



Frequency Stability

Test Conditions		LTE Band 7C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0037	PASS
40	Normal Voltage	0.0051	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0017	

Note:

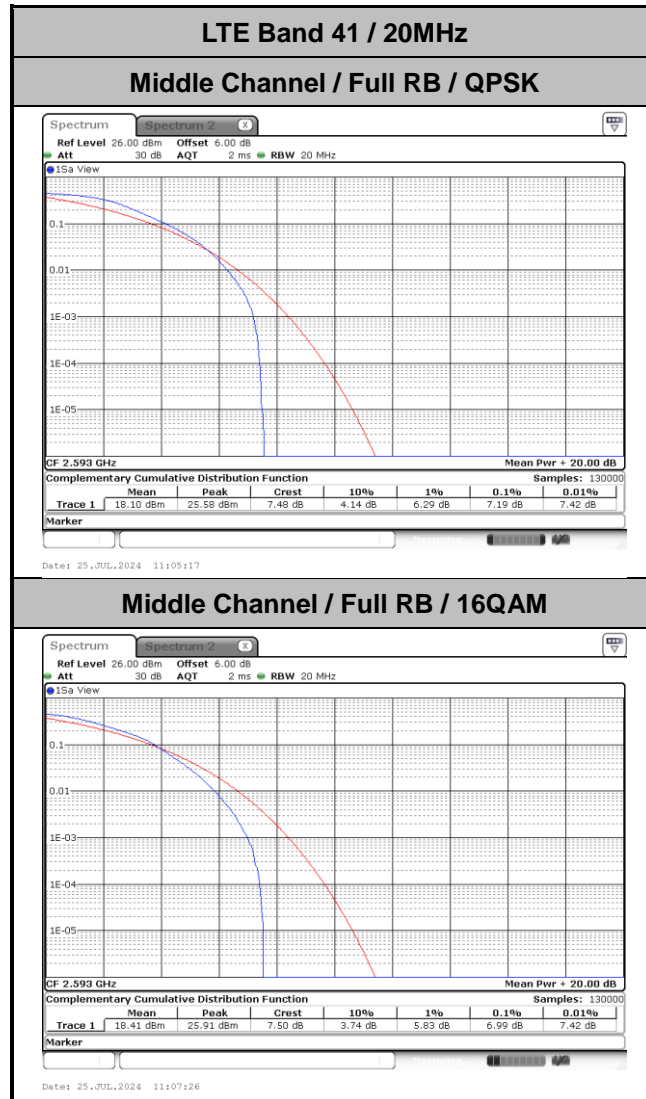
1. Normal Voltage =3.91 V. ; Minimum Voltage =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

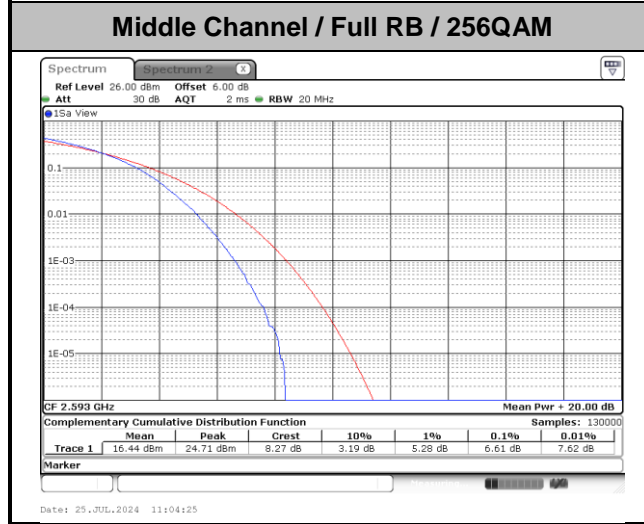
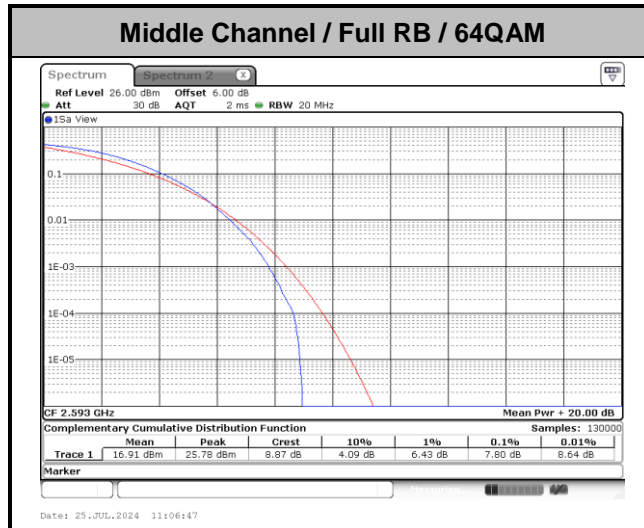


LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	7.19	6.99	7.80	6.61	PASS

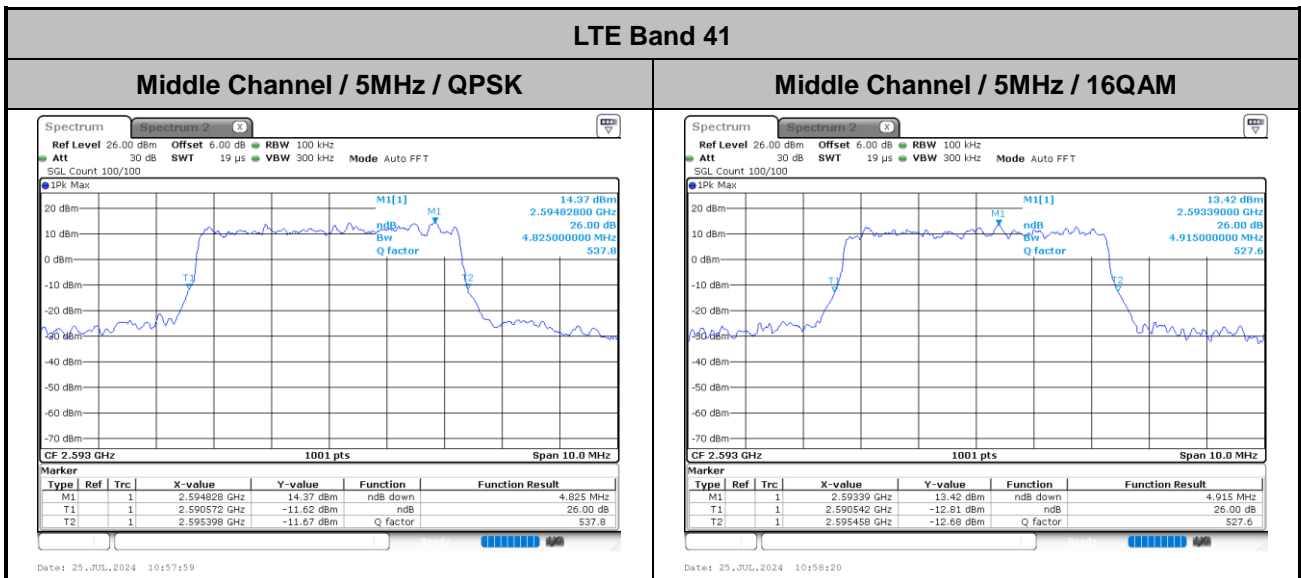






26dB Bandwidth

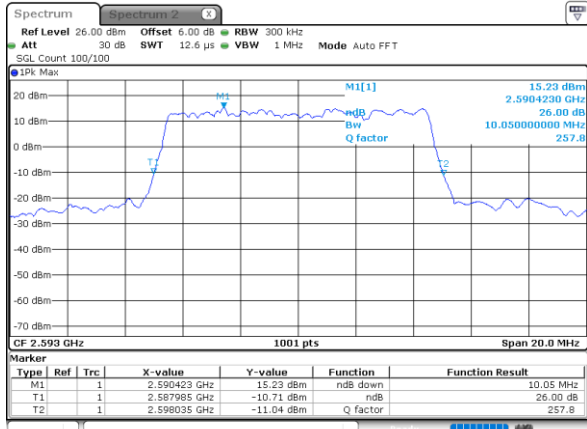
LTE Band 41 : 26dB BW(MHz)		
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.83	4.92
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	10.05	10.05
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.39	14.72
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.90	18.62





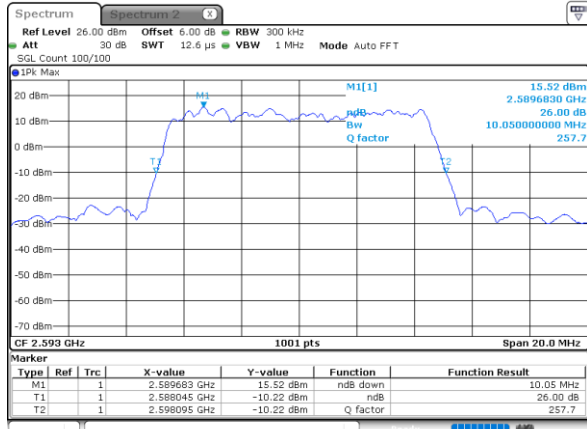
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 25_JUL_2024 10:59:23

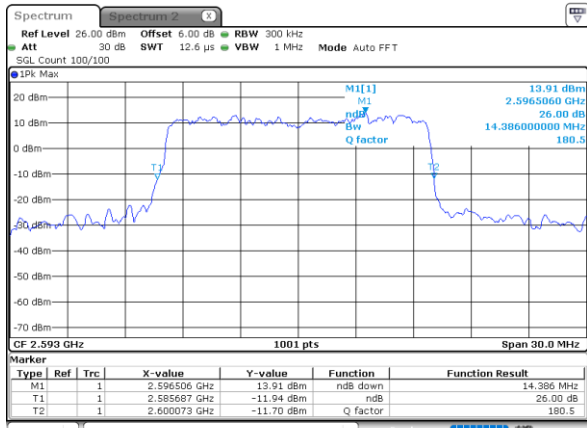
Middle Channel / 10MHz / 16QAM



Date: 25_JUL_2024 10:59:44

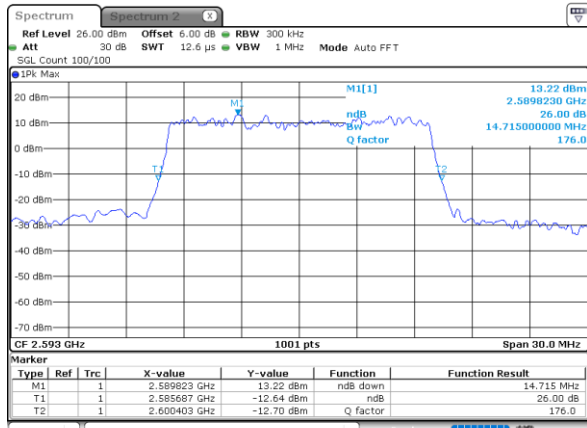
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 25_JUL_2024 11:00:48

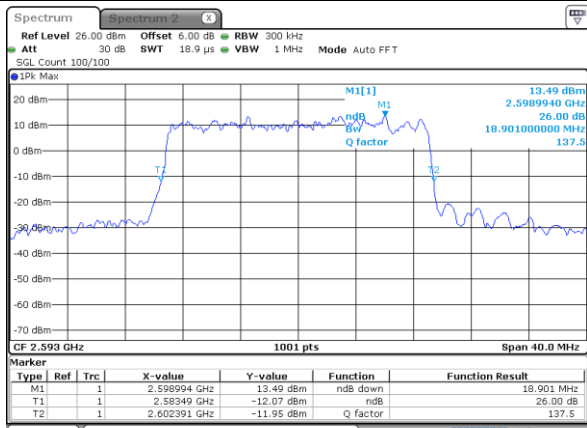
Middle Channel / 15MHz / 16QAM



Date: 25_JUL_2024 11:01:09

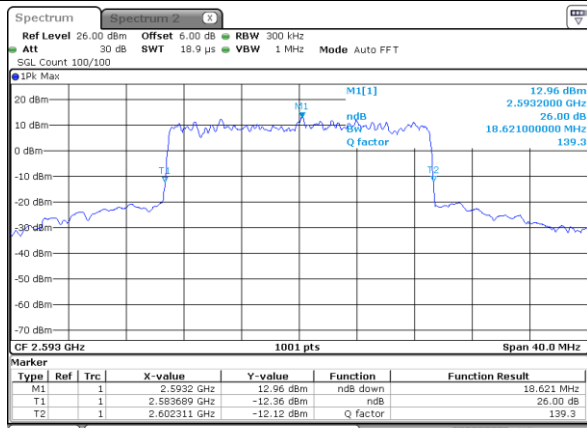
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 25_JUL_2024 11:02:13

Middle Channel / 20MHz / 16QAM

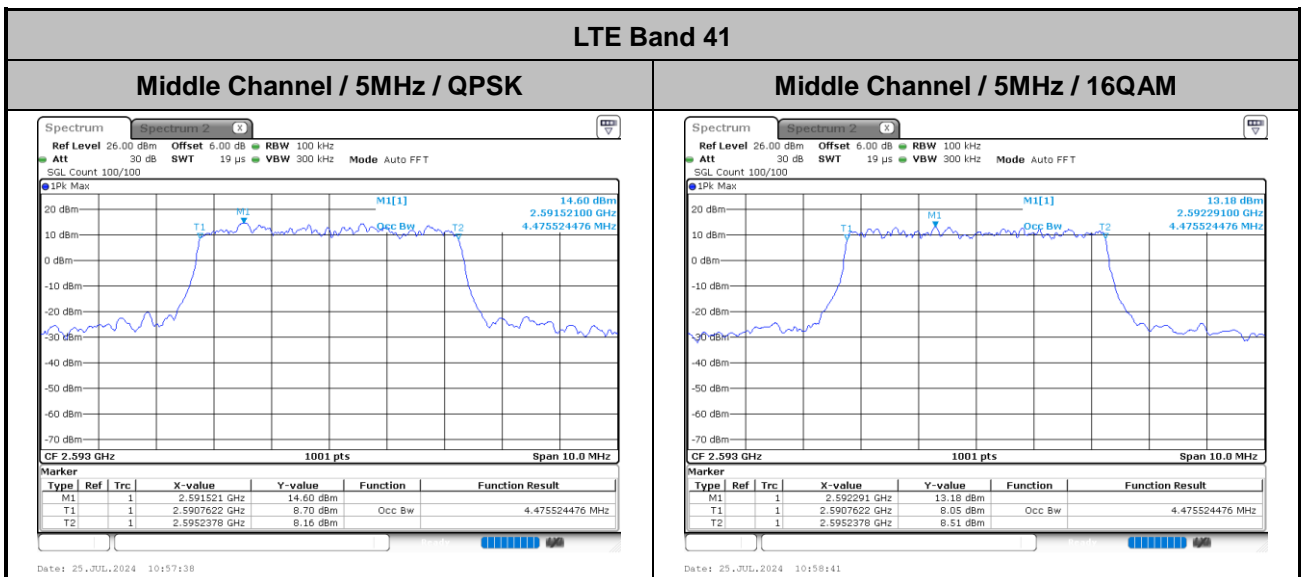


Date: 25_JUL_2024 11:02:34



Occupied Bandwidth

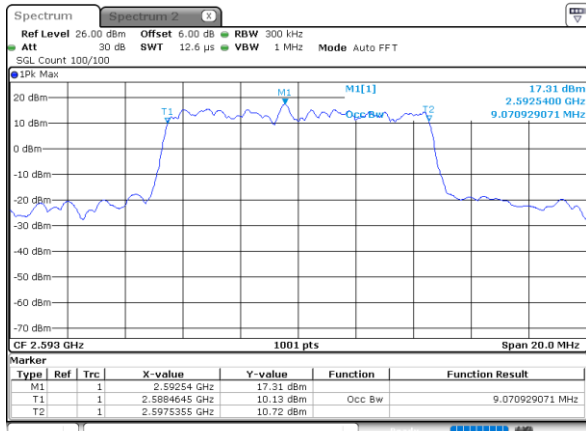
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.48
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.11
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.46	13.52
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.86	17.94





