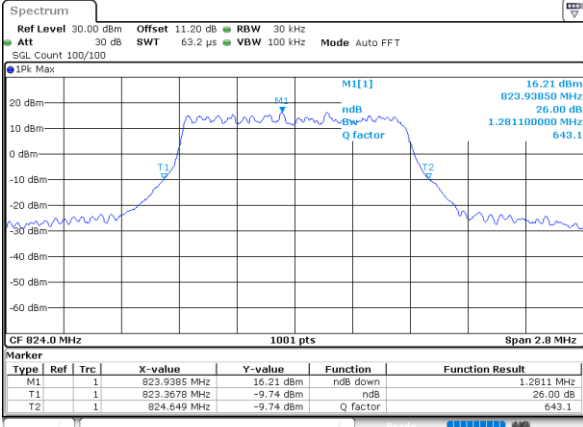
**26dB Bandwidth**

Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.32	3.13	3.07	4.97	5.03	9.89	9.99	14.57	14.51	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.32	1.31	3.07	3.03	5.02	4.89	10.13	9.77	14.75	14.21	-	-



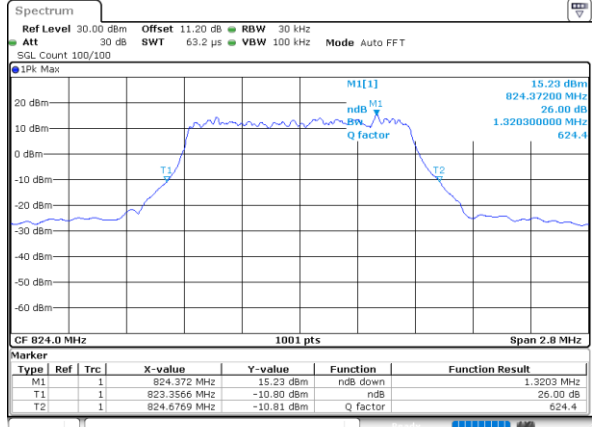
LTE Band 26

Middle Channel / 1.4MHz / QPSK



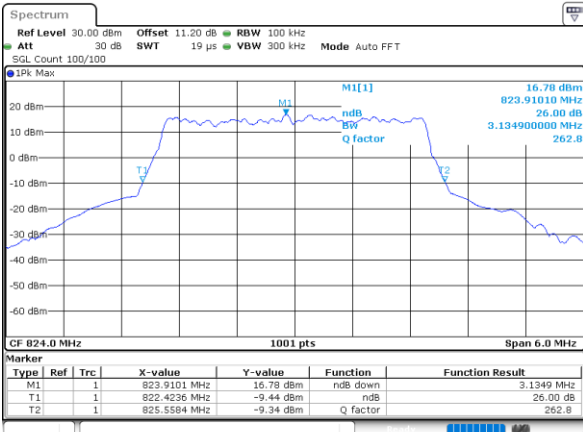
Date: 13.AUG.2022 09:26:56

Middle Channel / 1.4MHz / 16QAM



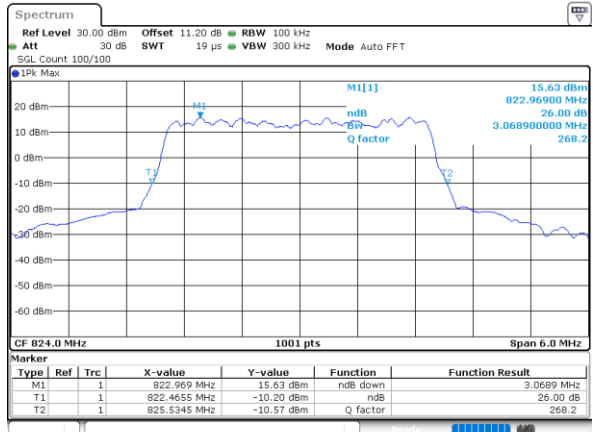
Date: 13.AUG.2022 09:27:25

Middle Channel / 3MHz / QPSK



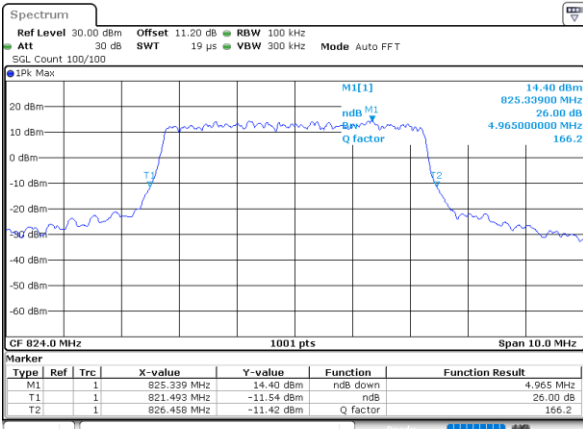
Date: 13.AUG.2022 09:32:03

Middle Channel / 3MHz / 16QAM



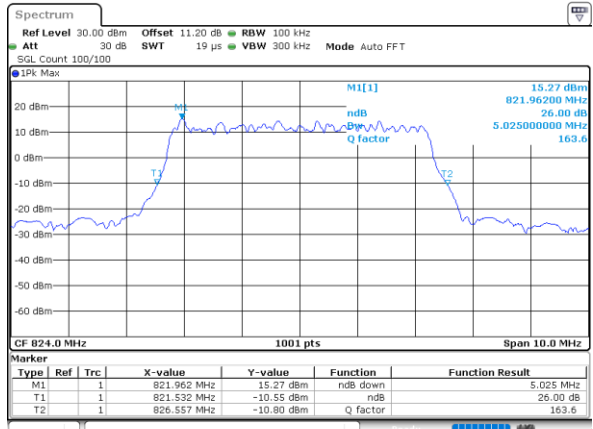
Date: 13.AUG.2022 09:33:02

Middle Channel / 5MHz / QPSK



Date: 13.AUG.2022 09:38:10

Middle Channel / 5MHz / 16QAM

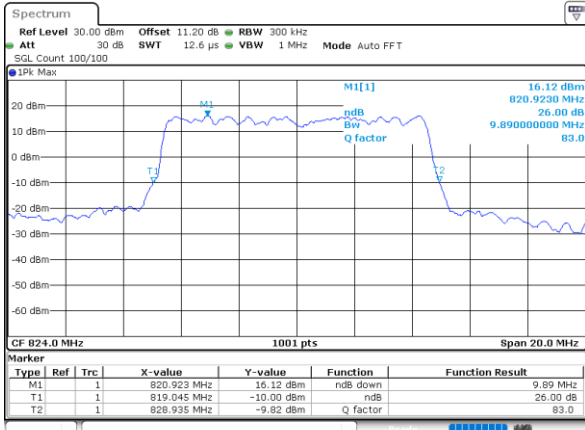