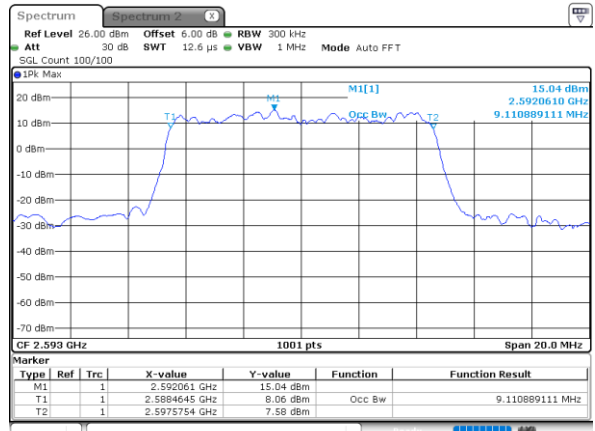
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 25_JUL_2024 10:59:02

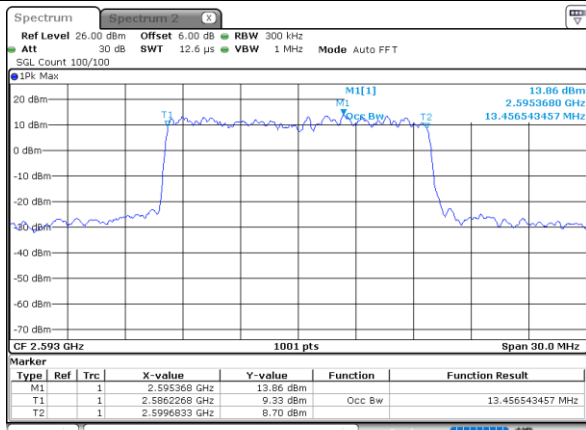
Middle Channel / 10MHz / 16QAM



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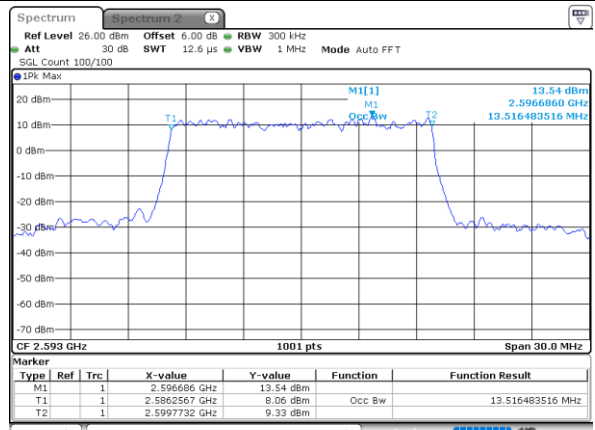
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 25_JUL_2024 11:00:27

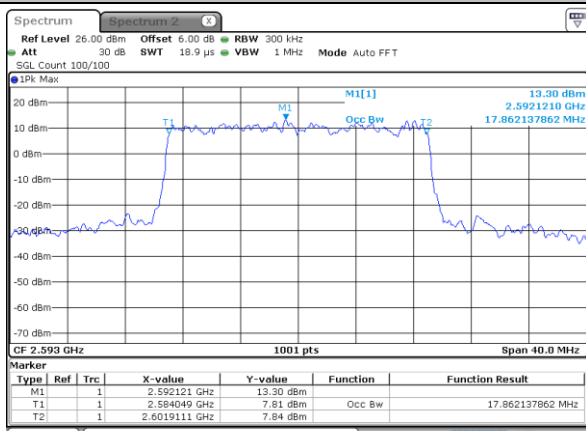
Middle Channel / 15MHz / 16QAM



Date: 25_JUL_2024 11:01:30

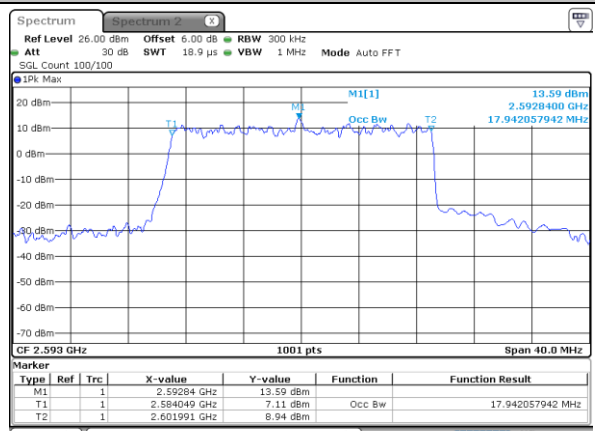
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 25_JUL_2024 11:01:52

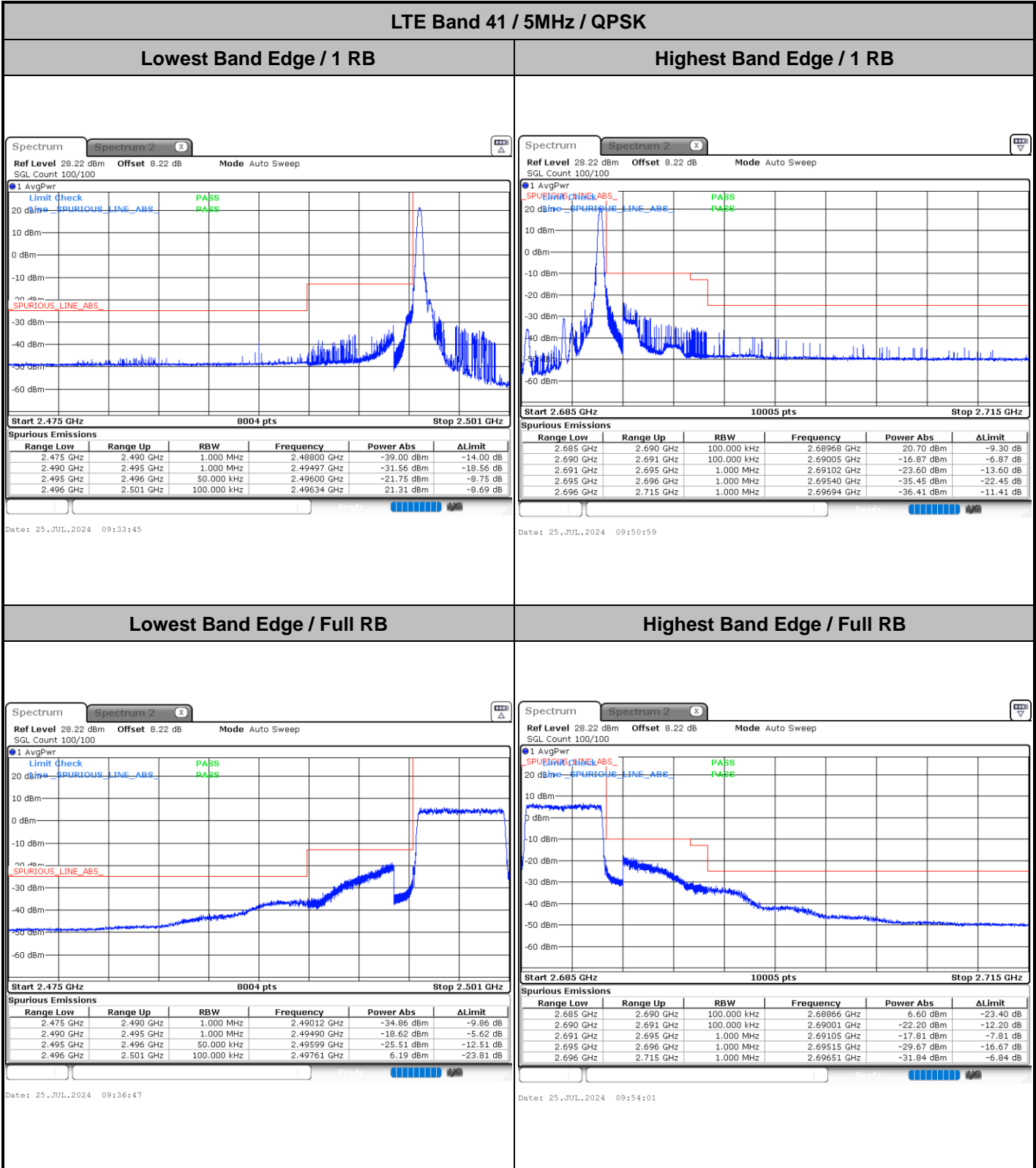
Middle Channel / 20MHz / 16QAM



Date: 25_JUL_2024 11:02:55



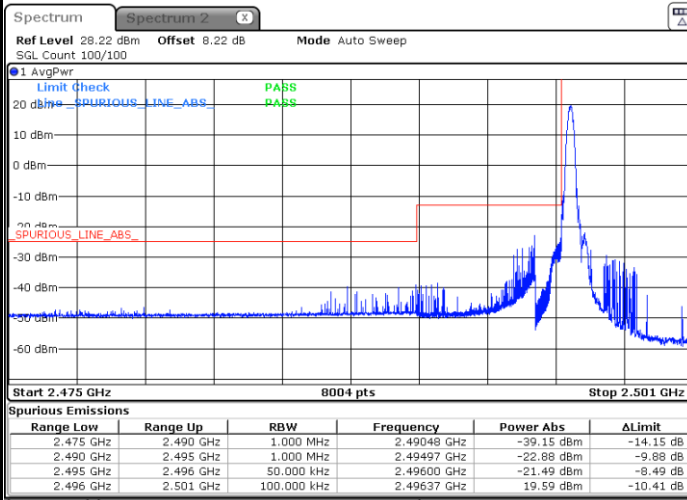
Conducted Band Edge





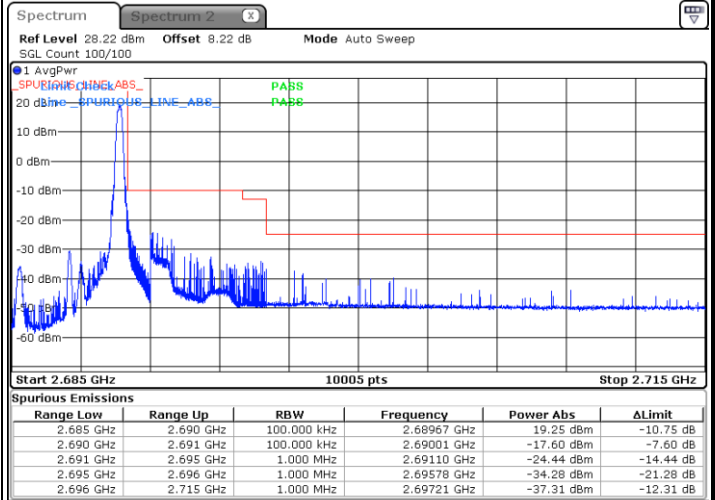
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



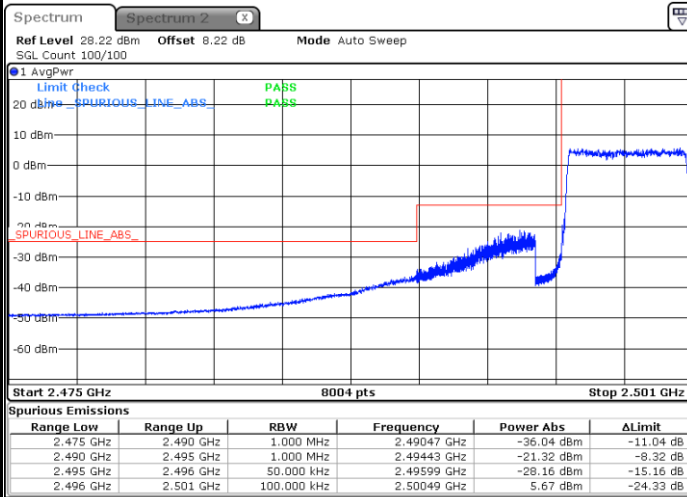
Date: 25.JUL.2024 09:34:30

Highest Band Edge / 1 RB



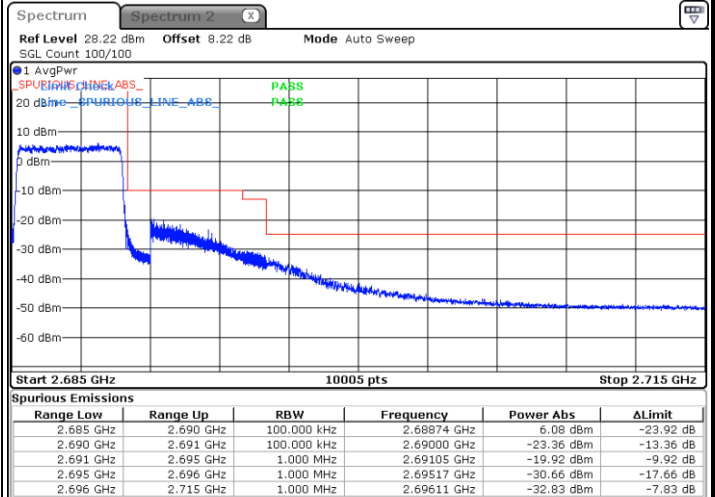
Date: 25.JUL.2024 09:51:43

Lowest Band Edge / Full RB



Date: 25.JUL.2024 09:47:24

Highest Band Edge / Full RB

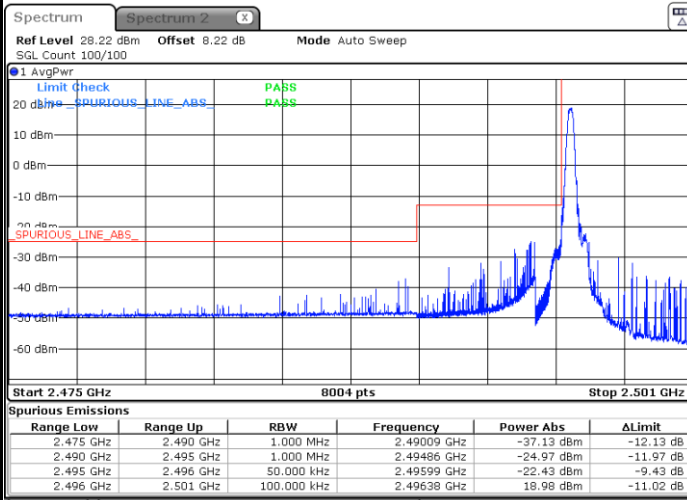


Date: 25.JUL.2024 09:56:19



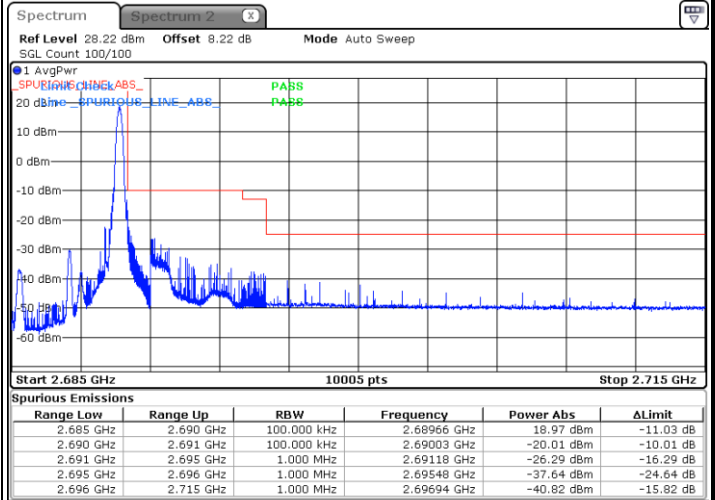
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