Date: 13.AUG.2022 09:38:39



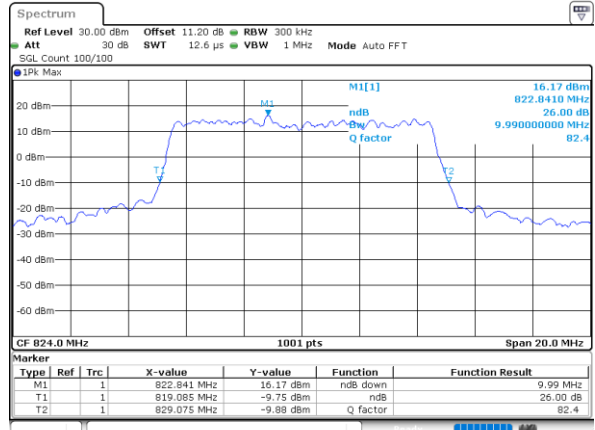
LTE Band 26

Middle Channel / 10MHz / QPSK



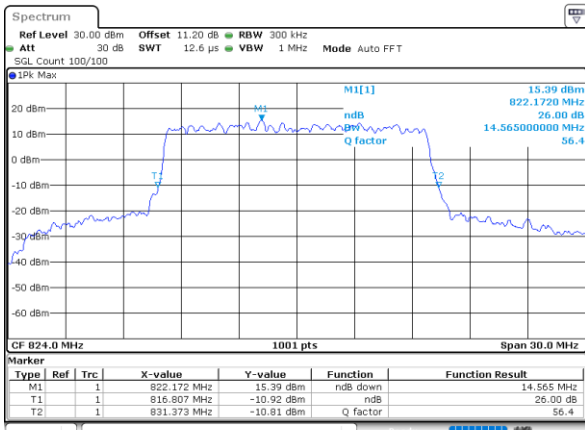
Date: 13.AUG.2022 09:43:46

Middle Channel / 10MHz / 16QAM



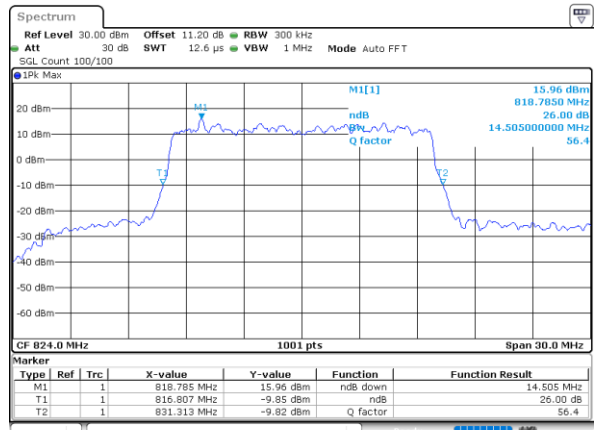
Date: 13.AUG.2022 09:44:16

Middle Channel / 15MHz / QPSK



Date: 13.AUG.2022 09:49:24

Middle Channel / 15MHz / 16QAM

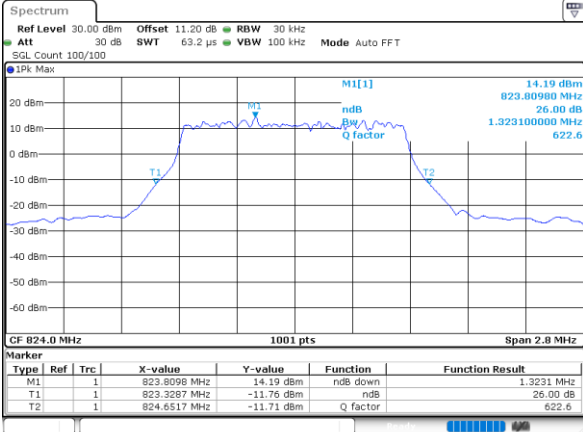


Date: 13.AUG.2022 09:49:53



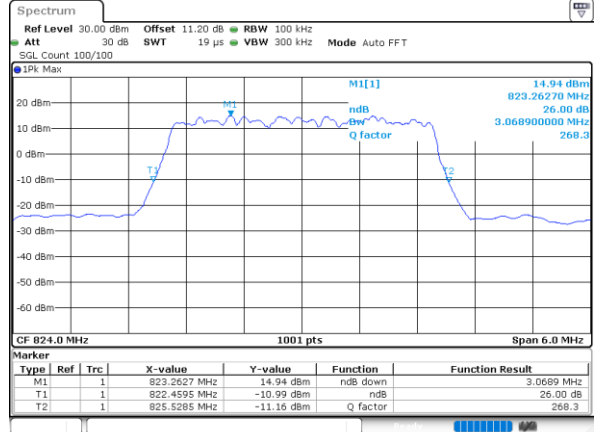
LTE Band 26

Middle Channel / 1.4MHz / 64QAM



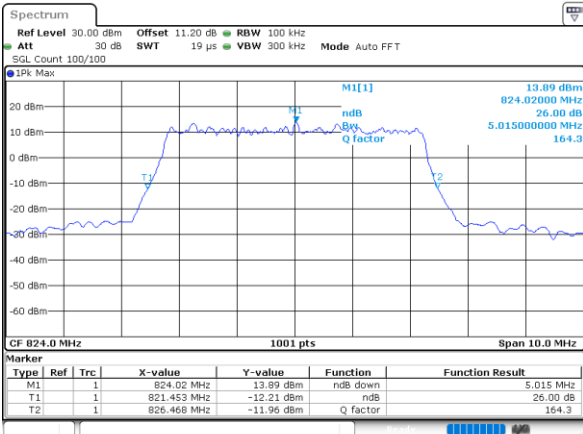
Date: 13.AUG.2022 09:27:55

Middle Channel / 3MHz / 64QAM



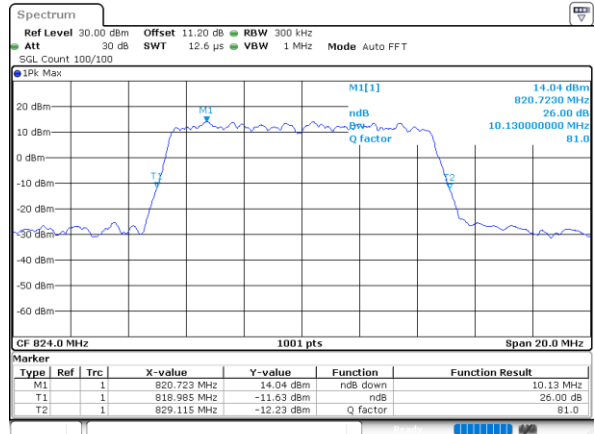
Date: 13.AUG.2022 09:13:132

Middle Channel / 5MHz / 64QAM



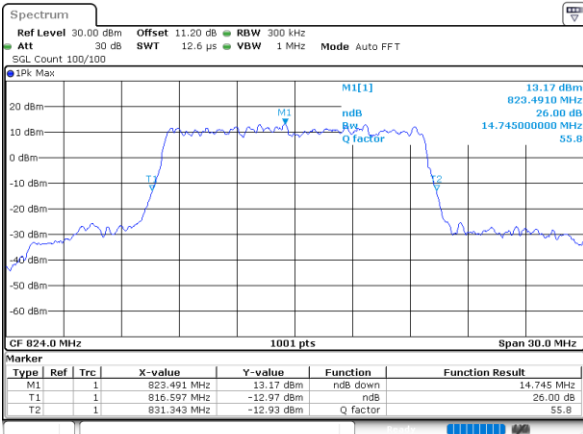
Date: 13.AUG.2022 09:19:09

Middle Channel / 10MHz / 64QAM



Date: 13.AUG.2022 09:44:45

Middle Channel / 15MHz / 64QAM



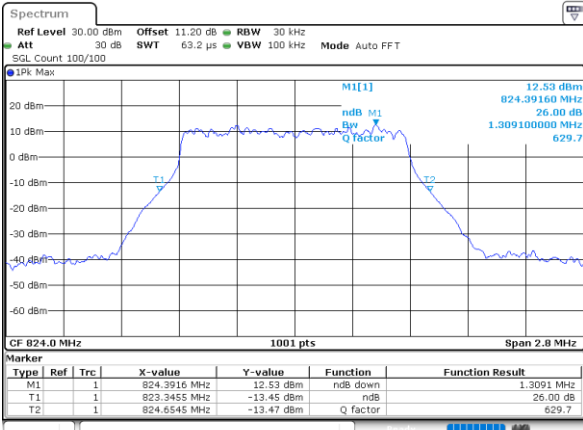
Date: 13.AUG.2022 09:50:23

N/A



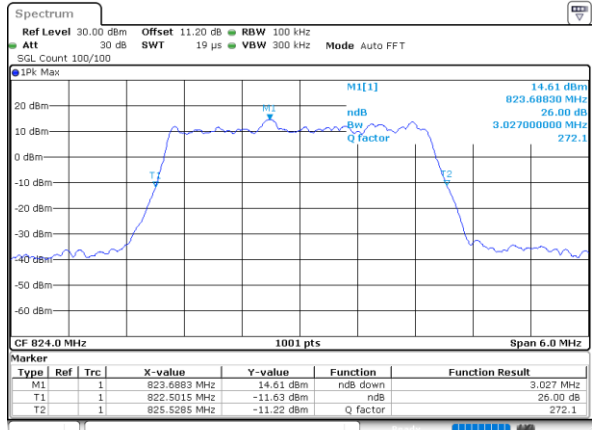
LTE Band 26

Middle Channel / 1.4MHz / 256QAM



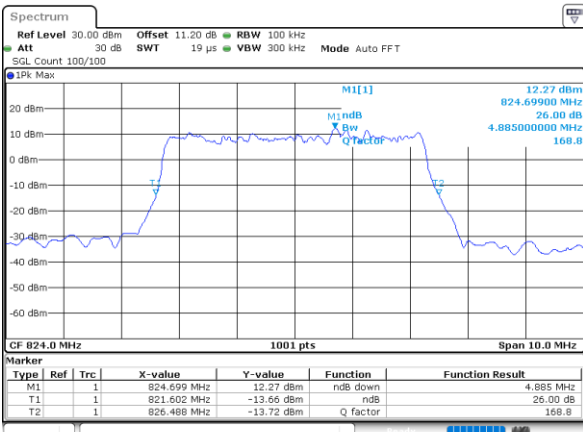
Date: 13.AUG.2022 09:28:24

Middle Channel / 3MHz / 256QAM



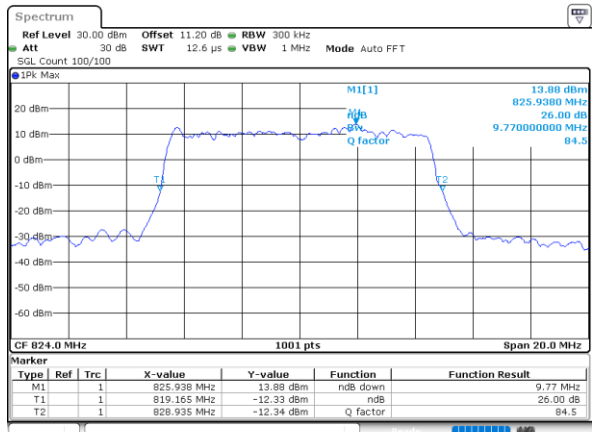
Date: 13.AUG.2022 09:34:01

Middle Channel / 5MHz / 256QAM



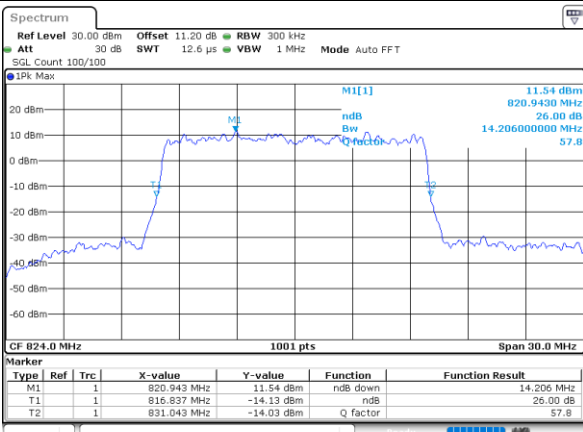
Date: 13.AUG.2022 09:39:38

Middle Channel / 10MHz / 256QAM



Date: 13.AUG.2022 09:45:15

Middle Channel / 15MHz / 256QAM



Date: 13.AUG.2022 09:50:52

N/A



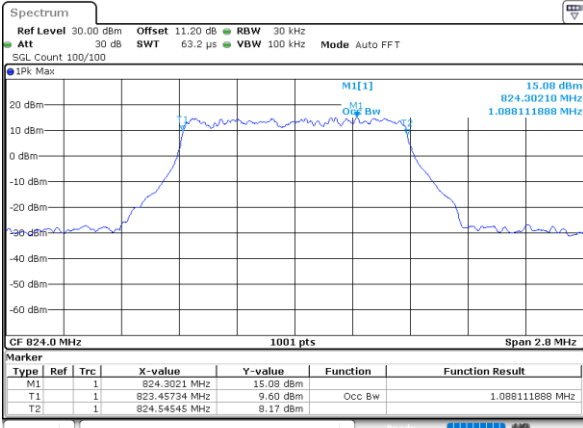
Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.11	2.77	2.73	4.49	4.50	9.01	8.99	13.46	13.46	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.10	1.10	2.73	2.72	4.48	4.51	8.97	9.03	13.43	13.40	-	-