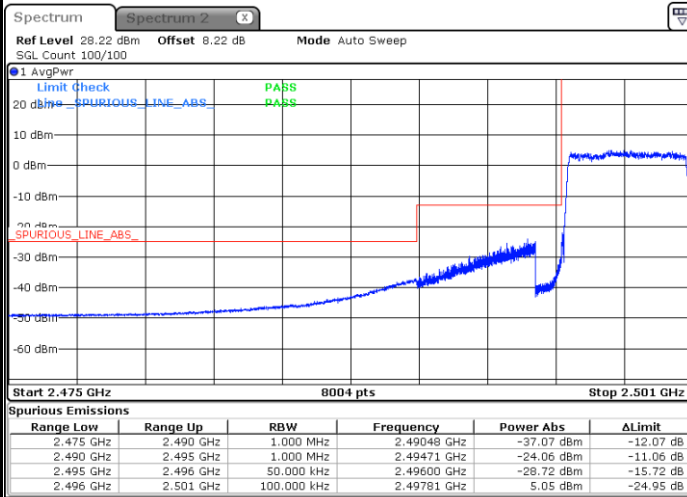
Date: 25_JUL.2024 09:35:16

Highest Band Edge / 1 RB



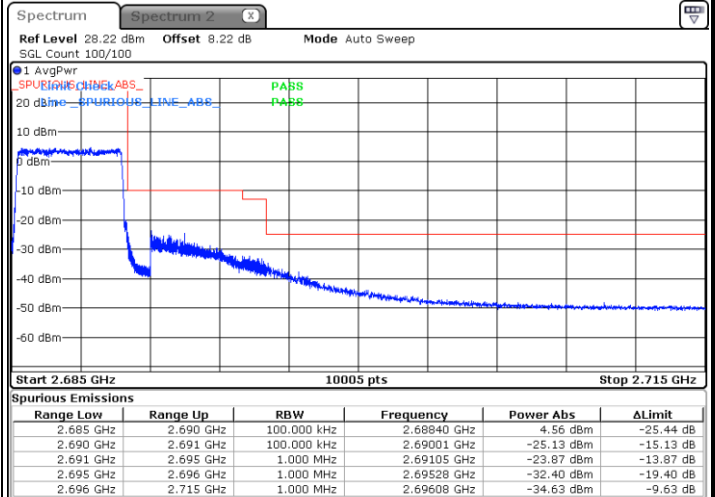
Date: 25_JUL.2024 09:52:28

Lowest Band Edge / Full RB



Date: 25_JUL.2024 09:46:39

Highest Band Edge / Full RB

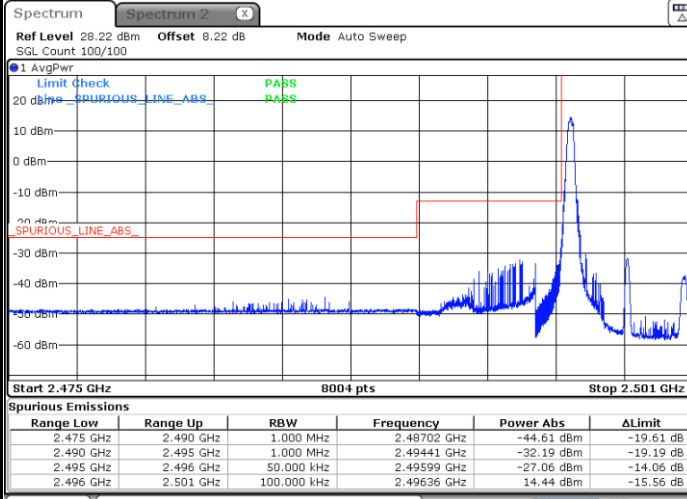


Date: 25_JUL.2024 09:55:34



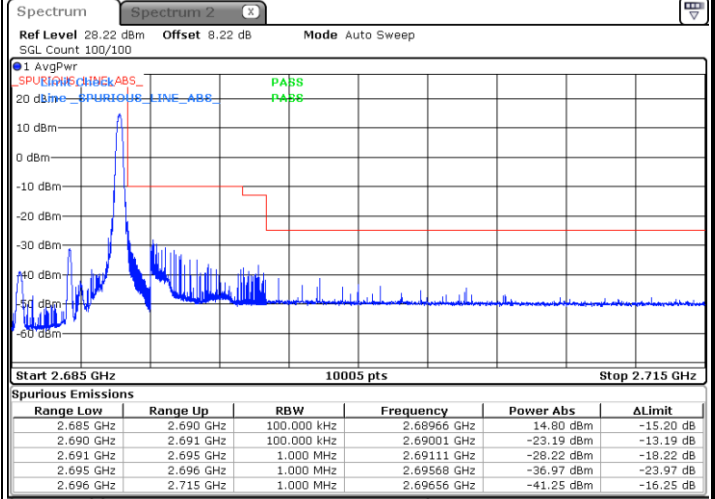
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



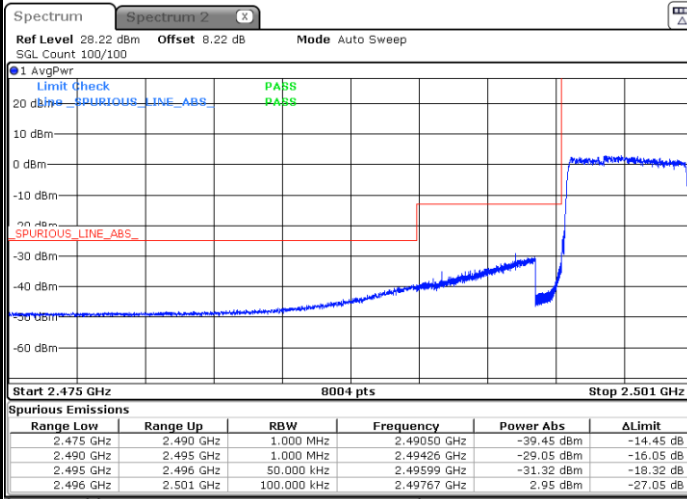
Date: 25.JUL.2024 09:36:01

Highest Band Edge / 1 RB



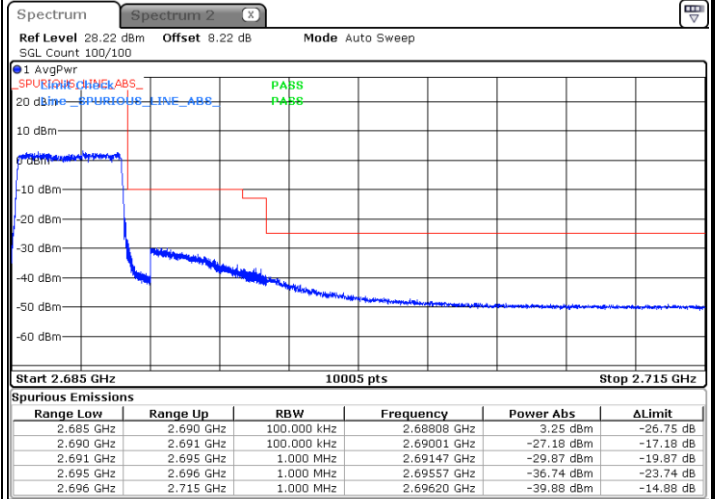
Date: 25.JUL.2024 09:53:13

Lowest Band Edge / Full RB



Date: 25.JUL.2024 09:37:32

Highest Band Edge / Full RB

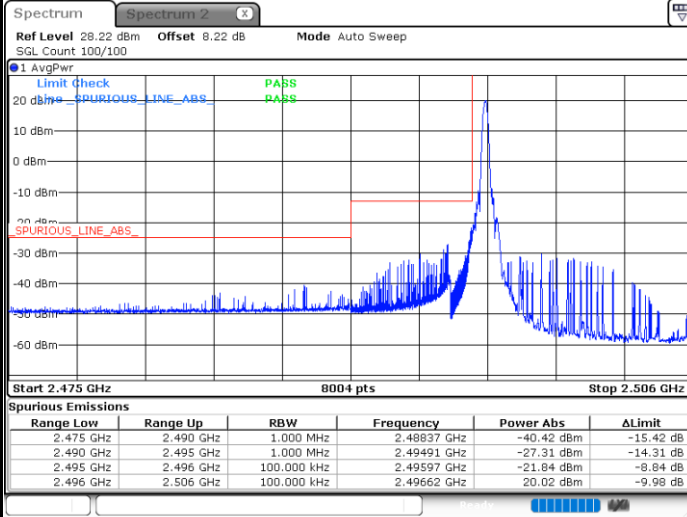


Date: 25.JUL.2024 09:54:46



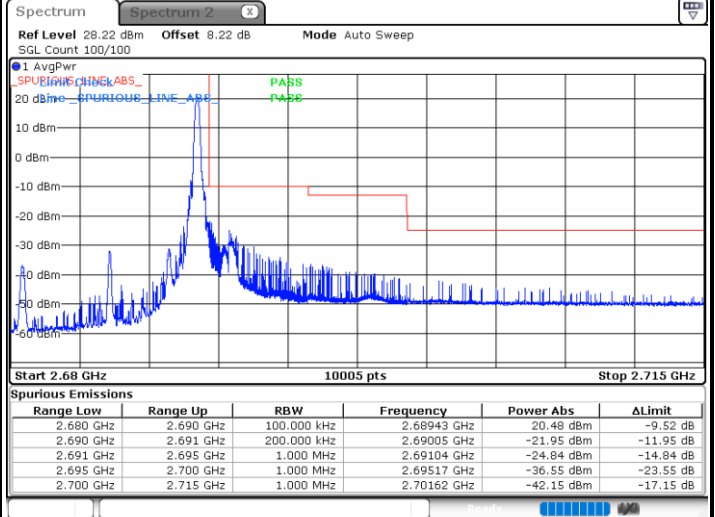
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



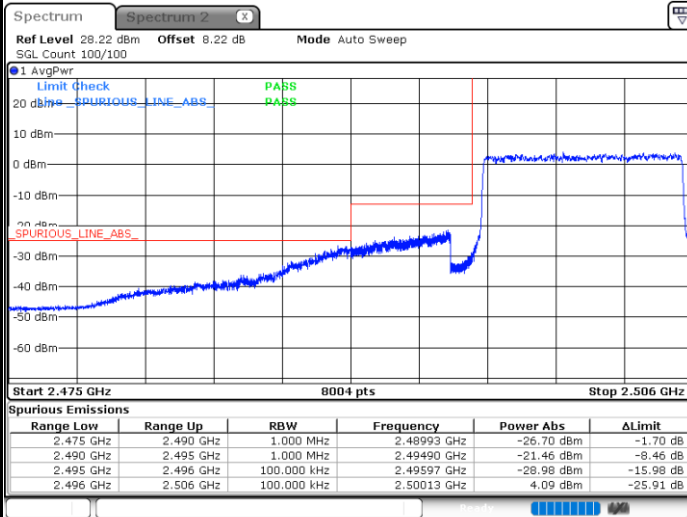
Date: 25.JUL.2024 09:58:30

Highest Band Edge / 1 RB



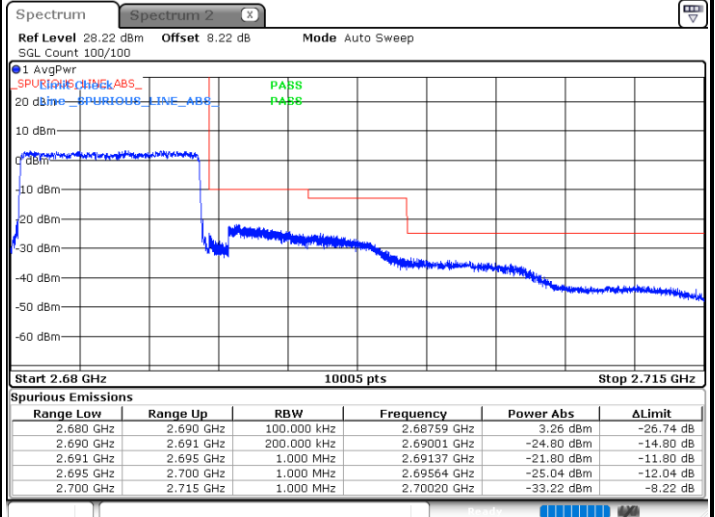
Date: 25.JUL.2024 10:09:14

Lowest Band Edge / Full RB



Date: 25.JUL.2024 10:02:04

Highest Band Edge / Full RB

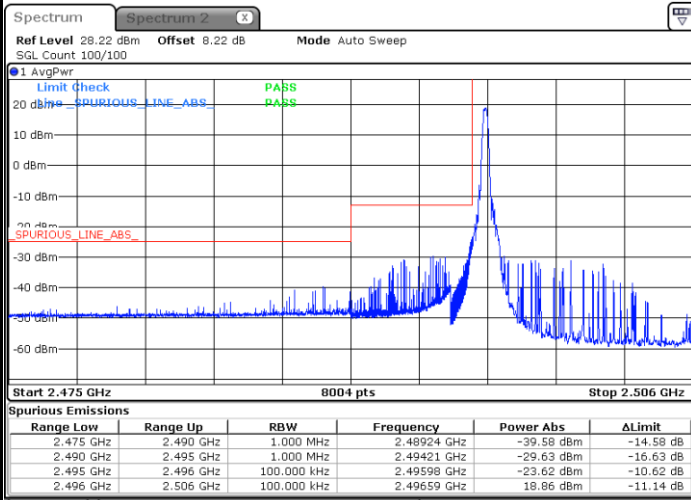


Date: 25.JUL.2024 10:12:17



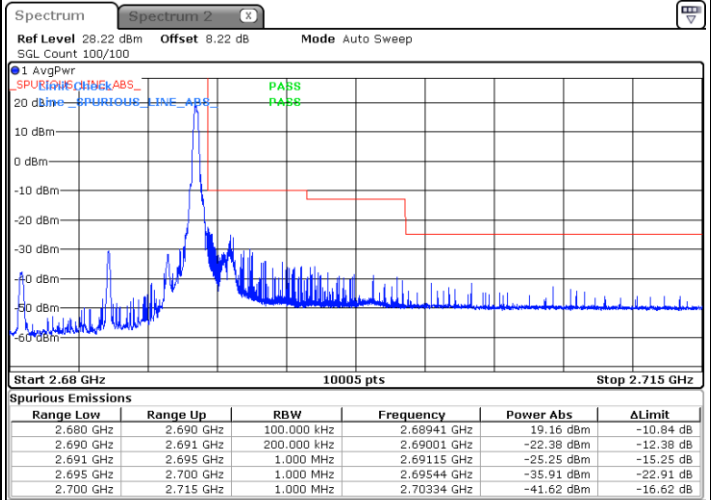
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



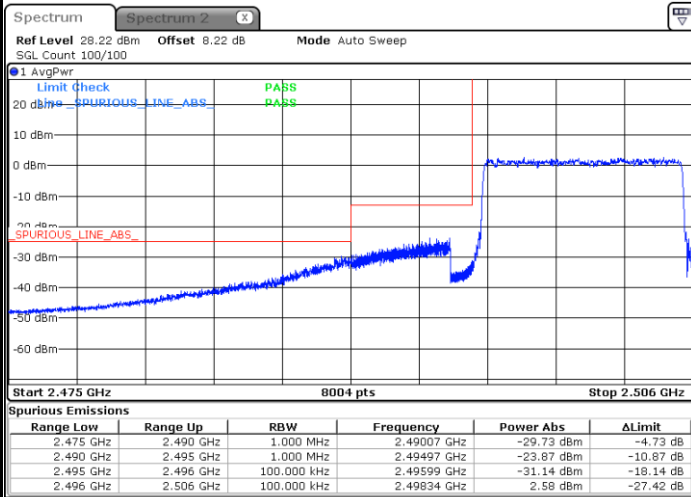
Date: 25.JUL.2024 09:59:16

Highest Band Edge / 1 RB



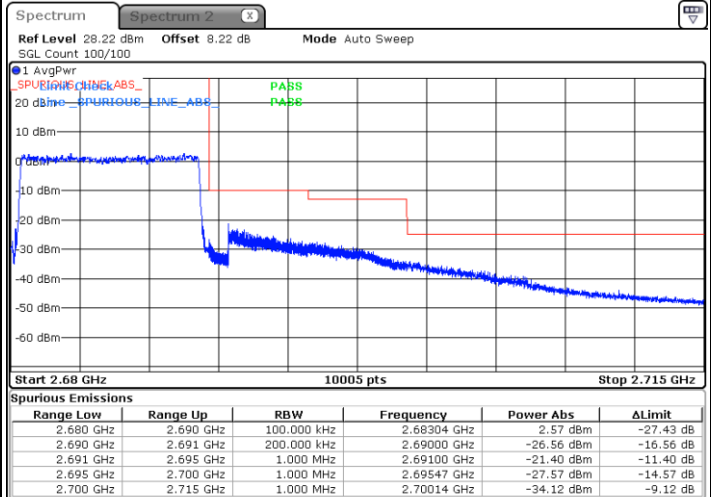
Date: 25.JUL.2024 10:09:59

Lowest Band Edge / Full RB



Date: 25.JUL.2024 10:02:49

Highest Band Edge / Full RB

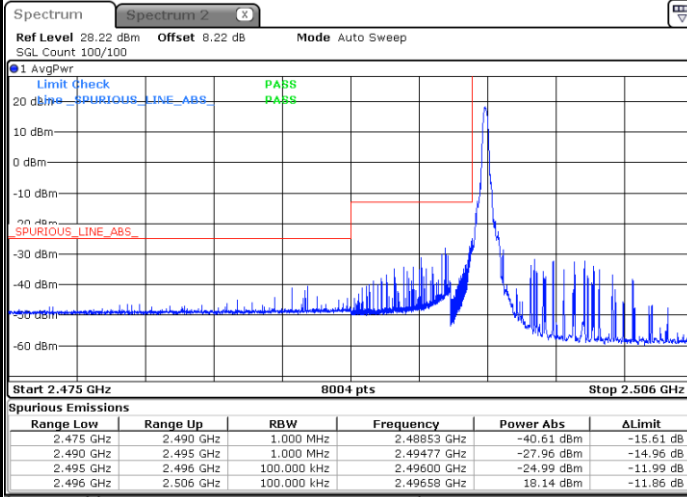


Date: 25.JUL.2024 10:13:02



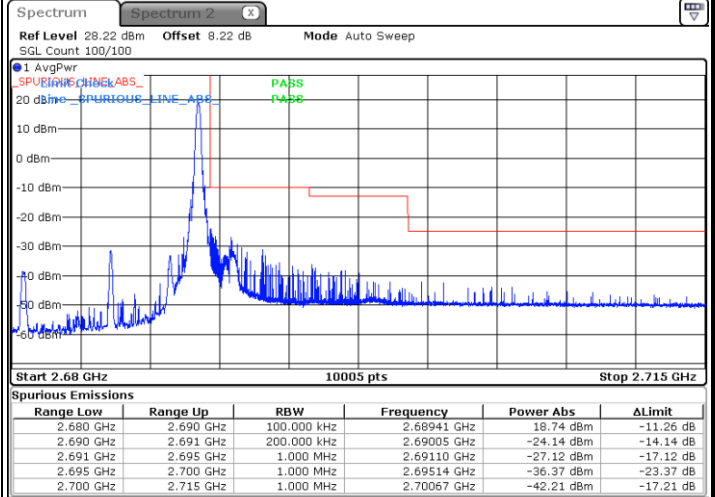
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



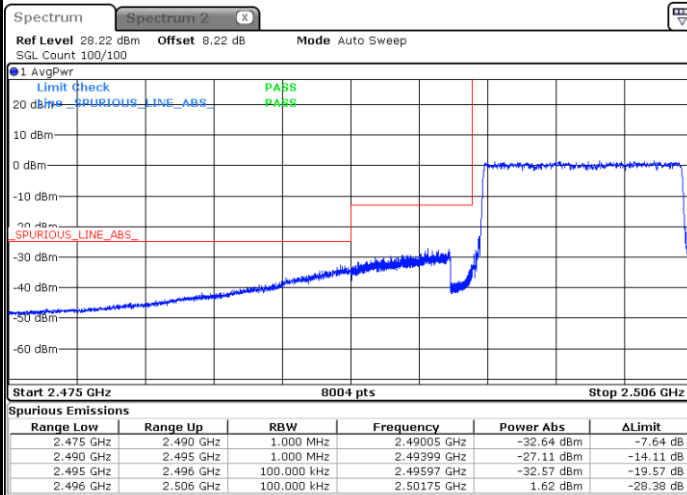
Date: 25.JUL.2024 10:00:01

Highest Band Edge / 1 RB



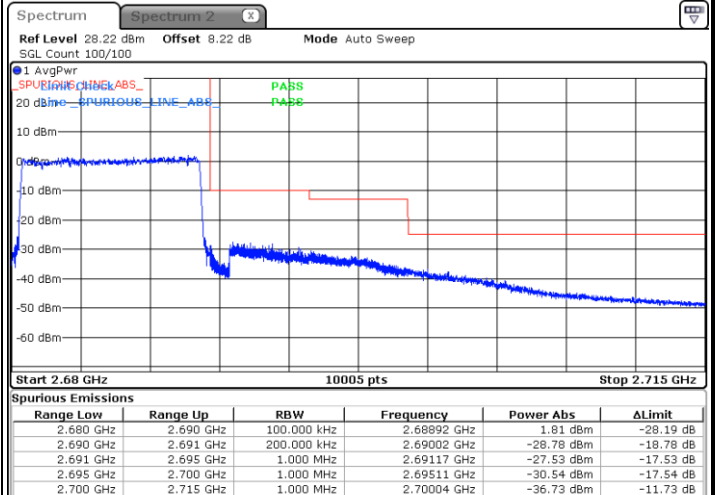
Date: 25.JUL.2024 10:10:44

Lowest Band Edge / Full RB



Date: 25.JUL.2024 10:03:35

Highest Band Edge / Full RB

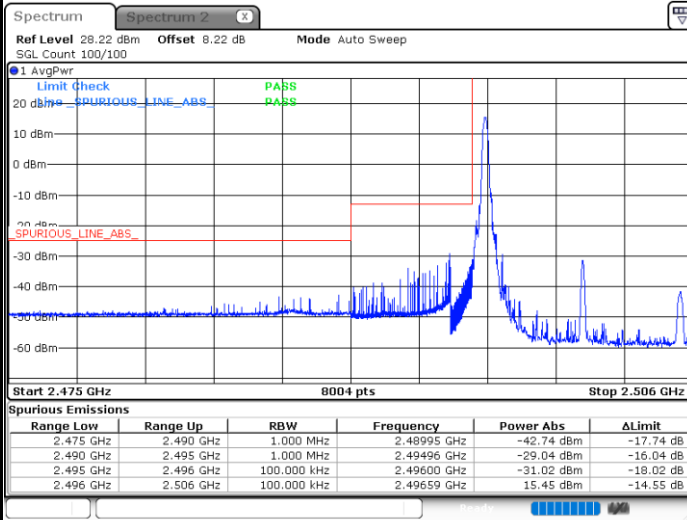


Date: 25.JUL.2024 10:13:47



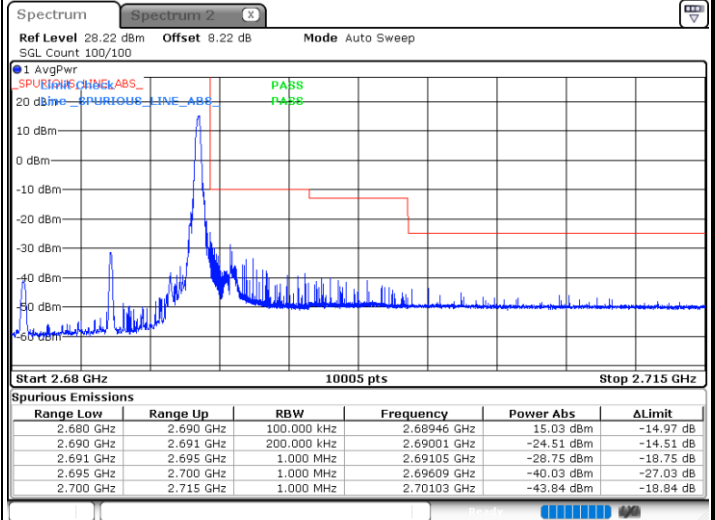
LTE Band 41 / 10MHz / 256QAM

Lowest Band Edge / 1RB



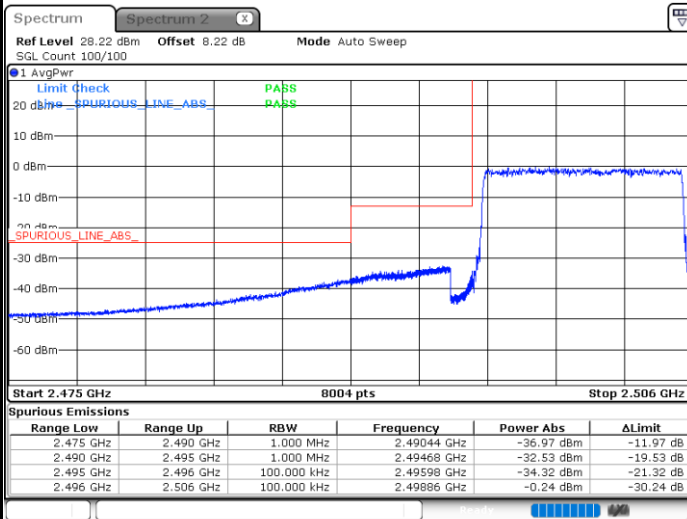
Date: 25.JUL.2024 10:00:47

Highest Band Edge / 1 RB



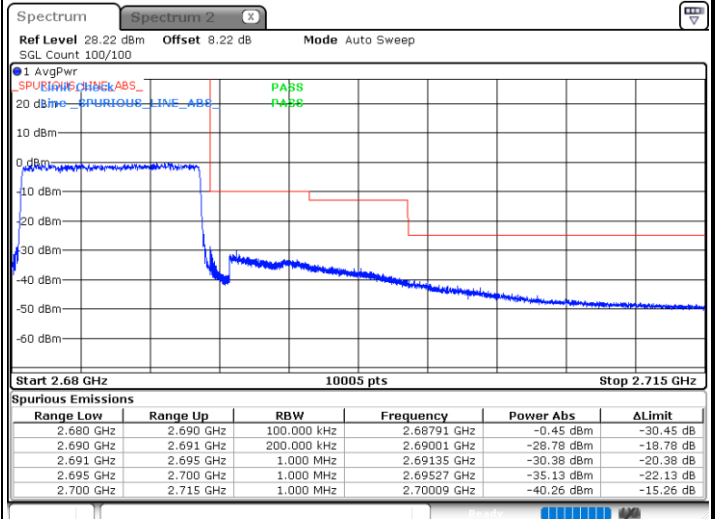
Date: 25.JUL.2024 10:11:29

Lowest Band Edge / Full RB



Date: 25.JUL.2024 10:04:20

Highest Band Edge / Full RB

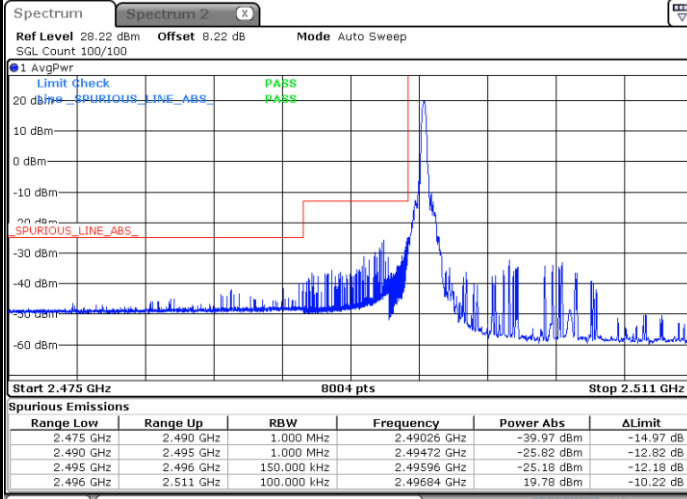


Date: 25.JUL.2024 10:14:32



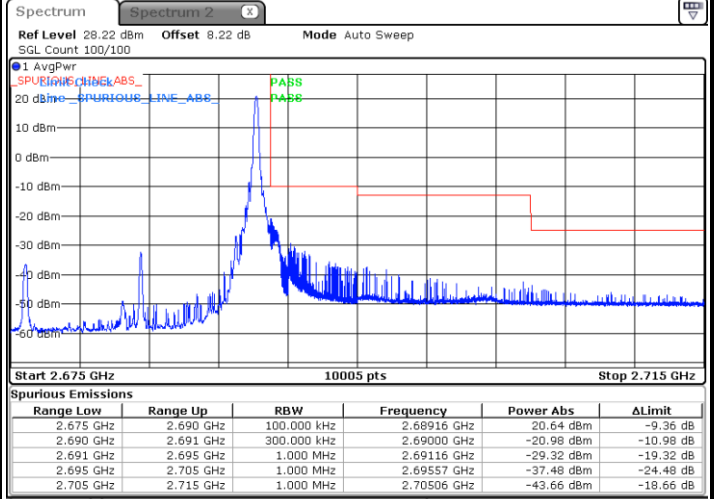
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