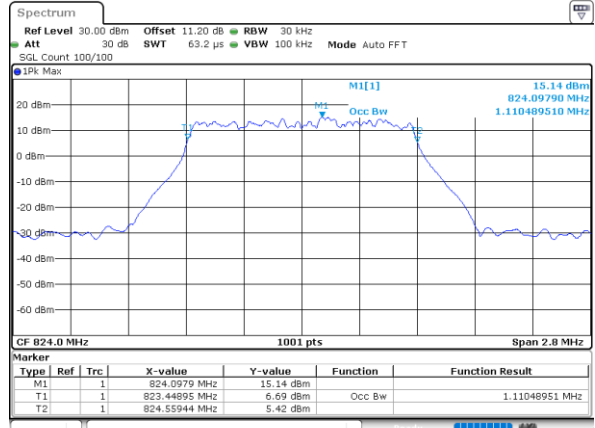
LTE Band 26

Middle Channel / 1.4MHz / QPSK



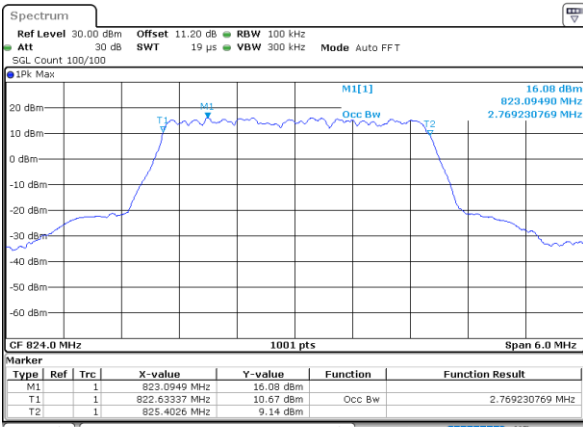
Date: 13.AUG.2022 09:24:54

Middle Channel / 1.4MHz / 16QAM



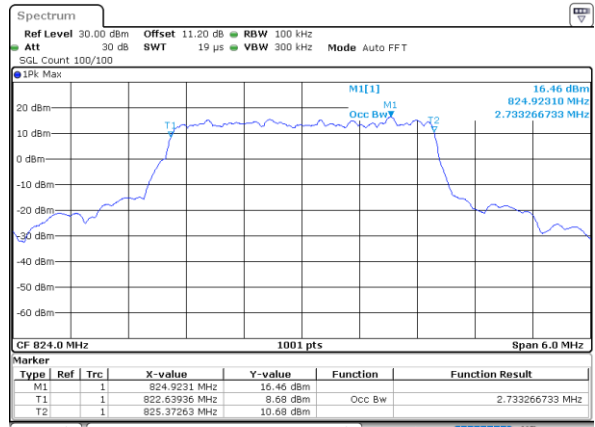
Date: 13.AUG.2022 09:25:24

Middle Channel / 3MHz / QPSK



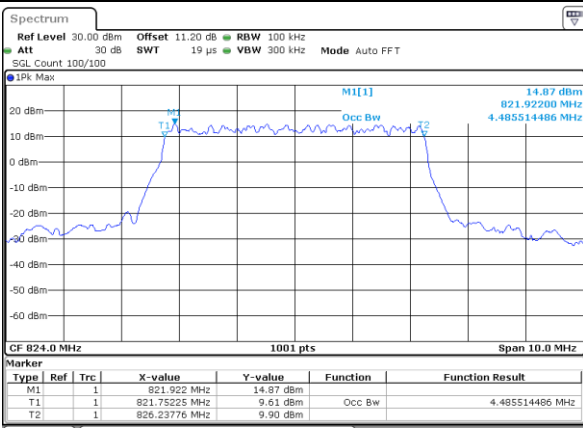
Date: 13.AUG.2022 09:38:52

Middle Channel / 3MHz / 16QAM



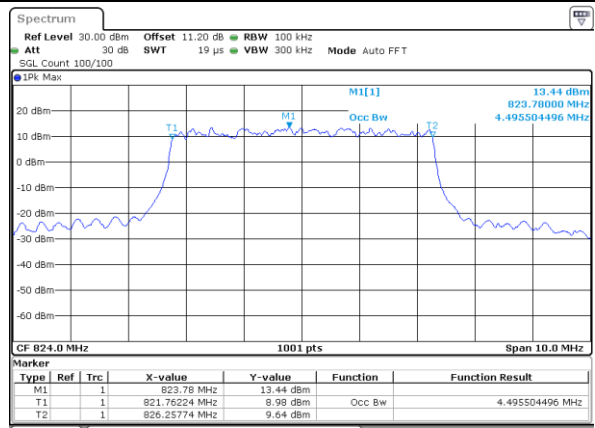
Date: 13.AUG.2022 09:31:02

Middle Channel / 5MHz / QPSK



Date: 13.AUG.2022 09:36:09

Middle Channel / 5MHz / 16QAM

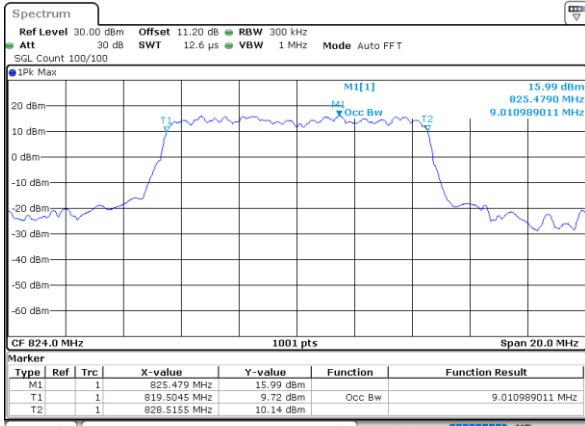


Date: 13.AUG.2022 09:36:38



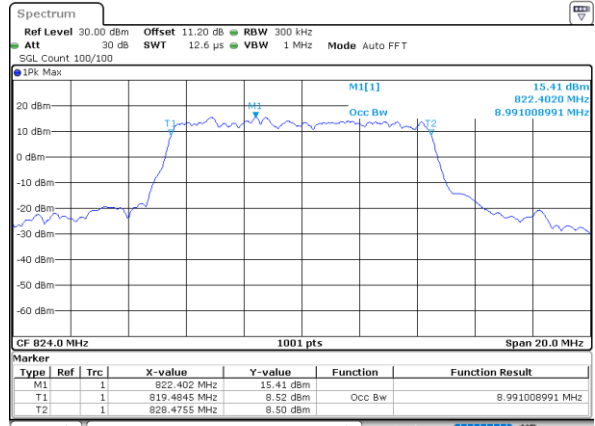
LTE Band 26

Middle Channel / 10MHz / QPSK



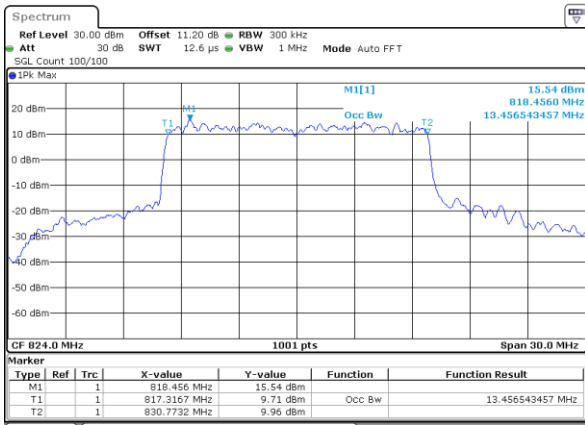
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Middle Channel / 10MHz / 16QAM