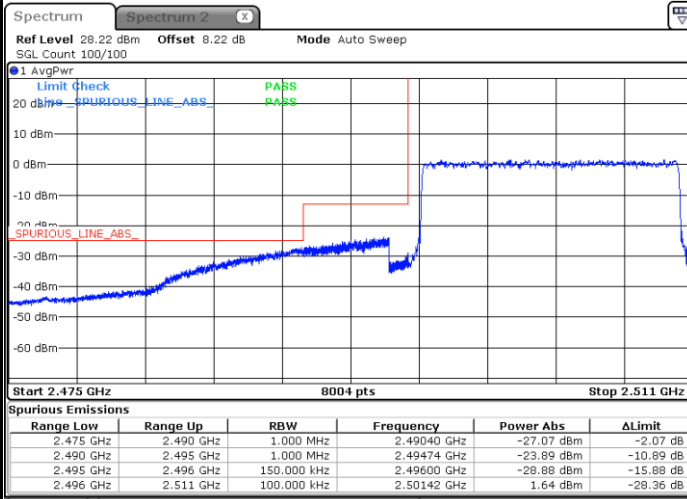
Date: 25.JUL.2024 10:17:55

Highest Band Edge / 1 RB



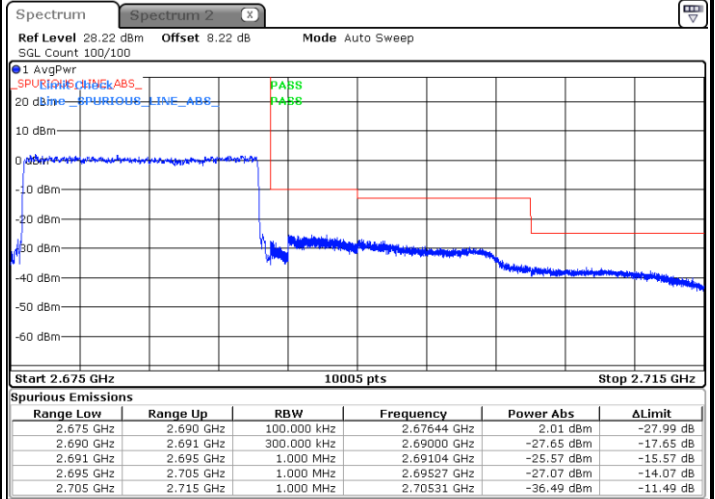
Date: 25.JUL.2024 10:28:06

Lowest Band Edge / Full RB



Date: 25.JUL.2024 10:20:56

Highest Band Edge / Full RB

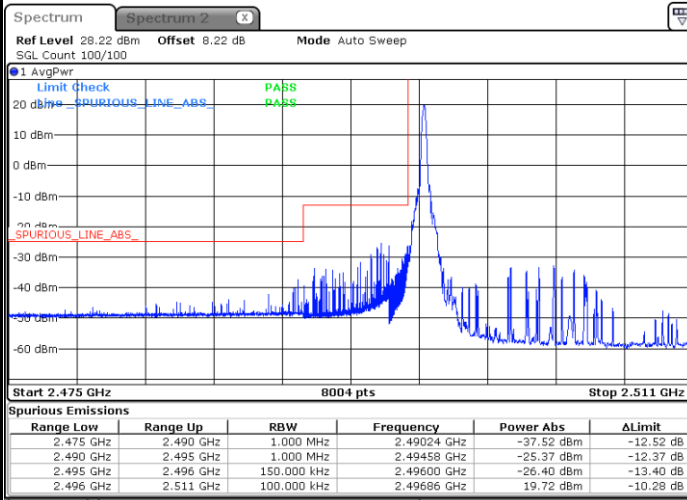


Date: 25.JUL.2024 10:31:09



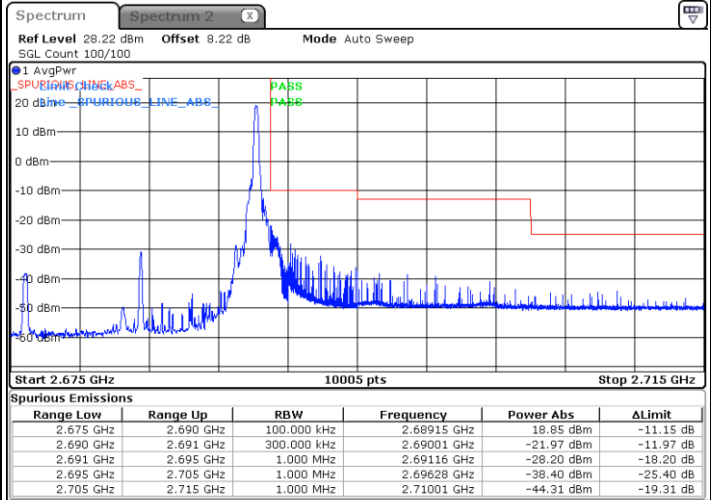
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



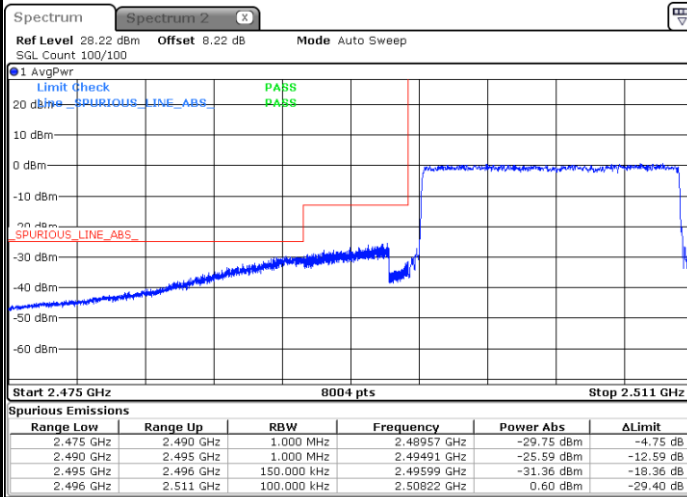
Date: 25.JUL.2024 10:18:40

Highest Band Edge / 1 RB



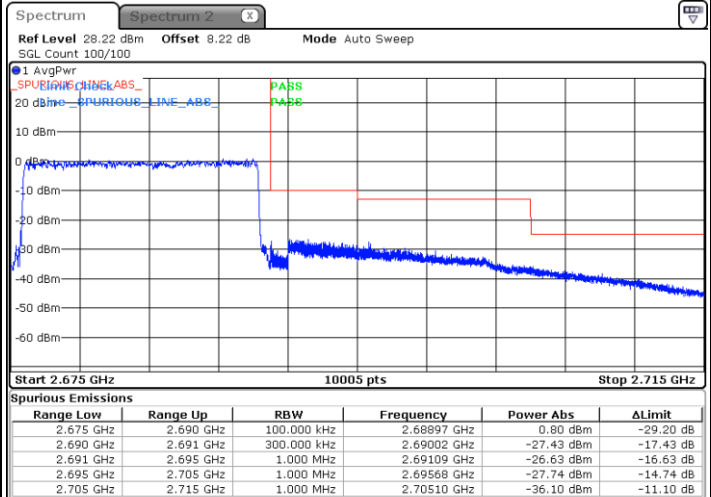
Date: 25.JUL.2024 10:28:51

Lowest Band Edge / Full RB



Date: 25.JUL.2024 10:21:42

Highest Band Edge / Full RB

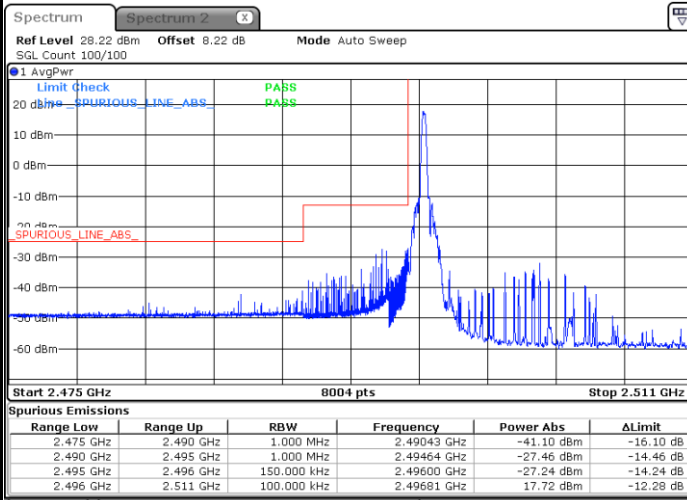


Date: 25.JUL.2024 10:31:54



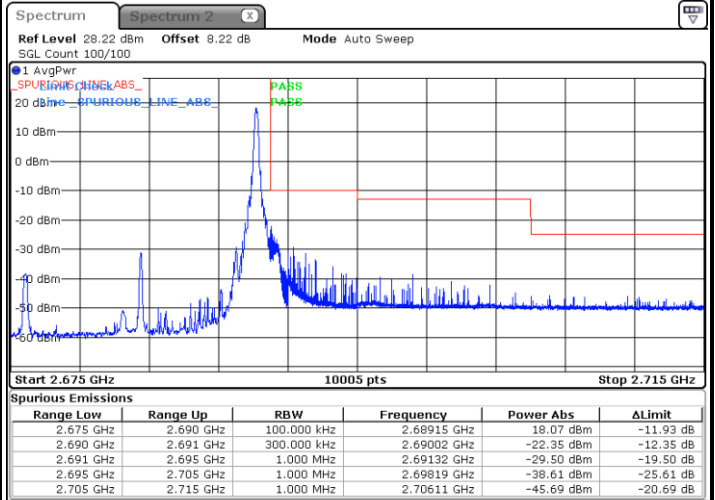
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



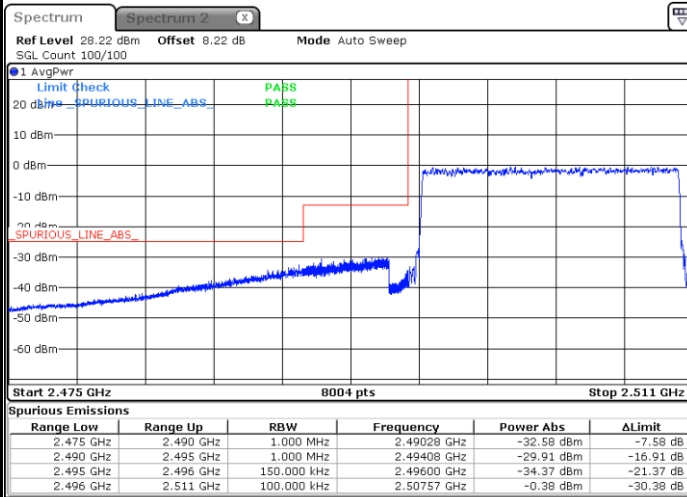
Date: 25.JUL.2024 10:19:25

Highest Band Edge / 1 RB



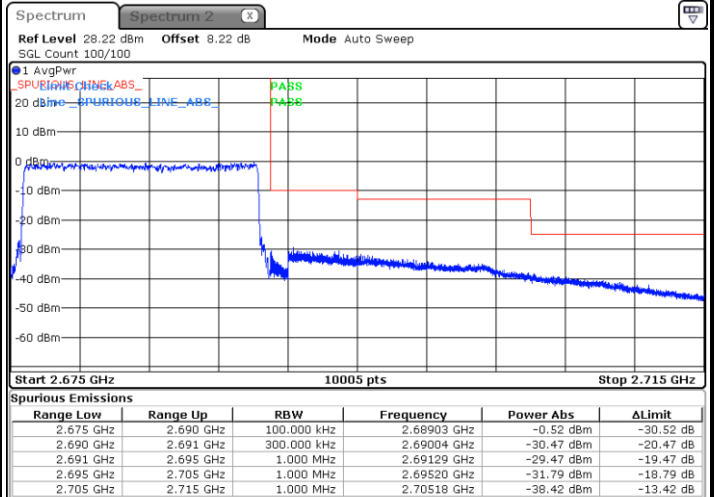
Date: 25.JUL.2024 10:29:36

Lowest Band Edge / Full RB



Date: 25.JUL.2024 10:22:27

Highest Band Edge / Full RB



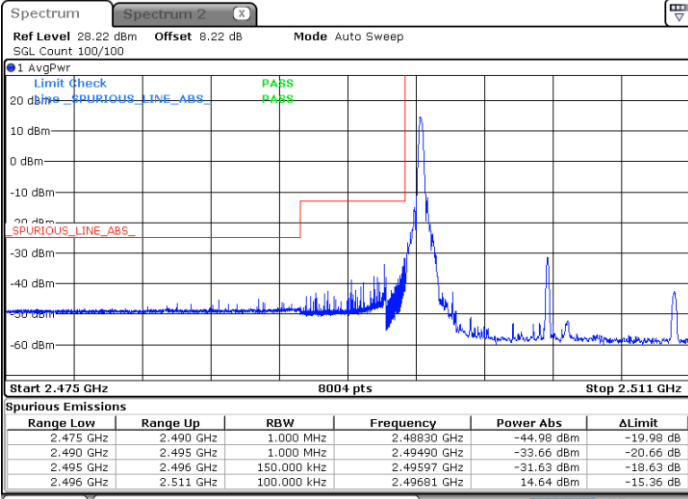
Date: 25.JUL.2024 10:32:39



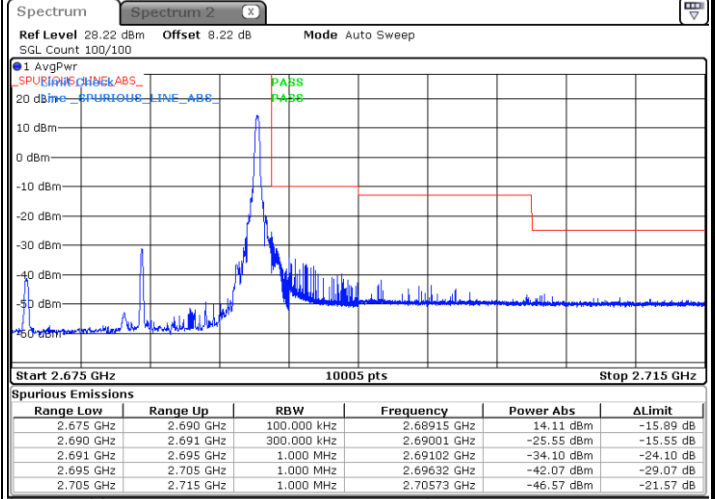
LTE Band 41 / 15MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