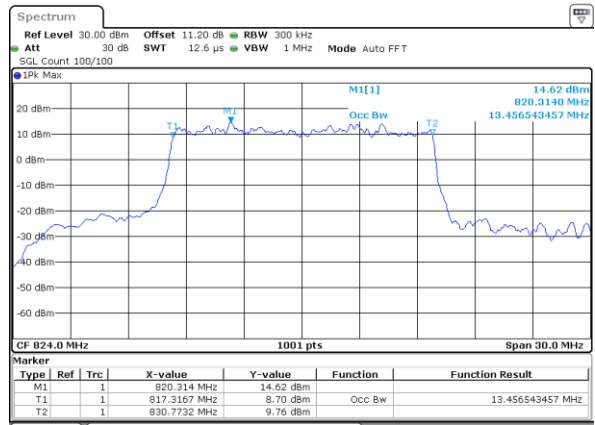
Date: 13.AUG.2022 09:42:15

Middle Channel / 15MHz / QPSK



Date: 13.AUG.2022 09:47:23

Middle Channel / 15MHz / 16QAM



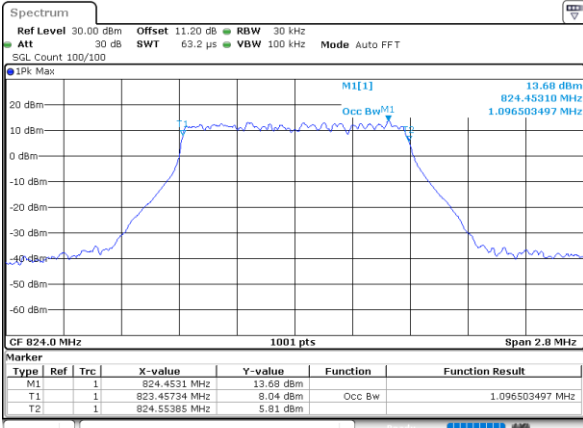
Date: 13.AUG.2022 09:47:53



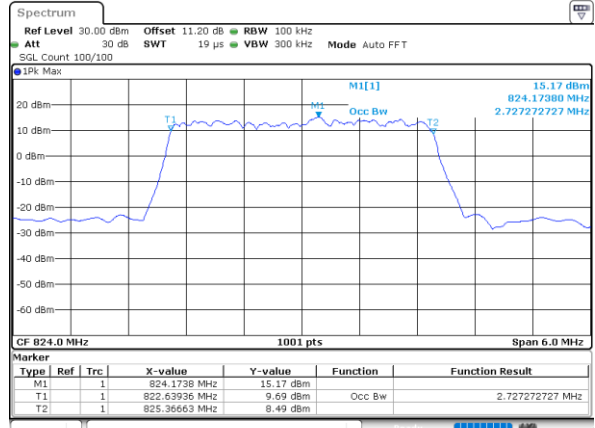


LTE Band 26

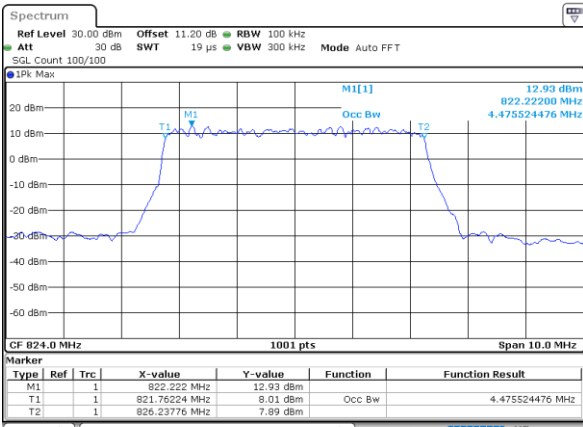
Middle Channel / 1.4MHz / 64QAM



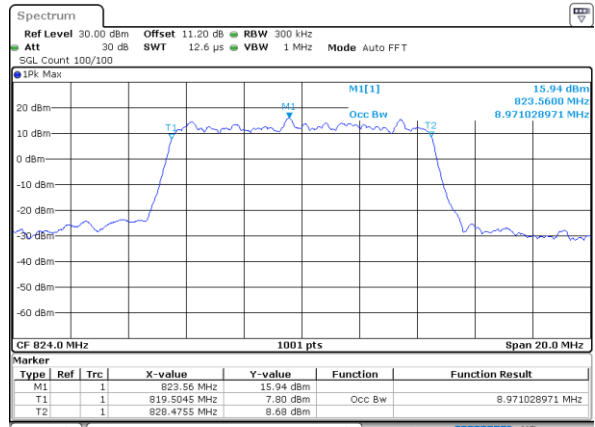
Middle Channel / 3MHz / 64QAM



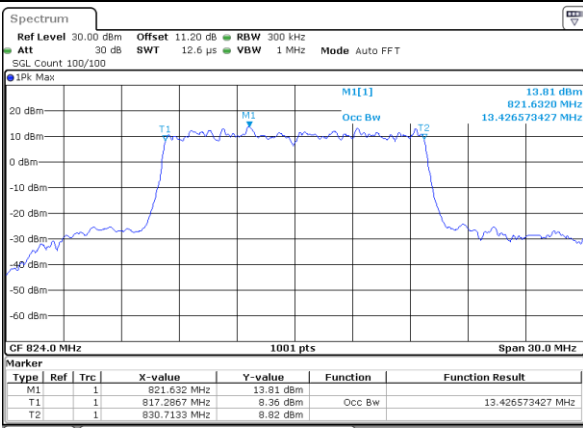
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM

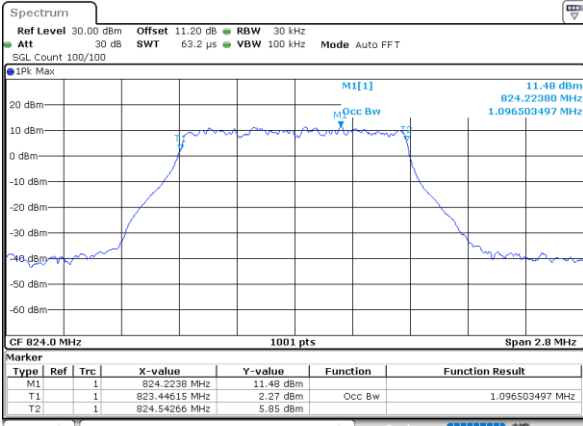


N/A

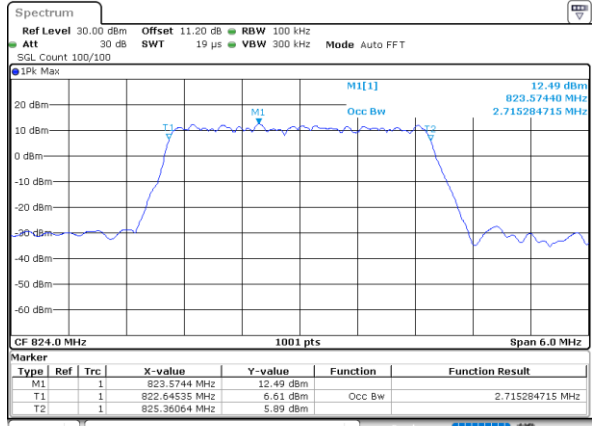


LTE Band 26

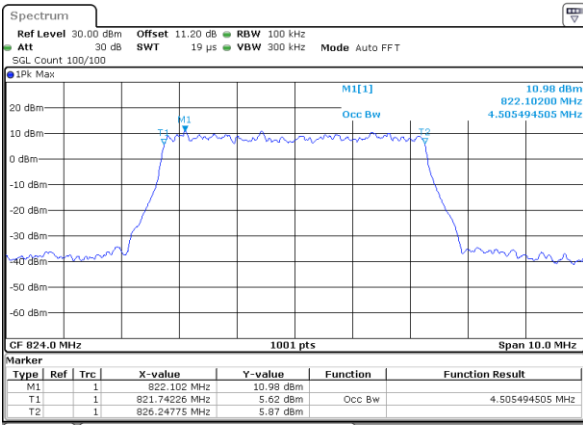
Middle Channel / 1.4MHz / 256QAM



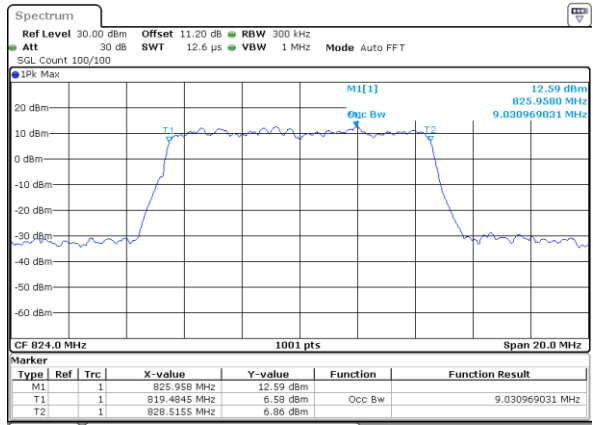
Middle Channel / 3MHz / 256QAM



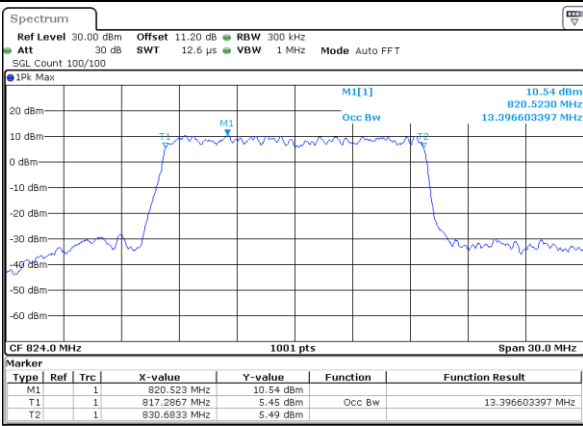
Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM