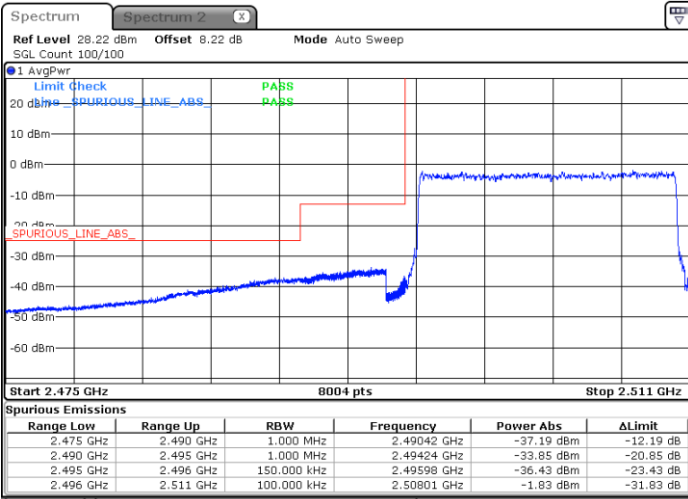
Date: 25.JUL.2024 10:20:11



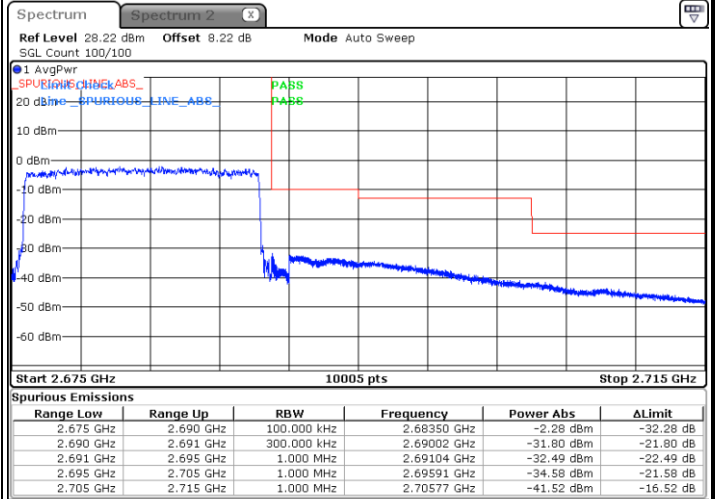
Date: 25.JUL.2024 10:30:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.JUL.2024 10:23:12

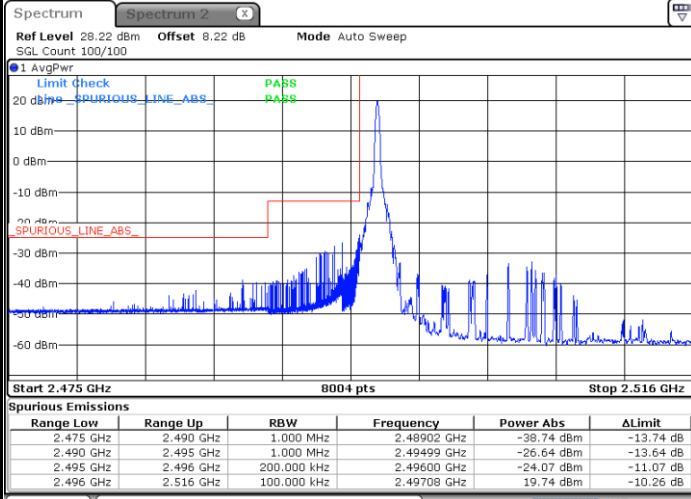


Date: 25.JUL.2024 10:33:24



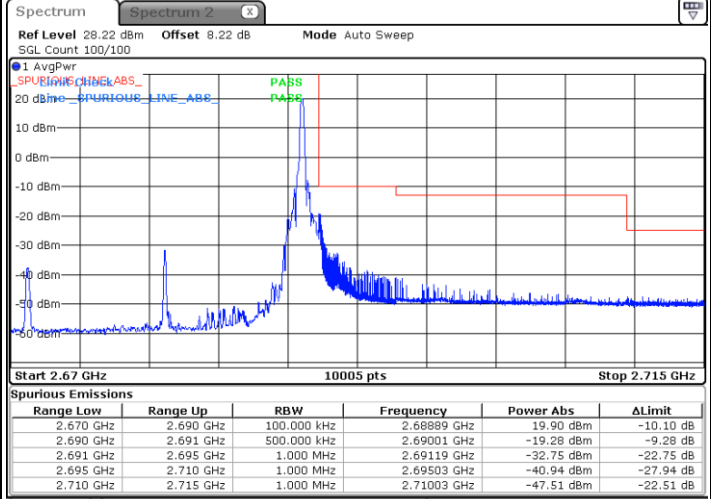
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



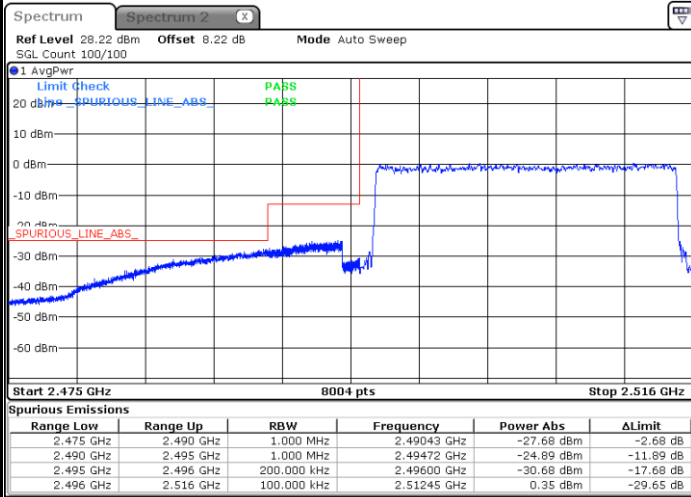
Date: 25.JUL.2024 10:36:14

Highest Band Edge / 1 RB



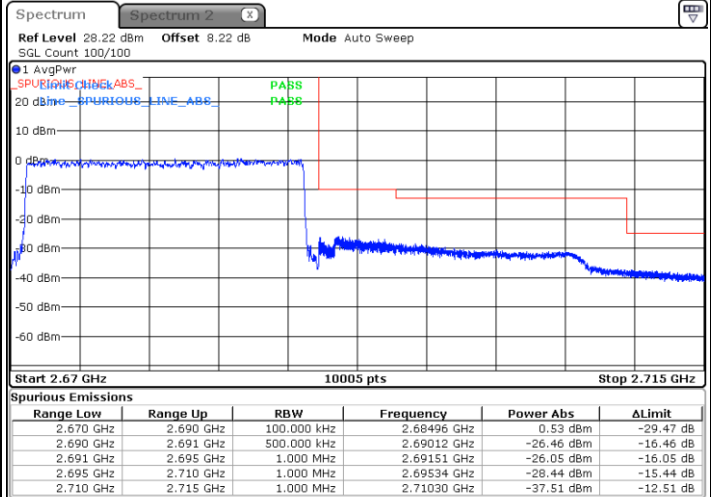
Date: 25.JUL.2024 10:46:28

Lowest Band Edge / Full RB



Date: 25.JUL.2024 10:39:18

Highest Band Edge / Full RB

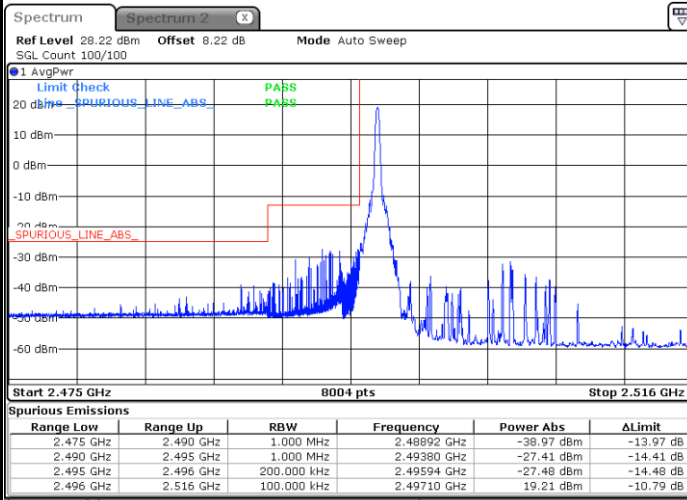


Date: 25.JUL.2024 10:49:31



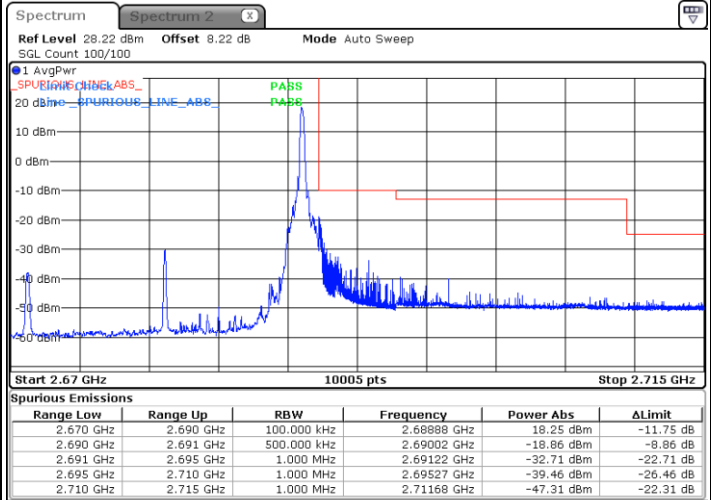
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



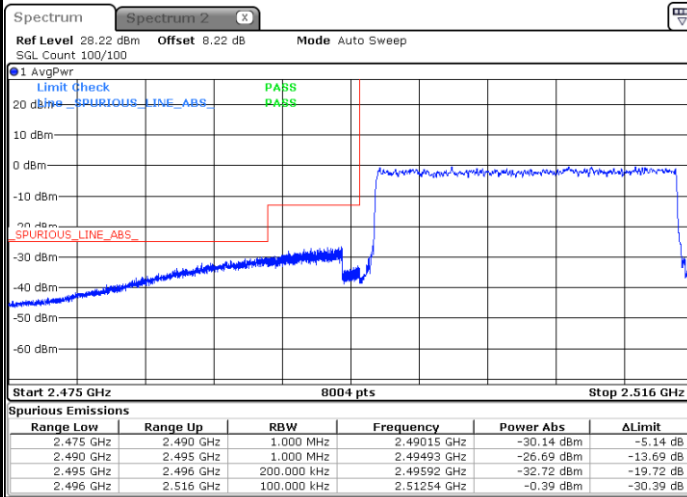
Date: 25_JUL.2024 10:36:59

Highest Band Edge / 1 RB



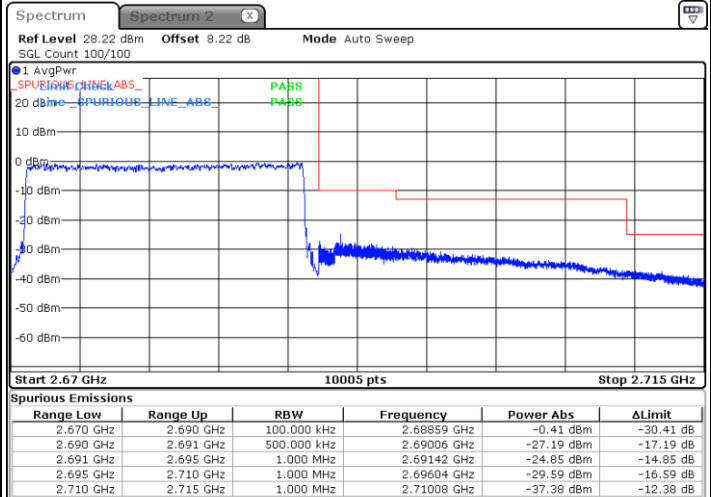
Date: 25_JUL.2024 10:47:13

Lowest Band Edge / Full RB



Date: 25_JUL.2024 10:40:04

Highest Band Edge / Full RB

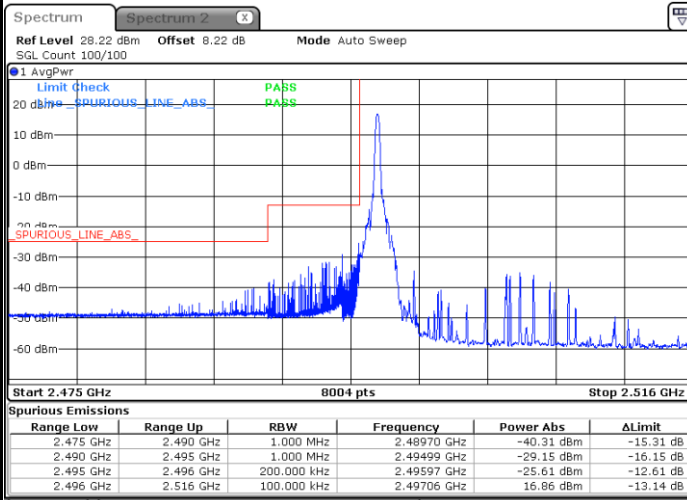


Date: 25_JUL.2024 10:50:16



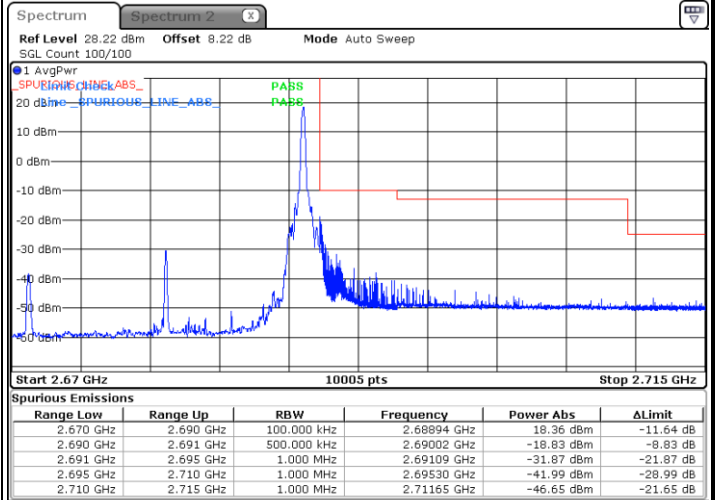
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