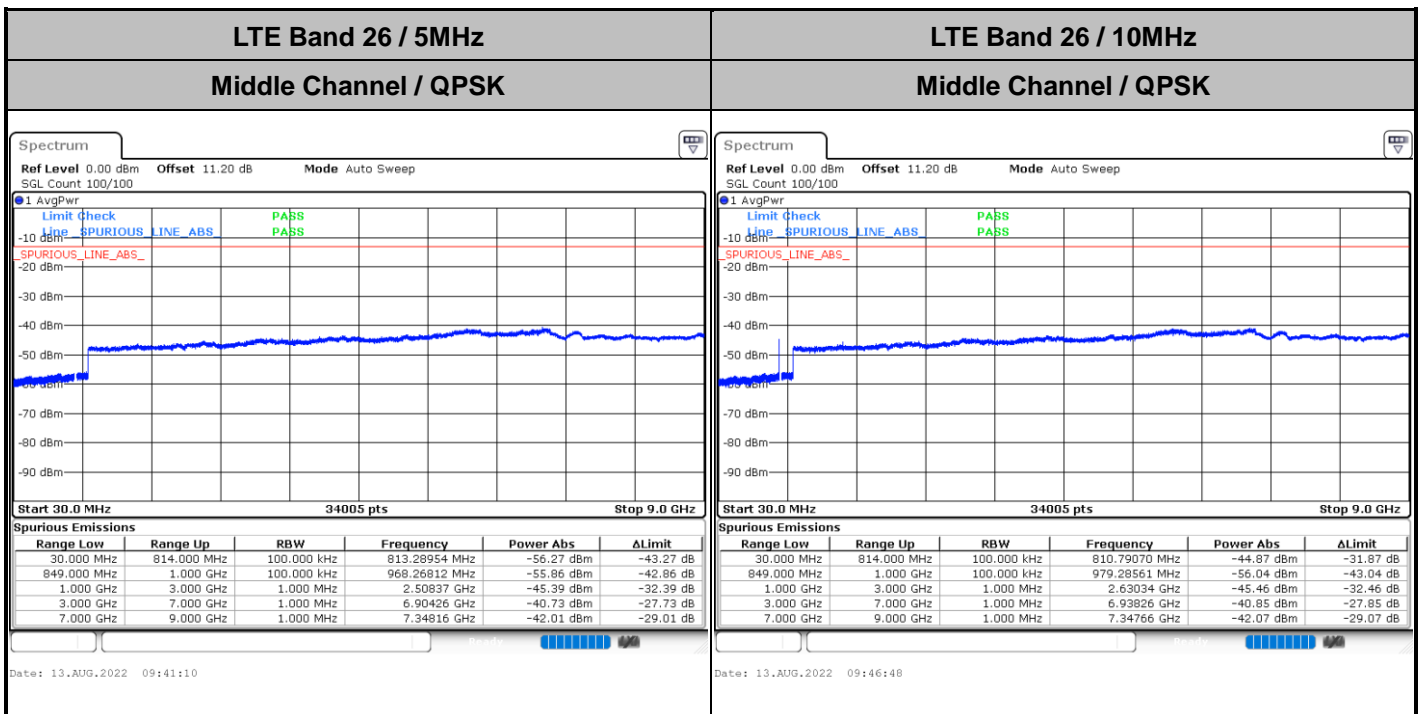
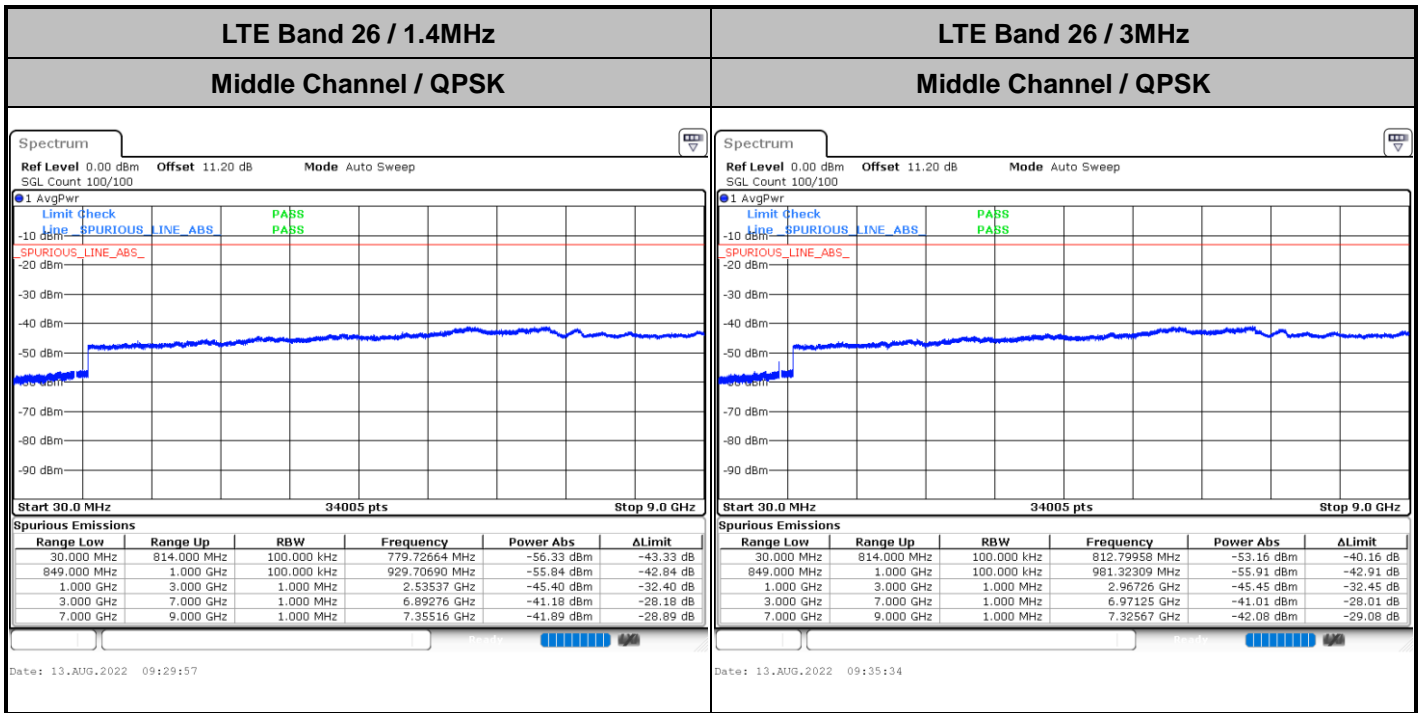
Middle Channel /15MHz / 256QAM

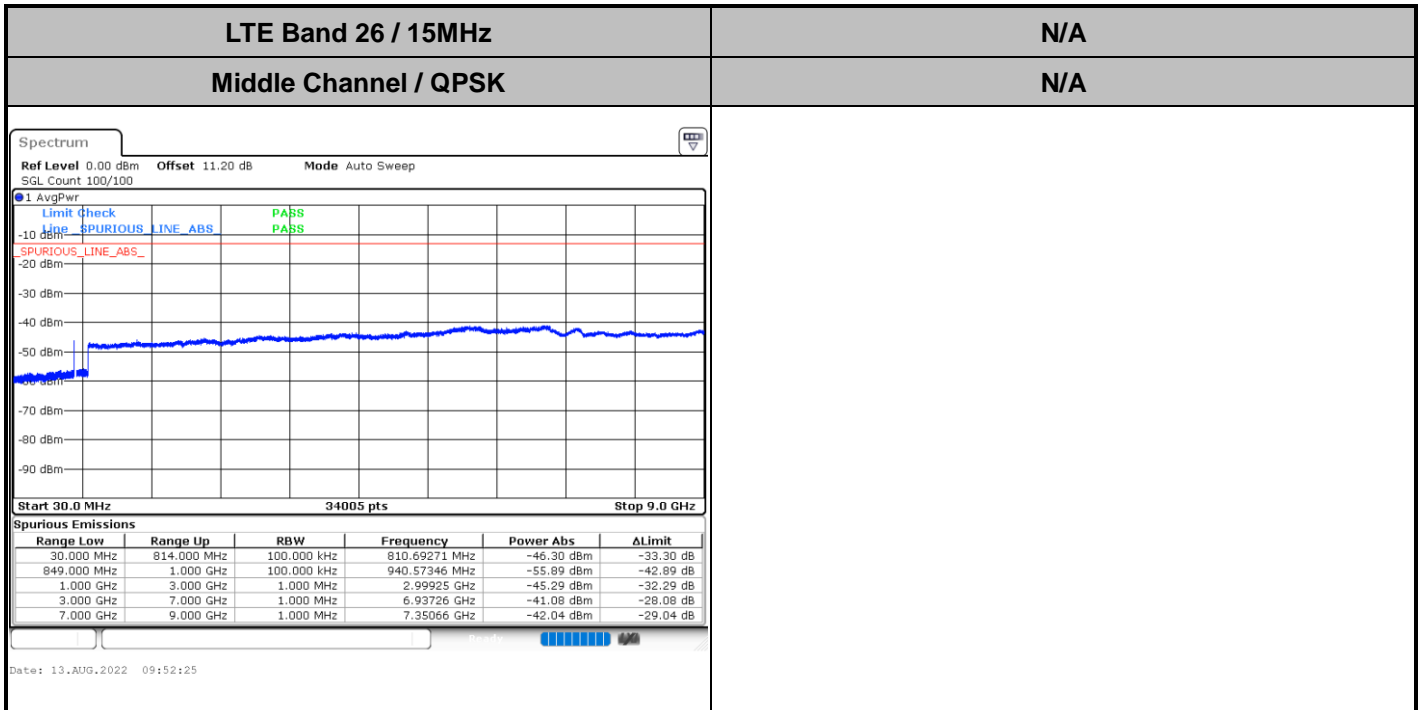


N/A



# Emission masks – Out of band emissions







### Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0099	PASS
40	Normal Voltage	0.0059	
30	Normal Voltage	0.0057	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0073	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0067	
-30	Normal Voltage	0.0051	
20	Maximum Voltage	0.0070	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0077	

**Note:**

- 1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0067	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0057	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0052	
-20	Normal Voltage	0.0050	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0049	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0050	

**Note:**

- 1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### LTE Band 26

LTE Band 26 / 5MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1628	-60.05	-13	-47.05	-75.77	-60.89	6.31	9.30	H
	2443	-58.66	-13	-45.66	-76.15	-58.86	7.87	10.22	H
	3257	-56.33	-13	-43.33	-76.21	-56.92	9.07	11.81	H
									H
									H
									H
	1628	-60.06	-13	-47.06	-75.78	-60.90	6.31	9.30	V
	2443	-59.03	-13	-46.03	-76.37	-59.23	7.87	10.22	V
	3257	-56.32	-13	-43.32	-76.33	-56.91	9.07	11.81	V
									V
									V
									V
Middle	1633	-59.77	-13	-46.77	-75.55	-60.62	6.32	9.32	H
	2450	-58.73	-13	-45.73	-76.18	-58.92	7.91	10.25	H
	3267	-56.47	-13	-43.47	-76.36	-57.10	9.09	11.87	H
									H
									H
									H
	1633	-59.73	-13	-46.73	-75.52	-60.58	6.32	9.32	V
	2450	-59.13	-13	-46.13	-76.43	-59.32	7.91	10.25	V
	3267	-56.63	-13	-43.63	-76.64	-57.26	9.09	11.87	V
									V
									V
									V



Highest	1638	-59.82	-13	-46.82	-75.66	-60.67	6.33	9.33	H
	2458	-58.97	-13	-45.97	-76.41	-59.16	7.95	10.29	H
	3277	-56.64	-13	-43.64	-76.54	-57.30	9.11	11.92	H
									H
									H
									H
	1638	-59.88	-13	-46.88	-75.72	-60.73	6.33	9.33	V
	2458	-59.32	-13	-46.32	-76.6	-59.51	7.95	10.29	V
	3277	-56.61	-13	-43.61	-76.62	-57.27	9.11	11.92	V
									V
									V
									V

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