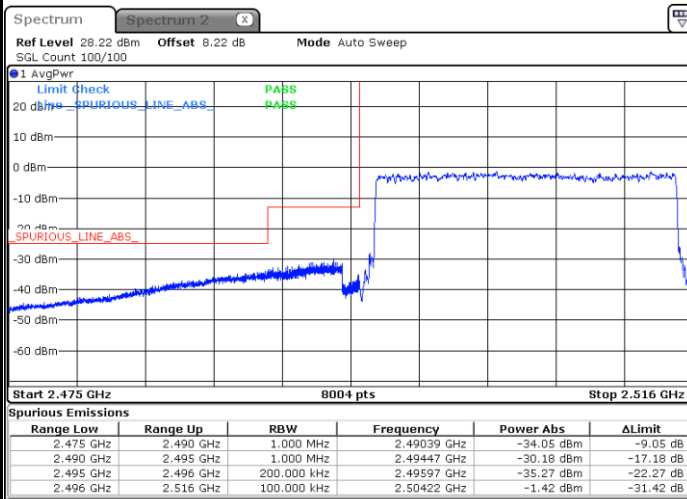
Date: 25_JUL.2024 10:37:44

Highest Band Edge / 1 RB



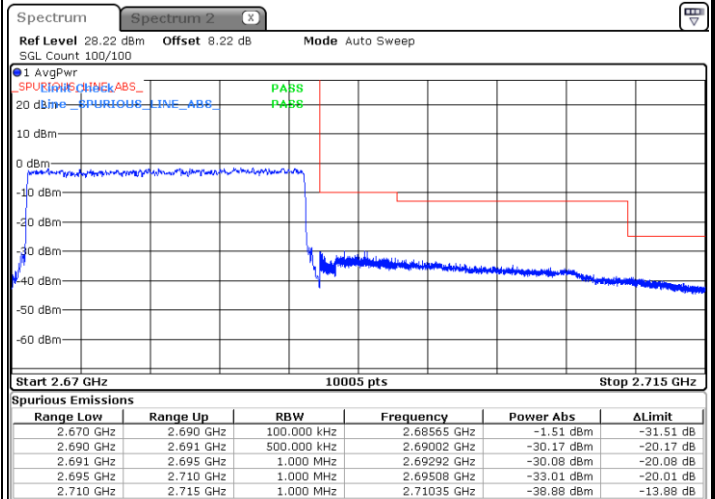
Date: 25_JUL.2024 10:47:58

Lowest Band Edge / Full RB



Date: 25_JUL.2024 10:40:49

Highest Band Edge / Full RB

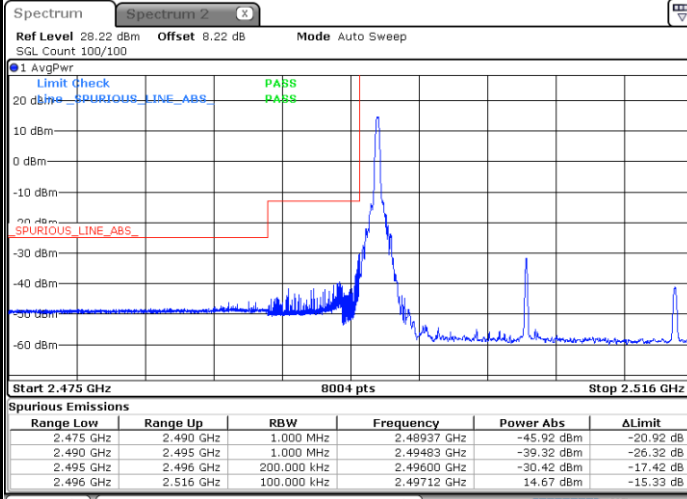


Date: 25_JUL.2024 10:51:01



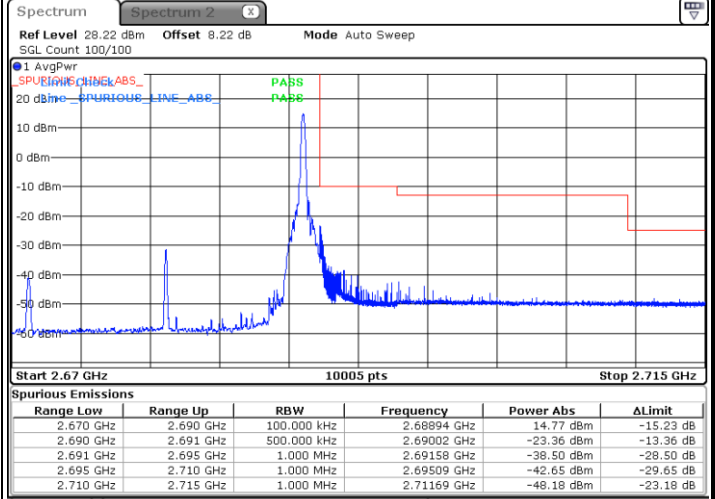
LTE Band 41 / 20MHz / 256QAM

Lowest Band Edge / 1RB



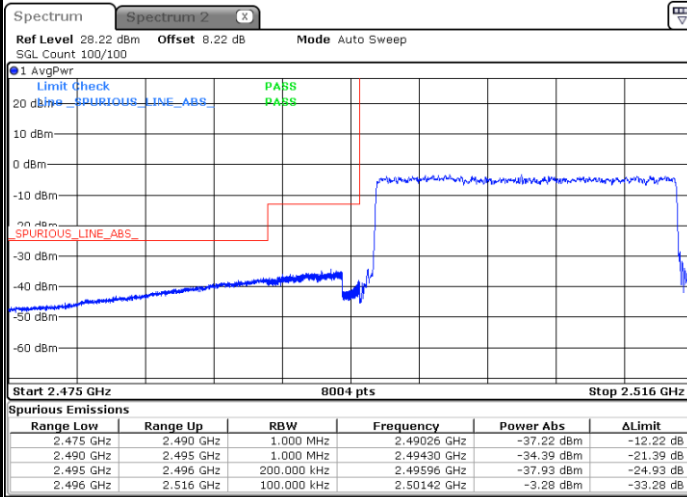
Date: 25.JUL.2024 10:38:30

Highest Band Edge / 1 RB



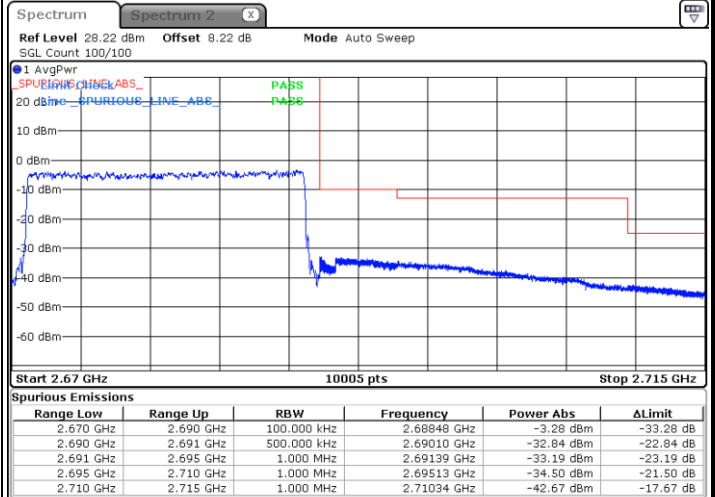
Date: 25.JUL.2024 10:48:43

Lowest Band Edge / Full RB



Date: 25.JUL.2024 10:41:34

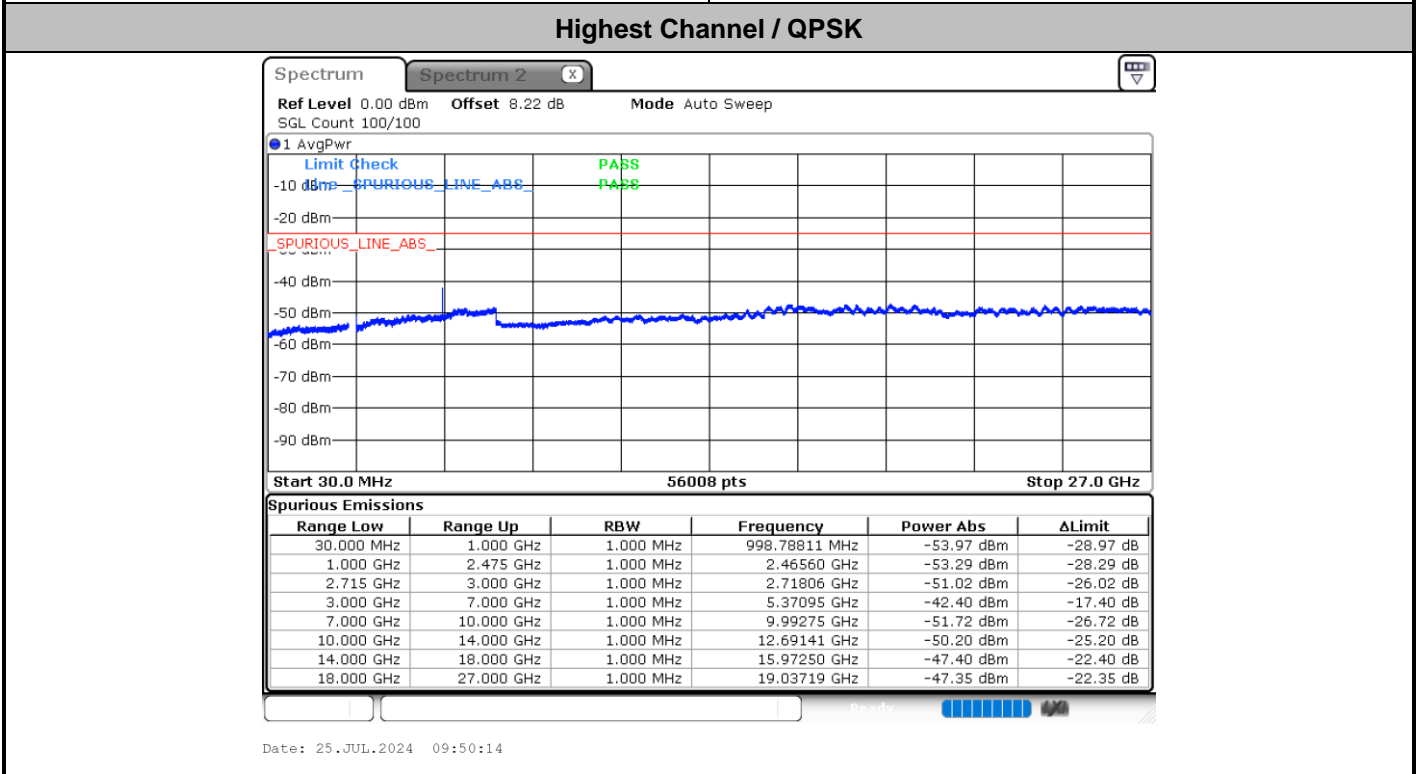
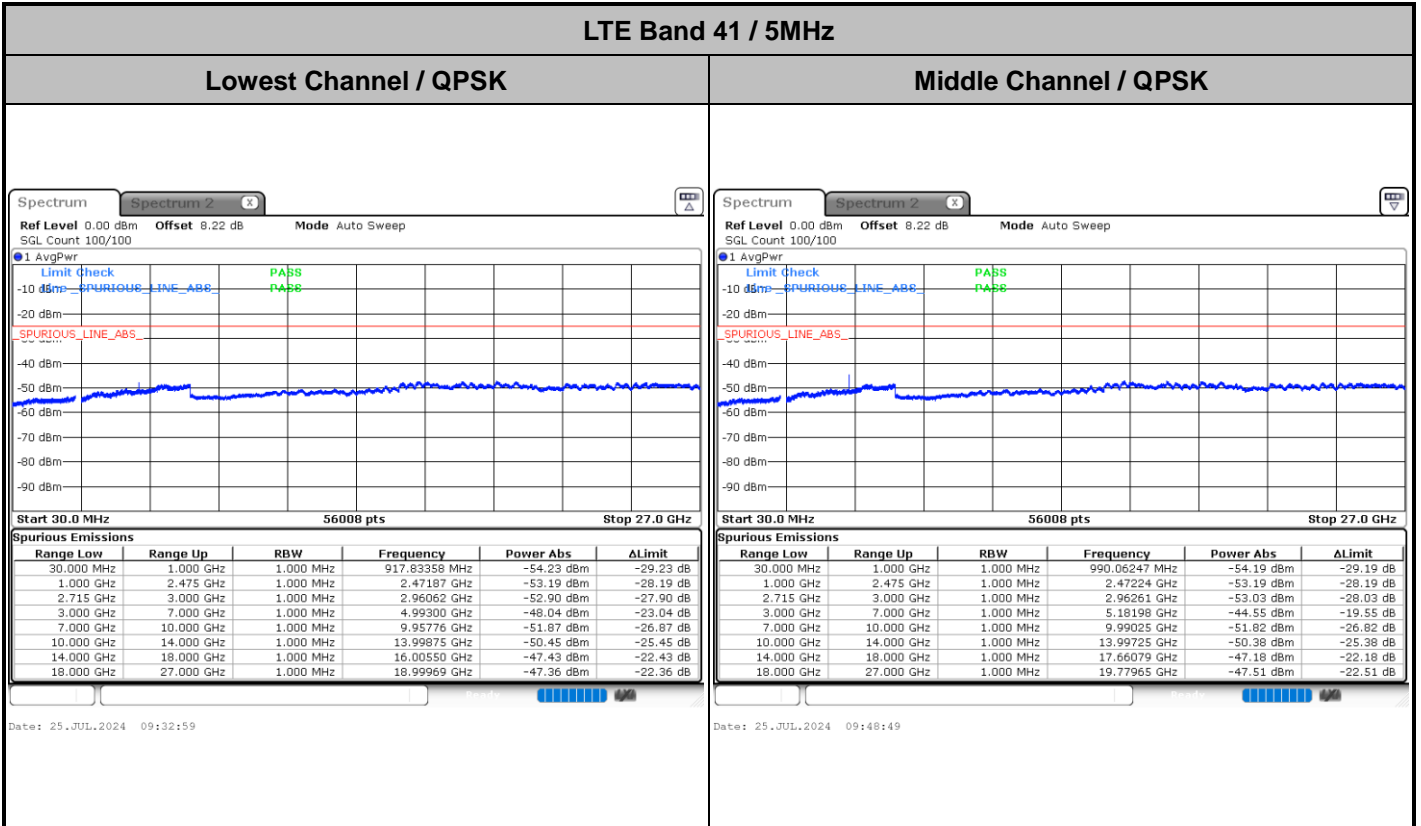
Highest Band Edge / Full RB



Date: 25.JUL.2024 10:51:46



Conducted Spurious Emission

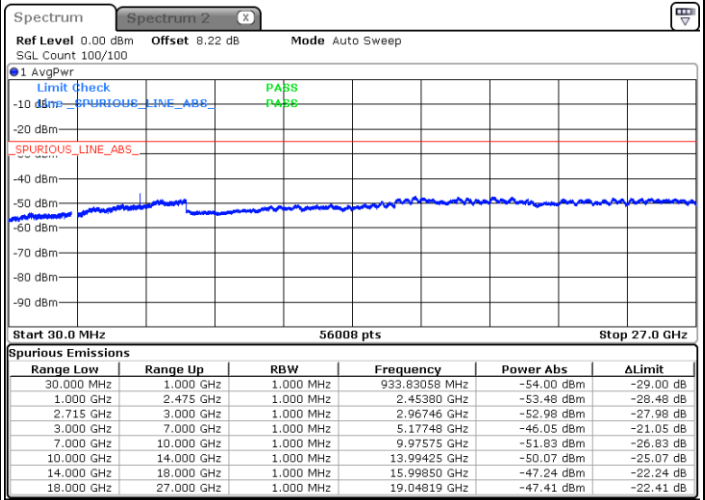
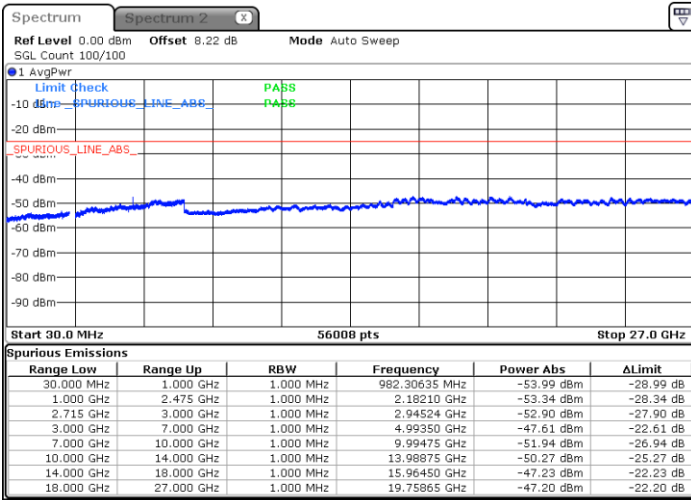




LTE Band 41 / 10MHz

Lowest Channel / QPSK

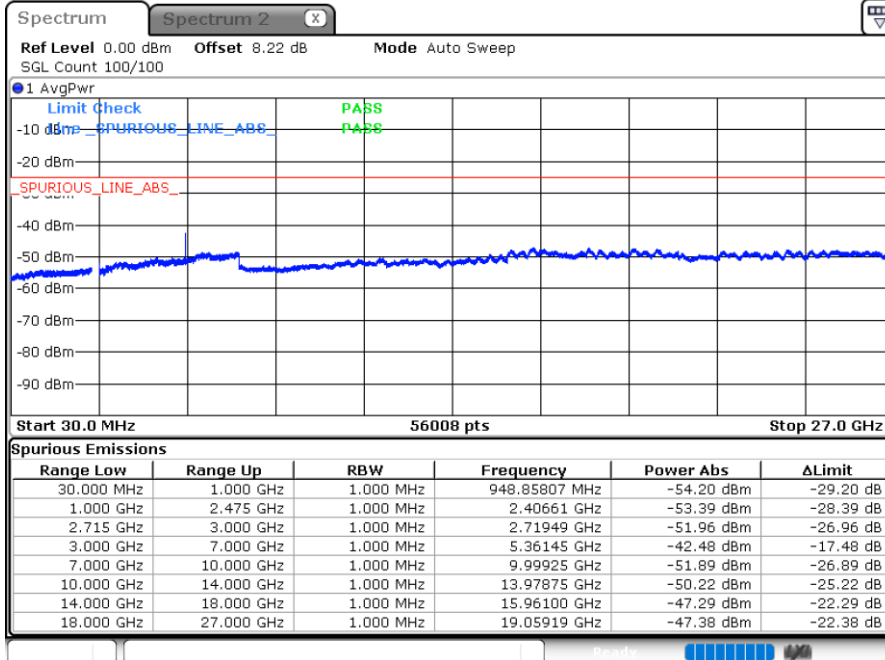
Middle Channel / QPSK



Date: 25.JUL.2024 09:57:44

Date: 25.JUL.2024 10:07:03

Highest Channel / QPSK



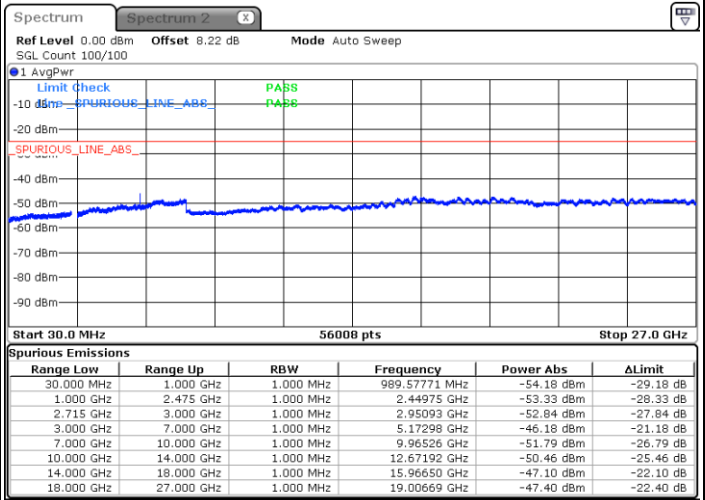
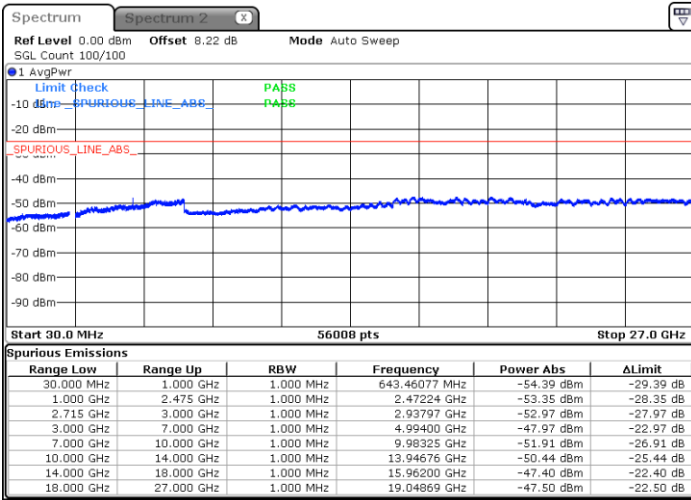
Date: 25.JUL.2024 10:08:28



LTE Band 41 / 15MHz

Lowest Channel / QPSK

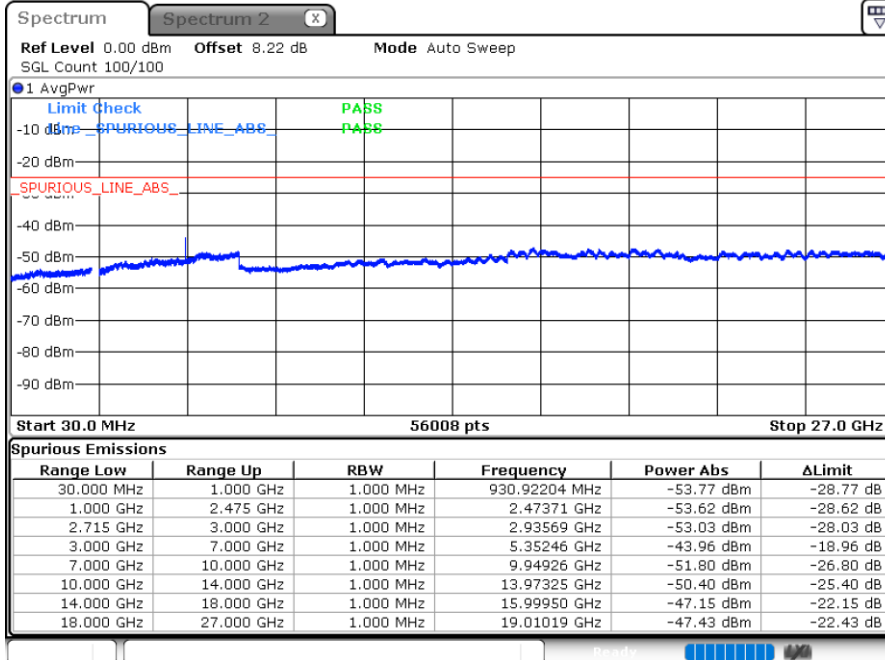
Middle Channel / QPSK



Date: 25.JUL.2024 10:17:09

Date: 25.JUL.2024 10:25:55

Highest Channel / QPSK



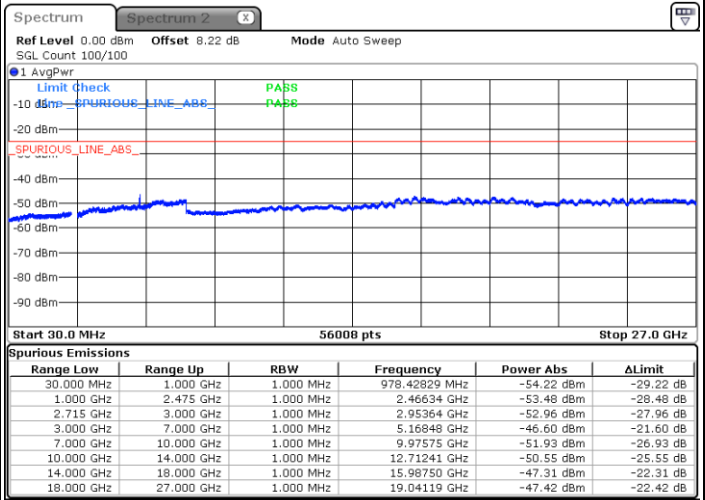
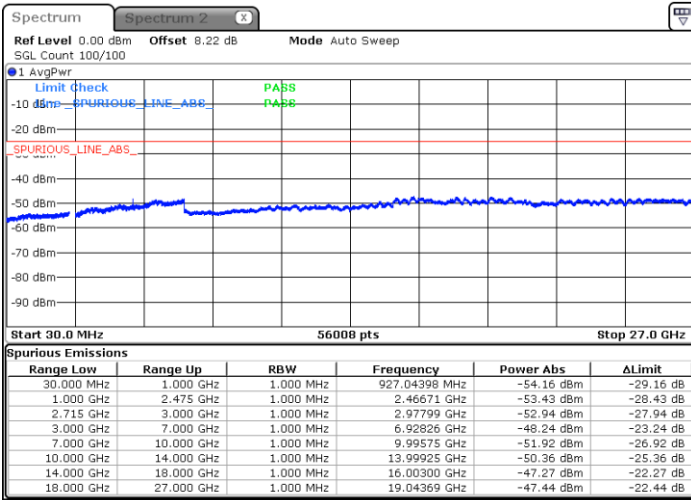
Date: 25.JUL.2024 10:27:20



LTE Band 41 / 20MHz

Lowest Channel / QPSK

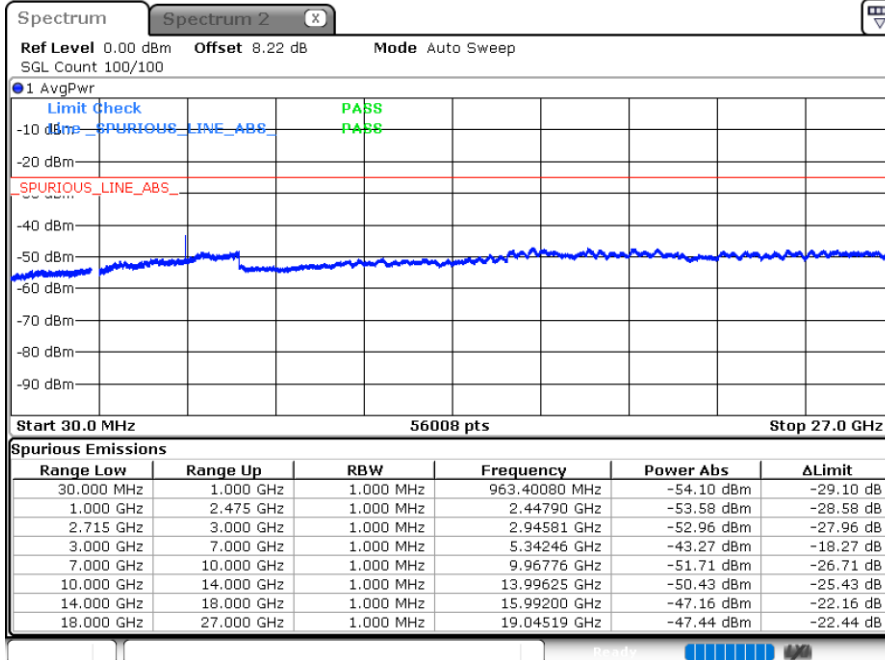
Middle Channel / QPSK



Date: 25.JUL.2024 10:35:28

Date: 25.JUL.2024 10:44:17

Highest Channel / QPSK



Date: 25.JUL.2024 10:45:42



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	0.0013	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0077	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage =3.91 V. ; Minimum Voltage =3.4 V. ; Maximum Voltage =4.5V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41C

26dB Bandwidth

Mode	LTE Band 41C-CA : 26dB BW(MHz)	
BW	5MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	24.98	24.98
BW	10MHz+15MHz	
Mod.	QPSK	16QAM
Middle CH	25.38	25.23
BW	10MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	30.15	30.03
BW	15MHz+10MHz	
Mod.	QPSK	16QAM
Middle CH	25.48	25.33
BW	15MHz+15MHz	
Mod.	QPSK	16QAM
Middle CH	30.75	30.57
BW	15MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	35.11	34.90
BW	20MHz+5MHz	
Mod.	QPSK	16QAM
Middle CH	24.93	24.78
BW	20MHz+10MHz	
Mod.	QPSK	16QAM
Middle CH	30.09	30.09
BW	20MHz+15MHz	
Mod.	QPSK	16QAM
Middle CH	35.25	35.11
BW	20MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	40.04	39.88